

Opiniodawcy.

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© Copyright by Wydawnictwo Politechniki Śląskiej Gliwice 2019 The moment that nature enters into relationship with architecture it becomes no longer whole. It changes its appearance and is reduced to elements like light, wind, water or sky. Light, wind, water or sky become the symbol of nature. Nature, which up to that point has remained definite, becomes, through its resonance with the geometry embodied in the architecture, an abstraction.

Tadao Ando¹

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¹ Tadao Ando, [w:] Levene R.C., Ce1cila F.M. (2000), Tadao Ando 1983-2000. El Croquis. Madrid, p. 95.

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PRELUDE TO THE SECOND EDITION

The original monograph Contemporary Aquatic Architecture (the title of the Polish original: Współczesna Architektura Akwatyczna), which was published in 2015, became a little bit outdated after just a few years. Especially, the last part about the development conditions and the potential of underwater architecture needs to be researched again. New possibilities have come into the picture and new implementations are being built. A general aim is to prepare a completely revised part about development possibilities as well as a new scope and area of implementation. In order to serve this purpose, the scheme of the work has been changed in such a way as to better fit the established goal. Topicality of the set of literature research has remained unchanged. The structure of the monograph has been remodelled in order to better represent the scope of the research. The publication has been divided into three parts which will be published in separate monographs.

PART 1. STUDY AND INVESTIGATIONS

PART 2. DESCRIPTION AND SYSTEMATICS

PART 3. A NEW SCOPE OF IMPLEMENTATION, CONDITIONS OF DEVELOPMENT

All three parts will be published separately paying attention to new current studies.

The first part placed in the present book describes the relevance of the topic and provides the documentation of the scope of investigations. The information from final annexes has been placed at the main body of the monograph, because it improves the logic of the science work about aquatic architecture. The full investigations presented in one of the chapters of the monograph can invite readers to participate in the research and take their own view on objects classification. It is interesting if the reader will have the same classification results as the author?

The next part will focus on the description and systematics of aquatic architecture. The final part will be the realization of the aim and it will contain a new scope and conditions of implementation of the aquatic architecture.

The second edition will be published in English with important changes in the structure of the work.

The scope of aquatic architecture is international, so the first edition in Polish had a small range of influence. This is the reason for the preparation of the English edition. Additionally, the monographs will be published in the digital network, which can make them more accessible to readers.

PRELUDE

Contemporary trends of development of the architecture using water as environment, material, inspiration or determinant of the object's purpose have a great potential. This potential results from the discovery of a new area of designing and implementation, which is underwater space. Systematics of a set of architectural objects connected with water facilitates their scientific observations. The relations with water may be physical or immaterial. The former ones are based on the vicinity of a natural water basin and a building², where water is used as a functional element. The latter ones consists in the creation of associations with water, the search for inspirations in water – being an element of the environment and the synthesis of cultural references.

The issues connected with the mutual relation between water and architecture constitute the area of studies which can be called **aquatic architecture**³. The research in this scope focuses on the analysis of elements of this set of objects and their common features. Furthermore, it enables finding creative and artistic potential in little-known and unexplored areas as well as trends appearing in and shaping contemporary architecture.

The reasons for building certain objects and the ways of application of certain spatial solutions are not always clear and unambiguous. Some buildings and structures are constructed in a specific, naturally defined spatial context, others are implemented as a result of individual

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² Significance of the relation between the natural and built environments is emphasized by **Baranowski A.** (1998), Sustainable Designing in Architecture - Projektowanie zrównoważone w architekturze. Politechnika Gdańska.

³ the word *aquatic* is derived from Latin (*aqua* means water). The fact of undertaking the subject of such architecture by foreign researchers (**Wylson A.** 1986, **Williams E.** 2009) suggests that there is the necessity of a more precise definition of this term in the context of architecture as well as an attempt to determine a set of objects of contemporary architecture built in close relations with water.

associations and inspirations of designers. Water being an environment, material and element is sometimes a pretext for creating architecture which bears common traces. Such common features reveal themselves at the level of technical solutions and emotional associations. Open waters as an element of the natural environment constitute a symbol and representation of the natural world in architectural solutions. However, not always such references are necessary in the case of contemporary users who have a good command of new technologies and sciences. The descriptions of the role of water in architecture, which are based on the references for instance to emblematic meanings of the very element⁴, seem rather archaic nowadays.

Water as a physical substance is introduced into a building object for technological purposes connected with the transformation of the internal climate or becomes a part of artistic solutions⁵, sometimes even structural ones. Construction on water or in its close vicinity causes the transformation of the natural space into a built environment⁶.

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⁴ **Niemczyk E.** (2002a) and (2002) presents perception of the world originating in antiquity, which divided the natural environment into elements. Adoption of a concept of water as an element in architectural deliberations does not correspond to the contemporary perception of reality.

⁵ **Nyka L.** (2013), Architecture and Water – Crossing the Boundaries - Architektura i woda – przekraczanie granic, p. 45-72.

⁶ Built environment – the name used by leading authors, such as **Lang J.** (1997), Creating Architectural Theory: The Role of Behavioral Science in Environmental Design. Van Nostrand Reinhold, New York; **Lenartowicz K.** (2005), The Dictionary of the Psychology of Architecture; A Textbook for Students of Architecture - Slownik psychologii architektury, podręcznik dla studentów architektury, Pol. Krakowska.

Chapter 1. STUDY

Essence and significance of the problem

Research subject and objective

Role of water in architecture – state of research

1.1. Essence and significance of the problem

Analyses of contemporary assumptions show that light, air and sunlight do not constitute all factors that determine the architectural design. Application of water is becoming more and more popular to such an extent that it is becoming a trend thanks to which architecture acquires innovative features in new relations (**Fischer J.** 2008).

The motto 'water in architecture' brings associations with Tadao Ando (**Levene R.C.**, **Cecila F.M.** 2000) and Frank Lloyd Wright. The researchers exploring this subject remind that: 'Water is not only a life-giving element in our existence, but it may be also experienced in many ways. Water creates various kinds of mood and atmosphere influencing thus our feelings.'8 'Water is far from being a mere source or material: it asks you to discover its life-giving capabilities. [...] Getting to know basic properties of water as a material is necessary to enable the implementation of assumed ideas''9.

In order to check how important is the undertaken subject to contemporary architecture, first of all it is necessary to formulate the answer to the following question: how numerous is the set of the objects of contemporary architecture representing the relation between water and the formation of space? Applying inductive reasoning, it may be assumed that the gravity of the undertaken subject to the science of architecture will be proportional to the participation of a number of objects showing relations with water against the background of all implementations. In order to conduct the above-mentioned verification an initial test was carried out. Objects of contemporary architecture listed in a thematic atlas (**Phaidon** 2004) were chosen as a research sample.

Representativeness of the examples presented in *The Phaidon Atlas of Contemporary World Architecture* – a publication documenting outstanding architectural works from all over the world built after the year 1998 – for the contemporarily built objects was assessed on the basis of the methods and rules of selection of examples by the authors of the elaboration. This collection includes 1052 architectural implementations located on all continents. The objects are situated in 75 countries and the number of authors of the designs listed in the above-mentioned publication amounts to 656 designers ¹⁰. All presented works are provided with a short description. The description defines the context, conditions of coming into existence, inspirations, fundamental data as well as technical and spatial solutions. The included architectural drawings consist of essential projections, sections and photographs showing the objects. The method of selection of the examples presented in the atlas, their evaluation and the adopted model of publication make it possible to state that they are a characteristic set of examples of contemporary architecture and therefore they may constitute the data for the performance of a quantitative test.

The number of architectural objects having relations with water was determined in the whole set of all presented objects. Dependencies between architecture and water were assessed in a subjective way. The following material relations were sought: with the location and site as well as

⁷ Tadao Ando (compare motto).

⁸ Woodward R. (2005), Water in Landscape, [in:] New Waterscapes, pp. 10-11.

⁹ **Dreiseitl H.** (2005), Water is Universal, [in:] New Waterscapes, pp. 42-45.

¹⁰ Nominations for the publications were selected by well-known experts in the field of architecture, including academic teachers, critics, professional designers as well as architectural journalists. The initial list encompassed over 4000 buildings. The designs were reviewed with a special attention paid to their contribution to architecture as art and science. In this way the collection presenting the most significant objects of contemporary architecture came into existence (Phaidon 2004).

with water as a substance of specific artistic, technical, functional and immaterial properties as well as of certain symbolics and emotions, etc. An expert evaluation was applied¹¹ as an adequate method of investigation of this new research issue (**Niezabitowska E.D.** 2014). The assessment of these architectural objects assumed that the relation with water can reveal itself in the following ways:

- 1. location above the water, on the water, under the water or at the waterfront;
- 2. functions connected with water (e.g. swimming pools);
- 3. author's inspirations by phenomena related to water (resulting from the description or name of an object);
- 4. references to nautical architecture (naval architecture, etc.). This feature was determined individually as the most subjective.

If a building revealed features 1, 2, 3, then it was qualified as a building having relations between an architectural form and water. If a building showed feature 4, then it was qualified as architecture connected with water in an indirect way. The feature no. 4 is difficult to assess objectively as it hides certain associations, emotions and cultural environment. Therefore it was sectioned off from the main stream of classification to check how big an impact the consideration or non-consideration of this particular feature would have on the research results. The results have been presented in the diagram and placed in the table.

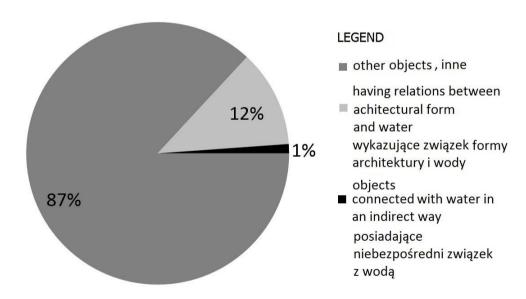


Fig. 1. Proportion of the number of architectural objects connected with water to all the implementations presented in the Phaidon Atlas of Contemporary World Architecture (Phaidon 2004) [own study].

Proporcje liczby obiektów architektury mających związek z wodą do wszystkich realizacji przedstawionych w *Phaidon Atlas of Contemporary World Architecture* (Phaidon 2004) [opracowanie autora]

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¹¹ Legitimacy of using an expert method in the case of 'deeper analyses conducted at the scientific level', such as the determination of new fields of study, was emphasized by **Niezabitowska E.D.** (2014) in: *Research Methods and Techniques in Architecture - Metody i techniki badawcze w architekturze*, Publishing House: Wydawnictwo Politechniki Śląskiej, Gliwice, pp. 161-163.

Table 1

Research results from initial observations of the frequency of occurrence of architectural objects showing dependence between architecture and water on the basis of the implementations presented in *Phaidon Atlas*of Contemporary World Architecture (Phaidon 2004)

[own study]

Wyniki badań wstępnych obserwacji częstości występowania obiektów architektonicznych wykazujących zależności architektury i wody na podstawie realizacji zaprezentowanych w *Phaidon Atlas of Contemporary World Architecture* (Phaidon 2004) [opracowanie własne]

	all		relations between	indirectly connected
	investigated	others	arch. form and water	with water
number	1052	914	126	12
percentage	100	86,9	12,0	1,1

The above-presented table and diagram show the answer to the question about the importance of the issue of the relation of water and contemporary architecture. The table and diagram show that approximately12–13% of the implemented objects – selected by the authors to be placed in the atlas of contemporary architecture – have highlighted relations with water. Taking into consideration previous deliberations and the assumption that the set of examples in the atlas (Phaidon 2004) is representative for contemporary architecture, a conclusion may be formulated that the issues of the relation between contemporary architecture and water constitute a significant designing problem and research material for the science of architecture¹².

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¹² The investigated area is on the border of science and designing practice. In the late 1980s, an attempt was made to define a new field of study called the expertise or knowledge of architecture (**Niezabitowski A.** 1988). Relations between these elements of the built environment appear in the user's perception. They are based on evidence and analyses but also on intuition and associations which are difficult to measure by means of scientific methods (**Apanowicz J.** 2005).

1.2. Research subject and objective

The subject of the research focuses on a role of water in contemporary architecture. Relations between water and architecture essentially come down to the role of water in a process of shaping the built environment, i.e. to artistic and technical solutions, symbolic inspirations and functional properties as well as the issues connected with the location of a building in relation to water. There are locations of buildings in the area of the so-called *waterfront* or setting of buildings in the water. A separate issue is the confrontation of architecture with water as an obstacle. Observations and analyses of these issues aim to distinguish and separate a set of objects constituting a new area of architectural implementations and to show the directions of development of present trends in aquatic architecture.

The diagram below (Fig. 2) shows a position of the issues of architecture connected with water, the determination of new areas of studies and their location in the set of knowledge. The presented built environment is represented by sets of knowledge such as urban planning and architecture. With relation to the subject of this work, the set of architecture includes a separate subset of contemporary architecture. Water constitutes a set including elements which were implemented artificially or elements existing in nature. Natural occurrence of water is an issue which is closer to the considerations of urban planning, whereas artificial implementation of water into the living space of human beings remains the domain of architecture.

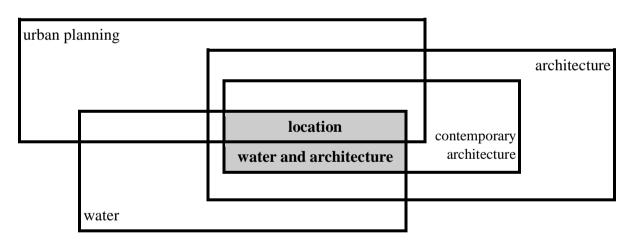


Fig. 2. Diagram of research areas. Groups of issues covered by the research on the relationships between water and the built environment, against the background of the domains of current research, determined on the basis of bibliography [own study]

Schemat obszarów badawczych. Zbiory zagadnień objęte badaniami relacji wody i środowiska zbudowanego na tle domen aktualnych badań, wyznaczonych na podstawie bibliografii [opracowanie autora]

The diagram presents areas representing subsets of issues being common parts of urban planning, contemporary architecture and water. The subject has been limited to the issues of contemporary architecture. The following subsets can be read from the diagram: the first one – includes issues of location of objects in the environment, the second one – encompasses interactions between water and architecture.

Assuming that:

- impact of water on contemporary architectural designing leads to the creation of a set of objects of a joint character,
- human building activity expands to new areas connected with water environment,

objectives of this work are defined as follows:

- **I.** Research and systematics of the functions of water in contemporary architecture presented in part 1 (the current monograph)
- **II.** Description of a method of classification of contemporary objects into the set of aquatic architecture by means of a uniform formula based on the analysis of the functions of water in an architectural object established in part 2 (the subsequent monograph).
- **III.**Determination of the conditions of architecture in a new area of implementation, i.e. in underwater architectural space established in part 2 (the subsequent monograph).
- **IV.** Presentation of new tendencies in contemporary aquatic architecture and definition of the factors determining their development the aim of the final study (the last of the series of monographs).

1.3. Structure of work

Structure of work

The adopted method of investigations determined the work structure. The substance of the work consists of three parts:

- **1. 'Study and Investigations'** (the scope of the current monograph) includes the introduction of the subject and determination of the background of the investigated issues as well as own research in the scope of the relations between water and architecture. Particular sections focus on the following:
- verification of significance of the subject of water in architecture on the grounds of the statistical analysis. The first stage of the research (initial investigations) aimed to determine the relevance of the undertaken problem for the designing issues of contemporary architecture;
- definition and crystallization of the term 'aquatic architecture' on the basis of the analysis of the subject-related literature. A review of terms and expressions was done in available publications connected with the studied subject matter. Terms which appropriately describe the investigated issues were found.

In conclusions, the role of water in architecture was determined on the grounds of collected data from the subject-related literature.

- **2.** 'Description and Systematics' (the next monograph) focuses on dependencies determined in the analysis of the so-far scientific investigations. On the basis of the information provided by the authors of studies in the scope of water and architecture, the area of investigations in the subject-related literature was defined. This part includes:
- devising the systematics of functions of water in aquatic architecture. On the basis of object research cards, sets of functions of water in the spatial and functional structure were created. Characteristic features of the analyzed water functions were highlighted in a selected group of objects.

The conducted classification encompasses:

- presentation of selected designs of the objects of aquatic architecture, including the assignation of a set of functions of water in the spatial and functional structure,
- definition of a scheme (system) of inclusion of an object into the set of aquatic architecture on the grounds of the assigned water functions.

3. 'A new Scope of Implementation, Conditions of Development' is going to include the renewed research material:

- synthesis of the issues concerning architectural objects in new underwater scope of implementation, which amounts to the determination of basic conditions of planned and safe creation of underwater architectural space.
- summary of research-related issues in which the possibilities of development of basic trends and new areas of implementation are determined on the basis of the SWOT analysis. Favourable conditions for the planned development of aquatic architecture are provided.

Diagram of research

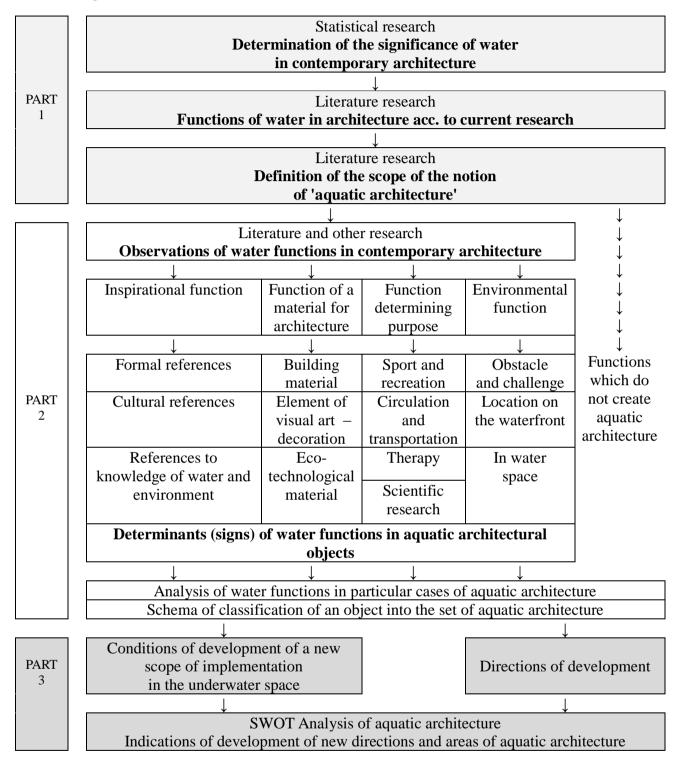


Fig. 3. Diagram of the course of conducted investigations and analyses of the issues of aquatic architecture [author's own study]

Schemat toku przeprowadzonych badań i analiz problemu architektury akwatycznej [opracowanie autora]

1.4. Role of water in architecture – state of research

Significance of the subject of water in architecture has been noticed and appreciated by numerous artists and authors. The role of water in architecture may be analysed on the basis of the subject literature, topics of conferences and designing competitions as well as the search for specific terms used to describe issues of the relationship of water and architecture. Own scope of research has been conducted against the above-mentioned background.

State of research on the basis of subject literature

Relations between water and architecture have been present since time immemorial. They resulted from utilitarian applications of water, fascination with water as a natural element, material or scenery. Water environment provided inspiration for creating spatial forms. **Davey P.** (1998) emphasizes that the first man who applied solutions based on the water-architecture relationship was emperor Nero. In the so-called Golden House located at the heart of Rome, Nero introduced spatial solutions based on a pool which had massive dimensions. It should be pointed out what huge extravagance was it, especially that it happened just after the Great Fire of Rome.

As Libura H. (1988) and Jalowiecki B. (2002) write, emotional relationships of a human being with the river are expressed in historical tales, images and legends. In personal relationships water adopts symbolic meanings as well as outlook, functional and ordering roles. **Niemczyk E.** (2002) shows that traditionally perceived water is sometimes a synonym of danger, a threat or a symbol of destruction, whereas on a different occasion it is a life-giving liquid, a soothing and healing element. For some people, different forms adopted by water – starting from a calm sheet of water, through rivers, rushing streams, cascades to waterfalls – are a reflection of moods of the mind. From a historical perspective, water adopted metaphorical and symbolic forms, which played at the same time a utilitarian function serving the purpose of hygiene and cooling. The existence of water in the history of architecture is connected with atypical and non-defined geometry as well as sensations transmitted by more senses that in the case of other materials commonly deemed to be architectural building fabric. Space can be filled with the scent and sound created by the very water. Historic places of cult, prehistoric settlements as well as ancient river civilizations came into being in places where they were influenced by the presence of both water and human works. The history of architecture shows the creation of formal elements of some buildings serving the purpose of water management or protection against water. Such constructions were built to be used in water transport and management.

Braem H. (1994) points out that archeological evidence reveals that water played additional roles already in prehistoric times, apart from utilitarian and life functions. For instance, water was present in the cult connected with animals. The discoveries of water pools or tanks accompanied by paintings suggest that the element of water was worshipped there. Also the images of 'goddess mother' were linked with a dominant role of water in the ancient world. The developing farming culture formed rituals and ceremonies based on the cult of water and connected with fertility at the same time. Confirmation of the metaphorical significance of water was discovered in burial caves. The sheet of water constituted the window to a different reality. Dishes or vessels filled with water symbolized the transition to the other side, into the world being a reflection of this reality. As **Reden S.** (1982) notes, a spring of water was treated as 'the eye of a deity'. The places of cult encompassed: cascades, streams and hollows in the rocks.

Simon E. (2000) shows how the swelling or surging of rivers became an inspiration to create the first deities embodying force and strength. Initially, rivers were presented in the form of a bull, later the element of water was personified by male muscular figures of Neptune (Poseidon) with a trident or a dolphin. The force of influence of these mythological figures is so immense that they have remained up to this day a powerful popular symbol of the sea and ocean in our circle of culture.

In Hindu culture, rivers are personified by female deities, usually accompanied by water animals. Apart from the very element of water, these goddesses symbolize also life and fertility. Uhlig H. (1993) describes how in the Egyptian culture the river Nile became the axis of the ancient civilization. The river was personified by figures of the most important deities, including Osiris himself. The Nile was perceived as a symbolic link between two worlds. Such a role is continued by the river Styx. The biggest cities of Mesopotamia were founded in the vicinity of natural water basins. The temples of those cities accentuated water as a crucial element of the circle of life. According to Haarhaus J.R. (1925), in ancient Rome the Spring of Juturna on the Palatine Hill was recognized to have the healing properties of water and was thus decorated with the figures of Apollo and Asclepius. Fratino U. (2002) presents a historical approach to the subject of water showing different aspects of technical novelties and innovations in the scope of water management in architecture and urban planning in a multi-author publication Landscapes of Water.

Special buildings and structures were constructed with the purpose of providing water management – as described by **Krenz J.** (2007). While enumerating objects such as: aqueducts, thermal baths, fountains, toilets, canals, bridges, ports, water towers, etc. or describing details, such as: roofs, eaves, rain gutters, water spouts, lead pipes, elevation skirting boards, crown cornices, wall cornices, jerkin-head roofs, window trims, portals - we are talking about elements which are used to manage water. **Mączeński Z.** (1956) describes the role played by water in the history of architecture in shaping elements and objects. Beautiful ornaments of vintage town houses also result from mundane reasons, such as protection of materials which are not resistant to water. Forms of architectural elements connected with water and different ways of their composition constitute the topic of the unpublished Ph.D. thesis by Banasik-Petri K. (2001). In her elaboration, the author draws the relations between water and architecture close together.

Niemczyk E. (2002a) notices the importance of water in architecture starting from prehistoric places of cult. In these specific sacral spaces, special zones were arranged in order to honour certain properties of water and to emphasize its role as a cult. Garden compositions and architectural details resulted to a great extent from the inspiration by water, which was interpreted as one of the natural elements, a symbol or simply as a decorative ornament. The significance of elements inspired by water and references to the very natural element of water cannot be underestimated in the architecture of ancient Greece and Rome as well as in the epochs of Gothic, Enlightenment and Baroque. Beginning from more or less the 17th century, water started to be treated as a 'fluid material'. Carrying such great historic heritage, the water made an entrance into the architecture of modernism, among other examples through implementations, such as Fallingwater House by Frank Lloyd Wright.

The issues of the relationship between water and built space are often brought up in the context of city building and development. The impact of the river on the development of civilizations as well as on urban planning principles has been a frequent subject of academic deliberations. **Piskozub A.** (2002) elaborates on the research subject of the city-forming role of the river and subsequent spatial reversal of cities from rivers due to the loss of the economic

significance of rivers. A group of huts of Lepenski Vir – the first purposefully formed spatial system of a settlement connected with water – was discovered on the river Danube. The settlement was described by **Droessler R.** (1988). The axes of huts were situated perpendicularly to the river bank line. In the same direction the entrances to the huts were located providing at the same time the interior with lighting. Such orientation of the site had practical implications for the settlement's functioning. The relationships of the spatial system and water are emphasized in settlements which were built in the Chinese cultural circle. As **Kelling R.** (1935) writes, in Chinese culture the principle of location of a settlement (a house, hamlet or town) follows the saying 'with your back to the mountains, with your face to the water'. Chinese teaching about spatial relations, which appears also in European trends nowadays, is called *feng shui* ¹³ meaning: 'wind and water'. **Crouch D.P.** (1993) writes about water in the context of development of the urban planning system of ancient Greece. He describes water as a city-forming factor. Development of the culture of water management in cities was a driving force of the economy. **Bonenberg W.** (2009) presents well-known solutions of water supply in the cities of ancient civilizations.

Zipser (2002) makes the regional economic development conditional on rivers. He analyzes their role in transport capacity of the whole Europe and an individual country. He evaluates how the river affects the administrative division as well as influences economical and geographical split of the countries. Cultural grounds for the urbanization of rivers are characteristic of traditional societies. Contemporary urban planning eliminated a close connection of cities and settlements with water in the form of a river, as is written by Juchnowicz (2002). Water in the form of a river is a creator of the landscape. Its role in the shaping of the riverside scenery is of a primordial character. The phenomena in the natural environment and the built environment are linked together and creatively influence the architecture of the riverside areas. Becoming an inherent part of the riverside landscape is a fundamental quality of the settlement architecture of such areas, according to **Bogdanowski** (2002). Regeneration of the urban tissue of riverside cities or formation of the riverside landscape of urbanized areas take place by means of creation of objects process architectural various scales. followed. This Pancewicz A. (2002, 2000), on the basis of urban planning processes taking place for instance in: Kassel (Germany) on the river Fulda, Leeds (England) on the river Aire, Porvoo (Finland) on the river Porvoo, Bilbao (Spain) on the river Nervion, San Antonio (USA) on the river San Antonio. Crossing water in the urban tissue is usually connected with the construction of bridge structures. The impact of bridges on the urban planning structure has not only a functional but also an aesthetic dimension. The bridge is an interdisciplinary work of art combining the efforts of both the engineer and the architect, as was pointed out by **Buchner** (1982).

Large-scale research on the relation between water and architecture is presented in publications concerning South Asia and Syria by **Hegewald J.B.R.** (2002) and **Miranda A. de** (2007). These authors show various aspects of the occurrence of water as a utilitarian factor and an element of culture. The above-mentioned regions developed many architectural solutions serving the purpose of safe storage of water or protection against its harmful impact. These publications focus on historical solutions, however, they are also concerned with the 20th-century architecture (for instance Chandigarh located in the north of India).

Water in both contemporary and historic architecture is described by Wylson A. (1986) in

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¹³ *Feng shui* (*wind and water*) – an ancient Chinese method of space arrangement with the purpose of obtaining harmony with the world. The method was described by Guo Pu living between the years 276 and 324, the quotation from the translation by Field S.L. (2009), *The Zangshu*, *or Book of Burial*.

the publication Aquatecture: Architecture and the Water. The author of the above-mentioned publication distinguishes water as a religious and cultural context for the historic building development in different regions of the world. He also emphasizes an ecological role of water as well as visual effects. The publication raises the issues of the so-called waterfront on an urban-planning scale in relation to the city and post-industrial areas as well as to rivers and other water basins. The author perceives water as an environment for building historic traditional architecture as well as contemporary architecture. The book presents technical and artistic elements connected with water which are placed in the natural environment.

Waterfront¹⁴ is a site of natural occurrence of architecture and water. The subject of the interaction of water and the city in this particular area is researched by **Januchta-Szostak A.** in the publications which were academically edited by her: Woda w krajobrazie miasta (Januchta-Szostak A. 2009b) and Water in Townscape (Januchta-Szostak A. 2009a). These titles also discuss the following issues: regeneration of urban areas connected with water, a role of rivers in the formation of the cityscape, devices of small architecture using water, formal inspirations by the element of water itself in the creation of such architecture as well as sustainable spatial planning taking into consideration phenomena occurring between water and urbanized landscape 15. The above-mentioned publication includes an article by **Bardzińska-Bonnenberg T.** (2009) Water – the Status Symbol within the Cities and Architecture which presents water as a status symbol on the urban-planning and architectonic scales. The use of rain water in urban devices and decorations was presented as an aquatic culture in the chapter Aquatic Culture in Sustainable Town Planning. Threats to the buildings located at the *waterfront* were described in the publication by **Williams E.** (2009) entitled Aquatecture – Architectural Adaptation to Rising Sea Levels. This title discusses risks of living and building in the areas that might be affected by the rising water levels. The content includes deliberations on urban-planning designing and community relations.

Natural disasters connected with water and its destructible force affect the building development in the adjacent areas in the economical, technical and emotional scope. Floods, flooding of the reclaimed and developed environment including the built environment cannot be completely prevented due to the cost, the condition of the environment and landform features. As a result, emotions connected with this natural phenomenon will always accompany the architect in the process of designing some architecture in the vicinity of water, as was pointed out by **Kostrzewski A.** (2002).

The significance of water in architecture has been a frequent subject of interest among authors since the 1960s. The social and cultural role of water was described by **Ninck M.** (1967) and then by **Böhme G.** and **Böhme H.** (1996), **Altman N.** (2002) and **Verma A.** (2008). These authors find spiritual, mystic and symbolic elements in water which have impact on architecture. A large-scale research on the meanings of water and its applications in architecture was conducted by **Moore C.** and **Lidz J.** (1994) in the publication *Water and Architecture*. These authors bring up issues of cultural meanings, metaphysical associations as well as contemporary perception by the multi-cultural society. In *Poetic Water Images in Architecture*. **Kirschner U.** (2006) presented how water in its mobility and different states of matter inspired many architects to create

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¹⁴ The use of the word *waterfront* has become widespread in publications concerning the relationship of cities and water by joining English words *water* and *front*; this term perfectly reflects the subject matter of the shore or riverside building development - facing the water or located only in the vicinity of natural water basins or permanent flows. That is why the author of this elaboration has decided to use this term as commonly known without providing any further explanations.

¹⁵ The interest in building in the city centres is one of the possibilities contributing to the development of aquatic architecture which cold be taken into consideration in the SWOT analysis.

spectacular designs. The book searches for analogies of designing and symbols of water in different cultures. The publication includes analyses which show contemporary interactions between nature, represented here by water, and architectural expression.

Nyka L. (2013) investigates the borderlines between a building and water in a real sense but also in an emotional and cultural sense in the publication entitled *Architecture and Water – Crossing the Borderline (Architektura i woda – przekraczanie granic)*. The author describes water and architecture in the context of historical relationships, mainly in urban planning, with relation to the subject of the river in the city as well as artificial water tanks built in the urban tissue. On an architectural scale, the author highlights the presence of water in the building's interior as an artistic and compositional element. The publication also emphasizes the crossing of the borderline of land and water in architectural implementations. A considerable part of the above-mentioned publication focuses on the application of water in the formation of urban space by taking advantage of the existing natural flows or by creating artificial water basins.

Conferences, exhibitions and experiments

Current interests of contemporary professional artists, designers and researchers in the issues of the co-existence of architecture and water may be traced on the basis of topics of conferences, competitions and exhibitions. These are dynamic activities connected with an active exchange of ideas and opinions. A chronological review shows growing intensification of such activities.

Traditionally, the turn of centuries is a period enhancing the creation of visions and construction of the world of the future. In the years 2000 and 2001, an undertaking took place which suggested the direction of pursuits and conceptual deliberations on the architecture of the future. It was namely an international architectural contest organized by the UIA ¹⁶. The competition was open both to professional architects and students of architecture. The subject of the experiments and research was *Architecture and Water*. The contest was held under the auspices of the UNESCO¹⁷. Eight hundred and fifty participants from sixty-three countries took part in it. The organizers aimed to show ¹⁸ that water and its forms have the power to stimulate architects' creativity. This objective was fulfilled by collecting ideas concerning the solutions of current and future problems. A big emphasis was laid on planning without the pollution of lakes, rivers and seas, ensuring proper management of water resources and introducing the technology of water purification and retention.

The organizers' aim was to show water as an ideal medium common for many cultures. Taking into consideration the diversity of architecture connected with water, the competition was to bring solutions on micro and macro scales in real-life or imaginary locations. The organizers expected the creation of innovative aesthetic propositions that would have direct relationships with water. Grand Prix was given to Omar Mohammed Kamal Rabie from Egypt. The jury appreciated a highly symbolic aspect of his work. In the jury's opinion, 'it illustrated the expanse of the subject of architecture and water. In the presented reflections, its author undertook the topic of a spiritual source of architecture and human possibilities in the interpretation of the world. The design of this

¹⁷ United Nations Educational, Scientific and Cultural Organization

¹⁶ UIA – International Union of Architects

¹⁸ On the basis of the contest programme: *International Ideas Competition open to architects and students of arhitecture*. Organized by the UIA under the auspises of the UNESCO, announced in May 2000.

architectural object refers to the creation of the world, calls for the harmony among religions and builds bridges over the storms of civilizations. Thorough philosophical background is illustrated by means of architectural details showing contemporary constructional, technical and aesthetic capabilities'19.

The architect Wolf Tochtermann – one of the jurors of the competition – writes, among other things, that life-giving water and perilous water are two characteristic aspects of the relationship between water and mankind. Water determines the way of human living, dwelling and activities. Many towns, villages and hamlets exist only thanks to water upon which their growth and development depend. The pursuit of water or fighting its mighty power have a great impact on investments. Accessibility of pure water is a decisive factor as far as health is concerned, whereas floods pose a danger to human beings. Engineers' and architects' skills and expertise provide the cities with water and protect them against ill effects. Water has always had a great influence on the civilization. The competition that was held proved that 'water writes history' and plays a symbolic and purifying role²⁰.

The above-mentioned competition held at the turn of centuries under the auspices of mighty and respectable organizations resulted in further activities in the scope of the subject of water and architecture all over the world. The International Competition for the Kaohsiung Waterfront renovation project was organized in Taiwan. The city of Kaohsiung is in a transformation phase, therefore the authorities in co-operation with the management board of the harbour are planning to convert this industrial town into 'the Ocean Capital'21. Another event connected with the emphasis put on the relationship between water and architecture was a biennial exhibition under the title AquaTectur Architecture and Water – Water houses – Houses beside, around, in and of water²². The title itself already reveals the struggle with the very name for this kind of architecture built in a close relation to water. The biennial event gathered collections of designs and sketches representing various approaches of international architects to the subject of water and architecture itself. The presented propositions revealed a wide spectrum of solutions, from conceptual to very practical ones. The subjects of individual designs could have been influenced by the fact that the exhibition was organized by a well-known company manufacturing bathroom fittings. The event was held in September and October 2004 in Venice and its effects show that water in architecture has many meanings.

At the turn of 2002 and 2003, the San Francisco Museum of Modern Art held an exhibition *Architecture of Water*. Five renowned international design studios presented their solutions in the scope of architecture conditioned by water. The following designers presented their works: Foreign Office Architects, MVRDV, Diller + Scoffidio, Steven Hall Architects together with Michael Van Valkenburgh Associates, Alsop Architects. The developed designs integrated architecture, landscape and infrastructure as well as the so-called waterfront area. The participants showed innovative approaches and verified relations between water and the built environment²³. Earlier, from April to October 2001, the same works had been exhibited at Van Alen Institute, and then from February to May 2002 at Heinz Architectural Center²⁴.

The subject of water and architecture is particularly developed and given focus in harbour

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¹⁹ On the basis of the description of the award-winning work acc. to Hempel A.G. UIA vice-President, Jury Member.

²⁰ Ibidem

²¹ On the basis of http://vision.kcg.gov.tw as of 12.09.2006.

²² Source of information: www.labiennale.org/en/architecture/metamorph/metaevents.html as of 25.02.2009.

²³ Source of information: www.sfmoma.org/exhibitions/exhib_detail.asp?id=94 as of 02.03.2009.

²⁴ Source of information: www.ltwork.net/aw3.html as of 05.01.2009.

cities. An exhibition entitled *Harbour Shop* was organized in Gardini di Castello in September and October 2004. It presented the issues of Danish harbour landscape²⁵. In Rotterdam, the Second International Biennial under the title The Flood was held in 2005. During many months of discussions and deliberations, Dutch architects and urban planners brought up various aspects of the relations of water and architecture. The Netherlands is particularly entitled to conduct such discussions as more than a half of the country is made up by the areas reclaimed from the sea and hence located in depression. The main purpose of the Biennial was to move the focus in the discussion about the water in the environment from climate issues to architectural issues. The exposition was divided into three parts: Water Cities, Our Sea (Mare Nostrum²⁶) and Polders. The exhibition Water Cities presented mainly the struggle of the Dutch with water over the centuries. However, one of the most interesting references was an idealistic concept of *Plan Obus* in Algiers created by Le Corbusier in the 1930s (Curtis W. 2006). This concept, which was formulated almost one hundred years ago, became an inspiration for many contemporary experiments. Futuristic designs were accompanied by practical attempts of solving the problem of the river rising. The exposition Mare Nostrum referred to marine economy and development of tourist industry on the borderline of land and water. The issue of polders was closely connected with the location of the exhibition. Contemporary Dutch landscape is at risk. The rising sea level poses a threat to exclude a considerable part of the existing polders which had been reclaimed from the sea. Economic considerations were concerned with the profitability of maintaining the existing polders with a view to climatic changes or the construction of new ones (Konrad M. 2005).

The University of Agriculture in the city of Szczecin has organized a scientific conference the Forum of Landscape Architecture since 1998. In the year 2006 the subject of the conference was *Water in Landscape*²⁷. It discussed the issues and possibilities connected with the potential water brings into shaping space and landscape. The issues were concerned with architecture, landscape architecture, spatial management, ecology and geography. The discussions encompassed tendencies, designs, studies and theoretical investigations.

In 2006 there were announcements of attempts to design and build underwater hotels²⁸. They were supposed to be financed by limitless financial resources of Arab sheikhs and American multimillionaires. Some designs of such underwater structures were created. One of them is *Poseidon Resort*²⁹ designed by Bruce Jones – the chairman of the US Submarines, a company dealing with the construction of underwater 'toys for the rich and the famous'. Another design was called *Hydropolis* ³⁰ and was proposed by Joachim Hauser. Both designs have something in common – they have never been implemented ³¹. The reason for that could be found in the improper preparation of the investment, misconceived notions of limitless financial resources ³² as well as the lack of knowledge of underwater building engineering. Worldwide economic tendencies, being reflected in bank, market and petrol crises, have influence on the global

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²⁵ Ibidem.

²⁶ Term *mare nostrum* was used by ancient Greeks and Romans in reference to the Mediterranean Sea (Lowe C.J. (2002), Tellegen-Couperus O. (1993).

²⁷ Source: www.ar.szczecin.pl as of 10.03.2006.

²⁸ Development of tourism and recreation is one of the possibilities of growth which could be considered in the SWOT analysis.

²⁹ Source: www.popsci.com/popsci/technology/ddd2b2590077f010vgnvcm1000004eecbccdrcrd.html as of 15.05.2009.

³⁰ Acc. to SPG Media Limited a subsidiary of SPG Media Group PLC.

³¹ http://www.underwhdubai.com/ as of 28.06.2015, http://www.poseidonresorts.com/ as of 15.07.2015.

³² A high cost of investment is one of the weaknesses which could be taken into consideration by the SWOT analysis.

development of architecture, including aquatic architecture³³. Up to this day we have heard about the so-called designs of underwater objects³⁴ in the media. The conceptions of underwater space in such designs originate more from Hollywood film productions rather than real-life experience and expertise. Limited visibility and pressure are not taken into consideration. Such an approach to designing is most probably always doomed to fail and never result in implementation.

Hurricane 'Katrina'35 which wreaked havoc on New Orleans and the flood which followed caused a discussion concerning the re-building of the city. In order to do that designs were prepared by the most famous architects in 2006. Those designs became later the subject of an exhibition³⁶. The presented propositions went far beyond standard plans of re-building the city. The designers showed the architecture of the future in the proposed solutions. The participants included MVRDV, UN Studio, West 8 from the Netherlands as well as Morphosis from California, USA. The exhibition showed close relationships between architects from the NAI 37 with the New Orleans's Tulane University (with the leading figure of Dean Reed Kroloff). The confrontation of the Dutch experience of living below the sea level and a constant threat of being flooded with the issue of re-building the flooded city resulted in many daring architectural solutions. The exposition of works took place at the NAI in Rotterdam.

The years of 2006 and 2007 witnessed the presentations of ice buildings. One of them was Snow Castle in Kemi, Finland. This hotel facility was visited by 300 000 guests. The building includes a hotel, chapel and restaurant. Another design of a hotel facility made of ice is Snow Hotel in Jukkasjarvi in Sweden. It was the first of the ice hotels and its concept goes back to the 1990s. Similar facilities are built in Canada, Norway and even in the mountains of Romania. Ice buildings have become a part of the human-built environment and an element of economy³⁸.

In February 2009, the Poznań University of Technology held the International Scientific Conference entitled Water in the Townscape, which was organized by the Faculty of Architecture. The meeting made it possible to exchange opinions and knowledge at different levels of planning and designing. The conference discussed the impact of water elements on the city or town landscape, its symbolics, aesthetic values as well as psychological, technical and technological qualities. Designing issues were confronted with both strategic planning and architectural details. The discussed subject matter could be divided into three areas: regeneration of urban waterfront areas, a role of water in shaping the city's public space, aquatic culture in architecture and

³³ This feature could be considered to be a threat in the SWOT analysis.

³⁴ In May 2015, a TVN television programme presented a Polish architect who was discussing an idea of the construction of underwater tennis courts at 'a relatively small depth of 30m' - obviously paid for by the sheikhs. The dome covering was to be made from a transparent material. If inside there was to be the atmospheric pressure, then the pressure of water would amount to around 30 tons per each square metre. It should be reminded here that loads exerted on building structures on dry land usually equal from 75 to 250 or 300 kg/m². If inside the dome there was to be the pressure equal to the ambient pressure, a human being would have to breathe gases under a pressure of approx. 4 atm. Due to this fact, staying in such a place would have to be limited to a dozen or so minutes, otherwise people should breathe special gas mixtures whose production for such a cubature is economically impossible. Underwater implementations will remain pipe dreams until the solutions of accessibility from a human physiology perspective are found and the knowledge of this alien underwater environment is extended. Naivety and the lack of competence are the greatest enemies of progress. The lack of technical knowledge exhibited by visionaries is one of the weaknesses which could be included in the SWOT analysis.

³⁵ Natural disasters and greenhouse effect are threats could be included in the SWOT analysis [author's remark].

³⁶ Stone S., Post-Flood Architecture Building New Orleans 2.0 Source: http://www.spiegel.de/international/post-floodarchitecture-building-new-orleans-2-0-a-403122.html as of 29.06.2015.

³⁷ NAI Netherlands Architecture Institute; source: www.nai.nl as of 12.05.2015.

³⁸ Source: www.icehotel.com, as of 07.08.2015, www.chenahotsprings.com/icehotel.html, as of 07.08.2015, www.snowcastle.net, www. snowvillage.fi as of 15.07.2015.

sustainable planning (Januchta-Szostak A. 2009).

On 28 February 2014, at the UC Berkeley College of Environmental Design there was a conference City + Water International Perspectives. One of the most interesting facts of this exhibition is a direct reference to the issues of water and architecture described in a publication in the year 1994. The author of this inspirational work was Charles Moore. Twenty years after the publication of his book Water and Architecture new designers undertook the previously described subject matter. Sessions and meetings were supplemented by around twenty-eight designing presentations. The design subjects brought up the issues of ecology, symbolics, plastic arts and structure, technique, protection of water purity and protection of land surface. The solutions of the co-existence of water and contemporary architecture encompassed: restriction of a harmful impact of water, protection against floods and management of rivers with a view to food production. The issues were divided into thematic groups, such as oceans, rivers and architecture; water and city; water, infrastructure and architecture; water, landscape and architecture³⁹. The presented designs constitute the continuation of the directions of immaterial inspiration by water in the processes of shaping space presented in Charles Moore's work. Moreover, they also anticipate some practical solutions aiming to create new reality. Nonetheless, the presentations contain ideas that can be qualified rather as conceptual categories. Their authors did not pay much attention to the feasibility of their implementations.

Between 7 and 20 September 2015, in Pietrasanta in Italy, there were workshops held under the title: *The City and The Water*⁴⁰. The subject matter included a case study of a post-industrial area called *Due Laghi*. This area constitutes a context of a high environmental value and a great economical potential. The activities aimed to define the scope of changes on different scales, from an urban planning scale to architectural one. The issues of amphibious architecture, i.e. existing both in the water and land environments, depending on the water level, constituted the subject of a conference in Bangkok⁴¹, which took place when the author was finishing to write this monograph. The above-presented long list of conferences, exhibitions and competitions taking place in recent years shows that the subject of the relationship between water and architecture is current and is gaining momentum.

Specification of the role of water in architecture provided by contemporary authors

Investigations of the relations of water and the built environment are concerned with architectural and urban planning issues or the role of water in historic buildings or facilities. Examples of historic architecture equipped with a great number of decorations have an impressive emotional charge. The decorativeness of historic architecture makes it possible to read meanings and the creator's message. Contemporary architecture, which is deprived of ornaments and strives for rationalization rooted in functionalistic theories, is more difficult to relate to associations and inspirations. Forms and spatial structures in contemporary architecture are seemingly deprived of emotions and far from creating any associations. However, contemporary designers having great technical capabilities build emotions in a different way to their predecessors.

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³⁹ Source of information: http://ced.berkeley.edu/research/water-and-architecture/ as of 01.06.2015.

⁴⁰ Source of information: http://www.destec.unipi.it/thecityandthewater/ as of 03.06.2015.

⁴¹ http://www.icaade2015.com/.

The impact of water basins and reservoirs on the tissue of the city cannot be underestimated in urban planning. Elaborations concerning urban structures highlight the relationships of water and architecture. They also include carefully thought-out suggestions referring to the relations between water and architecture. Taking into consideration the abovementioned aspects, the author's pursuit for the role of water in contemporary architecture will be based on publications concerning urban planning, historic architecture and contemporary designing solutions.

Niemczyk E. (2002a) in the elaboration entitled Four Elements in Architecture - Cztery *żywioły w architekturze* deals mainly with historic architecture. What might be important for the purpose of this research on contemporary architecture is a determined 'application'42 of water in architecture. Water is described here as an artistic form, a symbol, an instrumental motif. The role of water as an artistic form refers to optical properties consisting in the reflection of light and 'filling the water with alien shapes'. Water as a **symbol** signifies transformation and is equated with rebirth but also purification. This role of water in architecture reflects religious beliefs which have been shaped in many civilizations. An instrumental role of water concerns its application in the cooling of interiors, its use for hygienic purposes and to quench thirst. All these meanings created their counterparts in architectural forms. The above-mentioned elaboration ascribes the following functions to water⁴³: utilitarian, compositional and aesthetic as well as symbolic. According to the above-mentioned author, the **utilitarian** function refers to transportation, air-conditioning, satisfying hygienic and physiological needs. The compositional and aesthetic function regards visual and acoustic effects, stimulation of reflections in the recipient and contemplation. The symbolic function includes cultural meanings, a metaphor of revival, purification and a contact with nature.

Boeminghaus S. (1980) in *Wasser im Stadtbild. Brunen, Objekte, Anlagen* writes about a special aspect of water as a **material** having a great influence on the shaping of the urban **environment**. Water in this facet represents natural elements in the artificial landscape of cities.

Wylson A. (1986) in Aquatecture: Architecture and the Water classifies the relations of water and architecture as a spatial context of cultural traditions, water attractions facilities, visual effects as well as water-life environment and an ecological factor. These meanings are shown both on an urban scale and architectural one. The cultural significance of water is emphasized, especially in the case of the civilizations of the Classical World, Islam and the Far East. The elaboration shows water as the environment of creating architecture in urban planning solutions beginning from the classical period, through European cities, to contemporary American cities. The context of both the river and the sea constitutes the area of implementations of the presented methods. Recreational centres, promenades, piers and water parks are closely connected with water in their architectural solutions. On an architectural scale, the water environment is characterized by spatial forms serving the purpose of water management and highlighting the artistic properties of water. The construction of water management machines or using water in water parks or other attractions lead to the creation of water spaces. Such places feature the accumulation of objects using water as a function determinant. These facilities include: open-air and indoor swimming pools, water parks, yacht marinas, etc.

Pancewicz A. (2002) in the publication *Rivers in Urban Space - Rzeki w przestrzeni miejskiej* describes relations of the riverside urban spaces in the following aspects: technical and

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⁴² Niemczyk E. (2002a), p. 63.

⁴³ Ibidem, p. 151.

environmental, spatial and functional as well as social and cultural. He categorizes the following issues as the **technical-environmental** relations: river treatment, environmental protection and harmonious landscaping, transport, power production, urban management and development as well as flood protection. The **spatial-functional** relations encompass: river regulation, scenery composition, regeneration of urban tissue and recreational areas, which are connected with the formation of the **social-cultural** relations satisfying the needs and aspirations of prestigious riverside cities.

Moore C. (1994) in *Water and Architecture* shows the role of water connected with meaning, mythic, symbolic and communicative roles, combining different types of emotions and sensations. This publication focuses on an immaterial and **symbolic** or **semantic** role of water in the formation of an image of an architectural work. The elaboration presents the appearance of this material and its *plastic art* which influence the observer's emotions.

Nyka L. (2013) in Architecture and Water – Crossing the Borderline Architektura i woda – przekraczanie granic presents water as a means of artistic expression. The role of water is defined as a means of conveying architectural ideas or a natural reference to the natural environment or landscape. He highlights water as an element creating the atmosphere of the interior as a result of material and artistic means as well as physical and technical parameters, giving as an example the thermal baths Therme Vals designed by Peter Zumthor. This publication pays attention to the location of architectural buildings and facilities in relation to water. It describes the principles 'on the water and on the shore', on the so-called waterfront, as well as the formation of new water basins or reservoirs.

Januchta-Szostak A. (2009a and 2009b) in Woda w krajobrazie miasta - Water in the Townscape shows water as an aquatic element in sustainable planning. The author enumerates different solutions of rain water retention as an element of spatial composition; she treats water as a plane or a solid. She mentions also oceanographic research. The basic role of water indicated in this publication is the impact of the river on the urban planning of the city by means of shaping the area on the riverside, in the so-called waterfront. She also emphasizes a symbolic dimension of water in architecture referring to the highlighting of space status in urban planning. Application of physical and technical properties of water is discussed in energy- and cost-efficient solutions. Similarly, the publication Water in the Urban Public Space. Model Forms of Rainwater and Surface Water Management. - Woda w miejskiej przestrzeni publicznej. Modelowe formy zagospodarowania wód opadowych i powierzchniowych Januchta-Szostak A. (2011) points out to ecological functions of water in the spatial development of the city.

Myga-Piątek U. (2003) in *Water in Environmental and Cultural Space - Woda w przestrzeni przyrodniczej i kulturowej* describes the role of water as *utilitarian* and **cultural** in the landscaping of gardens as an element of **recreation and scenery**. The publication also mentions a *compositional* role of water in urban planning.

Fratino U., Petrillo A., Petruccioli A., Stella M. (2002) in *Landscapes of Water. History, Innovation and Sustainable Design* present water first of all as a factor affecting *proecological* solutions in the field of architecture and urban planning.

Crafti S. (2005) in H_2O architecture defines water as a **symbol** of luxury, an element of a spatial **composition**, determining a **function** of an architectural object. Some solutions present recreational functions in the building, others constitute decorations and a specific design of the interior. The publication shows the solutions of swimming pools in residential architecture in single-family houses. They were applied as **recreation**, a spatial, compositional and stately element.

Burchard C., Flesche F. (2005) in *Water House* describe objects built in the water environment. In such objects, water is the element of the design which decides about the *aesthetics* of an object and constitutes its life **space**. The publication points out to the facilities built from **ice** and snow material as a type of aquatic architecture. A general division introduced in this literature is as follows: architecture standing in the water, floating on the water and underwater structures. The authors also mention the cultural role defining water as a carrier of myths and beliefs, also as a symbol and a religious medium. Dreiseitl H., Grau D. (2005) in *New Waterscapes* define the role of water in both external and internal scenery of a building. Moreover, they indicate the application of water in air-conditioning in office buildings as well as in services and commercial facilities. Ecological approach is represented in the scope of rainwater application. The management of water on an architectural and urban planning scale is defined as water culture. Artistic effects as well as water management solutions are emphasized in the presented implementations.

It can be noticed that the analysis of the subject matter connected with the occurrence of water in the human-built environment is to a great extent devoted to urban planning (Canogar S. 2002, Drevet C. 2002, Osty J. 2002) or the prevention of flooding and the regulation of river banks (Hannetel P. 2002, Persson A. 2002, Tilman H. 2002). Some technical and artistic aspects of the relation of water and architecture are described by Dreiseitl H., Grau D. (2005) in their publication *New Waterscapes*. The described implementations regard spatial planning and landscape but also residential, commercial and industrial buildings (the so-called 'cubature buildings') and the so-called small architecture. Various purposes and spatial solutions of swimming pools are presented by Plannells P. (2003) in the publication *The Pools*. Typology of pools and architectural effects resulting from certain technical solutions connected with water management in architecture are presented in the following publications: Kuc S. (2013) in *Infinity Pools* - Selected Examples – Baseny typu infinity - wybrane przykłady or Canizares A. (2006) in an illustrated publication *Infinity Pools*.

Brito J., **Szymaniak J.** (2009) in *Forgotten Oceanographic Exploration on the Green Cape Islands - Zapomniane badania oceanograficzne na Wyspach Zielonego Przylądka*⁴⁴ mention the exploration and research of underwater space of an oceanographic character in the second half of the 20th century conducted, among other explorers, by Jacques Cousteau. Objects implemented under water are more associated with underwater vehicles and mechanical devices rather than with architecture. However, it can be noticed that recent publications have started to see the possibilities of implementation of architectural facilities under water.

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⁴⁴ Januchta-Szostak A. (2009b) (Editor), Water in the Townscape - Woda w krajobrazie miasta..., p. 56.

Chapter 2. INVESTIGATIONS

Research area
Work methods and scope of research
Object research sheet
Results of case research on aquatic architecture
Discussion of results

2.1. Research area

Collective elaborations on the subject of water in architecture include the following publications: *Reflections on the Pool* (Baldon C., Melchior I. & Levick, M. 1997), *Water House* (Burchard C., Flesche F. 2005), *Bridges*. Perino A.S., Faraggiana G. (2004), *Wasser, Water* (Schäfer R. 2002), *Water, Wasser, Eau* (Fischer J. 2008), in which the authors write about a set of creative implementations connected with water. The authors provide the readers with illustrations, expert descriptions and commentaries.

Own research was conducted by the author of this monograph in the scope of relations between contemporary architecture and water as a material having three forms. This issue was mentioned by the most famous architects in their publications: **Zumthor P**. (2005) in *Atmospheres* or interviews for 'Architecture and Business' - 'Architektura i Biznes' (Stec B. 2003), Kuma K. (2008) in Anti-Obiekt, Koolhaas R. (2011) in Project Japan Metabolism Talks, Ando T. (1991) in New Horizons in Architecture, Le Corbusier (1925), being the precursor of contemporary architecture, in Le peintiure moderne. Architects, such as Hadid Z., Holl S., Izosaki A., also spoke on the subject of water and architecture within the framework of the publication The Snow Show (Fung L. 2005). The investigations presented hereby in this monograph do not refer to the relations of water on an urban planning scale or in a historical context, which has been previously described in detail by other authors.

On the grounds of the above-mentioned elaborations, the author of this monograph noticed that the subject matter of the role of water in architecture **requires systematization**. The impact of water on architectural designing in material and emotional spheres may constitute the basis for this research. Against this background, attempts may be made to define a group of issues connected with the architecture formed under the influence of water. It seems that **the potential** connected with new research areas **has not been discovered yet**. Furthermore, what requires definition is the obstacles in creation of aquatic architecture and preparation to overcoming them.

Terms referring to the relationship between water and architecture are diverse. Various authors perceive them as: meaning, role, impact. This monograph proposes to determine the role of water in architectural creation on the basis of its **function**. Table 2 presents different meanings of water in architecture used and defined by contemporary authors of publications, which were grouped as four functions. It is the function of water in architecture that has been adopted as a common denominator of the research on contemporary aquatic architecture. Its definition is the basis for the proposed method of qualification of objects for the set of aquatic architecture. It is also a tool to determine new areas of implementation and their conditions, which is the aim of the research conducted by the author. The performed analyses and own research introduce systematics into the set of objects of contemporary aquatic architecture on the basis of the determined functions of water in the functional and spatial structure. A different novel approach to the issue of water and architecture relationship contained in this monograph shows the most important specific conditions of the implementation of buildings and facilities under water in order to create a new area of the built environment.

Determination of functions of water in architecture

on the basis of descriptions of the role of water found in literature [author's own study]

Wyznaczenie funkcji wody w architekturze na podstawie określeń roli wody podawanych w literaturze [opracowanie autora]

Dala of water				Res	searc	hers -	- Auth	nors						Func	tions	
Role of water acc. to contemporary subject literature	Niemczyk E.	Boeminghaus S.	Wylson A	Pancewicz A.	Moore C.	Nyka L.	Januchta-Szostak A	Myga-Piątek U.	Crafti S.	Burchard C.	Dreiseitl H.		Architectural material	Determining purpose	Artistic Inspiration	Environment
Artistic form, plastic arts	1		1		1	1					1		1		1	
Symbol	1				1		1		1						1	
Instrumental	1												1			
Functional									1					1		
Utility	1							1						1		
Composition and aesthetics	1						1	1	1				1			
Aesthetic										1			1			
Material		1				1							1			
Ice and snow										1			1			
Environment		1	1			1										1
Cultural			1					1			1	١ ١			1	
Spatial form			1										1			
Technological and environmental				1								L /	1			
Spatial and functional				1								<i>V</i>		1		
Social and cultural				1											1	
Ecological								1			1		1			
Semantic					1										1	
Air-conditioning											1			1		
Ideological						1									1	
Internal and external scenery						1		1								1
Technical						1	1						1			
Floating											1					1
Location						1										1
Living space										1						1
On the water						1										1
Setting in the water											1					1
On the shore/bank and waterfront						1	1									1
Element of sustainable planning							1									1
Oceanographic							1									1
Recreational								1	1					1		

2.2. Work methods and scope of research

The following course of proceedings was adopted: data collection—analysis—classification—synthesis. The investigations in the scope of contemporary architecture and water were conducted approximately between the years 2002 and 2015. The following methods were applied:

- Analysis of the subject literature (initial studies); definition of significance of the undertaken topic based on the statistical interpretation of a set of objects presented in *The Phaidon Atlas of Contemporary World Architecture*, being a representative selection of contemporary architecture. The research encompassed 1052 objects of contemporary architecture. An expert 45 subjective method of an object assessment was applied. The question that was answered was: Did the object show any features of formation under the influence of the relationship between architecture and water? The participation (percentage) of aquatic objects in the set of contemporary architectural works was calculated in Chapter 1.
- Own investigations (Part 1) were conducted on 609 objects of contemporary architecture. The cases were selected on the basis of available literature and information placed on the Internet as well as *in situ* observations. The observations and information on the objects, which were described in literature and built in reality, were catalogued. A method of observation by means of prepared investigation sheets was applied in this phase of research.

The scope of investigations encompasses objects or designs which were made between 1985–2015. These were objects published in literature or built in reality for which author's or expert's descriptions were made available. It was assumed that a period of the past 35 years adequately represents contemporary architecture. In order to do the research on contemporary architecture in the context of issues connected with water, the following aspects were considered: cultural, semantic, technical, functional, environmental and other aspects related to the occurrence of water in the living environment of human beings.

Descriptions in the printed publications and on the Internet websites constituted the source of information on the objects. Only author's or expert's descriptions placed on individual websites were taken into consideration. A part of the group of objects comes from own observations.

During many years of research 752 objects of an aquatic character were catalogued. The classification was performed subjectively on the basis of recognized features, which were recorded on the observation sheets. The list of all objects excluded objects made before 1985 in compliance with the adopted scope of investigations on modern architecture, namely the past 30 years. During the studies, 66 older objects were recorded. The set excluded also a group of objects which did not have sufficient information to confirm the observed features. These were most often illustrations with no captions or the lack of confirmation of certain images in the second source (for instance on the Internet). The number of objects excluded from the research due to incompleteness of information amounted to 70. Also, 3 objects were excluded due to the fact that they had been implemented before the year 1985 and in addition their data were incomplete. In this way, after the

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⁴⁵ The role and aim of expert studies in such cases were presented by **Niezabitowska E.D.** (2014) in: *Research Methods and Techniques in Architecture - Metody i techniki badawcze w architekturze...*, pp. 161-163.

elimination of the sheets of objects without complete information and objects implemented before 1985, the number of the aquatic architectural objects subject to investigations amounted to 609 pieces.

No selection key of choosing the examples was imposed. The analysis encompassed objects showing aquatic qualities which were implemented after 1985 or published within 13 years of conducting this research. The investigations did not obviously include all objects that could satisfy the selected criteria. Due to the fact of limitless selection of elements, the created set represents all key features characteristic of contemporary aquatic architecture. This method of data selection makes it possible to assume that the research was conducted on a large scale and is representative for the aquatic objects published in the selected period. A big number of analyzed examples ensures that no significant features of the topic were omitted. Possible accidental cases of false categorization do not influence the results. Therefore, it is justified to provide some quantitative data concerning the frequency of occurrence of the investigated features (**Pabis S.** 1995).

2.3. Object research sheet

In order to conduct qualitative studies, an observation sheet was created for each case. It was called **an object research sheet** or **sheet** and served the purpose of the description of the analyzed features of an object within the framework of the conducted research on the role of water in architecture. The card shows a function water plays in a given object as well as the location of the object in relation to water.

740 [1]	data and description																							
Object [2]			(n	d env							,			water			Φ	bldg.			industry			
Location [3]		references	references	e and	6	_					ecology			the w		ē	challenge		<u>0</u>		dino	nted		ent
Author [4]		fere	efere	science	reat	atio							shore	over		wa	1	engineering	residential	io Lt	e and	implemented		
Illustration [5]				to so	sport-recreation	transportation	DCe	aby	<u>ria</u>	decoration	n. and	pue	e st	ted o	g	under the water	technical			public	office	imp	concept	experim
Creation date [6]		formal	cultural	ref.	spor	tran	science	therapy	material	deco	tech.	on land	on the	located	floating	nuge	tech	[28]	[29]	[30]	[31]	[32]	[33]	5 4
Purpose [7]		[12]	[13]	[14]	[3]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[22]	[26]	[27]							
Impact of water [8]																								
Relation to water [9]																								
Implement. phase [10]																								
Source [11]																								

Fig. 4. A template of an Object Research Sheet [author's own study] Wzór karty badań obiektu [opracowanie autora]

The Object Research Sheet is divided into two parts. On the left, it shows basic data of a design as well as it describes analyzed variables. This is an observation part of the sheet. On the right side, in columns from 12 to 35, the classified data from the left side are placed in the form of a table. Such juxtaposition facilitates counting the occurrence of features for the purpose of further analyses. The right-hand side is of an arithmetic character. All observation sheets are made in an Excel sheet, in which all calculations were made.

The **observation** part of the sheet includes:

1. Number⁴⁶ of an analyzed object.

It is author's own numerical order which organizes observations.

2. Name of an object or its purpose.

In the case when an object has already got a name given by its designer, user or public opinion, such a name has been provided. If there is no name, the purpose of the object has been defined as well as its location.

3. Location.

A place/town of the design or implementation of the object was provided. In the case of objects which do not have a specified location, this parameter was provided in a descriptive form (eg. the Pacific Ocean) or an empty box was left.

4. Author.

This field includes the name of the designer or designing office which designed a particular object.

5. Illustration.

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⁴⁶ There are references to Object Research Sheets also in the text of the monograph; the word 'Sheet' followed by a number appears in square brackets, eg.. [Sheet 123].

This field includes the Internet address (website) where the image of a particular object is placed on the *World Wide Web* or the publication of the image in publically known and accessible literature. The date of access was 15-03-2019, if it is not shown next to the website. A real or published image constitutes a research material. The illustrations used in the study come from generally accessible sources or from the author's own archives.

6. Date of construction or designing.

It states the year of the object construction or its designing date (if the object has not been built yet) or the field is empty if the object fits in the given period of implementation, but the exact date is not known.

7. Purpose.

This line includes the description of the object function. This parameter may be defined as: a service function, home/house, housing, bridge, dam, spatial installation. Sometimes, a more detailed description is provided, such as a swimming pool or a square decoration.

8. Water functions.

On the basis of the object characteristic found in literature or presented by the author, the qualities of water having a significant impact on the formation of the object or its purpose were described. The description was provided in a brief form. The statements formulated by the observer or author constituted the values adopted by this variable. The obtained answers contained the following repetitive terms: technological challenge, cultural, symbolic, metaphysical, inspiration, functional, function indicator, attraction, raw material, medium, material, visual and plastic arts, ornament, decoration, ecology, technology, cooling agent, surroundings, environment, location, site. The above-mentioned terms served as the basis for the provision of the arithmetic function of water in contemporary architecture in the provided fields.

9. Spatial relation with water.

This part includes the definition of a way of contact between the building and the natural water environment in the form of an open-air water reservoir: river, pond, lake, sea or the lack of such dependence. This variable adopted the following values: on land, on the shore, waterfront, on the beach, above the water, on the water, floating, underwater. Taking into consideration the location of an object in relation to water, five subsets of objects were created: on land, on the shore (including the so-called *waterfront*, shore, beach), objects set on stilts in the water, floating on the water, underwater or a natural obstacle.

10. Implementation phase.

This field states if a given object was actually constructed or remained in the planning phase (then it is indicated as a concept) or was implemented as an experiment.

11. Source.

This field provides information about the origins of the analysed knowledge of a given object. This may include references to literature or Internet websites in the case of quoting authors of particular creations placed on the Internet.

Arithmetic part of the sheet

In the arithmetic part of the observation sheet the observed features were marked by placing number '1' in appropriate columns whereas an empty field was left when a given feature had not been observed⁴⁷.

⁴⁷ Observation sheets were also made for several dozens objects of aquatic architecture which were not included in the calculations and further analysis due to the failure to meet certain requirements, characteristic of a given set under

Columns 12–14 contain fields connected with inspirational impact of water on the designing process or the perception of a building. These places included the indication of buildings where water provided inspiration or caused aquatic associations. The following references were noted: to formal as well as visual and artistic features of water, cultural aspects of the presence of water in civilization (beliefs, myths, symbols, etc.), scientific knowledge of water and its environment, expression in the form of spatial installations, building structure, etc., being the visualization of the impact of water on the natural environment.

Columns 15–18 note the function of water determining the object purpose. Architectural objects play the following functions: of sport and recreation – in the case of an object built for doing water sports or water recreation, transport and circulation – when water in an object serves the purpose of circulation of dwellers or transport of the building, science – when water in an object constitutes the subject of scientific studies, therapy – when water and its therapeutical properties are the reason for building a certain object.

Columns 19–21 include the function of water as a material or raw material in subsets defining water as: a building material when a building takes advantage of the physical properties of this material; as a decoration when artistic and visual effects made by water are used in a building; eco-technological when water constitutes a factor creating the climate of the environment and the microclimate of the interior. The object uses properties of water as a physical substance as well as its ability to convey energy. These solutions contribute to the creation of individual architectural forms.

Columns 22–27 present the relations between water and building objects. Several sets have been distinguished, where: water constitutes a natural obstacle to be overcome by properly designed constructions, or the building is located on the shore of a natural reservoir, or in the water in the form of an object set on stilts fixed in the bottom, or a floating object, or possibly an underwater construction. A separate group is made up by buildings located on land without any contact with the natural water environment.

Columns 28–31 include the following architectural functions: as a civil engineering construction, multi-family or single-family housing; a service function typical of public utility buildings; industrial and office buildings including objects connected with work and manufacturing.

Columns 32–34 denote the phase of implementation of an object. It includes objects which had been built, investments whose implementation ended in the concept phase and designing experiments. The number of the presented objects which stopped in the concept phase will be the subject of an analysis and comparisons with the number of implemented objects. This set includes also designing experiments in the set of contemporary aquatic architecture, the examples which were available in selected references.

2.4. Results of case research on aquatic architecture

Research sheets of contemporary aquatic architecture include the description of features of 752 cases. The investigations looked into the items presented in literature, on the Internet and in the author's own archives. 609 sheets are quoted below. 142 were excluded from observed items due to the following reasons:

- Objects which do not fit the time assumptions, made before 1985, amounting to 67 pcs. with the following numbers:

```
30, 64, 77, 87, 129, 175, 183, 187, 198, 199, 203, 207, 209, 210, 211, 212, 213, 214, 216, 238, 246, 247, 251, 252, 253, 259, 260, 264, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 347, 472, 533, 543, 564, 587, 596, 613, 616, 621, 625, 638, 665, 708, 709, 710, 711, 712, 713, 714, 715, 716,
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 Objects whose data were not complete or the set of data was not reliable or did not include important information for the purpose of the problem analysis, amounting to 72 pcs. with the following numbers:

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195, 219, 229, 343, 373, 380, 408, 436, 457, 464, 465, 469, 470, 481, 486, 489, 490, 501, 509, 520, 527, 530, 545, 546, 547, 549, 551, 552, 554, 555, 595, 599, 601, 602, 603, 605, 606, 607, 610, 612, 629, 631, 644, 645, 646, 649, 656, 662, 664, 665,666, 667, 668, 669, 670, 671, 672, 673, 675, 677, 679, 680, 681, 683, 684, 685, 687, 689, 691, 692, 695, 701,
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Objects which do not fit either criteria. The data were incomplete and the construction time was beyond the analysed period, amounting to 3pcs. with the following numbers:
 620, 623, 723.

Sheets representative of the research method were selected from the whole set of research sheets and placed in Annex 1, at the end of this monograph. The list of all investigated objects can be found in Annex 2.

These investigations aimed at the general review of the subject of occurrence of water in contemporary architecture. On the basis of previous studies, the functions of water in contemporary architectural objects were defined. The research was conducted by searching for the features which indicated certain functions played by water. The analysis was performed on the grounds of drawings, models and photographs of the buildings.

In addition, the purpose of the object as well as the phase of its implementation were determined. These data will be used in the SWOT analysis conducted for aquatic architecture in the final part of the research. In the current chase, attention should be paid to considerable percentage, namely 13%, of objects which are published in the concept or experimental phase.

The investigations are based on a subjective (expert) opinion. Possible erroneous individual assessments do not affect the results due to a considerable number of cases (Pabis S. 1985). This kind of method makes it possible to draw general conclusions using arithmetical calculations and diagrams.

Table of the results of research on the occurrence of water functions in 609 cases of contemporary aquatic architecture [author's own study]

Tabela wyników badania występowania funkcji wody w 609 przypadkach współczesnej architektury akwatycznej [opracowanie autora]

						5	SUN	ИM	AR	Υ													
	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
TOTAL	Ω.	0	0	223	4	0		127	180	102	356	109	4	8	0	8	0	195	358	2	569	2	7
TOTAL SUM of categories	55	9	20	7	8	8	37				ਲੇਂ	=	5	230	30	73	40	÷	ñ	42	ฉั	42	ю Ю
		94		_	3	14			409	<u> </u>				319									
NUMBER of objects		80			26	67			326	5				272				60)9			609	1
double		14			4	5			75					31									
triple						1			4					8									
WATER FUNCTIONS	ins	pira	tion		eterr purp			m	ater	ial		(envi	roni	mer	nt							

Table 3 encompasses the results divided into categories correlating with water functions, such as: inspiration, determining purpose, material and environment. Individual categories include the determined numbers taking into consideration simultaneous occurrence of several functions.

In addition to that, the occurrence of architectural functions was shown in 609 objects of aquatic architecture and the information about the phase of their implementation was included.

Table 4

Table of the results of research on the number of buildings implemented in water space in 609 cases of contemporary aquatic architecture [author's own study]

Tabela wyników badania liczebności budynków realizowanych w przestrzeni wodnej w 609 przypadkach współczesnej architektury akwatycznej [opracowanie autora]

SUM (OF categories	137	
NUME	BER of objects	124	
	double	13	
	triple	0	
	in water spa	ce	

The determination of the percentage of buildings which were implemented in water space in the whole set of aquatic architecture constitutes an essential result of the investigations. The results show that approximately 20% of the buildings of aquatic architecture have been implemented in the space over water, in the water or under water. These are the signs of the occurrence of water functions in the form of environment.

2.5. Discussion of results

Analyses of the state of research and research areas showed that a set of aquatic architecture is made up by the objects where water plays certain functions. This chapter investigated such functions in 609 studied examples. In order to conduct the systematics of water functions in architecture, the following sets were created:

- function of water as **environment**; relations of building objects with the natural water environment characterized first of all by their location. The location of the facilities may result from conceptual premises, but also from the necessity to overcome a water obstacle;
- functions determining the purpose of an object; they can be seen in the facilities whose operation is defined by their utilitarian function. They include sports and recreation facilities as well as transport, scientific and therapeutic facilities; beginning from simple swimming pools to resorts and oceanaria;
- functions of architectural material; due to the development of possibilities of water applications, the knowledge of its technical parameters and the skills to use water in ecological spatial solutions, water adopts a function of a building material, decoration or energy carrier;
- functions of artistic inspiration; they are based on intellectual, scientific and emotional
 associations as well as the knowledge of water and environment. What is of significance here
 is the inspirations and associations born at different levels of perception.

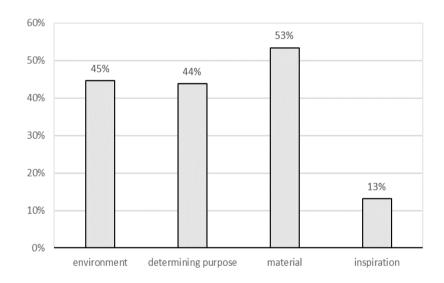


Fig. 5. Percentage of objects in which the suitable functions of water have been found among the group of 609 analyzed objects of modern aquatic architecture [own study]

Ryc. 5. Udział obiektów, w których określono odpowiednie funkcje wody w zbiorze badanych 609 obiektów współczesnej architektury akwatycznej [opracowanie autora]

Functions of water were determined in the studied objects whose character was perceived as aquatic. The analyses adopted a form of quantitative investigations. However, in the case of creation of subsets of the objects, the aspect of occurrence frequency of a given phenomenon was not as important as the fact of its existence. In order to create a subset, it is sufficient that one object represents a particular feature. Often, several functions of water were found in one architectural object, as for instance in an ecological mountain shelter⁴⁸ (**Oettl F.** 2006) [Nr 435].

Taking into consideration the observations of 609 objects, a quantitative statement was

⁴⁸ Apart from a decorative role, water in this object also plays technological functions, being a medium responsible for shaping the micro-climate of the interior.

prepared defining the scale of the occurrence of this phenomenon in the objects included in these studies. In the highest number of the facilities, namely, in as many as 327 objects (54%) – water plays the function of architectural material. Then the function determining the purpose of an object occurs in 267 cases (44%) and the environmental function takes place in 273 cases (around 45% each). The function of artistic inspiration is played by water in 80 objects (13%) among 609 selected objects of contemporary aquatic architecture.

Environment

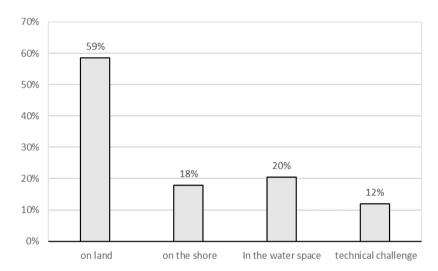


Fig. 6. Percentage of aquatic objects situated on land, and in the natural water environment, among the group of 609 analyzed objects of contemporary aquatic architecture [own study].

Ryc. 6. Udział obiektów akwatycznych usytuowanych na lądzie i w naturalnym środowisku wodnym w zbiorze badanych 609 obiektów współczesnej architektury akwatycznej [opracowanie autora]

Depending on the location of the building in relation to a natural water reservoir the following architectural objects can be distinguished: objects overcoming a water obstacle (12%), implementations on the borderline of land – the so-called waterfront (on the shore – 18%) or objects located in the space of water (20%). The last group includes objects set in the water on the foundations located in the bed of a water reservoir and floating objects, i.e. facilities located on the foundation floating on the surface of water as a result of hydrostatic lift, as well as underwater objects, i.e. implementations located entirely or to a great extent under the surface of water. The conditions of implementing architectural objects under water will be discussed in subsequent parts. Some facilities are located in more than one way in relation to the water environment (i.e. they are located in the water space and on the waterfront). The comparison of data in the form of a chart shows that the majority of aquatic objects in the investigated group is located on the waterfront.

It should be emphasized that in the group of the investigated objects of aquatic features as much as 59% is located on land without any contact with a water reservoir or a close relationship with the water environment.

A significant set of objects whose implementation depends on the environment includes objects existing in the water. There are several groups in this category due to the place they take in the water space. They are as follows:

- objects located over the surface of water standing on the construction grounded in the water bed,
- floating objects, i.e. based on the foundation floating on the water as a result of Archimedes buoyancy force,
- underwater objects which are located entirely or partially under the surface of water.

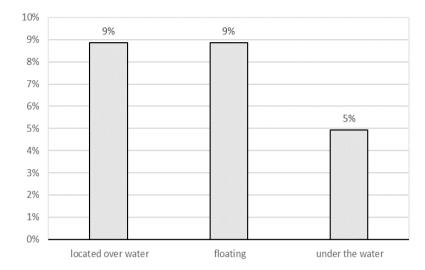


Fig. 7. Percentage of various locations in the water space, among the analyzed 609 objects of contemporary aquatic architecture [own study].

Ryc. 7. Udział różnych miejsc usytuowania w przestrzeni wodnej w zbiorze badanych 609 obiektów współczesnej architektury akwatycznej [opracowanie autora]

The above-presented chart shows a clear share of floating buildings (9%) and buildings built over the surface of water with foundations based on the bed (9%) in the set of aquatic architecture. There is one more group of facilities in the set of the investigated objects. These are objects located in the water space under the surface of water. Their number amounts to 30, which makes up 5% of all studied facilities. This is the smallest sub-set of the presented objects of aquatic architecture and yet it is a proof of a new tendency in architectural creation.

Determining purpose

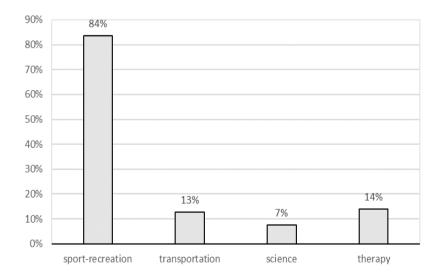


Fig. 8. Percentage of the respective purposes in the group of objects in which water is their determinant feature (267), among 609 analyzed objects of aquatic architecture. [own study].

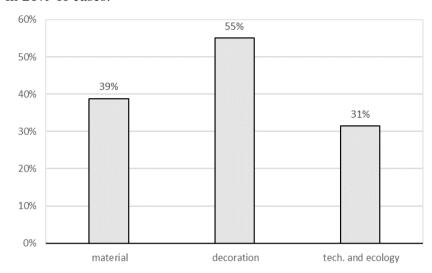
Ryc. 8. Udział poszczególnych rodzajów przeznaczenia w zbiorze obiektów, w których woda jest ich determinantą (267 szt.), wśród badanych 609 obiektów architektury akwatycznej [opracowanie autora]

The biggest number of objects where water is the determinant of the way of use had a sports and recreation function (84%). The way of functioning of these facilities was determined by the designed functions of sport and recreation.

In the set of the analyzed 609 cases, the majority, i.e. 175 out of 267 objects where water is the function determinant, is implemented on land. Water being originally an element of the natural environment received a setting in contemporary architecture; the setting exhibiting its beauty, significance and properties. Attractiveness of water became the cause of the construction of important architectural objects. This trend is confirmed by a quantitative statement.

Material of architecture

Water as a material can be applied in the form of: ice, water in a liquid state and in a gaseous state. Water as a material in architecture (building material) occurs in 127 out of 609 analyzed cases, i.e. in 21% of cases.



9. Percentage Fig. of respective applications of water in the set of water as a material in architecture; (327) among 609 analyzed objects of aquatic architecture [own study] Ryc. 9. Udział poszczególnych

zastosowań wody w zbiorze wody tworzywa jako architektury (327 szt.). wśród badanych 609 obiektów architektury akwatycznej [opracowanie autora]

A number of the set of all objects where water was used as a material amounts to 327. The buildings which featured such a function most often used water as a decoration (55%), less frequently as a factor shaping the environment by means of technical solutions (31%). This shows that the issue of water application in architecture is treated rather superficially⁴⁹.

Inspiration

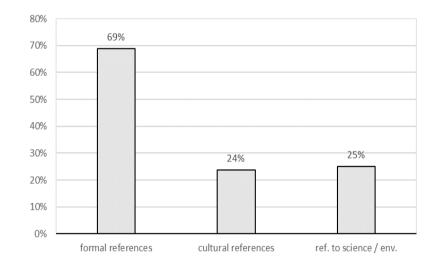


Fig. 10. Percentage of the respective references in the objects with inspiring function of water in development of architecture, among 609 analyzed objects of aquatic architecture [own study]

Ryc. 10. Udział rodzajów odniesień w obiektach, których określono inspirująca funkcję wody (80 szt.) w kształtowaniu architek-tury badanych w zbiorze 609 obiektów architektury akwatycznej

[opracowanie autora]

The set of objects with an inspiring role of water in the scope of intangible influence encompasses 80 objects, including 14 objects with a double reference. The frequency of occurrence of individual references in studied objects is presented in Fig.10.

⁴⁹ The lack of duly knowledge of typical and widely used technical solutions by designers and users is one of the weaknesses which can be taken into consideration in the SWOT analysis.

Water as a material factor commonly encountered in the natural environment and used on a daily basis may also be a carrier of different information, something immaterial. This invaluable substance constitutes the basis of life on Earth and covers most of the planet surface. Humans are fully aware of its uniqueness and value. Apart from its functional significance to the development of civilization and its products (such as craft and industry), water has always been an inspiration for making myths, legends and symbols. The interpretation of the element of water occurring in the form of seas, rivers and oceans adopted a form of religious beliefs, symbols or lay myths. An emotional bond between a human being and the live-sustaining medium existing since the dawn of time has been an impulse to create associations and references to water in art and artistic activity.

2.6. Explanation of the notion of aquatic architecture

The literature on the subject matter uses various vocabulary to distinguish and determine phenomena connected with building in special conditions related with water. Architecture connected with water was attributed several new adjectives, such as **aquatic** – understood as original aesthetic values closely connected with water as well as **nautical** – referring to ship images (**Niemczyk E.** 2002b, **Nofski P.** 2001, **Nofski P.** 1996). It is necessary to clarify here that 'nautical' refers to the architecture of buildings, whereas 'naval' to shipbuilding, engineering and design of marine vessels and structures⁵⁰, which is an entirely different set of technical knowledge. Some publications attempt to coin new words to define buildings having a contact with water. However, their precise meanings have not been established yet.

Terms like **aquatecture** do not have precise meaning. For instance, in one case this term refers to objects being within the reach of the tide resulting from the global increase of the sea levels (**Williams E.** 2009). In another case, it refers to all types of buildings where water is a basic functional or aesthetic element determining the shaping of the object (**Wylson A.** 1986). In spite of the intriguing sound of this word, different types of words are proposed to name the set of architectural objects connected with water.

Amphibious architecture⁵¹ is a new term defining a group of objects whose technical solutions allow staying both on land and water. Such cases might be found in floodland or sites of high fluctuations of waters, like in the case of tides. The expression 'amphibious' on the scale of urban planning leads to the name of an **amphibious city**, which has already been used to describe the urban ecosystem of Bangkok. This city being located in the river delta is affected by the river not only in terms of landscape and space formation but also in the scope of economy. A changeable water level influences mainly the way of functioning of the suburbs. This city with changeable flooding areas was called an amphibious city (**Castle H.** 2005a).

The shaping of architectural objects by interaction with water, such as an inspiration, technical challenge, attraction, material, decoration, ecological factor or location in the natural water environment, is proposed to be called:

- aquatic architecture in analogy to the terminology adopted by other authors⁵²,
- **aqua-architecture** by combining the words *aqua* and architecture,
- aquatectonic architecture, object, or building, i.e. shaped by the imitation of the forms of water, such as structure, patterns, optical effects.

Aqua-architecture, an aquatectonic building or aquatic architecture – these terms may be used to define architectural objects as opposed to *naval architecture* ⁵³ dealing with designing and engineering of marine vessels.

The terminology adopted here describes phenomena which will be discussed in the further

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⁵⁰ Naval architecture or naval egineering (**Biran** 2003).

⁵¹ http://www.icaade2015.com/as of 18.06.2015, the website of the conference on *amphibious architecture* planned for the summer 2015.

⁵² **Niemczyk E**. (2002b) w: Aquatic Motifs in Architecture - Motywy akwatyczne w architekturze, **Niemczyk E**. (2002a) in: Four Elements in Architecture - Cztery żywioły w architekturze, **Januchta-Szostak A**. (2011) in: Water in Urban Space - Woda w przestrzeni miejskiej, **Janowski M**. (2009), Aquatic Elements in the Architecture of Single Family Houses - Akwatyczne elementy architektury domów jednorodzinnych, in: **Januchta-Szostak A**. (2009b).

⁵³ An example of the organization for the specialists in this field is the RINA (Royal Institute of Naval Architects). http://www.rina.org.uk/, as of 30.03.2015.

parts of work. A complete study of the above-mentioned terms could be an interesting task for linguists but it is not the topic of deliberations presented in this research. It is therefore recommended that the following definition should be adopted:

Aquatic architecture is a field in which the features of an object (a work of architecture) are determined by its functional, technical, aesthetic and symbolic relations with water as material or environment.

Aquatic architecture is represented by a group of building objects in which water performs the following functions: environment, material, inspiration or a determinant of the object's purpose. The function of water as a substance or a technical medium which is solely instrumental ⁵⁴ or related to services ⁵⁵ is not an impulse for the creation of aquatic architecture.

⁵⁴ Being the subject of the physical studies of a building.

⁵⁵ Hygienic, sanitary, fire-fighting.

SUMMARY

On the basis of the presented results of the investigations, a significant role of aquatic architecture as a contemporary trend in shaping space was documented. Water is traditionally a symbol of values which undergo evolution, but continuously shape architectural space.

Scientific results of the research presented in this monograph constitute the following cognitive goal which was achieved by the author:

 systematics of issues of the architecture being in close relations with water on the basis of investigations of the functions of water in an object,

The presented work is a result of many years of research on the relations between water and architecture which has been conducted by the author. The collected set of 609 contemporary aquatic objects constitutes the basis of the conducted analyses. The functions of water in contemporary architectural objects were adopted as the subject of these investigations. On the grounds of the analyses, various functions played by water in architecture were distinguished.

This work defined a field of artistic creativity called aquatic architecture. The following definition was adopted: Aquatic architecture is a field in which the features of an object (an architectural work) are determined by its functional, technical, aesthetic and symbolic relations with water treated as a material or environment.

The analysis of a large number of objects (609 objects) was conducted, which served the purpose of discovering as big number as possible of the phenomena connected with aquatic architecture. The conducted investigations enable the formulation of the following final conclusions:

- **1.** Water is a factor shaping the built environment.
- **2.** Water is an inspiration in the process of creation of architecture.
- **3.** Water can be used as a building material.
- **4.** The function of a building can be determined by water.

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ABSTRACT

CONTEMPORARY AQUATIC ARCHITECTURE

PART 1. STUDY AND INVESTIGATIONS

Definition: Aquatic architecture is a field in which the properties of a structure (an architectural work) are determined by its functional, technical, aesthetic and symbolic relationships with water as a material or environment.

The area of research constitutes a collection of issues associated with the relationships between water and contemporary architecture. Initial research has indicated that architectural structures of aquatic properties constitute about 12-13% of the world implementations. That value illustrates how significant that subject is. This monograph describes the results of the research conducted on 609 aquatic architectural structures. The research analyzed the examples of world architecture, together with own designs, as well as the diploma designs prepared under the supervision of the author. The analyzed examples of world architecture structures were developed in the years 1985-2015. The sources of information on the structures were the descriptions in printed publications and original online publications. Some of the analyzed structures were studied by the author himself. The analyses excluded the structures of naval architecture as examples of different fields of science and technology, and the issues of construction physics and water supply for sanitary, life-sustaining and fire-fighting purposes.

The characteristic property (determinant) specifying the role of water in architecture has been assumed to be the function of water.

STRESZCZENIE

WSPÓŁCZESNA ARCHITEKTURA AKWATYCZNA

CZĘŚĆ 1. STUDIA I POSZUKIWANIA

Definicja: Architektura akwatyczna to dziedzina, w której o cechach obiektu (dzieła architektonicznego) decydują jego funkcjonalne, techniczne, estetyczne i symboliczne związki z wodą jako tworzywem lub środowiskiem.

Obszar badań stanowi zbiór zagadnień związany z wzajemnymi relacjami wody i architektury współczesnej. Badania wstępne wykazały, że obiekty architektoniczne o cechach akwatycznych stanowią 12-13% realizacji światowych. Wartość ta świadczy o istotności zagadnienia. Praca jest opisem wyników badań przeprowadzonych na 609 obiektach architektury akwatycznej. W badaniach analizowano przykłady architektury światowej, które ujęto w zestawieniu z projektami własnymi i projektami dyplomowymi wykonanymi pod kierunkiem autora. Analizowane przykłady światowych obiektów architektonicznych pochodziły z lat 1985-2019. Źródłem informacji o obiektach były opisy umieszczane w publikacjach drukowanych i autorskich informacjach internetowych. Część zbioru analizowanych obiektów pochodzi z obserwacji własnych. Z analiz zostały wyłączone obiekty architektury okrętowej (Naval Architecture), jako stanowiące przedmiot innej dziedziny nauki i techniki oraz zagadnienia fizyki budowli, a także zaopatrzenia w wodę w celach sanitarnych, bytowych i pożarowych.

Za cechę charakterystyczną określającą rolę wody w architekturze przyjęto funkcję wody.

ANNEXES

ANNEX 1 Examples of research sheets of the set of aquatic architecture

Presentation of the examples of research sheets aims to demonstrate the work methods used in the determination of features of aquatic architecture. The selected examples were provided with a current link to the Internet resources, showing thus the objects in a distinct way. In addition, the reader may conduct their own case analysis on the basis of the provided sources of literature.

ANNEX2
List of all investigated cases of contemporary aquatic architecture

ANNEX 1

object	Data and Description FLOATING HOUSES	+		Į.													•	, 0			try			
location	Hamburg, Germany	SS	Ses	e	_						g			ater		L	auge	plq			snp	-		
author	ARCHITEKTEN FÖRSTER TRABITZSCH	- Suc	lenc	e e	ţio	E					Solo		a	r w		/ate	alle	ing	al	iity	d in	ute		ent
illustration	https://www.urban-scope.de/located.php#floatinghomes 14.03.2019	fere	efe	iei	rea	tatic				on	d e		hor	ove		ě	al ch	lee	enti	c ut	e an	eme	ept	Ē.
creation date	2004-2006	ormal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	tpy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
purpose	residential house	Jr. m	ltn m	ef. t	pod	ans	cier	therapy	mat	Jec	ech	on k	n F	oca	loat	pur	ech:	Ψ	1	0	0	.=	0	Ψ
w. influence	environment	<u>~</u>	0	-	S	=	S	Ŧ				Ť			_	_	_		Ė					_
relation to w.	floating on the water, city yacht port														1									
impl. phase	implemented														Ė							1		
source	Fischer J., "Wasser Eau Water", publication series Architecture Compa Data and Description	ct, h	n.f. l	Jilma	ann,	200	8, p	.105	5.; ht	tp://	www	ı.flo	ating	ghor	nes.	de/l	o-ty _l	ре-е	n.pl	1p, 2	7.01	.20	15.	
object	SIX WATER HOUSES																				,			
location	IJ-Burg/ Amsterdam, Netherlands		S	≥							_			ЭĒ			ge	dg.			nstr			
author	ART ZAAIJER	ces	nce	- e	٦						log			wate		ter	llen	d b		≥	indı	ed		=
illustration	http://www.ecoboot.nl/ecoboot_new/wp-content/uploads/2006/10/waterwoningzaaiierbezoekctr.jpg	formal references	cultural references	ref. to science / env	sport-recreation	transportation			_	tion	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
creation date	2000-2001	اعا	ıral	S Q	t-re	ods	JG G	ару	eria	ora	В	and	he	ated	ting	er t	nic	engi	esic	lqnc	offic	mp	Sono	dxe
purpose	residential houses	orm	IĦ,	ef.	ğ	rans	science	therapy	material	decoration	tech	on land	on	loca	floating	pun	tech	۳	1	_		_	Ť	Ť
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relation to w.	floating on the water														1									
impl. phase	implemented														·							1		_
	http://www.zaaijer.nl/, 1.04.2009.; http://www.h2olland.nl/projectdetails	acn'	2id-	-223	1	04.2	nna																	_
source		.asp	!lu-	-223 T	, 1.	04.2	009	,										l		ı -				
	WATER DWELLING	+		١.														_			try			
object	Middelburg, Netherlands	ပ္	es	- Au							<u>S</u>			ter			uge	gpld			dust	_		
location	ARCHITECTUURSTUDIO HERMAN HERTZBERGER	formal references	cultural references	ref. to science / env.	io	_					tech. and ecology			located over water		under the water	technical challenge	engineering bldg.	 	Ξ	office and industry	implemented		Ħ
author		fere	efer	euc	sport-recreation	transportation				LC.	d ec		on the shore	over		ě	l ch	eer	residential	public utility	an	mer	ğ	experiment
illustration	https://www.ahh.nl/images/projecten/woningbouw/WaWo/2.jpg	<u>e</u>	alre	SCi	rec	ort	8	у	rial	decoration	and	nd	e st	ed c	g	Ē	ica	gin	side	oilgr	fice	ple	concept	per
creation date	1998-2002	-ma	Hur	15.	ļģ	ansp	science	therapy	material	eco	Sch.	on land	무	cat	floating	nde	schr	ē		ਕ	of	.⊑	8	ô
purpose	residential house	ţ٥	ಠ	<u>e</u>	ß	ţ	S	‡	≥	Ø	뽀	0	0	2	#	<u></u>	te		1					_
w. influence	environment																							
relation to w.	floating on the water			-											1									
impl. phase	implemented																					1		_
source	Jodidio P., "NL, Architectuur in Nederland", Taschen. Koln 2006r., p.52. Middelburgu", Czasopismo Techniczne 2007, Wydawnictwo Politechni http://www.h2olland.nl/projectdetails.asp?id=225, 1.06.2009.; Data and Description													nole	ndei	ski	eks	pery	mer	nt "V	Vate	r villa	a" w	
object	FUTURE HOUSE	1		١.													m	- Ö			stry			
location	London, UK	es	cultural references	e]	_ ا	transportation					g			located over water		Ē	chnical challenge	engineering bldg.			office and industry	٦		
author	MARCIN PAŃPUCH	enc	ren	ee	tion	ڃ					tech. and ecology		ø	r w		under the water	alle	ring	a	public utility	ıd ir	implemented		ent
illustration	http://www.marcinpanpuch.com/FHL.htm	-fer	refe	iei	crea	tatic				ion	o pu		on the shore	ove		e s	al ct	nee	residential	ic ut	e ar	ame	concept	experiment
creation date	2004 design	ale	<u>la</u>	0 80	-re	por	Se J	tpy	material	decoration	an an	and	hes	ted	floating	ar th	nic	ngii	esid	ilqn	ffice	nple	ouc	xpe
purpose	residential house	- E	l tr	ef. t	pod	ans	Se.	nera	mat	Jec	ech	nc	on t	oca	loa	pur	ech	Ψ	1	0	0	-=	0	Ψ
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relation to w.	floating on the water			+											1									_
impl. phase	concept design														'								1	1
source	Pańpuch M., "Karawaning na Tamizie", Architektura & Biznes 2004, z. a	rchite	ktu	ra w	ody	nr	10∙ r	L 60	-61											<u> </u>				
		101110		1	l	,). OO																
object	FLOATING HOUSE	1		١.													•	6			try			
location	Georgia Bay, Lake Huron, Ontario, Canada	Se	Ses	env.	l_						gy			water		L	su ge	PG			snpi	ا ہ		
author	MICHAEL MEREDITH, HILARY SAMPLE	- Due	renc	e e	tion	Ę					ecology		e l	ır w		/ate	alle	ring	al	iit	id in	ute		ent
illustration	http://www.archdaily.com/10842/floating-house-mos/ , : 1.03.2009r.	references	efe	ien	rea	tatic				ion	ਰ		je	ove		e v	al ch	eel	lenti	c ut	e an	eme	ept	Ë
creation date	2004-2007	alre	cultural references	ref. to science /	sport-recreation	transportation)Ce	зbу	material	decoration	tech. and	on land	on the shore	located over	floating	under the water	technical challenge	engineering bldg	residential	public utility	office and industry	implemented	concept	experiment
purpose	residential house	formal	ultu	ef. t	ğ	rans	science	therapy	mat	dec	tech	on !	on t	loca	float	nud	tech	Ψ	1	ι _α	0	·=	O	Ψ
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	floating on the water		F	H		-									4					\vdash				
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impl. phase	Bozikovic A., "Floating House, Lake Huron", dwell - At Home in the Mor Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm												_									s. 1.	;	

object	HOUSEBOAT		,,								,			Ļ.			e e	ģ			office and industry			
location	Dubai, United Arab Emirates	Ses	ces	/eu	ءِ ا						logy			vate		ē	leng	gp		_	npu	8		_
author	X-ARCHITECTS LEEN VANDAELE	ren	erer	nce	atio	.G				_	есо		ore	er v		wat	hal	erin	ıtial	懂	pu	ent	Ţ	neu
illustration	http://www.archdaily.com/13699/houseboat-x-architects/	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	0	_	al	decoration	tech. and ecology	ъ	on the shore	located over water	g	under the water	technical challenge	engineering bldg.	residential	public utility	ce a	implemented	concept	experiment
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purpose	residential house	forr	cult	ref.	Spc	tra	SCie	the	me	g	tec	o	on	8	flo	Ē	te		1					
w. influence	environment																	Г						
relation to w.	floating on the water														1			Г						
impl. phase	implemented																	Г				1		
source	https://www.x-architects.com																							_
	7 Data and Description																							
object	SILODAM			<u>.</u>										L			e	ģ			office and industry			
location	Westerdoksdijk, Amsterdam, Netherlands	Ses	ces	/en	ے						ogy			/ate		Ē	eng	ğ		L	ngn	g		
author	MVRDV - Winy Maas, Jacob van Rijs, Nathalie de Vries,	formal references	cultural references	ref. to science / env	sport-recreation	6					ecology		re	located over water		under the water	technical challenge	engineering bldg.	īā	public utility	la j	implemented	ا ا	experiment
illustration	https://media.archinform.net/m/70040522.jpg	efer	refe	cier	Cre.	transportation			=	tion	nd e	_	on the shore	ŏ		he	a	nee	residential	. <u>.</u>	e e	eŭ	concept	Frin
creation date	1995-2002	alr	ıral	tos	1-e	ods	science	apy	material	decoration	tech. and	on land	the	ated	floating	ler t	Juic	engi	esi	qnc	offic	ldm	l Si	QX:
purpose	block of flats with shops and offices	- mo	l#	ef.	١ġ	ran	scie	therapy	mai	dec	tecl	on	on 1	000	floa	oun	tecl	ř	1	1	_	Ē	Ť	Ť
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source	Fischer J., "Wasser] Eau Water", series Architecture Compact, h.f. Ulli Phaidon Press Inc, New York 2004. p. 329.; Burchard C., Flesche F. (2 http://architypes.net/squaree/silodam, 1.04.2009.; http://www.h2olland 06.02.2015.	005)	Wa	ter F	lous	se. P	rest	el Ve	erla	g, M	unic	h, B	erlir	ı, Lo	ndo	n, N	lew	Yor	k. p	p. 24	4-25;	;		
	8 Data and Description																							
object	THE SPHINXES		١	<u>></u>										L			e	ģ			office and industry			
location	Gooimeerpromenade, Huizen/ Amsterdam, Netherlands	es	ces	/en	_						ogy			located over water		ī	technical challenge	engineering bldg.		L	ngu	g		
author	NEUTELINGS RIEDIJK ARCHITECTS	enc	ren	Ce	ğ.	8					cole		re	N N		vate	hall	ij	<u>.</u>	H	li b	ante	ا ا	tuo.
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purpose	block of flats	ormal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	mat	decoration	tech	on	on 1	100	floa	pun	tect	٣	1	Ħ	Ť		M	Ť
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relation to w.	standing in the water on the bottom													1				\vdash		\vdash	H		H	1
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source	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ull 2006., p. 94.; "Neutelings Riedijk Architecten- Lake Side Housing "The												rchi	tecti	ur i	n N	ede	rland	d" , ¯	Tasc	chen		ln	
	9 Data and Description																			П				Г
object	BASTION ISLAND HOUSING																							
location	Leeuwarden, Friesland, Netherlands	1		-													a	ō			stry			
author	ATELIER ZEINSTRA VAN DER POL; DOK ARCHITECTEN	es	ces	e	_						ogy			ate		-	aug	pg		١.	snpc	٦		
<u> </u>	https://dokarchitecten.nl/img/slides/171025_dok-	references	l references	science / env	sport-recreation	6					and ecology		е.	located over water		the water	technical challenge	engineering bldg.	<u>.</u>	public utility	office and industry	aute		put
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creation date	1997-2000		ıral	S Q	ļ.	ods	JCe	ару	eria	oral	ı. aı	and	on the shore	ated	ting	er t	nic	engi	residential	lg.	offic	mpl	l Si	expe
purpose	single family recreation houses	formal	cultural	ref. to	١ğ	transportation	science	therapy	material	decoration	tech.	on land	on 1	100	floating	nnder	tect	٣	1	Ħ	Ť		M	Ť
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relation to w.	standing in the water on the bottom			f	H									1				H		\vdash	\vdash			H
impl. phase	implemented				H	\vdash												H		H	\vdash	1		H
source	The Phaidon Atlas of Contemporary World Architecture, Phaidon Press	Inc. N	New	/ Yor	k 20	004	p.32	<u>. </u>													1			_
	Data and Description	,,,,		T	<u>`</u>	T														Г				
object	OSIEDLE WATERWIJK																							
location	Ypenburg, Hague, Netherlands																m	g,			stry			
author	MVRDV	es	Ses	env	٦						gy			water		_	ange	bldg			dus	ъ		
aaii 101	http://api.mvrdv.boerdamdns.nl/media/uploads/project/152/ypen04.jpg?	ence	renc	Se /	ţi li	ĸ					ecology		е	ir W		under the water	technical challenge	engineering	<u>a</u> .	iity	office and industry	implemented		tuc
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illustration		<u>۳</u>	<u>a</u>	to sc	sport-recreation	transportation	science	therapy	material	decoration	tech. and	on land	on the shore	located over	floating	er t	nic	iĝ	residential	public utility	ffice	np(concept	V D
illustration	11998-2005	CD.			ι⊏	S	ΙÞ	era	at	1 o	ch	끄	n t	Ca	oat	ğ	S.	e	=	ıα	10	·=	ပ	۲
creation date	1998-2005	rma	ultu	of.	8	ā	.0	≃	L	1 ==	Ψ			U	_	=	Φ	1	4			1 1		
creation date purpose	residential houses, single family	formal references	cultural references	ref. t	ods	trar	SCi	the	ш	ŏ	te	0	0		¥	Þ	te	┡	1	F			H	_
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11	Data and Description																		Т		\exists	Т		٦
object	BORNEO -SPORENBURG																							
location	Amsterdam, Netherlands			≥.										_			<u>e</u>	ġ.			office and industry			
author	WEST 8, MVRDV	ses	cultural references	ref. to science / env.	L						tech. and ecology		1	located over water		ъ I	technical challenge	engineering bldg.		>	nd [8		
	https://st3.idealista.com/news/archivos/2014-10/borneo-	formal references	erer	nce	sport-recreation	ion				_	900		ore	/er v		under the water	chal	erin	residential	public utility	pug	implemented	concept	<u>:</u>
illustration	sporenburg.jpg?sv=ua4T45jr	refe	l ref	scie	ecre	transportation	a	^	al	decoration	gue .	ا	on the shore	δ	g :	t ‡	g	gine	ider	Sic	8		concept	3
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purpose	residential houses	forr	cul	ref.	ods	trar	SCİ	the	m	әр	tec	Б	Б.	ŏ,	el lo	S	tec		1					
w. influence	utility functions, environment					1																		
relation to w.	standing in the water on the bottom													1										
impl. phase	implemented																					1		
	The Phaidon Atlas of Contemporary World Architecture, Phaidon Press Ir	nc, N	New	Yor	k 20	04.	рр. 3	330-	331	.; Ha	aduc	h B.	(20	02) [Morz	ze d	o m	iesz	kani	ia. [w] Lo	oegle	er R.	
source	(red) Architektura&Biznes nr 10. Kraków.; https://www.mvrdv.nl/																							
12	Data and Description																							
object	AIOLA ISLAND CAFÉ																							
location	Graz, Austria																				>			
	VITO ACCONCI/ ACCONCI STUDIO, ROBERT PUNKENHOFER/ ART		S	<u>-</u>							>			<u>_</u>			ge	ldg.			office and industry			
author	& IDEA	seo	nce	e / e	uc						olog		-	wate		<u>ا</u> و	le	engineering bldg.		≥	ind i	eg	+	١
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purpose	utility: amphitheatre, restaurant	for	cn	ref	ds	tra	SC	the	Е	ğ	ţ.	ò	ŏ.	으 :	≝	⋾	ţ.		_	1	_	4		
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	http://www.graz03.at/servlet/sls/Tornado/web/2003/content_e/8FCE6733	02F	9BE	61C	125	6B8	100	5CE	D38	3;														
source	http://www.mimoa.nl/projects/Austria/Graz/Mur%20Island																							_
13	Data and Description																							
object	HONG LUO CLUB																				_			
location	Beijing, China	(0	SS	š.							≥			ē			ge	oldg			Insti			
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	https://images.adsttc.com/media/images/500e/e27a/28ba/0d0c/c700/0b	formal references	cultural references	ref. to science / env	sport-recreation	transportation				u	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	!
illustration	<u>5c/newsletter/stringio.jpq?1414008562</u> 2005-2006	l ref	alre	SCİ	reci	oorta	გ	ж	rial	decoration	anc	힏	e st	9	g .	Ĕ.	ica	gin	side	oildr	fice	ible i	concept	į پ
creation date		rma	#I	آ .	ort	ans	science	therapy	material	ОЭЭ	Sch.	on land	밀	cat :	floating	g		ē	흰	ᇫ	ō .i	<u></u>	<u>ರ</u> 0	j
purpose	utility: restaurant symbolic, inspiration, utility functions, environment		ರ	2	s	ţ	Š	t	L	ъ	=	0	0 .	<u>=</u> ;	=	_	<u> </u>		\dashv	1	+	+	+	-
w. influence relation to w.	standing in the water on the bottom	1										+		1	-	\dashv			\dashv		+	+	+	-
	implemented											-		-	-	-		-	+	+	+	1	+	-
impl. phase			D:		200	00	. ^-	abite			اما ۱۸۱	latar		2	47.				Ш				\perp	4
source	Bulanda-Jansen A., "Floating club - Hongluo Clubhouse MAD"; Architektu http://www.archdaily.com/3310/hong-luo-club-house-mad/	ıra d	k Blz	znes	200)9; z	. Ar	cnite	ectui	re ar	ıa vv	ater	, nr	3; p.	. 47;	,								
16	Data and Description													Т				П	\neg	Т	\neg			٦
object	Badeschiff - floating pool																							
location	River Spree, Berlin, Germany																							
author	Gilbert Wilk and Susanne Lorenz			١.														Ö			ti St			
autioi	https://encrypted-	es	Ses	eu	_						99			ater			suge	engineering bldg.			office and industry			
	tbn0.gstatic.com/images?g=tbn:ANd9GcQklfzaabmuZY_gaOJiNNCXEu	ence	renc	/ es	tion	E					8		o	ž.		ate	اهر	ring	<u>a</u>	ij.	i p	inte	ţ	:
illustration	xqzG9iQQFbwfrtv_LASslwJOU	efer	efe.	iën	rea	tatic				ion	g e		ية	ove Ove		<u>ا</u> و	등	Jee	ent	c u	e an	a t	ri Pi	
creation date	2004	alre	ıral	0.80	t-re	spor	ည	яру	eria	orat	a.	and.	he	ted .	ting	e l	inic	engi	residential	public utility) Lic	implemented	concept	2
purpose	utility, recreation, pool	formal references	cultural references	ref. to science / en	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	Ψ	+	1	J .!	=+	J @	H
w. influence	utility functions, environment	4	J	_	1	-	U)	+				\dashv				+		\dashv	\dashv	+	+	+		
relation to w.	floating on the water											+			1	+		\dashv	+	\dashv	+	+		
impl. phase	implemented						Н					\dashv			1	+		+	+	+	+	1		
source	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	008.	pp.	274	 -277							_		-1				1				
20	Data and Description			,			Πİ												\exists		\neg	T		٦
object	Offshore Stadium. FIFA 2022 Football Championships Vision																							
location																								1
author	Stadium concept, Peter Knoebel			>										_			<u>a</u>	ġ			stry			1
	https://www.commercialinteriordesign.com/sites/default/files/cid/styles/fu	Ses	Seot	/en	٦						ogy			vate		ē	eng	engineering bldg		_	office and industry	90		
	Il img crop/public/images/2011/05/24/Sea OffShore Stadium L.jpg?ito	renc	erer	aor	atio	ioi					900		o_e	er v		wat	hal	ərin	tial	Ħ	pu i	ent,	ient	;
illustration	k=GfVhqgwn	efei	refe	cier	cre	rtati			=	tion	pu e	<u>.</u>	oys .	0		the	ial c	ine	residential	public utility	g g	implemented	concept	5
creation date	2010/2011	formal references	cultural references	ref. to science / env	sport-recreation	transportation	science	apy	materia	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	eng	resi	qnd	offic	du S	concept	š
purpose	utility,	form	cult	ref.	ods	tran	scie	therapy	ma	dec	tec	o	uo .	8 ;	flo	ŭ	tec	T	寸	1	T	Ť	T	
w. influence	technical challenge, environment																1	T	\top	T	\top	Ť		
relation to w.	floating on the water						П								1				\forall		\top	\dagger		1
impl. phase	concept																	T	寸	T	\top	T	1	1
source	http://www.tenniswood.co.uk/technology/world-cup-qatar-2022-floating-st	adiu	im/ ,	06.	02.2	2015												- 1						٦
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22	<u> </u>																		ı	, 1			
object	Spa , Volkswagen factory																		ı	, 1			
location	Wolfsburg, Germany																		ı	, 1			
author	Max Wehberg		١											پ			je	g.	ı	, 1	stry		
	https://www.area-arch.it/wp-	Ses	cultural references	/ env.	_						tech. and ecology			located over water		e	technical challenge	engineering bldg.	ı	احا	office and industry		
	content/uploads/sites/6/2017/09/008_as_badeschiff_spa_%E2%88%8F	references	erer	ref. to science /	sport-recreation	lo.					မင္ပ		ē	er <		under the water	hall	ərin	tial	public utility	nd.	implemented	concept
illustration	s-services_wongebergmann.jpg	efe	refe	cier	Ge	rtat			_	ţi	nde	_	sho	8	_	he	alc	inee	gen	ا قِرا	a a	em	Geb.
creation date	2005	٦	ıral	tos	t-	transportation	science	therapy	material	decoration	٦. a	on land	on the shore	atec	floating	ler t	nnic	gue	residential	g	offic	m L	concept
purpose	utility	formal	븕	ef.	Ιğ	ran	Scie	her	mat	gec	tech	on	e l	00	floa	oun	tech		Ħ	H	1	Ŧ	
w. influence	utility functions, environment	-	Ť	 -	1	-	10,	1											П	П	H	Ħ	7
relation to w.	floating on the water														1				П	Н	\vdash	\dashv	+
impl. phase	implemented			\vdash	H	1	╁						-	_	_				Н	Н	\dashv	1	+
ппрі. рпазе	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	onn	20	I	L	262	265	· h	ttn:/		ı, bu		u ob	hor	- do	lon	dos	lan	dot	مالت	hn2i		
source	06.02.2015.	ailli	, 20	100,	ρ μ	202-	-203	. , 11	ιιμ.//	VV VV V	v.bu	610-	weii	neií	J.ue	CII_	_ues	sigii_	_ue	ali.p	np:n	J-42	۷,
26						I	1	1											П	\Box		Т	
object	Spaceframe – design N55.	-		١														4	ı	, 1	Ę		
location	London - Amsterdam	တ္သ	es	ref. to science / env							SG			ter			technical challenge	engineering bldg.	ı	, 1	office and industry	_	
	N55	formal references	cultural references	e	<u>.</u> E	_					tech. and ecology			located over water		under the water	alle	gu	ایرا	<u>≨</u>	. <u>Ē</u>	implemented	
author		fere	efer	enc	sport-recreation	transportation				۱	g G		on the shore	ove		§ ⊗	l ch	eeri	residential	public utility	and	me	concept
illustration	http://www.n55.dk/MANUALS/SPACEFRAME/spaceframe.html	<u>re</u>	a	SCi	1 E	orts	l e	>	<u>la</u>	decoration	anc	Б	e s	었	б	Ť	ical	gin	side	ᆲ	ice	ble	concept
creation date	2002	ma	Ę	12	늄	nsp	science	therapy	material	<u>0</u>	당.	on land	ξ	cate	floating	Jde	chn	eu	-	집	₽.	<u>.</u> E	8
purpose	residential	for	ਲ	ref	g	tra	သွ	‡	Ε	ğ	te	ō	ō	으	≓	'n	te		1	니	Ш		
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relation to w.	floating on the water														1				Ш	لب	Ш		
impl. phase	implemented																		ı	, 1		1	
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source	Kołakowski M.M., "Re(e)ewolucyjny krok ku wodzie", Architektura and Bi	znes	s.; h	nttp:/	/ww	w.n	55.d	k/M	ANL	IALS	S/SP	ACE	FR	٩ME	/spa	acef	ram	e.ht	ml, (ე6.0	2.20	15.	
28	Data and Description																			П			
object	Ozeaneum - Marine Museum																		ı	, 1			
location	Stralsund, Germany			.													Ф	ġ.	ı	, 1	stry		
		es	ses	e	_						g			ate		_	eng	plq	ı	ı, I	inp(٦	
author	Stefan Behnisch, Martin Haas, David Cook (Behnisch Architekten)	formal references	cultural references	ref. to science / env	sport-recreation	Ľ					tech. and ecology		Ф	located over water		under the water	technical challenge	engineering bldg.	<u>.</u>	public utility	office and industry	implemented	
illustration	http://behnisch.com/projects/147	fere	efe	iei	l ea	tatic				on	d e		힏	ove		y e	al ct	eel	residential	5	au	au	concept
creation date	2008	alre	la I) SC	ě	por	g	à	əria	orat	a.	gug	ЭE	ted	ing	er th	nic	ngi	esid	ॿ	#ice	m Me	ouc
purpose	utility	Ē	井	۳. بـ	Ιğ	transportation	science	therapy	material	decoration	ech	on land	on the shore	oca	floating	pur	ech	Ф	_	1	0	=	0
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relation to w.				-									1						H	H	\vdash	+	4
impl. phase	implemented																		Ш	ш	Щ	1	
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source	"RAM" sp. z o.o.; Kraków 2004, p. 38; http://behnisch.com/projects/147,	15.0	06.2	015	_		_			_													
32	-	4																	ı	, 1	>		
object	TENNESSEE AQUARIUM		S	j-							>			Ē			ge	ldg.	ı	, 1	and industry		
location	Tennessee, USA	erences	loe l	ence / env.	ڃ						ecology			vate		ē	challenge	q 6	ı	~	ind .	g	
author	CAMBRIDGE SEVEN ASSOCIATES, INC.	ren	erei	Se	eation	ö				_	9		e l	er.		wat	shal	ərin	ntial	utility	pu	ent	tg.
illustration	https://www.tnaqua.org/about-us/tennessee-aquarium-history/	efe	ref	cie	Sc.	rtat	_			ţi	р	_	shc	8	_	the	alc	ine	gel	ا فِي	g G	le le	cep.
creation date	River Journey- 1992, Ocean Journey- 2005	formal ref	cultural references	to scie	sport-recre	transportation	science	therapy	material	decoration	tech. and	lanc	on the shore	atec	floating	under the water	technical	engineering bldg.	reside	public	office	implemented	concept
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w. influence	utility functions, decoration, environment		Ť	f	Ť	Ť	1			1									П	H	П		
relation to w.	on land without contact with water												1						\dashv	\dashv	\sqcap	+	+
impl. phase	implemented						H												\dashv	Н	\dashv	1	\dashv
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	(1999) Water spaces of the world. Volume 2. The Images Publishing Gro	oup F	-ty I	_td.	Melb	oour	ne,	Ausi	ralia	a.; hi	tp://	WWV	v.c7	a.co	m/w	ork/	teni	ness	ee-a	aqua	arium	1,	
source	13.02.2015.; http://en.wikipedia.org/wiki/Tennessee_Aquarium				_	1	_						Т							_		_	
34						L	\vdash											Ļ	Ш	لـــ		\perp	
object	The Florida Aquarium		S	env.							>			er			ge	bldg.	ıl	,	office and industr		
location	Florida, USA	ces	nce		ا ا						ecology			water		ter	ller	g bc	ı_	اجرا	in .	ted	
author	HELLMUTH, OBATA+KASSABAUM, INC.	erer	fere	nce	3ati	tion				_			shore	ver		wa	cha	erir	ıtia	∰	and	Jen	t
illustration	http://www.bcindustries.com/images/304 Florida-Aquarium 1 .jpg	formal references	cultural references	science /	sport-recreation	transportation	a)	_	a	decoration	and	٥	ds :	located over	g	under the water	technical challenge	engineering	residential	public utility	ge .	implemented	concept
	1955	nal	ura	ref. to s	Į	Spc	science	therapy	material	COL	tech. and	on land	on the	ate	floating	der	hni	enç	res	bu	offi	Ĕ	8
creation date	Lagran.		I I	ref.	gs	trar	scie	the	ma	de	tec	o	on	8	flo	'n	tec			1	П		
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36	Data and Description																	_			\neg	\neg	\neg	
object	L'Oceanogràfic			Į.														G			Ę			
location	Valencia, Spain	SS	ses	env							<u>S</u> 6			ater			nge	plq			snp	_		
author	Santiago Calatrava, Felix Candela	Suce	enc	- 9	tion	E					90		٥	NS.		ate	alle	ing	a_	iity	₽.	ntec		ä
illustration	http://www.cac.es/oceanografic/	formal references	cultural references	ref. to science / env.	sport-recreation	transportation				uo	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
creation date	2002	al re	ralr	os c	:-rec	pod	ce	ď	material	decoration	an an	on land	s ac	ted	floating	ar ‡	nica	ngir	esid	ign	ffice	nple	ouo	xbe
purpose	utility	J. III	ultu	ef. t	port	ans	science	therapy	mate	gecc	ech	r S	n H	oca	loat	pur	ech	Φ	2	1	0	-	9	Ф
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impl. phase	implemented											\dashv	-	-							\dashv	1	+	
source	http://www.cac.es/oceanografic/ , 06.02.2015.; http://en.wikipedia.org/wik	i/I %	270)ces	anoc	ràfi		6 N2	201	15														_
39	Data and Description			I	11106	jian	, o	0.02	20			1									\neg		Т	
object	Nordwesthaus - marina, yacht club	1																						
location	Port Rohner Fussach, Austria	1		١.													a)				ţ			
	Baumschlager Eberle	Se	ses	ref. to science / env	_						g			ate			technical challenge	engineering bldg.			office and industry	٦		
	http://www.nordwesthaus.at/wordpress/wp-	formal references	cultural references	œ/	sport-recreation	E					tech. and ecology		e e	located over water		under the water	alle	ring	<u>a</u>	tility	ğ	implemented		eut
illustration	content/gallery/ausblicke/chr02_0202.jpg,	efer	efe.	ien	rea	tatic				ion	d e		اق	ove		e	들	Jee	lent	c ut	au	ame	ebt.	Ë
creation date	2008	a	la	0 80	t-rec	transportation	ce	ğ	material	decoration	<u>а</u>	pug	on the shore	ted	ing	ar #	nic	ingi	residential	public utility	i iii	n pe	concept	experiment
purpose	utility	J. III	ultu	ef. t	port	ans	science	therapy	mate	gecc	ech	on land	n H	oca	floating	pur	ech	Φ	2	1	0	-	9	Ф
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source 41	Data and Description	rie/				1												-		-1	\neg	\neg	\neg	
	Adriatic Hotel	-																						
object	Adriatic Sea	-		١.																	2			
location	Ivana Filipovic	က္က	es	en							<u>S</u> 6			ter			nge	plq			qust			
author	·	nce	enc	, e	ion	_					90			×		ate	alle	ng	_	Ϊŧ	Ĕ.	Jtec		Ħ
	https://images.adsttc.com/media/images/55f7/fb5f/c84a/8a5d/b400/0006/slideshow/1-535.jpg?1442315097	formal references	cultural references	ref. to science / env	sport-recreation	transportation				u	tech. and ecology		on the shore	located over wate		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	혔	experiment
illustration	/slideSnow/1-555.jpg?1442515097	l e	alre	SCi	rec	20 II	ee	ठ	rial	decoration	ano	2	e s	ed	g	ŧΙ	ica	gin	side	pildr	lice	eld	concept	per
creation date		ıma	ltu.	f.	ort-	ans	science	therapy	material	900	Sch.	on land	무	cat	floating	nde	Schr	ē	<u>e</u>	_	ō.	.⊑	8	Θ
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relation to w.	floating on the water											4			1							4	4	
impl. phase	concept																						1	
source	http://www.archdaily.com/148154/navigating-adriatic-hotel-ivan-filipovic/	, 06.	02.2	2015	_							_		_								_		_
42	Data and Description	-																						
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location	mobile	"	SS	Š.							<u>~</u>			ē			ge	gplo			Inst			
author		Jce	Suce	9 / e	ou	_					olo			wa		ter	aller	ng	_	ξ	Ë	ted		t
	http://vincent.callebaut.org/object/100104 physalia/physalia/projects/us	formal references	cultural references	ref. to science / env	sport-recreation	transportation				٦	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	Ħ	experiment
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creation date	2010	ma	Itura	٠ 2	ort-I	usb	science	therapy	material	SCOL	ch.	on land	ا ک	cate	floating	Jge	chn	eu	ě	$\overline{}$	₽	<u>.</u> E	8	ě
purpose	utility	for	ਹ	ref	ds	-	sci	‡	Ē	ğ	ţ.	٥	ō	Ō	₽	בֿ	ţ			1				
w. influence	challenge, inspiration, environment	1				1					1													
relation to w.	floating on the water, under the water														1	1	1							
impl. phase	concept																						1	
source	http://vincent.callebaut.org/page1-img-physalia.html , 06.02.2015.													_										
43	Data and Description																							
object	Thessaloniki Marina																				_			
location	Thessaloniki, Greece		S	≥.							>			Ē			ge	bldg.			nstr			
author	Giannikis SHOP	ces	cultural references	/ en	иc						tech. and ecology			wate		ter	technical challenge	g p		₹	office and industry	ed		ŧ
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relation to w.	on the bottom, in the water											1		1							\neg		T	
impl. phase	concept											1	T								\neg		1	
source	http://www.archdaily.com/186899/thessaloniki-water-transport-piers-prop	osal	-gia	nnik	is-sl	hop/	, 06	.02.2	2015	5.														
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Separation Sep	44	Data and Description																	T	Τ	Т			
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purpose utility	author		nce	enc		ion	اے) Olo:		, 3	8	100	aler aller	2	2 =	īŧ	ij	ted		ı
purpose utility			ere	efere	enc	reat	atio				L C	d ec	or or		2		<u>}</u>	P P I	intis	li <u>H</u>	anc	mer	ğ	ime
purpose utility			l ref	al re	sci	recr	ort?	e l	ج	rial	ratic	anc	و ا و	5 3		2 4		į	side	plic	fice	ple	nce	per
w. influence challenge (obstacle), environment, transportation 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			rma	Itur	f. to	ort-	ansp	ienc	eraț	ate	900	ch.	n 5	1	Jatir	200	ch de	٩	ě	<u></u> Ig	ㅎ	.⊑	8	ě
relation to w. on the bottom in the water implemented implemented in 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · ·	-	Į.	2	ē	sb	tra	SC	Ţ	Ε	ő	‡	ō	2	1	<u> </u>	5 E		\perp	1	1	Ш		
impl. phase implemented							1	Ш							1				\perp	\perp	\perp	Ш		
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source http://www.archdaily.com/554132/ad-classics-yokohama-international-passenger-terminal-foreign-office-architects-foa/, 06.02.2015.		· ·				Ļ	Щ	Щ						L					\perp	L	上	1		
	source	http://www.archdaily.com/554132/ad-classics-yokohama-international-pa	sser	nger	-terr	nina	Il-for	eign	-offi	ce-a	archi	tects	s-foa/	, 06	.02.2	201	5.							

55	Data and Description											- 1								П			
object	Pool																						
location	Leca da Palmeira, Portugal			.										١			е	<u>6</u>			stry		
author	Álvaro Siza	ses	ces	en/	u						ogy			/ate		Ē	eng) pic			ngn	찟	
	https://afasiaarchzine.com/2016/10/alvaro-siza-19/alvaro-siza-swimming	formal references	cultural references	ref. to science / env	sport-recreation	ou					tech. and ecology		ē	located over water		under the water	technical challenge	engineering bldg.	<u>ti</u>	public utility	office and industry	implemented	concept
illustration	pool-leca-de-palmeira-28/	efe	refe	cier	cre	transportation			_	decoration	pu e	_	on the shore	8	_	he	al c	inee	residential	<u>:</u>	e B	lem	concept
creation date	1966	اعاد	ural	to s	rt-re	sbo	science	therapy	material	ora	h. a	on land	the	atec	floating	der t	hnic	eng	resi	몗	offic	imp	cou
purpose	recreation, utility	form	cult	ē.	ods	tran	scie	ther	ma	gec	tec	8	o	Ö	lloa	un	tecl	Ħ	Ē	1			
w. influence	utility functions, environment		Ť	T	1		-											П		П			
relation to w.	beach at the sea												1					П		П			
impl. phase	implemented											T						П		П		1	
source 56	http://www.galinsky.com/buildings/leca/, 28.02.2015.; https://afasiaarchz Data and Description	ine.c	com/	/201	6/10	/alv	aro-s	siza-	-19/a	alvai	ro-siz	za-s	swim	min	g-po	ool-l	eca	-de-	paln			 /	
object	Kastrup Sea Bath			-										_			е	ġ			stry		
location	Kastrup, Denmark	ses	cultural references	ref. to science / env	_						ogy			located over water		ř	technical challenge	engineering bldg			office and industry	g	
author	White Architekter AB	formal references	eren	g	sport-recreation	on					tech. and ecology		ഉ	ĕ		under the water	hall	ř.	ţi	public utility	je P	implemented	concept
illustration	http://www.archdaily.com/2899/kastrup-sea-bath-white-arkitekter-ab/	efe	refe	cier	cre	rtati			_	decoration	pu .	_	on the shore	8		he	alc	inee	residential	<u> i</u>	e	le m	concept
creation date	2005	اهر	ral	to s	rt-re	sbo	uce	aby	material	ora	h. a	on land	the l	atec	floating	ler t	hnic	eng	resi	g	offic	m	con
purpose	utility	form	cult	ē.	ods	transportation	science	therapy	ma	gec	tec	8	o	Ö	floa	un	tecl	Ħ		1			
w. influence	utility functions, environment				1													П		П		\neg	
relation to w.	on the water on the stilts											T		1				П	П	П	П		
impl. phase	implemented		T									T						П		П		1	
source	http://www.archdaily.com/2899/kastrup-sea-bath-white-arkitekter-ab/, 06	.02.2	2015	5.																			
57	Data and Description																						
object	Water Glass House		١.,											_			е	ġ			stry		
location	Atami, Japan	ses	cultural references	ref. to science / env	u						ogy			located over water		ъ	technical challenge	engineering bldg.			office and industry	졌	
author	Kengo Kuma and Associates	formal references	erer	e)Ce	sport-recreation	o					tech. and ecology		ē	er		under the water	hall	inc	Į.	public utility	D.	implemented	concept
illustration	http://kkaa.co.jp/works/architecture/water-glass/	efel	refe	cier	cre	transportation			_	decoration	pu .	_	on the shore	8		he	alc	inee	residential	<u>.</u> 2	e Se	em	concept
creation date	1995	اعاً	ıral	to s	rt-re	sbo	science	therapy	material	ora	h.	on land	the	atec	floating	ler t	hnic	eng	resi	g	offic	m	00 00
purpose	residential	form	onlt	ē.	ods	tran	scie	ther	ma	ge	tec	o	o	8	log	ŭ	tec	П	1	П		\Box	
w. influence	inspiration, mystic, material	1	1	_					1	1								П		П			
relation to w.	on land, surrounded by water, the pool edge is disappearing											1						П		П			
impl. phase	implemented																	П		П		1	
source 59	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm Data and Description	nann	, 20	08, 1	op. 1	176-	179.	; htt	p://k	kaa	.co.j	o/wo	orks	arc	hited	ctur	e/wa	ater-	glas				
object	BLUR BUILDING			>										_			е	ġ			stry		
location	Yverdon-les Bains, Switzerland	es	ces	/en	ر						ogo			ate		ř	eng	일			ngr	g	
author	ELISABETH DILLER & RICARDO SCOFIDIO	enc	ren	ce	atio	ы					000		ē	ĕ		vate	hall	iri	<u>a</u>		ρ	ante	
illustration	http://www.arcspace.com/features/diller-scofidiorenfro/blur-building/	formal references	cultural references	ref. to science / env	sport-recreation	transportation			_	tion	tech. and ecology	_	on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept
creation date	2002	alr	ıral	50	t-re	ods	science	apy	material	decoration	٦. ع	on land	the	ated	floating	ler t	nnic	eng	esic	g l	offic	ld l	00 00
purpose	exhibition	orn	l#	ef.	ods	ran	scie	therapy	ma	ge	tec	6	6	ö	lloa	un	tec	1		Ħ			
w. influence	inspiration, building material, environment	1	_	1	0,		0,	_	1									П		П			
relation to w.	on the water, on the bottom											7		1				П		П			
impl. phase	implemented																	П		П		1	
ppacc	Nyka Lucyna: "Nowe Krajobrazy. Redefinicja relacji architektura-woda na Kraus Pawel; Firma Wydawniczo-Reklamowa "RAM" sp. z o.o.; Kraków i)enm	
source	pp. 94-97.; http://www.arcspace.com/features/diller-scofidiorenfro/blur-l				,																		
63	Data and Description		Ī															П		П			
object	National Aquatic Center																						
location	Beijing, China			≥.										_			at	gg.			office and industry		
author	PTW Architects	Ses	ces	/ env.	c.						log)			vate		e	lenç	gpl		احا	ndc	pe	
	http://www.ptw.com.au/ptw_project/watercube-national-swimming-	renc	erer	Jce	atio	ion					ecology		e L	er v		wat	hal	erin (tial	ĮĮ.	D.	ente	_
illustration	centre/	references	cultural references	science	sport-recreation	transportation			<u>_</u>	decoration	ਰ	ا چ	on the shore	located over water	5	under the water	technical challenge	engineering bldg	residential	public utility	Se a	implemented	concept
creation date	2003-2008	formal	ura	2	rt-re	spc	science	therapy	materia	Sora	tech. and	on land	the	ate	floating	der	hnic	eng	resi	and	offic	imp	co
purpose	utility pool	forn	cult	ref.	spo	trar	scie	the	ma	dec	tec	8	o	8	Įõ	ŭ	tec	П		1			
w. influence	inspiration, utility functions	1			1							T						П	П	П	П		
	on land without contact with water											1								П	П		
relation to w.							. 1		_				_										
relation to w. impl. phase	implemented											J										1	
		ektur	ra -	mur	ator) ^	rchit	ekti	ıra	Δ,	chito	ktiii	ra ih/	nnr	'67 t	ech	niko	· Na	nrod.	JWE	Can		n
	implemented www.chrisbosse.de/watercube; Porębska Ewa (redaktor naczelny Archit Sportów wodnych w Beijingie"; wyd. MURATOR S.A. ñr.5(164); Bulanda													•				•				ntrun	

67	Data and Description																							
object	Les Bains des Docks																							
location	Le Havre, France	┨		. ≥										پ			е	dg.			stry			
author	Jean Nouvel	Ses	seou	/ en	u						ogy			/ate		ē	leng	g blo		_	npu	졌		
illustration	http://www.jeannouvel.com/wp-content/uploads/2017/04/ajn-lehavre-bainsdesdocks-philipperuault-22.jpg	formal references	cultural references	ref. to science / env	sport-recreation	transportation				noi	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
creation date	2006-2008	a	<u>la</u>	0 80	t-re	spor	science	therapy	material	decoration	ı. ar	on land	he	ted	floating	ert	nica	ngi	esic	Igno	ffic	du l	ő	xpe
purpose	utility, pool	or m	ültu	ef. t	por	rans	io.	hera	mat	ge	tech	8	on t	loca	float	pun	tech	е	٠	1	0	-=	0	Ψ
w. influence	utility functions	-	U	_	1	Ţ	0)	-				-								- 1			1	_
relation to w.	waterfront							-				\dashv	1										1	
impl. phase	implemented							-				-	Ť									1	1	_
source	http://www.jeannouvel.com/							_				!										- 1		_
69	Data and Description																							
object	Tropical Islands	1		<u>.</u>													m	g.			stry			
location	Krausnick, Germany	es	ses	en	_						Sgo			ater		Ļ	enge	bld			snpu	٦		
author	· ·	enc	ren	- Se	tior	'n					흥		e	×		vate	alle	ring	<u>a</u>	tility	id ir	ute		ent
illustration	https://citytripwith.us/media/ContentGenerator/en_US/ti5.jpg	formal references	cultural references	ref. to science / env.	sport-recreation	transportation			_	E	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
creation date	2008	ale	Ia	o Sc	t-re	por	science	therapy	material	decoration	a.	on land	he	ited	floating	er t	nic	ngi	esic	Iqno	offic	<u>d</u>	ő	expe
purpose	utility, pool	- E	altr	ef. t	por	rans	Sie.	hers	mat	geo	tech	5	on t	oca	float	pun	tech	θ	_	1	0		٥	Ψ
w. influence	utility functions	Ψ.	0	_	ა 1	Ţ	S	=	-	\dashv		Ť		=	_	_	_			-1		+	+	
relation to w.	on land without contact with water				_			\dashv	-	-		1											-	_
	implemented						-	\dashv		-		-'										1	+	_
impl. phase source	Joachim Fischer: "1000 x European Archiecture"; wyd. Varlags Braun; Se	anto	mho	r 20	∩7· I	otto:	//nl v	vikin	odic	2.000	a/sarile	zi/Tr	onic	201	lelan	ndc						- 1		_
70	Data and Description	epte	libe	1 20	07,1	πp.	//pi.v	vikip	Jeula	a.016	J/Wir	XI/ 111	Opic	al_I	ISIAI	ius								_
	Olympic Velodrome and Swimming Pool	┨																						
object	Berlin, Germany	-																_			5			
location	Dominique Perrault	ပ္ပ	es	ref. to science / env.							25			ter			technical challenge	engineering bldg.			office and industry	_		
author	· · · · · · · · · · · · · · · · · · ·	ormal references	cultural references	, e	ion	_					tech. and ecology		•	located over water		under the water	alle	ng	_	lity	ŭ.	implemented		Ħ
	http://www.perraultarchitecte.com/en/projects/2464-	fere	efer	enc	sport-recreation	transportation				۾	9		on the shore	ver		e W	Ch	eeri	residential	public utility	anc	mer	ğ	experiment
illustration	velodrome_and_olympic_swimming_pool.html	<u>e</u>	alre	sci	rec	oort	g	٦	ria I	decoration	and	힑	e st	ed	g	ŧ	ica	ngin	side	olldr	fice	e le	concept	per
creation date	1992-1999	rma	Ita	آ .	ort-	ınsp	science	therapy	material	O	<u>양</u>	on land	<u>ا</u> ۽	cat	floating	nde	chr	e	ē		of	.⊑	8	ê
purpose	utility, pool	Į.	20	ē	sp.	tra	SC	₽	\rightarrow	ō	뽀	ō	ō	2	≠	5	te			1				_
w. influence	utility functions, aquatic visual art, material				1			_	1	_		_												_
relation to w.	on land without contact with water											1												_
impl. phase	implemented																					1		
	Jodidio Philip: "Architecture now! Vol. 1" publ. Taschen; May 2001; (2001														Put	olish	ning	Gro	up F	Pty L	.td. I	Melbo	ourr	ne,
source	Australia.; http://www.perraultarchitecte.com/en/projects/2464-velodrome	_an	d_ol	ymp	oic_s	wim	min	g_pc	ool.h	ntml,	11.	02.2	2015	5.										
	Data and Danadation																		_			-		_
71	Data and Description																							
71 object	Nautical Center	-																						
71 object location	Nautical Center Mantes-la-Jolie, France																•	g.			try			
71 object	Nautical Center Mantes-la-Jolie, France Dominique Perrault	SS	ses	env.							gy			ater		_	nge	bldg.			dustry			
71 object location	Nautical Center Mantes-la-Jolie, France Dominique Perrault http://static.dezeen.com/uploads/2012/01/dezeen_The-Mantes-la-Jolie-	ences	rences	se / env.	tion	n l					cology		Ф	r water		ater	ıallenge	ing bldg.	al	ility	d industry	nted		ent
71 object location author	Nautical Center Mantes-la-Jolie, France Dominique Perrault	iferences	eferences	ience / env.	reation	tation				ion	d ecology		hore	over water		ie water	al challenge	neering bldg.	ential	c utility	and industry	emented	ept	riment
71 object location author	Nautical Center Mantes-la-Jolie, France Dominique Perrault http://static.dezeen.com/uploads/2012/01/dezeen_The-Mantes-la-Jolie-Water-Sports-Centre-by-Agence-Search_5-b.jpg	al references	ral references	o science / env.	-recreation	portation	eoi	py	erial	oration	. and ecology	and	ne shore	ted over water	ing	er the water	nical challenge	ngineering bldg.	ssidential	ublic utility	ffice and industry	nplemented	oncept	xperiment
71 object location author illustration creation date	Nautical Center Mantes-la-Jolie, France Dominique Perrault http://static.dezeen.com/uploads/2012/01/dezeen_The-Mantes-la-Jolie-Water-Sports-Centre-by-Agence-Search_5-b.jpg 1999	ormal references	ultural references	ef. to science / env.	port-recreation	ansportation	cience	ıerapy	naterial	lecoration	ech. and ecology	n land	on the shore	ocated over water	loating	inder the water	echnical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
71 object location author illustration creation date purpose	Nautical Center Mantes-la-Jolie, France Dominique Perrault http://static.dezeen.com/uploads/2012/01/dezeen_The-Mantes-la-Jolie-Water-Sports-Centre-by-Agence-Search_5-b.jpg 1999 utility, pool	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential	→ public utility	office and industry	implemented	concept	experiment
71 object location author illustration creation date purpose w. influence	Nautical Center Mantes-la-Jolie, France Dominique Perrault http://static.dezeen.com/uploads/2012/01/dezeen_The-Mantes-la-Jolie-Water-Sports-Centre-by-Agence-Search_5-b.jpg 1999 utility, pool utility functions	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology		on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential	→ public utility	office and industry	implemented	concept	experiment
object location author illustration creation date purpose w. influence relation to w.	Nautical Center Mantes-la-Jolie, France Dominique Perrault http://static.dezeen.com/uploads/2012/01/dezeen_The-Mantes-la-Jolie-Water-Sports-Centre-by-Agence-Search_5-b.jpg 1999 utility, pool utility functions on land without contact with water	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry		concept	experiment
object location author illustration creation date purpose w. influence relation to w. impl. phase	Nautical Center Mantes-la-Jolie, France Dominique Perrault http://static.dezeen.com/uploads/2012/01/dezeen_The-Mantes-la-Jolie-Water-Sports-Centre-by-Agence-Search_5-b.jpg 1999 utility, pool utility functions on land without contact with water implemented				1	transportation	science	therapy	material	decoration	tech. and ecology		on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	1 implemented	concept	experiment
object location author illustration creation date purpose w. influence relation to w. impl. phase source	Nautical Center Mantes-la-Jolie, France Dominique Perrault http://static.dezeen.com/uploads/2012/01/dezeen_The-Mantes-la-Jolie-Water-Sports-Centre-by-Agence-Search_5-b.jpg 1999 utility, pool utility functions on land without contact with water implemented Jodidio Philip: "Architecture In the United France"; publ. Taschen GmbH;				1	transportation	science	therapy	material	decoration	tech. and ecology		on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential	□ public utility	office and industry		concept	experiment
71 object location author illustration creation date purpose w. influence relation to w. impl. phase source 72	Nautical Center Mantes-la-Jolie, France Dominique Perrault http://static.dezeen.com/uploads/2012/01/dezeen_The-Mantes-la-Jolie-Water-Sports-Centre-by-Agence-Search_5-b.jpg 1999 utility, pool utility functions on land without contact with water implemented Jodidio Philip: "Architecture In the United France"; publ. Taschen GmbH; Data and Description			200	1	transportation	science	therapy	material	decoration	tech. and ecology		on the shore	located over water	floating	under the water	te		residential	1			concept	experiment
object location author illustration creation date purpose w. influence relation to w. impl. phase source 72 object	Nautical Center Mantes-la-Jolie, France Dominique Perrault http://static.dezeen.com/uploads/2012/01/dezeen_The-Mantes-la-Jolie-Water-Sports-Centre-by-Agence-Search_5-b.jpg 1999 utility, pool utility functions on land without contact with water implemented Jodidio Philip: "Architecture In the United France"; publ. Taschen GmbH; Data and Description TOTO SEMINAR HOUSE	Oct	obei	200	1	transportation	science	therapy	material								te		residential	1		1	concept	experiment
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74	Data and Description																							
object	Aqua Skyscraper																				>			
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author	Jeanne Gang	seou	uce		uc	_					olog			wat		ter	llen	d gr	_	₹	ind	ted		ŧ
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object location	Canton Vals, Switzerland	Se	ses	ref. to science / env							g			ater		L	technical challenge	engineering bldg.			office and industry	٦		
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illustration	http://www.archdaily.com/13358/the-therme-vals/	efer	refe	ien	crea	tatic				ion	o pu		shor	ove		e v	a ct	nee	lent	ic at	ear	eme	je j	rim
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relation to w.	thermal springs emanating from the slopes of the alpine mountains											1												
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78	Data and Description																							П
object	WATER VILLAS																							
location	Almere, Flevoland, Amsterdam, Netherlands																							
author	UNStudio		,,	<u>></u>										_			g g	ģ			office and industry			
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84	Data and Description																							
object	LAKE AUSTIN BOAT DICK			ļ .													a)	g.			stry			
location	Lake Austin, Texas, USA	es	ses	en	_						g			ater		Ļ	enge	bld			snpu	٦		
author	JUAN MIRO & MIGUEL RIVERA, MIRO RIVERA ARCHITECTS	oue	Leu	e /	tion	'n					90		ø	×		/ate	nalle	ring	<u>a</u>	ility	id in	ute		ent
illustration	http://www.mirorivera.com/lake-austin-boat-dock.html	efer	refe	ien	crea	tatio			_	ioi	o pc		Shor	ove		he v	al cl	nee	lent	ic ut	e ar	eme	gb	Frim
creation date	2010	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	apy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
purpose	residential	orm	üft	ef.	spor	rans	sciel	therapy	mat	dec	tech	on	on t	000	floa	pun	tech	•	1	_				_
w. influence	inspiration, environment	1	Ť	Ė	0,		"	-															1	
	floating carpentry workshop on a prefabricated steel skeleton that																						1	
	requires the foundation and is anchored in the rock on the bottom of the																							
relation to w.	lake													1										
impl. phase	implemented		Г																			1	T	
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	08,	p. 2	24-	229.	; http	p://w	vww	.mir	orive	era.c	com	/lake	e-au	stin	-boa	ıt-do	ck.h	ntml,			
source	27.01.2015.																							
85	Data and Description																				^			
object	THAMES FLOOD BARRIER		ς,	٦.							>			ē			ge	ldg.			office and industry			
location	Woolwich, London, UK	formal references	cultural references	ref. to science / env.	ou						tech. and ecology			located over water		ter	technical challenge	engineering bldg.	_	ty	ind	ted		Ħ
author	RENDEL, PALMER AND TRITTON	ere	fere	nce Puce	əati	tion				اے	өсс		ore	ver		wa	cha	erir	ntia	utili	and	Jen	ᆸ	mer
illustration	http://en.wikipedia.org/wiki/Thames_Barrier	refe	l re	scie	sport-recreation	transportation	Ф	>	<u>ia</u>	decoration	and	ᇹᅵ	on the shore	g	g	under the water	ical	gine	residential	public utility	ice	implemented	concept	experiment
creation date	1982	mal	tura	₽.	ort-r	nsp	science	therapy	material	8	ch.	on land	<u>۽</u> ا	cate	floating	der	chni		res	pd	off	.⊑	8	e
purpose	flood barrier on the river Thames	for	cul	ref	sbo	tra	SCi	the	Ĕ	ə	ē	Б	ē	ŏ	읟	'n	te	1						
w. influence	challenge, technology										1													
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w. influence relation to w. impl. phase source 103 object location author illustration creation date purpose w. influence	utility, museum inspiration wharf implemented Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ulln Publishing Group Pty Ltd. Melbourne, Australia.; http://pl.wikipedia.org/v http://www.bryla.pl/bryla/51,85298,7946445.html?i=3, 28.01.2015r. Data and Description BAISOUIN TEMPLE Minato, Tokyo, Japan KENGO KUMA & ASOCIATES http://kkaa.co.jp/works/architecture/baisoin-temple/ 2003 sacral inspiration, mystic, material a building surrounded by water giving the impression of dematerializing the edge of the roof implemented	1 formal references 1 formal	, 20 contral references	ref. to science / env.	sport-recreation Sport-r	transportation transportation	125. hein	therapy ; (20	material 1	decoration	tech, and ecology Canada tech.	pace 1	1 along and the state of the st	the cared over water	floating	under the water	technical challenge	engineering bldg.	residential	The Atility	office and industry	implemented beautiful implemented implemen	8	×e

104	Data and Description				_							_						$\overline{}$				\neg	_	_
object	WEBB BRIDGE	+		١.														<u>.</u>			Ę			
location	River Yarra, Melbourne, Australia	တ္သ	es	env							<u>S</u> 6			te			nge	g			qnst	_		
	DENTON CORKER MARSHALL & ROBERT OWEN	uce	enc	, e	ē	_					ecology			×		ater	alle	ng	=	lity	. <u>ĕ</u>	Jtec		ij
author	http://www.dentoncorkermarshall.com/projects/webb-bridge/	fere	efer	enc	reat	atio				uc	d ec		Jore)ve		ě	l ch	eer	əntia	tn:	au	me	둱	experiment
illustration	2004	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	8	6	rial	decoration	tech. and	2	on the shore	located over water	ng	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	éper
creation date		- E	lt.	£.	į	ans	science	therapy	material	900	ech.	on land	=	cat	floating	l de	echr		re	ď	₽	.⊑	8	<u>@</u>
purpose	utility, bridge		ಠ	e_	ß	ij	S	ŧ	_	σ	#	0	0		Œ.	<u>ס</u>		1				4	\dashv	_
w. influence	challenge, inspiration	1												_			1	Ш				4		
relation to w.	obstacle				L							4						Ш					_	
impl. phase	implemented																	Ш				1		
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	08,	pp.	90-9	3.;ht	ttp://	/ww\	v.de	nton	cork	erm	ars	hall.	com	ı/ pr	ojec	cts/w	/ebb	-brid	lge/,		
source	28.01.2015r.	_		_	_	1																_	_	
105	Data and Description																	Ш			>			
object	RAY 1 HOUSE		S	Š.							>			e			ge	engineering bldg			office and industry			
location	Vienna, Austria	references	cultural references	ref. to science / env.	5						tech. and ecology			located over water		ţē.	technical challenge	g p	_	t}	ind	ted		±
author	DELUGAN MEISSL ASSOCIATED ARCHOTECTS	Fer	fere	luce.	ati	tion				_	ecc		ore	/er		wa	cha	ē	residential	public utility	and	implemented	ᇹᅵ	experiment
illustration	http://www.dmaa.at/designe/detail-page/house-ray1.html	refe	l ref	scie	ecre	orta	a l	_	<u>a</u>	atio	and	ا ہ	sh	δ	g	the	cal	gine	ider	olic	ce	len-	concept	erii
creation date	2003	formal	tura	\$	sport-recreation	transportation	science	therapy	material	decoration	٦.	on land	on the shore	ate	floating	under the water	hni	euć	res	puk	offi	Ē	9	exp
purpose	residential, decoration	forr	cul	ref.	gs	tra	scie	the	Ë	qe	tec	8	6	<u>8</u>	9	5	tec	П	1				П	
w. influence	material								1	1								П						
relation to w.	on land without contact with water											1						П						
impl. phase	implemented											T	T					П				1	T	_
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	. 20	08.	pp.	84-8	9.: h	ttp:/	//ww	m.dr	maa.	at/d	esia	ne/o	deta	il-pa	age/	hou	se-r	av1.	html			_
source	28.01.2015r.		,	,			,						3				.5-			,		,		
106	Data and Description											П						П					П	
object	ART MUSEUM																	Ш						
location	Groningen, Netherlands																	Ш						
	COOP HIMMELB(L)AU, ALESSANDRO MENDININI, MICHELE DE			-													е	<u>6</u>			stry			
author	LUCCHI, PHILIPPE STARCK	es	ces	env.	_						ogo			ate		_	eng	율			βĘ	٦		
	http://www.coop-himmelblau.at/ architecture/ projects/groninger-	references	ren	e e	<u>اچَ</u>	G					000		e,	×		vate	hall	ing	<u>ia</u>	tility	jط	aute		ent
illustration	museum/	efer	refe	iel	ě	tati				ion	pd e		힕	ŏ		e l	al cl	nee	lent	n o	ear	eme	g .	Ë
creation date	1994	<u>a</u>	cultural references	ref. to science /	sport-recreation	transportation	science	ρğ	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
purpose	utility, museum	formal	井	ef.	蔮	ans	cier	therapy	nat	jec	ech	<u> </u>	딜	oca	loat	ğ	ech	Ψ	2	1	0	=	4	Ψ
w. influence	environment	7	O	=	S	=	S	≠	_		-	\dashv		=	_	-		\vdash		-	_	+	+	-
	on the island in the middle of the water channel											-		4				Н				\dashv	+	_
relation to w.	implemented			-	H		Н					\dashv		1		-		Н			_	_	+	-
impl. phase	'		L.		L		Ш											Щ				1		
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	08,	pp.	78-8	3.; h	ttp:/	//ww	W.C	oop-l	nimn	nelb	lau.	at/a	rchi	tect	ure/	pro	ects	/gro	ning	er-	
source	museum/, 28.01.2015r.	_		_								_				_						_	_	_
107	Data and Description	-																Ш						
object	CITY OF ARTS AND SCIENCES	4																Ш			>			
location	River Turia, Valencia, Spain	١.,	ဖွ	Ę.							>			e			ge	ldg.			and industry			
author	SANTIAGO CALATRAVA	erences	ferences) e	٦						ecology			wat		ţē.	challenge	g p		ty	ind	g		±
	http://orig02.deviantart.net/5170/f/2011/155/2/f/city of art and science	eren	ere	nce	ă	tion				_	900		ore	/er		wa	cha	ëri	ntial	utility	and	Jen	<u> </u>	ment
illustration	<u>by runedance0-d3i0te0.jpg</u>		<u>e</u>	to science / env	sport-recreation	transportation	₀	_	ਯ	decoration	and		S	located over water	g	under the water	cal	engineering bldg	resideı	public	8	implemented	concept	experii
creation date	1998-2003	formal ref	cultural re	\$	Ę	odsu	science	therapy	material	cor	tech. and	on land	on the sh	ate	floating	der	technical	éuć	res	put	office	Ĕ	ខ្ញ	ex
purpose	utility	for	cul	ref.	gs	tra	scie	the	Ë	qe	tec	8	o	<u>8</u>	유	5	tec	П		1				
w. influence	inspiration, material	1							1									П						
relation to w.	on land (in the former riverbed), surrounded by shallow pools											1		1				П						Т
impl. phase	implemented											1						П				1	T	П
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	onn	20	00	nn '	72.7	7 · h	ttn:	//		coope			lfoo	turo	امام	ntic		مام	trov	a/ait	, of		_
source	and-sciences/, 28.01.2019r.	ailli	, 20	100,	pp.	12-1	7., 11	ittp./	/ VV VV	w.aı	cope	100.0	JUIII	IICa	luie	3/30	uiuc	igu-i	caia	uav	a/ City	/-01-6	21 LO-	
108	Data and Description				Г													$\overline{}$					\neg	-
object	DOCKLAND	-																Ш						
-	Hamburg, Germany	+		١.														<u>.</u>			Ē			
location	BRT ARCHITEKTEN	S	Se	env							<u>S</u>			ter			nge	bldg.			gnst			
author		formal references	cultural references	_	j.	٦					ecology		0	located over water		ater	technical challenge	g	F	lity	office and industry	implemented		ţ
:!!	https://www.architravel.com/architravel_wp/wp-	ere	efer	science	reat	atio				uC	d ec		Jore)ve		š	-C	eer	3ntia	, uti	anc	me	þ	ime
illustration	content/uploads/2013/01/Dockland-Office-Building 2-990x500.jpg	Let	al re		sport-recreation	transportation	۾	>	rial	decoration	tech. and	اع	on the shore	pe	g	under the water	ical	engineering	residential	public utility	lice	ple	concept	per
creation date	2004-2006	ma	Itura	٠. ٤	바	dsu	science	therapy	material	900	ch.	on land	₽	cate	floating	ge	chn	e	ē	bn	_	.≝	8	ě
purpose	utility	for	cn	ref.	gg	tra	SCi	tμ	E	de	te	ō	ō	Ö	¥	בֿ	te	Ш			1			
w. influence	challenge				L	L	Ш											LJ]			
relation to w.	obstacle																1	П					T	Г
impl. phase	implemented											1						П			\neg	1		
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	20	008	nn i	66-7	1 · h	ttn:/	//w/w	w hr	t de	en/r	roie	ects	/nav	/1/c	ater	JOTV	/offi	ce-				T
source	buildings/project/dockland-office-building-2.html, 28.01.2019r.	1111	,	,	۰۲۰	1	, 11	۱. ۱	**			-11/	- jc		av	,0	٠.٠٤	,~, y/						
Source																								

109	Data and Description																		\neg		\neg		Т	
object	PAUL-LÖBE-HAUS	-																						
location	Berlin, Germany	1																						
author	STEPHAN BRAUNFELS	1		>										_			е	ġ			stry			
		ses	cultural references	/ env.	ے						ogy			located over water		je.	technical challenge	engineering bldg.			office and industry	g		
	https://img.archilovers.com/projects/b 730 CE64A7B4-6E28-4E9D-	formal references	eren	ref. to science /	sport-recreation	o					tech. and ecology		<u>r</u> e	e v		under the water	hall	sring	<u>a</u>	public utility	nd .	implemented	_	experiment
illustration	A099-0A4270B6063D.jpg	efei	refe	cier	cre	rtati			_	tion	nge	_	sho	Š		he	alc	inee	gen	ic n	e	e l	g .	erim
creation date	2001	اعا	ural	to s	rt-re	transportation	science	therapy	material	decoration	h.	on land	on the shore	atec	floating	der t	hnic	eng	residential	qnd	offic	m l	concept	exp
purpose	office	form	cult	ref.	lods	tran	scie	ther	mai	dec	tec	e G	on	000	floa	nuc	tecl				1	=	Ť	Ť
w. influence	environment		Ť	Ī	, , ,	Ī	-												T		T		T	
relation to w.	on the shore, the river Spree flows between the buildings												1						\exists			T	П	
impl. phase	implemented																					1		
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	08,	op. (62-6	5.;h	ttp://	/wwv	v.br	aunf	els-												П
source	architekten.de/#/designe/auswahl/ausgewaehlte-designe/paul-loebe-hau	s-be	rlin/	, 28	.01.	2019	∂r.																	
110	Data and Description																							
object	SPA BERGOASE																							
location	Arosa, Switzerland		, 0											_)e	ġ.			stry			
author	MARIO BOTTA	Ses	ces	/ env	ے ا						logo			vate		er	lenç	engineering bldg.		>	office and industry	pg		_
	https://www.mimoa.eu/projects/Switzerland/Arosa/Tschuggen%20Bergo	ren	erer	nce	atio	ion				_	9		ore	er v		wat	shal	erin	tial	Ħ	pul.	ent	_	neu
illustration	ase/	references	ref	to science /	Scre	ırtat	_		a	itior	pur	_	shc	ò	0	the	salo	ine	residential	public utility	9	implemented	concept	experiment
creation date	2003-2006	formal	cultural references	9	sport-recreation	transportation	science	therapy	material	decoratior	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	eng	resi	gnd	offi	E	8	exb
purpose	utility, spa	forr	cult	ref.	sbo	trar	Scie	the	ma	de	tec	8	on	8	Ę Į	ů	tec			1				
w. influence	utility functions, material, decoration							1	1	1														
relation to w.	on land without contact with water											1												
impl. phase	implemented																					1		
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	08,	op. (58-6	1.;																_	
source	http://www.botta.ch/Page/Re%202006_476_Arosa_en%20(Pu).php, 28.0)1.20)19r	•.																				
111	Data and Description																							
object	SAN CARLINO																							
location	Lake Lugano, Switzerland			. ≥										_			je	ġ			stry			
author	MARIO BOTTA	Ses	cultural references	/ env	_						logy			located over water		er	technical challenge	engineering bldg		>	office and industry	ᆔ		_
	http://www.proholz.at/fileadmin/proholz/media/zuschnitt/1-San-Carlino-	formal references	erer	ref. to science /	sport-recreation	ion				_	tech. and ecology		ore	er v		under the water	shal	erin	<u>tia</u>	public utility	in i	implemented	اپ	experiment
illustration	photo-Enrico-Cano.jpg	refe	ref	Scie	Scre	transportation	_		-	decoratior	pu	ر ج	on the shore	8	0	the	sal c	ine	residential	lic (9	_ e	concept	erin
creation date	1999	nal	ura	5	Į.	odsu	science	therapy	material	core	بان ق	on land	the	ate	floating	der	hni	enç	res	puk	offi.	E	9	exb
purpose	exhibition	for	cult	ref.	sbc	trar	Scie	the	m	de	tec	9	on	9	μğ	'n	tec			1				
w. influence	environment																							
relation to w.	on the water, on the platform													1										
impl. phase	implemented																					1		
source	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	08,	op. (54-5	7.; h	nttp:/	//ww	w.b	otta.	ch 2	28.0	1.20	19r.					•				
112	Data and Description																				J	П	П	
object	HAUS H.		(0	≥										<u>_</u>			Эe	dg.			and industry			
location	Lake Aussee, Blindenmarkt, Austria	ces	ces	ience / env	ڃ						d ecology			over water		er	lenç	eering bldg.		>	ing -	8		,
author	ERNST BENEDER	ferences	erer	ng l	reation	ation				_	900		ore	è.		wat	shal	erin	Itial	ij∥	pul i	mented	_	neu
illustration	http://spiluttini.azw.at/imgwrapper.php?area=big&id=46932		cultural references	scie	Scre	ntat	_		a	decoration	pur	-	on the shore	ò	0	under the water	technical challenge	ine	residential	public utility	9		concept	experiment
creation date	1994	formal re	ural	ref. to sc	sport-rec	transport	science	therapy	material	cora	tech. an	on land	the	located	floating	der	hnic	engin	resi	qnd	office	imple	8	exp
purpose	residential	forr	cult	ref.	sbo	trar	Scie	the	ma	de	tec	8	on	8	Ę Į	ů	tec		1					
w. influence	environment																							
relation to w.	wharf												1						T		T			
impl. phase	implemented																		\Box			1		
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	08.	op. :	50-5	3.: h	nttp:/	//spil	uttir	ni.az	w.at	t/imc	wra	ppe	r.ph	p?a	rea=	-bia{	&id=	4693	32.		
source	28.01.2015r.			- ,			,,	1. "	100							Pr. 1	, -	-	٥,			,		
113	Data and Description																		П					
object	SPA BATHS		(0	env.							_			3			ge	bldg.			office and industry			
location	Bad Aibling, Austria	ces	cultural references	l ~	ے						log			water		er	technical challenge	g bl		_	ind.	eq		۰
author	BEHNISCH ARCHITEKTEN	references	ere	to science	sport-recreation	ion				_	ecolog)		ore	/er/		under the water	chal	engineering	Itial	public utility	gug	implemented	_	experiment
illustration	http://behnisch.com/projects/190	refe	ref	scie	3Cre	transportation	m	_	a	ation	put	اچ	on the shore	ocated over	5	the	cal	ine	residential) jic	Se S	ler	concept	erir
creation date	2003-2007	nal	ura	tos	Ť	spc	science	rapy	material	decoratior	tech. and	on land	the	ate	floating	der	hnic	eng	res	puc	ij.	E I	00	exp
purpose	utility, spa	formal	cult	ref.	Spo	trar	scie	therapy	ma	de	tec	8	on	8	foi	ů	tec			1				
w. influence	utility functions, material				Ė			1	1										\exists		\exists			
relation to w.	on land											1							\exists		T	T	T	
impl. phase	implemented																		\exists		T	1	T	
source	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	08,	op. 4	46-4	9.; r	ittp:/	/beh	nnis	ch.c	om/p	oroje	ects/	190	, 28	.01.	2015	ōr.				_	
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115	Data and Description																				\neg	Т	П	T
object	HEINER-METZGER-PLATZ	1																						
location	Neu-Ulm, Germany	1																						
author	ATELIER DREISEITL	1		·													a)	g.			šty			
	http://www.schick-gartengestaltung.de/	es	ces	, env.	ر						ógo			located over water		F	technical challenge	gpldg.			office and industry	٥		
	Meine%20Galerie/h_m_platz/img/heiner_metzger_platz%20(70).JPG.jp	references	cultural references	ref. to science /	sport-recreation	uo					tech. and ecology		ē	er		under the water	hall	engineering	tial	public utility	밀	implemented	_	experiment
illustration	<u>a</u>	efe	refe	cier	cre	transportation				tion	nde	_	on the shore	8	_	the	alc	inee	residential	ic	e a	e u	concept	erin
creation date	2004-2005	lal	ural	tos	rt-re	odsı	science	ару	material	decoration	h. a	on land	the	atec	floating	der	hnic	eng	resi	qnd	offic	Ē.	8	exp
purpose	utility, exhibition	formal	cult	ref.	ods	tran	scie	therapy	ma	dec	tec	e P	9	00	flos	ŭ	tec			1				
w. influence	inspiration, ecological, material, decoration	1		1					1	1	1										П		П	
relation to w.	on land											1												
impl. phase	implemented																					1		
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	08, p	ор. (38-4	1.;	oser	n D.	(200	05) 7	Towa	ards	a n	ew \	wate	er cu	lture	e. [w] Dr	eisei	ıtl H	., Gr	au
source	D. (red) New waterscapes. Birkhauser, pp. 140-143, 173																							
116	Data and Description																				_			
object	NATIONAL GRAND THEATHER OF CHINA		S	_										Ē			ЭG	dg.			office and industry			
location	Beijing, China	formal references	cultural references	ref. to science / env	uc						tech. and ecology			located over water		ter	technical challenge	engineering bldg.		₹	<u>i</u>	ed		Ħ
author	PAUL ANDREU ARCHITECTE	eren	fere	auce	sport-recreation	transportation				L	900		ore	ver		under the water	cha	erin	residential	public utility	and	implemented	Ħ	experiment
illustration	http://bi.gazeta.pl/im/0/6489/z6489230Q.jpg	refe	l re	scie	ecre	orta	в	_	ial	decoration	and	ᄝ	on the shore	ğ	g	the	ical	gine	ide	plic	g	Jen	concept	Serii
creation date	1999-2007	mal	tura	<u>۽</u>	ort-r	usp	science	therapy	material	cor	당.	on land	the	cate	floating	der	chni	eu	res	nd	b b	Ē	8	ĕ
purpose	utility	for	딩	ref	sbo	tra	sci	the	Ë	de	te	o	o	ŏ	읮	n	te			1				
w. influence	inspiration, material	1	1						1															
relation to w.	on the water, founded on the bottom													1										
impl. phase	implemented																					1		
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm																jaler	ie%	20d	éfila	nte/8	36-		
	National%20Grand%20Theatre/galerie_Beijing/galerie_Beijing_0_gb.htm	nl ; h	ttp:/	/ww	w.pa	aul-a	andre	eu.c	om/	page	es/pa	ages	s%2	0fic	hes/	86-								
source	National%20Grand%20Theatre.html, 28.01.2015r.											_							_					_
117	Data and Description LANGEN FOUNDATION	-																						
object		4																<u>ب</u>			Ę			
location	Neuss, Germany TADAO ANDO	SS	ses	env							g			ater		L	nge	plq			qns	_		
author	http://en.wikipedia.org/wiki/Langen_Foundation#mediaviewer/File:Lange	formal references	cultural references	ref. to science / env	sport-recreation	E					tech. and ecology		Ф	located over water		under the water	technical challenge	engineering bldg.	a	iity	office and industry	implemented		ent
illustration	n Foundation.jpg	efere	refe	ien	rea	transportation				ion	g e		on the shore	ove		Ne V	al ch	nee	residential	public utility	au	au B	concept	experiment
creation date	2004	alre	ıral	o sc	t-re	spor	science	therapy	material	decoration	ar.	on land	hes	ted	floating	ert	nica	ngi	esic	igno	JĘ (č	du l	Sono	expe
purpose	utility, museum	E O	ültu	ef. t	por	rans	cie	hera	mat	dec	tech	on	on t	loca	float	pun	tech	Ψ	_	1		=		Ψ_
w. influence	inspiration, material	4	1	_	0)	-	0)	-	1												\dashv		\dashv	
relation to w.	wharf												1								\dashv			
impl. phase	implemented																				\exists	1	T	
source	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann,	200)8, p	p. 3	0-33	3.; ht	tp://	/ww\	w.ta	dao-	and	0.CO	m/b	io_v	vork	sE.h	ntml;				_	_	_
118	Data and Description				İ			ĖТ																
	THE PALM ISLANDS: THE PALM JUMEIRAH, THE PALM JEBEL ALI,																							
object	THE PALM DEIRA; THE WORLD		(C)	≥.										×			Эe	dg.			ıstı,			
location	Dubai, United Arab Emirates	ences	Jce	ce / env.	u						log)			vate		e.	len	ring bldg.		>	ind	9		_
author	AL. NAKHEEL PROPERTIES	ren	ere	nce	atic	tion				ا ا	600		ore	/er/		wat	chal	erin	residential	Ħ	gu	implemented	<u></u>	nent
illustration	https://bestindubai.files.wordpress.com/2011/12/1.jpg	refere	l ref	scie	ecre	ortai	₀		ਯ	atior	and	٦	sho	φ	g	the	cal	engineeri	ider	jic (e e	Jer	concept	experime
creation date	2001-2006; 2002-2007; od 2004; 2003-2005	formal	cultural references	ref. to scien	sport-recreation	transportatic	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	enç	res	public utility	offi	<u>Ē</u>	9	exp
purpose	utility-residential	forr	cult	ref.	ods	trar	scie	the	m	qe	tec	on	on	00	flo	n	tec		1	1				
w. influence	utility functions, challenge, environment				1	1																		
relation to w.	artificial islands													1			1							
impl. phase	implemented																					1		
	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	.80	op. 2	24-2	9.; E	Burch	hard	d C	Fles	sche	F. (200)5) V	Vate	er Ho	ouse	. Pr	este	l Ve	rlaq	,	1
source	Munich, Berlin, London, New York. pp. 40-43; http://pl.wikipedia.org/wiki									,			,	٠	,							- 5		
120	Data and Description																							
object	CYBERHELVETIA			. ≥										Ē			je	bldg.			stry			
location	Biel-Bienne, Switzerland	Ses	cultural references	/env	Ē						logy			located over water		ē	technical challenge	g bk		_	office and industry	90		_
author	3DELUXE	references	erer	to science /	sport-recreation	ion					tech. and ecology		o.c	er v		under the water	chal	engineering	tial	public utility	<u>p</u>	implemented	ب	experiment
illustration	http://architizer.com/projects/cyberhelvetia/	refe	ref	scie	ecre	ntat	6		<u>=</u>	tion	put	اچ	shc	9	3	the	sal c	line	den	Jic L	g g	lem	cep	erin
creation date	2002		ural	to s	rt-re	transportation	science	therapy	material	decoratio	م	on land	on the shore	atec	floating	Jer 1	hnic	eng	residential	qnd	ď	imp	concept	exp
purpose	exhibition	formal	cult	ref.	sbo	tran	scie	the	ma	dec	tec	o	on	00	flo	ŭn	tec			1	\exists			
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relation to w.	on land without contact with water						П					1									\neg			
impl. phase	implemented																				\exists	1		
source	Fischer J., "Wasser Eau Water", series Architecture Compact, h.f. Ullm	ann	, 20	08, p	op.	14-1	9; h	tp://	arch	hitize	er.cc	m/p	roje	cts/c	cybe	erhe	lveti	a/ ,	28.0	1.20)19 r	. 	_	

121	Data and Description																		П		\neg	Т	Т	
object	TANNER SPRINGS park	1																						
location	Portland, Oregon, USA	┨																						
location		1		ļ.													•	<u>.</u>			Ę			
author	ATELIER DREISEITL, HERBERT DREISEITL, GREENWORKS, PC	SS	Ses	ef. to science / env	_						95			ater		L	technical challenge	engineering bldg.			office and industry	_		
autioi	https://i.pinimg.com/236x/5f/5a/2b/5f5a2b86c18be3bab0d51ce8769119b	ance.	renc	- 9	tion	E					90		Ф	Ĭ.		/ate	alle	ing	<u>a</u>	ij	.⊑	ute L		eut
illustration	c-oregon-usa-portland-oregon.jpg	formal references	cultural references	ien	sport-recreation	transportation				on	tech. and ecology		on the shore	located over water		under the water	al ch	Jeer	residential	public utility	au	implemented	concept	experiment
creation date	2004-2005	a le	ralr	SC	-Lec	род	ce	ď	material	decoration	an B	gug	s ac	ted	floating	er th	nica	ngir	sid	ign	Hice.	nple	ouo	xpe
-	utility, park	Ĕ	llt.	₩. ₩	port	ans	science	therapy	nate	lecc	ech	on land	드	ocal	loat	nde	ech	Φ	2	1	0 .	=	0	Φ
purpose	decoration, ecological	2	Ö	<u> </u>	S	₽	Š	÷	_	-		0	-	-	f	٦	ţ			-	\dashv	+	4	
w. influence	on land									1	1	4	-								\dashv	4	4	-
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impl. phase						<u> </u>	L															1		4
	Woodward R. (2005) Water in landscape .[w] Dreiseitl H., Grau D. (red) N	New	wat	ersc	ape	s. Bi	rkha	iuse	r, pr). 12	?-17.	166);											
source 124	http://www.dreiseitl.com/index.php?id=54⟨=den; 29.01.2015 r. Data and Description				Ι							_							- 1		_		\neg	=
	WATERCOURSE AT HERNE-SODINGEN ACADEMY	+																						
object		-																			2			
location	Herne, Germany	S	es	ĕ.							25			ter			technical challenge	engineering bldg.			office and industry			
	ATELIER DREISEITL, JOURDA ARCHITECTS, HHS PLANER UND	nce	auc	e/e	o o	_					90		_	wa		ater	aller	ng k	_	.≩.	i i	ted		Ħ
author	ARCHITEKTEN	ere	fere	oue	eat	atio				ے	9		lore	ver		N (chi	eri	intie	≣	anc	Je	Ħ	me
illustration	https://aedesign.files.wordpress.com/2010/01/c554a13bc0.jpg	formal references	cultural references	ref. to science / env	sport-recreation	transportation	e e	>	rial	decoration	tech. and ecology	ᅵᄝ	on the shore	located over water	βι	under the water	ical	gine	residential	public utility	<u>8</u>	implemented	concept	experiment
creation date	1999	ma	Itura	5	ort-	usb	science	therapy	material	900	<u>ਦ</u>	on land	₹	cate	floating	ıde	chn	e	ě	ď	₽.	≝	8	ě
purpose	utility, water installation running through the academy courtyard	ō	ਹ	ē	sb	tra	SC	₽	ш		£	ō	ō	으	Ψ	5	te			1	_	_	4	
w. influence	decoration,									1											_	4	4	
relation to w.	on land											1												
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source	Woodward R. (2005) Water in landscape .[w] Dreiseitl H., Grau D. (red) N	New	wat	ersc	ape	s. Bi	rkha	use	r, pr	23	3-29,	166	3;									_		
126	Data and Description	4																						
object	INTEGRATED WATER DESIGN FOR ING BANK-VIVALDI TOWER																				_			
location	Amsterdam, Netherlands		S	<u>`</u>							>			Ē			ge	ldg.			nstr			
author	NORMAN FOSTER AND PARTNERS	ces	nce	e	ڃ						logi			vate		Je.	llen	engineering bldg.		ج.	office and industry	8		.
	http://www.architravel.com/architravel_wp/wp-	eren	ere	loe l	atic	tion				ر	9		ore	/er		wa	cha	erin	Itial	∄	gug	Jell .	<u></u>	men
illustration	content/uploads/2013/05/vivaldi big 3.jpg	refe	l ref	scie	ecre	orta	an a		a	atio	and	اہ	Sho	όρ	g	the	cal	jine	residential	public utility	es .	implemented	concept	experiment
creation date	2005-2007	formal references	cultural references	ref. to science / env	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	euĉ	res	pd	ij.	Ξ	8	exp
purpose	utility	fori	cul	ref.	sbc	traı	sci	the	ü	de	tec	o	o	<u>ŏ</u>	ŧЮ	'n	tec				1			
	inspiration, ecology: storage of rainwater, cooling of the building, saving,																							
w. influence	natural cleansing of the pond, technology, decoration		1							1	1													
relation to w.	on land											1												
impl. phase	implemented																					1		
source	Woodward R. (2005) Water in landscape .[w] Dreiseitl H., Grau D. (red) N	New	wat	ersc	ape	s. Bi	rkha	use	r, pr	o. 36	6-37,	167	7											
128	Data and Description				Ė																			
object	POTSDAMER PLATZ																							
location	Berlin, Germany	1																						
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author	ATELIER DREISEITL, RENZO PIANO, CHRISTOPH KOHLBECKER	es	ces	ref. to science / env	_						Sgc			located over water		<u>_</u>	technical challenge	engineering bldg.			office and industry	٦		
	https://www.greenroofs.com/wp-	formal references	cultural references	ce /	sport-recreation	6					tech. and ecology		و ا	N N		under the water	hall	ring	<u>a</u>	public utility	ا 5	implemented		ent
illustration	content/uploads/2018/09/potsdamer_platz3.jpg	efer	refe	iel	cres	transportation			_	ion	od e		on the shore	ŏ		he v	al cl	nee	residential	i i	eal	em (concept	experiment
creation date	1997-1998	a	ıral	0.00	t-re	ods	science	therapy	material	decoration	В	on land	he	ated	floating	er t	nic	engi	esic	g	Eligi	m D	ő	e e
purpose	utility, square public	- Luo	JHE.	ef. 1	pod	ran	scie	her	mat	dec	tech	- lo	ont	00	floa	pun	tech		-	1		Ŧ	\dashv	
w. influence	decoration, ecology: water retention	-	Ť	<u> </u>	0,	_	0,	_		1	1										\neg	\top	Ħ	
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pi. pilaso	Dreiseitl H. (2005) Water is universal. [w] Dreiseitl H., Grau D. (red) New	wate	erso	ane	L R	rkha	11150	rnr	46	-51	167										_		_	-
source	http://www.dreiseitl.com/ext/cmp_content_gallery/925.jpg , 29.01.2015 r.		J. J.	apoi	اك . ب	14116		۰, ۲۱	10	J 1,	101	,												
132	Data and Description																		T		\neg	П	П	
object	BEAR ENCLOSURE AT ZOO ZURICH	1																						
location	Zurich, Switzerland			>										Ļ			e	Зg.			office and industry			
author	BÜRO WALTER VETSCH, ATELIER DREISEITL	Ses	ces	/ env	ے						ogy			vate		e	leng	g ble			ng .	pe		
	Dreiseitl H. (2005) Water is universal. [w] Dreiseitl H., Grau D. (red) New	renc	erer	a)Ce	atio	ioi					900		<u>e</u>	er <		wat	hal	ərin	tia	≣,	nd	ent	٦	Jen
illustration	waterscapes. Birkhauser, pp.66-67, 168;	references	refe	cier	cre	rtati			_	tion	nd e	_	sho	ò		he	alc	inee	den	io L	e	em	ceb	erin
creation date	1995-1997	lal r	ıral	to s	t-re	spoi	nce	apy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering bldg	residential	public utility	offic	implemented	concept	experiment
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object location author illustration creation date purpose w. influence relation to w. impl. phase source 200 object location author illustration creation date purpose	Data and Description Montalbán House Los Angeles, USA RICARDO LEGORRETA https://s-media-cache- ak0.pinimg.com/736x/53/6b/4c/536b4cb8fc5a1e8b87861f314a8b58c6.jp g_ 1985 pool material, decoration, utility on land implemented Baldon C.,Melchior I. & Levick, M. (1997) Reflections on the pool. Califor Data and Description POOL WITH A VIEW: LOBO CANYON Santa Monica Mountains, California, USA CAMPBELL&CAMPBELL-LEAH&PAUL CULBERG http://photos1.zillowstatic.com/p_h/IS-Irvz00dcfm1p.jpg 1993 pool	ei formal references	cultural references	env.	sport-recreation	transportation	science	therapy	1 material	n decoration	d ecology	na la la la la la la la la la la la la la	on the store potential of the store potential	Over water 74	Bulggou -77;	under the water	technical challen	. engineering b	1		office and ind	1		ant
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object location author illustration creation date purpose w. influence relation to w. impl. phase source 200 object location author illustration creation date purpose w. influence	Data and Description Montalbán House Los Angeles, USA RICARDO LEGORRETA https://s-media-cache-ak0.pinimg.com/736x/53/6b/4c/536b4cb8fc5a1e8b87861f314a8b58c6.jp g_ 1985 pool material, decoration, utility on land implemented Baldon C.,Melchior I. & Levick, M. (1997) Reflections on the pool. Califor Data and Description POOL WITH A VIEW: LOBO CANYON Santa Monica Mountains, California, USA CAMPBELL&CAMPBELL-LEAH&PAUL CULBERG http://photos1.zillowstatic.com/p_h/IS-Invz00dcfm1p.jpg 1993 pool utility functions	formal references of formal references	cultural references <u>a</u> cultural references	ref. to science / env.	sport-recreation of a sport-recreation	transportation & transportation	science	therapy therapy	material L material	decoration 1 decoration	tech, and ecology	1 Tork.	and the single by the single b	Docated Over water 74	floating -77	under the water under the water	technical challen	. engineering b	residential		office and ind	1		ant

215	Data and Description											_						_		1	_		T
object	TROLL A - OFFSHORE GAS PRODUCTION PLATFORM																_	Ę.			ţ		
location	80 km northwest of Bergen, Norway	S	es	env							6			Į.		.	nge	plq			gns	_	
1	NORWEGIAN CONTRACTORS FOR NORSKE SHELL	nce	enc	e e	.E	_					90		a	×		ate	alle	ing	<u>=</u>	<u>=</u>	. <u>≧</u>	J tec	Ę
author	http://en.wikipedia.org/wiki/Troll A platform	formal references	cultural references	ref. to science / env	sport-recreation	transportation				6	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	experiment
creation date	1991-1995	al re	al	SC C	e	port	ce	ď	rial	decoration	an an	힏	s e	ed	floating	튀	nica	ngin	sid	ublic	Lice	impleme	g a
		ma	ltur	f.	ğ	ans	science	therapy	material	900	ach.	on land	i H	ocat	oati	g	echr.	ē	ē	₫	-	.⊑ ∂	6 6
purpose	utility, gas production platform	Q.	ರ	2	ß	ţĽ	SC	ŧ	_	σ	<u>¥</u>	0	0		=		#				1		
w. influence	technical challenge, environment			L	H				_	4		4		_		_				_	_	_	+
relation to w.	at the water, located on the bottom			-					_	_		4		1		_	1				_	_	\perp
impl. phase	implemented	Ļ	Ļ	Ļ	Ļ.		Ļ	_				_										1	
source	Burchard C., Flesche F. (2005) Water House. Prestel Verlag, Munich, Be Data and Description	rlin,	Lor	idon	ı, Ne	W Y	ork.	pp. :	20-2	1;					П								
217	ALUMINIUM FOREST	-		١.																	2		
object	Houten, Netherlands	S	Se	en.							25			Ę			technical challenge	engineering bldg.			office and industry		
location		formal references	cultural references	ref. to science / env.	6	_					tech. and ecology			located over water		ţe	ller	ng k	_	.≥	.⊑	implemented	=
author	MICHA DE HAAS	erer	fere	au Ce	sport-recreation	transportation				ے	ec		ore	Ver		under the water	che	eri	residential	public utility	and	uel t	experiment
illustration	https://archello.com/project/aluminium-centrum	ref	l re	Scie	ec.	orts	ө	>	<u>ख</u>	decoration	and	힏.	on the shore	9	g	₹	cal	gine	ide	plic	9	impleme	peri
creation date	1997-2001	mal	tura	유	崖	dsu	science	therapy	material	Ö	ن ا	on land	the	gate	floating	der	:uh	e	res	nd	off	Ēξ	e S
purpose	utility	for	cul	ref.	sbc	traı	sci	the	Ĕ	e e	ţĕ	5	Б 	ĕ	우	S	tec				1		
w. influence	environment																						
relation to w.	at the water on the columns													1			1						
impl. phase	implemented											1				T						1	T
<u> </u>		rlin	Lor	don	NI-	\. V	ork	nn '	26. º	7													
source 221	Burchard C., Flesche F. (2005) Water House. Prestel Verlag, Munich, Be Data and Description	autti,	LOF	เนปก	, ive	w ĭ	UIK.	۰ . ۲ <u>۲</u>	20-Z	, 		-						- 1	-	-1	-1		T
	LUCHAO HARBOUR CITY																						
object																							
location	Shanghai, China	4																			ے		
		w	S	š.							≥			ē			ge	engineering bldg.			office and industry		
author	MEINHARD VON GERKAN (VON GERKAN, MARG UND PARTNER)	formal references	cultural references	science / env	8	_					tech. and ecology			located over water		Į.	technical challenge	Jg p	_	£	ا ≌.	ted ed	=
	http://www.newtowninstitute.org/newtowndata/NTimages/Lingang-	erer	fere	l Se	sport-recreation	transportation				اے	900		ore	ě		under the water	cha	eri	residential	public utility	and and	implemented	experiment
illustration	130404-1 15.jpg	refe	l ref	Scie	126	orta	m		ਰ	decoration	and and	ᇹ -	on the shore	ó	g	‡	cal	jine	ideı	음	ë	impleme	eri S
creation date	2002-2005 - 1st stage of construction finished	nal	ura	\$	Ę	Spc	nce	ap)	material	8	<u>ن</u>	on land	the	ate	floating	je	h j	enç	res	buk	ŧ l	בַּן צַ	S S
purpose	ideal radiating city	forn	cult	ref. to	l g	tran	science	therapy	ma	g	tec	5	o o	8	Į į	š	tec		1	1			
w. influence	utility functions, environment, challenge		Ĭ	 	1	1						-				T							
relation to w.	on the water, wharf, on land			H								1	1	1		_	1				1		T
impl. phase	implemented			H	H					1		-1	Ť	÷	1	_	÷			_	_	1	+
source	Burchard C., Flesche F. (2005) Water House. Prestel Verlag, Munich, Be	rlin	Lor	l	l Ne	w Y	ork Ork	nn '	I 34-3	5												'	
222	Data and Description	1 11111,	Loi	I	I, INC	VV I	l I	ρp. ·	J 4 -J	T								Ī		1	1		
object	ARCHE SAYA	-																					
		+		١													_	÷			₹		
location	Saya de Malha Bank, Indian Ocean WOLF HILBERTZ	S	es	e S							<u>a</u>			ţe			nge	plq			snp	_	
author		formal references	cultural references	ref. to science / env	o.	_					tech. and ecology		_	located over water		under the water	technical challenge	engineering bldg.	_	₹	office and industry	implemented	Ħ
	ak0.pinimg.com/236x/2e/ca/70/2eca708cf1d88c23563a8ca3d1302c32.j	ere	fer	l oue	sport-recreation	transportation				ے ا	8		on the shore	Ver		Š	ਤੌ	eeri	residential	public utility	au	<u>ئے</u> ا	experiment
illustration	<u>pg</u>	Te l	al re	SCi	<u>5</u>	ort	ė	>	<u>a</u>	decoration	and	힏.	S (훘	Б	Ĕ	ig	gin	side	plic	ice	impleme	per
creation date	since 1997	ma	Ē	12.	늄	nsp	science	therapy	material	000	ਦ	on land	<u> </u>	g	floating] ge	ch.	e			₽	٤ ٤	ě
purpose	bio-rock city	for	no	ref	sb	tra	sci	粪	Ε	ĕ	te	ō	ō	으	₽	⋾	te		1	1			
w. influence	utility functions, environment				1	1																	
relation to w.	on the water, under the water													1		1	1						
impl. phase	concept design																						1
source	Burchard C., Flesche F. (2005) Water House. Prestel Verlag, Munich, Be	rlin,	Lor	idon	, Ne	w Y	ork.	pp.	36-3	7;													-
223	Data and Description																						
object	HOTEL LE MERIDIEN	1																					
location	Bora Bora, French Polynesia	1																					
	JEAAN HUGUES TRICARD, DL2 DIDIER LEFORT ARCHITECTES	1		l.													•	Ö			Ę		
author	ASSOCIÈS	S	ses	e e							g			water			technical challenge	bldg.			office and industry	_	
adirior		references	cultural references	e	ië.	_					tech. and ecology		a)	Š		under the water	alle	g	<u>=</u>	ΞĘ	2.	implemented	Ĭ
	http://neukaledonien.de/image/Le_Meridien_Bora_Bora/Le_Meridien_Bora_Bora_01.jpg	fere	əfer	ref. to science	sport-recreation	transportation				5	9		on the shore	located over		§ 0	l ch	eer	residential	public utility	ä	i je	experiment
illustration			alre	SCi	<u> 5</u>	orts	e	>	<u>la</u>	decoration	and	힏.	e s	pe	βL	ŧΙ	ica	gi	side	盲	<u>i</u>	impleme	l led
creation date	1998	formal	tur	12.	늄	dsu	science	therapy	material	000	<u>ن</u>	on land	1	cate	floating	ge	ģ.	e	ē	٩	ð	<u> </u>	a a
purpose	utility	ō	2	ē	_	tra	SC	₹	Ε	ŏ	e	ō	ō	으	ĕ	5	£			1			_
w. influence	utility functions, environment				1											_							
relation to w.	on the water on stilts, on the island												1	1									
rolation to w.	implemented				L	L	LĪ	_1				_[T		_ [[_ 1	T	1	
impl. phase	<u> </u>		Lor	don	, Ne	wY	ork.	pp.	38-3	9													
	Burchard C., Flesche F. (2005) Water House. Prestel Verlag, Munich, Be	rlin,		_																			
impl. phase	Burchard C., Flesche F. (2005) Water House. Prestel Verlag, Munich, Be Data and Description	rlin,			l										,					- 1			
impl. phase source		rlin,		>										ا			<u>e</u>	jg			stry		
impl. phase source	Data and Description			/ env.	_						ogy			ater		<u>.</u>	enge) bldg.			ndustry	١	
impl. phase source 227 object location	Data and Description AYABE COMMUNITY CENTER			_	ation	uc					cology		e	er water		vater	hallenge	ring bldg.	ial	tility	nd industry	ented	ent
impl. phase source 227 object location author	Data and Description AYABE COMMUNITY CENTER Ayabe-shi, Kyoto, Japan TADAO ANDO			_	reation	tation				ion	nd ecology		shore	over		ne water	al challenge	neering bldg.	lential	c utility	e and industry	emented	riment
impl. phase source 227 object location author illustration	Data and Description AYABE COMMUNITY CENTER Ayabe-shi, Kyoto, Japan TADAO ANDO http://www.geocities.ws/arquique/ando/grandes/atac02.jpg	references		_	recreation	portation	eol	ýdı	ərial	oration	and ecology	pue .	ne shore	over	ing	er the water	nical challenge	ngineering bldg.	esidential	ublic utility	ffice and industry	nplemented	xperiment
impl. phase source 227 object location author illustration creation date	Data and Description AYABE COMMUNITY CENTER Ayabe-shi, Kyoto, Japan TADAO ANDO http://www.geocities.ws/arquique/ando/grandes/atac02.jpg 1993-1995	references		to science /	port-recreation	ansportation	cience	nerapy	naterial	decoration	ech. and ecology	on land	on the shore	over	loating	under the water	echnical challenge	engineering bldg.	residential		office and industry	implemented	experiment
impl. phase source 227 object location author illustration creation date purpose	Data and Description AYABE COMMUNITY CENTER Ayabe-shi, Kyoto, Japan TADAO ANDO http://www.qeocities.ws/arquique/ando/grandes/atac02.jpg 1993-1995 utility		cultural references	_	sport-recreation	transportation	science	therapy	\rightarrow	decoration	tech. and ecology	on land	on the shore	over	floating	under the water	technical challenge	engineering bldg.	residential	Dublic utility	office and industry	implemented	experiment
impl. phase source 227 object location author illustration creation date purpose w. influence	Data and Description AYABE COMMUNITY CENTER Ayabe-shi, Kyoto, Japan TADAO ANDO http://www.geocities.ws/arquique/ando/grandes/atac02.jpg 1993-1995 utility material	references		to science /	sport-recreation	transportation	science	therapy	naterial	decoration	tech. and ecology	on land	on the shore	over	floating	under the water	technical challenge	engineering bldg.	residential		office and industry	implemented	experiment
impl. phase source 227 object location author illustration creation date purpose w. influence relation to w.	Data and Description AYABE COMMUNITY CENTER Ayabe-shi, Kyoto, Japan TADAO ANDO http://www.geocities.ws/arquique/ando/grandes/atac02.jpg 1993-1995 utility material wharf	references		to science /	sport-recreation	transportation	science	therapy	\rightarrow	decoration	tech. and ecology	on land	on the shore	over	floating	under the water	technical challenge	engineering bldg.	residential		office and industry		experiment
impl. phase source 227 object location author illustration creation date purpose w. influence	Data and Description AYABE COMMUNITY CENTER Ayabe-shi, Kyoto, Japan TADAO ANDO http://www.geocities.ws/arquique/ando/grandes/atac02.jpg 1993-1995 utility material	references		to science /	sport-recreation	transportation	science	therapy	\rightarrow	decoration	tech. and ecology	on land	on the shore	over	floating	under the water	technical challenge	engineering bldg.	residential		office and industry	implemented	experiment

235	Data and Description																			Г	П		Т
object	WATER DWELLING	1		ļ,													Ф	ığ.	ı		stry		
location	Amsterdam, Netherlands	es	ces	ref. to science / env	_						Sg			located over water		_	technical challenge	engineering bldg.		l.	office and industry	٥	
author	MARLIES ROHMER	oue.	ren	Ge/	ation	ou					SCO	9	ַ	ĕ		vate	hall	ring	<u>a</u>	ĺ∰.	β	aute	
illustration	https://assets-prod.lhsenv.com/images/gallery/8601439-00.png	references	cultural references	cien	sport-recreation	transportation			_	ig .	tech. and ecology	on land		ŏ		under the water	ac	nee	residential	public utility	ear	implemented	concept
creation date	design 2001-2003	اعاد	ıral	to s	t-re	ods	science	therapy	material	decoration	ر. اع	on land		ated .	floating	ler t	nic	engi	esic	gnc	offic	ld l	ő
purpose	residential	formal	cult	ref.	sboı	tran	scie	ther	mai	g	Tecl	G 8	5 .	<u>ö</u>	lloa	oun	tec		1	_			Ť
w. influence	environment	_		Ē	,		0,	_											П				T
relation to w.	floating on the water														1				\neg				T
impl. phase	concept design												+		Ť				П				1
source	Burchard C., Flesche F. (2005) Water House. Prestel Verlag, Munich, B	erlin,	Lor	don	, Ne	w Y	ork.	pp.	66-6	7											ш		
256	Data and Description																		П				П
object	JULES' UNDERSEA LODGE																						
location	Key LARGO, Florida, USA			. ≥										_			<u>o</u>	gg.	ı		stry		
author	IAN KOBLICK, NEIL MONNEY	Ses	cultural references	ref. to science / env	_						ogo		ŀ	located over water		ē	technical challenge	engineering bldg.	ı	_	office and industry	<u>д</u>	
	http://www.unusualhotelsoftheworld.com/Images/Hotels/Big/JulesUnders	ren	erer	nce	atio	ion				_	900	Ş	2	e.		wat	shal	erin	<u>ia</u>	l≝	pu	eut	اب
illustration	eaLodge633819489266028817_big.jpg	efe.	ref	ciel	cre	rtat			_	tion .	g .	۶ ا	[]	8	_	je l	ल्ल	ine	le l	i	Se a	implemented	concept
creation date	since 1985	formal references	ural	tos	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	<u>.</u>	ate	floating	under the water	h	eng	residential	public utility	offic	imp	S
purpose	underwater hotel	form	cult	ref.	ods	tran	scie	the	ma	ĕ .	Tec	6 8	5 .	00	lg Lg	Ĕ	tec		П	1			T
w. influence	environment																		\Box				T
relation to w.	under the water															1			П	Т			T
impl. phase	implemented																		\Box			1	T
source	Burchard C., Flesche F. (2005) Water House. Prestel Verlag, Munich, B.	erlin,	Lor	don	, Ne	w Y	ork.	pp.	106-	107;				_					_	—		_	_
257	Data and Description							-											П	Г		П	
object	HYDROPOLIS																		ı				
location	Dubai, United Arab Emirates			·													Φ	.g			stry		
author	JOACHIM HAUSER	ses	ces	/ en	_						ogo		ŀ	located over water		-	technical challenge	engineering bldg.		L	office and industry	g	
	https://www.greenprophet.com/wp-content/uploads/2011/11/hydropolis-	Jue.	eren	ce	atio	on					ecologi	9	ט	ĕ.		vate	hall	ring	<u>ia</u>	public utility	Б	implemented	concept
illustration	dubai-560x396.jpg	efer	refe	cien	cre	rtati			_	tiol .	໘	on land		ŏ		he	g	inee	residential	i i	eal	eme	concept
creation date	2004-2007	a	ıral	to s	t-re	ods	nce	ару	eria	oral	tecn. and	on land	<u> </u>	ated .	ting	ert	nic	əngi	esic	la g	offic	ld l	ğ
purpose	underwater hotel	ormal references	cultural references	ref. to science / env	sport-recreation	transportation	science	therapy	material	decoration	Tecr	o l	5	ပို့ ၂	floating	under the water	tech	•	_	1		-	_
w. influence	environment	_		_	0)	-	0,			_									\neg	Ė		+	#
relation to w.	under the water and on the water									+			t	1	1	1	1		\vdash	\vdash		+	+
impl. phase	implemented									_				-		-1			\vdash			+	1
source	Burchard C., Flesche F. (2005) Water House. Prestel Verlag, Munich, B.	erlin	Lor	don	L Ne	w Y	L—I ∩rk	nn	108-	109			_	_	!	!			_		ш	_	
262		J,		1		· ·	J	PP.												Т	П		Т
object	OTTER INN																						
location	Lake Mälaren, Vasterås, Sweden	1															a)	g.			štry		
author	MIKAEL GENBERG	Se	Ses	ref. to science / env	_						<u>g</u>			ate		ايا	technical challenge	engineering bldg.			office and industry	٦	
	http://www.privateislandsonline.com/uploads/1121/image_0ea49c4c1f.jr	formal references	reno	ce/	sport-recreation	E				- -	ecology	9	D	located over water		ate	alle	ring	<u>.</u>	l∰.	dir	implemented	
illustration	g	efer	refe	ien	crea	tatic			_	uo.	◙	غ ا		ove		<u>ş</u>	ᇹ	eeu	residential	i d	e an	ame	ebī
creation date	2000	<u>=</u>	<u>la</u>	o sc	i-re	transportation	ခွ	φb	eria	decoration	tecn. and	on land		ted .	floating	=	nic	ingi	Sic	public utility	ffice	nple :	concept
purpose		1 =		Ι	5	ans	science	therapy	materia	ŭ -	5	= =	3	ו ש							0	= +	4
parpo	Itioating summer house with underwater observatory	or	불	e l	ا ۾					원1.	ē	515	5 I.	8	9	nude	je j	Э					
w influence	floating summer house with underwater observatory utility functions, environment	for	cultural references	ref	sb		0,	_		g .	ē	<u> </u>	5 .	8 ;	eo Llos	under the water	tec	Э	1			\dashv	+
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287	Data and Description																						
object	AKASHI KAIKYO BRIDGE	-																					
location	Akashi, Japan	1		١.													0	g.			štr		
author	HONSHU SHIKOKU BRIDGE AUTHORITY	Se	Ses	e	_						g			ate			s nge	plq			snpu	٦	
dunor	http://www.nssmc.com/en/product/use/case/bridge/images/akashi_ph01.	enc	ren	ce/	tion	'n					colc		Ф	N.		vate	nalle	ring	<u>a</u>	tility	ğ	ute	40
illustration	ipa	formal references	cultural references	ref. to science / env.	sport-recreation	transportation			_	ion	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	evneept
creation date	1989-1999	a	ıral	O SC	t-re	spor	science	therapy	material	decoration	. ar	on land	he s	ited	floating	ert	nic	əngi	esic	lqno)ffic	ā ļ	
purpose	hanging bridge	or m	l ft	ef. t	por	rans	cier	hera	mat	dec	tech	no B	on t	loca	float	pun	tech	1	_		0	.= 0	
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290	Data and Description											- 1		I									Т
object	GREAT BELT LINK	-		١														4			Ę		
location	between the islands of Funen and Zealand, Denmark	တ္ဆ	es	en							g			ter		,	nge	plq			snp	_	
author	DISSIN+WEITLING	formal references	cultural references	ref. to science / env.	tion	Ē					tech. and ecology		an l	located over water		under the water	technical challenge	engineering bldg.	a	lity	office and industry	implemented	4
	https://www.storebaelt.dk/files/inline-images/luftfoto-oestbro.jpg	fere	efer	ienc	sport-recreation	transportation				e l	д ес		on the shore	ove.		e ×	ıl ch	eer	residential	public utility	au	impleme	evneept
illustration	1991-1998	a le	al	SC	-rec	port	99	ру	rial	decoration	an	힏	e s	ed	пg	티	nica	Jgin	side	Jplic	ije		
creation date		E E	lt.	آ ۔	oort-	ans	science	therapy	material	600	Sch.	on land	무	cat	floating	nde	echr	ชั 1	ē	ď	ð	.⊑ ≥	3 6
purpose	cable-stayed bridge	9	ಠ	<u> </u>	sk	tra	SC	th	_	ס	#	_	0		=	_	te	1				_	-
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source	Perino A. S., Faraggiana G. (2004) Bridges. White Star, Italy., pp. 126-13	31																					
291	Data and Description											7											
object	ØRESUND BRIDGE		1,0	≥										_			Эe	g.			ıstı		
location	Øresund Strait, Denmark-Sweden	ces	cultural references	ref. to science / env.	Ľ						tech. and ecology			located over water		ē	technical challenge	engineering bldg.		-	office and industry	eq	
author	GEORG ROTNE	ren	erer	Se	atio	ion				_	9		e l	erv		wat	shal	erin	tial	ıtilt	p	implemented	avneriment
illustration	http://tenspeedhero.com/wp-content/uploads/Bridge 3.jpg	.efe	refe	ciel	cre	rtat			_	tion	pu	_	shc	8	_	the	al c	ine	den	lic	e a		ri l
creation date	1995-2000	formal references	ural	100	sport-recreation	transportation	science	therapy	material	decoration	h.	on land	on the shore	atec	floating	under the water	hnic	eng	residential	public utility	offic	impleme	3 3
purpose	bridge with truss structure	form	cift	ē.	ods	tran	scie	ther	ma	dec	tec	e l	o	8	100	ŭ	tec	1					
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source	Perino A. S., Faraggiana G. (2004) Bridges. White Star, Italy., pp. 132-13	DE. h		//40.00		dho	ro c	om/	wn-d	cont	ent/i	ınlo	ads/	/Brid	امما	2:5	_			4.5			
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293		55, 11	nttp:/		spee	une	10.0					ДРІО			ige_				.20		stry		
293 object	Data and Description ERASMUS BRIDGE					une	.0.0					аріо									ıdustry	9	
293 object location	Data and Description						.0.0					аріо									nd industry	nted	tuo.
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293 object location author illustration creation date	Data and Description ERASMUS BRIDGE Rotterdam, Netherlands BEN VAN NERKEL http://broer.no/bro/b/b4 2.jpg 1994-1996					ation								over water				engineering bldg.			office and industry	implemented	evneriment
293 object location author illustration creation date purpose	Data and Description ERASMUS BRIDGE Rotterdam, Netherlands BEN VAN NERKEL http://broer.no/bro/b/b4_2.jpg 1994-1996 cable-stayed bridge	formal references	cultural references	ref. to science / env.	sport-recreation	ation					tech. and ecology	on land		over water			technical challenge				office and industry	implemented	evneriment
293 object location author illustration creation date purpose w. influence	Data and Description ERASMUS BRIDGE Rotterdam, Netherlands BEN VAN NERKEL http://broer.no/bro/b/b4 2.jpg 1994-1996 cable-stayed bridge technical challenge					ation								over water			technical challenge	engineering bldg.			office and industry	implemented	avperiment
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purpose recreation, utility, diving pool	author		ren	ere	nce	atic	tion				_	900	5	2 3	Į.	6/4/	S C	erin	ıtia	rtiii.	gug	neu	ا پ	men
purpose recreation, utility, diving pool	illustration		refe	ref	scie	ecre	ırtai	_ n		<u>a</u>	atio.	and	ج اع	5 6	5	2 4		jipe	ider	Sic	99	len	Joep	erir
purpose recreation, utility, diving pool	creation date		nal	ura	t 0	Ĭ	JSbc	3nc	rap	ateri	00 .	J.	an	1 6	atin	100	in in	e	res	puk	offi	Ë	8	exp
w. influence environment, utility functions 1 1	purpose	recreation, utility, diving pool	forr	cult	ref.	spc	trar	SCik	the	E .	g .	te	o g	5 5	3 5	2 2	F 5		T	1			T	
impl. phase implemented 1	w. influence	environment, utility functions																						
	relation to w.	under the water, on land											1	T			1							
source http://www.nemo33.com		in a large and a d						П						Т	\top	Т	7	\top	T			1	T	
	impl. phase	Implemented					L	LI	_ !				_ ,							L	_ i	_ '		

305	Data and Description																				П		Т	
object	Y-40	-																						
location	Montegrotto, Padova, Italy	1		١.														<u>.</u> ا			2			
author	no data	S	Se	env.							ЭŚ			ter			ηge	l Sp Sp Sp Sp Sp Sp Sp Sp Sp Sp Sp Sp Sp			dust			
adirior		nce	enc	, e	<u>.</u>	_					olo			. wa		ater	alle	gu		₹	i.	tec		ţ
:!!	https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTtoyPeYM- pt_RIKi4CPPRQIdORXkrSTkFXtV_tD7j2oE_PGhC9Mw	formal references	cultural references	ref. to science / env	sport-recreation	transportation				اج	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	ğ	experiment
illustration	2014	l re	alre	sci	rec	ort	8	б	rial	decoration	and	pq	e s	ed o	ng	r th	ica	ligi	side	lä	fice	ple	concept	(per
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purpose	recreation, utility, diving pool	Q.	ರ	e_	_	Ę	S	‡	_	O	te	0	0	2	ŧ	ח	#			1			4	
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relation to w.	under the water, on land											1				1					Ш		4	
impl. phase	implemented																					1	Щ	
source	https://www.y-40.com/en/																				Ш		4	
306	-	4																						
object	ENNEÜS HEERMABRUG																	l			2			
location	Amsterdam, Netherlands	S	Se	en.							λ£			ter			ge	ಠ			dust			
author	NICHOLAS GRIMSHAW&PARTNERS LTD	formal references	cultural references	ref. to science / env	8	_					tech. and ecology			located over water		ater	technical challenge	engineering bldg.	_	. <u>≥</u> .	office and industry	implemented		t
	http://upload.wikimedia.org/wikipedia/commons/d/dd/Enneus-	erel	fere) ie	sport-recreation	transportation				ے	l ec		on the shore	ver		under the water	ਨੁੰ	ĕ	residential	public utility	anc	nen	Ħ	experiment
illustration	heermabrug.jpg	ref	e le	SCi	.e.cr	orts	e)	×	<u>a</u> .	decoration	anc	Þ	s	o p	g	the	ical	gine	side	plic	<u>8</u>	pler	concept	peri
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purpose	bridge	for	lno	ref	gs	tra	SCi	the	Ĕ	qe	te	or	o	ŏ	flc	n	ţ	1						
w. influence	challenge																							
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source	Bukowy C. (2002) Na mosty Bednarski. praMOnSTrum w Amsterdamio	e. [w] Lo	egle	rR.	(re	d) A	rchi	tektı	ura 8	& Biz	znes	nr ()6. I	Krak	ów								
307	Data and Description																							
object	KOTLARSKI BRIDGE																				_			
location	Cracow, Poland		w	≥										F			ge	ġ			ıstr			
author	Witold Gawłowski STUDIO ARCHI 5	ses	cultural references	/ env	ے ا						tech. and ecology			located over water		er	technical challenge	engineering bldg.		_	office and industry	pe		_
	http://images.photo.bikestats.eu/zdjecie,600,76641,20091104,bridge-	formal references	erer	ref. to science /	sport-recreation	on				_	oce		ē	er v		under the water	hal	j.	tial	public utility	ndi	implemented	_	experiment
illustration	kotlarski.jpg	efe	refe	cie	cre	transportation			_	decoration	pq (_	on the shore	l ov	_	he	g	ine	residential	<u>i</u>	ë	em	concept	erin
creation date	October 2000 - December 2001	alr	ıral	tos	t-re	ods	science	therapy	material	ora	n. a	on land	je j	atec	floating	ler t	inc	Bue	esi	g	offic	mp	ğ	dxe
purpose	bridge	orn	H	ef.	Ιοd	ran	Scie	her	mai	gec	tecl	on	e E	loc	floa	oun	tecl	1	_	Ι-			Ť	Ť
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source	Motak M. (2002) Nowe mosty w Krakowie.[w] Loegler R. (red) Architektu	ra &	Riz	100	l or∩	6 K	rakó	/w/.											<u> </u>		ш	_'	_	
309	Data and Description	u u	D121			U. 1	I	vv,																
object	ŚWIĘTOKRZYSKI BRIDGE																							
location	Warsaw, Poland	-		١.														<u>.</u> ا			Ę			
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author	•	rmal references	cultural references	e /	o o	_	science				tech. and ecology		_	located over water		under the water	technical challenge	engineering bldg.	_	.≩	office and industry	implemented		Ħ
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illustration	Most_%C5%9Awi%C4%99tokrzyski - panoramio - Mister_No.jpg	Lef	al re	SCi	Je C	orte	e e	>	<u>a</u> .	decoration	anc	Þ	a s	o pe	ρc	r the	ical	ği	side	l Sign	<u>8</u>	ble	concept	ber
creation date	September 1998 - October 2000	ma	tur	유.	Ę	nsp	enc	ırap	material	οğ	ch.	on land	Ĕ	cate	atir	ıqeι	chn	eu	ě	nd	Jo	Ë	8	ě
purpose	cable-stayed bridge	for	กู	ref	g	tra	SC	the	Ε	ğ	te	o	ō	0	flc	n	te.	1						
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source	Pulkkinenem, współprojektantem warszawskiej przeprawy., rozmowę prz																							
310	Data and Description	Ė				Ė	Ĺ	Ť			Ì													
object	MILLAU VIADUCT																							
location	France			≥										_			ge	ģ			stry			
author	SETRA, FOSTER&PARTNERS	ses	ces	/ env	_						ogy			water		J.	eng	gbld g		_	ngu	찟		
	http://s2.flog.pl/media/foto/kamlot_3cb79e24b407508715c1ebfc9fc6d51	references	cultural references	Jce	sport-recreation	ion					ecology		<u>e</u>	er v		under the water	technical challen	engineering	tial	public utility	office and industry	implemented	_	Jeni
illustration	9.jpg	efe	refe	science	cre	rtatı			_	tion		_	shore	0		he	alc	inee	den	ii L	e a	lem	cep	erin
creation date	2001-2004	la r	ıral	to s	t-re	transportation	science	therapy	materia	decoration	tech. and	on land	on the	located over	floating	ler t	Juic	-Bue	residential	qnc	offic	du	concept	experiment
purpose	viaduct	formal	ultr	ref. t	ροί	rans	cie	hera	mat	dec	tecl	on I	on t	loce	floa	nuq	tech	1	-	_			-	
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source	E.P. (red) Architektura murator nr 06. Warszawa;																							

317	Data and Description																						П	
object	RENOVATION OF A MANOR HOUSE ON MAJORCA																							
location	Majorca, Spain																							
author	B.B.&W ESTUDIO DE ARQUITECTURA, SERGI BASTIDAS, WOLF SIEGFRIED WAGNER	-	S	nv.							У			er			ge	ldg.			ustry			
	http://bastidasarchitecture.com/es/proyecto/479/destacados/codigo-ba- 14-reforma-y-rehabilitacion-posesion-mallorquina-zona-pla-de-	formal references	cultural references	ref. to science / env	sport-recreation	tion				_	tech. and ecology		ore	located over water		under the water	technical challenge	engineering bldg.	ıtial	public utility	office and industry	implemented	±	experiment
illustration	mallorca.html	refe	l ref	scie	ecre	transportation	Ф	>	<u>ia</u>	decoration	and	g	on the shore	6 p	g	the	cal	gine	residential	blic ı	ice a	plem	concept	perir
creation date	1996	mal	Itura	9	ort-r	nsp	science	therapy	material	000	ch.	on land	the	cate	floating	der	chni	euí		pn	off	Ē	8	ex
purpose	residential, pool	for	l I	ref		tra	sci	the	Ê	ə	te	ō	Б	ŏ	₽	5	ţ		1				Ш	
w. influence	utility functions				1																		4	
relation to w.	on land											1										_	4	
impl. phase	implemented	17.1																				1	Ш	
source 327	Feierabend P. (2003) Pools. Feierabend Verlag OHG. Berlin., pp.28-31, Data and Description	1/4					-					-											\neg	_
object	Pool	-		Į.														Э.			try			
location	Marseille, France	SS	ses	ref. to science / env.							gy			ater		L	technical challenge	engineering bldg.			office and industry	٦ ا		
author	RUDY RICCIOTTI	formal references	rend	ce/	ation	uc					tech. and ecology		e	located over water		under the water	halle	ring	<u>a</u>	tility	ni br	implemented		ent
illustration	http://design-flute.com/wp-content/uploads/2007/08/rudi-ricciotti2.gif	efer	refe	cien	crea	transportation			_	tion	nd e	_	on the shore	ove.		hev	alc	nee	residential	public utility	e ar	eme	concept	experiment
creation date	1998	عاد	ral	to s	rt-re	spo	nce	ару	material	decoration	h. aı	on land	the	ated	floating	ler t	hnic	engi	resid	qnd	offic	ᇤ	Son	dxe
purpose	pool	form	cultural references	ref.	sport-recreation	tran	science	therapy	mai	gec	tecl	o	o	000	floa	n	tecl	•	1	_	Ŭ		Ť	Ť
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relation to w.	on land											1												
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source	Feierabend P. (2003) Pools. Feierabend Verlag OHG. Berlin., pp.68-71,	174;	htt	p://v	ww	.rudy	/ricc	iotti.	con	n/ma	aiso	ns-p	artic	ulie	res/	mar	seill	e#!2						
338	Data and Description																							
object	CASA NA XEMENA																				λ			
location	Ibiza, Spain		SS	Š.							<u>></u>			e			ge	oldg.			ustr			
author	RAMON ESTEVE) Se	nce	e/e	ou	_					olog			wat		ater	allen	ng þ	_	ity	l ind	ted		Ħ
	https://www.ramonesteve.com/en/pro/architecture-en/residential/na-	formal references	cultural references	ref. to science / env.	sport-recreation	transportation				۲ ا	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	t b	experiment
illustration	xemena-house/	ref	al re	scie	recr	orte	é	>	<u>la</u>	decoration	anc	ا ج	e sh	o p	б	rthe	ical	gine	side	blic	ice	pler	concept	peri
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342	Data and Description	-XCII	ICIIC	, 																			П	
object	HOTEL CARAVAN SERAI	1																						
location	Marrakech, Morocco		,,	≥.							,			_			ge .	dg.			ıstry			
author	CHARLES BOCCARA	ces	ferences	ence / env	u						ecology			located over water		ē	challenge	engineering bldg.		У	office and industry	ed		_
		erences	ere	nce	atic	transportation				_	есо		ore	/er/		wat	chal	erin	residential	utility	pur	implemented	<u>_</u>	iment
illustration	http://blog.blanee.com/wp-content/uploads/2010/12/Caravan-Serai-2.jpg	refe	l ref	scie	ecre	ortat	a)	_	<u>a</u>	decoration		٦	shc	φ	g	the	cal	gine	ider	public ı	ce s	Jer	concept	experir
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purpose	utility, pool	_ ⊢	12						~ 1		77	_			a	ae	동	enç	2	7				
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351	Data and Description					T T	Г	Ι											$\overline{}$	\top	\top	$\overline{}$		T
object	Pool	+															0	, 6			2	r i		
location	La Cadière d'Azur, France	es	Ses	ref. to science / env	_						g			located over water		_	technical challenge	engineering bldg.			office and industry	م ا		
author	RUDY RICCIOTI	formal references	cultural references	ce/	sport-recreation	ڃ					tech. and ecology		Ф	r w		under the water	alle	ling	<u>=</u>	public utility	٠ <u>٠</u>	implemented		ent
illustration	https://rudvricciotti.com/proiet/la-cadiere-dazur#!/rudvricciotti.com/wp	efer	refe	ien	crea	transportation				ion	g e		on the shore	ove		υеν	등	lee	residential	l S	ם מ	eme	concept	experiment
creation date	1999	alre	<u>la</u>	o sc	-re	pod	science	ğ	material	decoration	a a	pue	Je s	ted	ing	ər th	nic	igi	esid	ilqn	i ii	nple	- S	XDe
purpose	pool	Ē	ultu	ef. t	род	ans	cier	therapy	mate	Jeco	ech	on land	n #	oca	floating	pur	ech	0	1	_	- 0) <u>.=</u>	10	Φ
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	implemented											_						\vdash	+-	+	+	+,	+	+
impl. phase	-	2 17	7.5																L	丄	Ш	1		
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	TAGOMAGO VILLA																							
object	Ibiza, Spain	-																						
location	CARLOS FERRATER & JOAN GUIBERNAU	-		١.														١.			2	<u>^</u>		
author		S	9S	env.							≥			ter			ge	g			1	5		
illustration	http://wp.ferrater.com/?oab_proyecto=casa-tagomago&idioma=_en#; http://wp.ferrater.com/wp- content/uploads/2013/02/P_VU_TAGOMAGO_F03-1200x806.jpg	formal references	cultural references	ref. to science / e	sport-recreation	transportation			_	decoration	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
creation date	1999-2001	a	ıral	00	t-re	sbo	nce	ab	eria	ora	ر. ه	anc	he	ated	ting	er t	lic.	l gu	esi	g	, ij	, ldm	١ <u>ĕ</u>	ďX
purpose	pool		H	ef. 1	ρğ	rans	science	therapy	material	qec	tect	on land	on t	loce	floating	pun	tech	٣	1	_	+	<u> </u>	╁	۲
w. influence	utility functions, material, decoration	<u>-</u>	0	-	1	-	0)	7	1	1	_		Ť		_		F		Η.	+	+	+		\vdash
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impl. phase	implemented																	H	\vdash	+	+	1	+	╁
source	Feierabend P. (2003) Pools. Feierabend Verlag OHG. Berlin., pp.166-16	9 17	75			ļ																	_	_
356	Data and Description	J, 17	Ĭ																Т	Т	\top			
object	THE PARK ON THE SOMME AT AMIENS	-																١.			2	_		
location	Amiens, France	- (SS	5							_			e			ge	용			Į.	ś		
author	JAQUELINE OSTY	See	nce) e	٦	_					g			wat		ter	llen	l gc	1_	≥	٠ ا	ted		=
		formal references	cultural references	ref. to science / env	sport-recreation	transportation				ڃ	tech. and ecology		ore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	Į t	experiment
illustration creation date	http://www.osty.fr/projects/4637362#22 1992-1994	al ref	ralre	sci	-rec	port	science	by	material	decoration	anc.	put	on the shore	ted c	floating	ır th	nica	ligi	side	lgi	fig.	nple	concept	xper
	recreation, park	Ĕ	릒	£	oort	ans	ien	therapy	nate	jecc	ech	on land	± L	ocat	loat	pur	ech	Φ	=	\neg) .⊆	ŏ	0
purpose	•	5	ಠ	2	ß	₽	Š	ŧ	_	0		0	0	ľ	Ψ.	_	÷	H	┾	1	1	+	+	+
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impl. phase	implemented																		L	上	\perp	1		
source	Osty J. (2002) Park an der Somme, Amines. [w] Wasser, Water Shafer F	₹ (red	d), T	opo	s C	allev	vay,	Birk	hau	ser.	Mui	nche	n-B	ase	l-Bo	stor	1-Be	erlin.	.;					
	http://www.osty.fr/projects/4637362#22, 05.02.2015.	(_	_	_	\neg		_
358	Data and Description	1																Г	Τ	Τ	Τ			
358 object	Data and Description OPEN SPACE AT UNI-BANK																		Γ	T	T >			
358	Data and Description		Š	nv.							>			er				ldg.	T	T	listry	, non		
358 object location author	Data and Description OPEN SPACE AT UNI-BANK Copenhagen, Denmark HENNING LARSENS TEGNESTUE, SVEN-INGVAR ANDERSSON		ferences	ence / env.	eation	ıtion				۵	ecology		ore	ver water		water		ering bldg.	ntial	utility	and industry	nented	pt	ment
358 object location	Data and Description OPEN SPACE AT UNI-BANK Copenhagen, Denmark HENNING LARSENS TEGNESTUE, SVEN-INGVAR ANDERSSON http://manchesterhistory.net/architecture/2000/nordea7.jpg		il references	science / env.	ecreation	ortation	Ф	^	ial	ation	and ecology	pı	shore	d over water	ıg	the water		gineering bldg.	sidential	blic utility	ice and industry	plemented	ncept	periment
358 object location author	Data and Description OPEN SPACE AT UNI-BANK Copenhagen, Denmark HENNING LARSENS TEGNESTUE, SVEN-INGVAR ANDERSSON http://manchesterhistory.net/architecture/2000/nordea7.jpg 2000	nal references	tural references	. to science / env.	ort-recreation	nsportation	ence	rapy	aterial	scoration	ch. and ecology	ı land	the shore	cated over water	ating	ider the water		engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
358 object location author illustration	Data and Description OPEN SPACE AT UNI-BANK Copenhagen, Denmark HENNING LARSENS TEGNESTUE, SVEN-INGVAR ANDERSSON http://manchesterhistory.net/architecture/2000/nordea7.jpg		cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water		engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
358 object location author illustration creation date	Data and Description OPEN SPACE AT UNI-BANK Copenhagen, Denmark HENNING LARSENS TEGNESTUE, SVEN-INGVAR ANDERSSON http://manchesterhistory.net/architecture/2000/nordea7.jpg 2000	nal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	1 decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water		engineering bldg.	residential	public utility	Office and industry	implemented	concept	experiment
358 object location author illustration creation date purpose	Data and Description OPEN SPACE AT UNI-BANK Copenhagen, Denmark HENNING LARSENS TEGNESTUE, SVEN-INGVAR ANDERSSON http://manchesterhistory.net/architecture/2000/nordea7.jpg 2000 recreation, public square	nal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	1 decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water		engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
358 object location author illustration creation date purpose w. influence	Data and Description OPEN SPACE AT UNI-BANK Copenhagen, Denmark HENNING LARSENS TEGNESTUE, SVEN-INGVAR ANDERSSON http://manchesterhistory.net/architecture/2000/nordea7.jpg 2000 recreation, public square decoration	nal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	1 decoration	tech. and ecology		on the shore	located over water	floating	under the water		engineering bldg.	residential	public utility	Office and industry	implemented		experiment
author illustration creation date purpose w. influence relation to w. impl. phase source	Data and Description OPEN SPACE AT UNI-BANK Copenhagen, Denmark HENNING LARSENS TEGNESTUE, SVEN-INGVAR ANDERSSON http://manchesterhistory.net/architecture/2000/nordea7.jpg 2000 recreation, public square decoration on land implemented Sven-Ingvar A. (2002) Eine neue Uferpromenade für Christianshavn. [w] Berlin.	formal references	cult	ref.						1		1					technical challenge			1	1	1		experiment
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object location author illustration creation date purpose w. influence relation to w. impl. phase source 360 object	Data and Description OPEN SPACE AT UNI-BANK Copenhagen, Denmark HENNING LARSENS TEGNESTUE, SVEN-INGVAR ANDERSSON http://manchesterhistory.net/architecture/2000/nordea7.jpg 2000 recreation, public square decoration on land implemented Sven-Ingvar A. (2002) Eine neue Uferpromenade für Christianshavn. [w] Berlin. Data and Description WATER CRATER AT THE REGIONAL GARDEN SHOW 2000 Westphalia, Germany AGENCE TER, PARIS(HENRI BAVA, OLIVIER PHILIPPE, MICHEL HOESSLER) Z ALEXANDER BÖLK	Mag formal references	ino	, env.	ater	Sha				Торо	os C Koloob	1 allev	vvay,	Birl		user	Technical challenge	uncl	hen-	-Bas	sel-	1 Bosto	on-	ent
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361	Data and Description																							
object	LA DEHESA DEL SALER, THE COASTAL ZONE OF LA ALBUFERA																				У			
location	Valencia, Spain																	bldg.			lustr			
author	ALFRED FERNÁNDEZ DE LA REGUERA, IGNACIO SALVANS, JORDI SOLÈ																0	ing b	a	ility	office and industry	implemented		ent
illustration	http://www.via-arquitectura.net/10/10-076.htm	es	ces	en	_						Sgc			ater		Ŀ	abue	engineering	residential	public utility	e an	eme	concept	experiment
creation date	1999	renc	eren)ce/	atior	on					oloce		ē	er w		wate	halle	engi	esic	lqnc	office	mple	Sono	edxe
	recreation, including a reserve of naturally formed coastline, stopping	formal references	cultural references	ref. to science / env	sport-recreation	transportation	_	,	al	decoration	tech. and ecology	اج	on the shore	located over wate	Э	under the water	technical challenge	Ť	_	_			Ť	_
	urbanization, improving the area: new sidewalks, promenade, creation	mal	tura	5	Jr-re	usbc	science	therapy	material	cora	ch.	on land	the	ate	floating	der	chni							
purpose	of flood plains	fon	cul	ref.	sbc	traı	sci	the	ŭ	эp	tec	o	o	ŏ	tlo	n	tec			1				
w. influence	environment				1						1													
relation to w.	on land												1											
impl. phase	implemented																					1		
source 364	Fernandez de la Reguera A., Salvans I., Solé J. (2002) La Dehesa del S Calleway, Birkhauser. Munchen-Basel-Boston-Berlin.; http://www.via-arq Data and Description												w] W	lass	ser,	Wat	er S	Shafe	er R	(rec	i), To	pos	; 	
object	Square DES TERREAUX	1																						
location	Lyon, France			ļ .													a)	ğ			stry			
author	CHRISTIAN DREVET	ses	ces	/env	_						ogy			ateı		٦Ę	eng) pld			npu	g		
	https://news.artnet.com/app/news-upload/2015/08/lyon-place-terreaux-	formal references	cultural references	ref. to science /	sport-recreation	ion					tech. and ecology		e_e	located over wate		under the water	technical challenge	engineering bldg.	tial	public utility	office and industry	implemented	_	experiment
illustration	buren-1.jpg	refe	refe	scier	scre	ırtati			al	ition	pu	ᆈ	sho	y o k	Э	the	salc	inee	residential	i	зе а	lem	ceb	erin
creation date	April - December 1994	nalı	ural	tos	rt-re	transportation	science	therapy	material	decoration	d.	on land	on the shore	atec	floating	der 1	hnic	eng	resi	qnd	offic	im D	concept	exp
purpose	utility, public square	forr	cult	ref.	sbo	trar	scie	the	ma	qe	tec	on	on	loc	flo	ů	tec			1				
w. influence	decoration									1														
relation to w.	on land											1												
impl. phase	implemented																					1		
source	Drevet C. (2002) squaree des Terreaux, Lyon. [w] Wasser, Water Shafer	R.(r	red)	, Top	os	Calle	ewa	y, Bi	rkha	use	r. M	uncl	hen-	Bas	sel-E	Bosto	on-E	Berli	1					_
365	Data and Description THE SQUARE OF HUMAN RIGHTS AT EVRY	-																						
object	Evry, France	-		١													_	_			try			
location author	KATHRYN GUSTAFSON	SS	ses	/ env							g			water		L	agu	plq			snp	_		
autiloi	http://www.publishedart.com.au/images/landscape/big_movinghorizons.i	formal references	cultural references	ce/	sport-recreation	u					tech. and ecology		ø	ır wa		under the water	technical challenge	engineering bldg	al	ility	office and industry	implemented		ent
illustration	pg	efere	refe	ref. to science	crea	transportation			_	ion	o pc		on the shore	located over		ne v	al cł	nee	residential	public utility	e an	eme	concept	experiment
creation date	1991	lal re	ıral	to so	t-re	spor	science	therapy	material	decoration	J. ar	on land	the s	ated	floating	ler tl	nic	engi	esic	Iqnc	offic	d m	00 00 00 00 00 00 00 00 00 00 00 00 00	dxe
purpose	utility, public square	form	cult	ref.	sboı	tran	scie	ther	mat	gec	tec	o	o	loc	floa	nuc	tecl	Ť		1			Ť	
w. influence	decoration									1												П	\Box	
relation to w.	on land											1												
impl. phase	implemented																					1		
source	Gustafson K. (2002) Platz der Menschenrechte in Evry. [w] Wasser, Wat	er S	hafe	r R.	(red), To	pos	Cal	lewa	ay, E	3irkh	aus	er. N	Иun	che	n-Ba	sel	-Bos	ton-	Ber	lin.			
366	Data and Description																							
object	Promenade																	١.			У			
location	Barceloneta, Barcelona, Spain	S	Se	env.							25			ter			agu	oldg.			dustry			
	JAUME ARTIGUES, JORDI HENRICH, MIQUEL ROIG, OLGA TARRASO, ANNA M. CASTAÑEDA	nce	ence		ion	_					ecology		•	wa.		ater	aller	ing	-	Ξź	d inc	nted		Ħ
author	http://www.jaumeartigues.com/projectesiobres.php?id=16	fere	efer	science /	reat	atio				on	O		hore	ove		e w	ıl ch	eer	entia	c uti	ane	me	ebt	rime
creation date	1994-1995	formal references	cultural references	to sc	sport-recreation	transportation	Se	рy	ərial	decoration	tech. and	on land	on the shore	located over wate	floating	under the water	technical challen	engineering bl	residential	public utility	office and indu	implemented	concept	experiment
purpose	utility, promenade	orm;	n En	ref. to	port	ans	science	therapy	material	рэр	ech	l l	on #	oca	loat	pur	ech	Φ	2	1	0	.⊑	Ö	Φ
w. influence	environment	f	O	=	S	₽	S	Ħ			_	_	_	_	_		_			<u> </u>			\dashv	
relation to w.	waterfront												1											
impl. phase	implemented																					1		
source 368	Tullio M. C. (2002) Barceloneta: ein neuer Horizont. [w] Wasser, Water S Data and Description	hafe	er R	(red), To	opos	Ca	llew	ay, E	Birkh	naus	er. I	Mun	che	n-Ba	asel	-Bos	ston	-Ber	lin				
object	DENMARK PARK																							
location	Malmö, southern Sweden																							
author	THORBJÖRN ANDERSSON AND PEGE HILLINGE, FFNS ARCHITECTS			>										٦			е	bldg.			stry			
	https://www.archdaily.com/778062/dania-park-sweco-architects-plus-thorbjorn-andersson/565ce7f0e58ece70b6000068-dania-park-sweco-	formal references	cultural references	science / en	sport-recreation	tion				u	tech. and ecology		ore	ver wateı		under the water	technical challenge	engineering blo	ntial	public utility	office and industry	implemented	ta	experiment
illustration	architects-plus-thorbjorn-andersson-sketch	ref	al re	scie	recre	orta	ģ	ý	rial	atio	and	چ	e sh	o pe	βL	the	ical	gine	residential	plic	ice	pler	concept	peri
creation date	2001	rmal	Itura	2	ort-	transportation	science	therapy	material	decoration	ch.	on land	on the shore	located over	floating	ndei	chn	e	ě		JJO	.⊑	8	ě
purpose	recreation, entertainment park	fo	no	ref.		tre	SC	ţ	Ĕ	ð	te	ō	ō	2	¥	ā	te	L		1			_	
w. influence	utility functions, environment				1							4											4	
relation to w.	waterfront, at the water - jetties implemented				_		H					\dashv	1	1							Н		4	
impl. phase source	Persson A. (2002) Malmö rückt näher ans Meer. [w] Wasser, Water Shat	er R	(re	d) T	ono	s C:		l vav	Birk	haus	ser	Mur	nche	n-R	ase	I-B∩	ston	l 1-Re	rlin			1		
234100	. 5.555 7. (2002) maino raoni nano ano micer. [w] masser, maler ona	J: 11		∽ /, Ι	~h0	J 00	∀	.uy,	-11 IV	. iaui	JUI.	.viuí	.0110	ט	~0C		J.(U)	ى .	1					

369	Data and Description																							
object	ANCHOR PARK	1																						
location	Malmö, southern Sweden	1		\ .													е	g.			stry			
author	STIG L. ANDERSSON	es	ces	en	_						Sgc			ate		_	eng	l bld			snpc	٦		
	http://www.landezine.com/wp-content/uploads/2010/09/anchor-park-	formal references	cultural references	ref. to science / env	sport-recreation	u					tech. and ecology		ē	located over water		under the water	technical challenge	engineering bldg.	ial	public utility	office and industry	implemented		ent
illustration	malmo-stig-andersson-05.jpg	efer	refe	lei.	Cre.	transportation			_	ion	od e		on the shore	ŏ		Je	al cl	nee	residential	ic u	e ar	e l	concept	experiment
creation date	2001	ਬ	<u>ra</u>	0 80	-re	pods	science	эр	materia	decoration	. ar	on land	he	ted	floating	ert	nic	ngi	esic	Iqno	ffic	합	ő	xpe
purpose	recreation, park	e m	ult:	ef. t	Į od	rans	ciel	therapy	mat	эәр	tech	uo	on t	oca	floa	pun	tech	е	_	1	0	-	-	Ψ
w. influence	ecology, decoration	<u>+</u>	0	-	S	=	S	Ŧ		1	1	-		=	_		1			_			\dashv	
relation to w.	wharf											\dashv	1			-							_	
impl. phase	implemented			\vdash								-	-									1		-
· · ·	Andersson S. L. (2002) Der Ankar parc in Malmö. [w] Wasser, Water Sha	ofor I	D /r/	od)	L	00.0	L L		Dir	lebo	uoor	M	ınah	on I	Poor	J D	ooto	n D	orlin			-'		—
source 370		alei i	N.(10	eu),	ГОР	05 C	alle	way	, DII	KIIA	usei	. IVIU	IIICII	en-	Dast	#I-DI	0510	II-D	211111			- 1		_
	CATALUNYA PARK	-																						
object		-		١																	try			
location	Sabadell, Spain	ပ္သ	es	env.							g			ter			nge	bldç			qns	_		
author	ENRIC BATTLE, JOAN ROIG, LLUIS GIBERT	formal references	cultural references	- e	.o	_					tech. and ecology			located over water		under the water	technical challenge	engineering bldg.	_	lity	office and industry	implemented		Ħ
	http://upload.wikimedia.org/wikipedia/commons/2/21/Sabadell	fere	efer	ref. to science /	sport-recreation	transportation				LC	9		on the shore	over		δ (N	l ch	eeri	residential	public utility	anc	me	ğ	experiment
illustration	Parc_de_Catalunya.JPG	Te l	alre	SCi	<u> </u>	orts	e l	ڃ	rial	decoration	and	ᅵᄝ	e st	pe o	б	ŧΙ	ical	gin	side	oildi	fice	be	concept	per
creation date	1985-1992	ma	1	유.	늄	nsp	science	therapy	material	900	년 -	on land	ξ	cate	floating	g	chn	en	ē	ηd	ofi	.⊑	8	ě
purpose	recreation, park	for	no	<u>re</u>	gs	tra	SC	‡		ğ	ţ.	ō	ō	으	₽	5	te			1				
w. influence	utility functions, water wall, material								1															
relation to w.	on land											1												
impl. phase	implemented																					1		
source	Battle E., Roig J. (2002) Parque de Catalunya, Sabadell. [w] Wasser, Wa	ater S	Shat	fer F	R.(re	d), T	оро	s Ca	allev	vay,	Birk	hau	ser.	Mui	nche	en-B	lase	I-Bo	stor	n-Be	rlin			
372	Data and Description																							
object	PORT VELL																							
location	Barcelona, Spain																							
author	PERE MATEU, JOAN ROMERO, JOSEPH MARIA SERRA			-										_			е	g.			stry			
	https://upload.wikimedia.org/wikipedia/commons/thumb/7/7a/Port_Vell%	es	ces	, env	_ ا						ogo			ate		<u>_</u>	eng) plc			npu	٦		
	2C_Barcelona%2C_SpainJan_2007.jpg/800px-	formal references	cultural references	ref. to science /	sport-recreation	u					tech. and ecology		ഉ	located over water		under the water	technical challenge	engineering bldg	ial	public utility	office and industry	implemented		ent
illustration	Port_Vell%2C_Barcelona%2C_SpainJan_2007.jpg	efer	refe	je.) See	tati			_	ion	o pc		힏	0 O		<u>و</u> ا	al cl	nee	lent	n o	e ar	ă	ept	rim
creation date	1990-1993	a	<u>a</u>	0 8(Ę.	transportation	science	þ	material	decoration	<u>a</u>	on land	on the shore	ted	floating	er =	nic	ngi	residential	Ign	ffic	ם	concept	experiment
purpose	utility, port, promenade	J. m	를	ef. t	po l	ans	cie	therapy	mat	gec	ech	<u> </u>	n t	oca	loai	힡	ech	Ф	_	1	1	-=-	0	Ψ
w. influence	inspiration, environment, utility functions	1	0	-	S	1	S	=	_		_		-	=	_	-	_				-		-	-
relation to w.	wharf	'										\dashv	1			-								-
	implemented			\vdash								\dashv	-			-						1	-	_
impl. phase	'				<u> </u>		Щ														\coprod	- 1		_
	Battle E., Roig J., Hansjakob T. (2002) Barcelona: der wiedergewonnene	e Hor	rizor	nt. [v	v] W	asse	er, W	/ate	r Sh	afer	R.(r	ed),	Top	008	Call	ewa	ıy, B	lirkh	aus	er. N	Munc	chen	-Ba	sel-
source	Boston-Berlin				_							_												_
374	Data and Description Development of a square in front of the building	4																						
object		4																			2			
location	Zürich, Switzerland		SS	Š.							≥			ē			ge	oldg			and industry			
	GUIDO HAGER, FISCHER ARCHITEKTEN, MARCEL BARTH,	erences	luce ance	ence / env.	ا ا	_					ecolog)			wat		ĮĘ.	challenge	υg k	_	ιţλ	inc	mented		Ħ
author	RUDOLF REICHLING	ere	fere) Succession	eati	tior				u	ec		ore	ver		× ×	cha	erii	ntia	utility	and	ne	Ħ	iment
illustration	http://www.hager-ag.ch/db_data/pro/26/image1_lrg.jpg	refe	cultural references	Scie	sport-recreation	transportation	ω	>	ial	decoration	and	ᇹ	on the shore	o o	ō			engineering bldg.	residential	public	office	implen	concept	experi
creation date	1993-1994	formal ref	tura	ref. to scie	[눈	gsu	science	therapy	material	cor	tech. and	<u>a</u>	the	ate	floating	de	technical	euí	res	ınd	offi	Ĕ.	CO	ext
purpose	utility	fori	c	ref.	gg	traı	SCi	the	Ĕ	qe	ţĕ	8	9	<u>ŏ</u>	우	5	tec			1				
w. influence	ecology, material								1		1													
relation to w.	on land											1												
impl. phase	implemented																					1		
source	Hager G. (2002) Telecom in der Lehmgrube Binz, Zürich. [w] Wasser, W	ater	Sha	fer l	R.(re	ed),	Торс	os C	alle	way	, Birl	hau	ıser.	Mu	ınch	en-E	Base	el-Bo	osto	n-B	erlin			
381	Data and Description				Ė																			Т
object	WATER TEMPLE			>													Ф	g.			stry			
location	Tsuna, Hyogo, Japan	es	ces	env.	_						ygc			water		١	technical challenge	engineering bldg			office and industry	٦		
author	TADAO ANDO	references	cultural references	ce	sport-recreation	uc					tech. and ecology		e e	N N		under the water	hall	ring	<u>a</u>	public utility	i br	implemented		ent
illustration	https://en.wikiarquitectura.com/building/water-temple/	əfer	refe	science	Srea	tati				ion	o pc		Shoi	OVE.		Je v	al c	nee	dent	ic n	e ar	eme	èpt	rim
creation date	1990-1991	3 FE	ral	os c	-re	transportation	ခွ	ğ	eria.	decoration	a.	on land	on the shore	located over	floating	# 16	nic	ngii	residential	ildn	ffice	Jpk	concept	experiment
	utility	formal	ultu	ref. to	port	ans	science	therapy	material	pec	ech	[일	n t	oca	loat	pur	ech	ө	2	<u>م</u> 1	0	·=	O	Φ
purpose	inspiration, ecology	ţ2	-	ī.	S	Ħ	Ñ	÷	_	J		٦	J	_	+	٦	ţ			1	Н		4	
	Imphianon, coology		1		I	1					1													
w. influence	on land											البر									1			
relation to w.	on land											1										4	4	
	on land implemented											1										1		

382	Data and Description											T							П			\top	
object	STUDLEY PARK HOUSE	1																					
location	Kew VIC, Australia	1																					
author	INARC ARCHITECTS PTY LTD: RENO RIZZO, CHRISTOPHER HANSSON; ROBERT BOYLE	ses	seou	/ env.	ڍ						logy			vater		er	lenge	engineering bldg.		^	office and industry	pa	
illustration	http://dynamic.architecture.com.au/awards_search?option=showaward&entryno=20053027	formal references	cultural references	ref. to science / env	sport-recreation	transportation				ion	tech. and ecology		on the shore	located over water		under the water	technical challenge	neerin	residential	public utility	and	implemented	concept
creation date	2005	ᆲ	la L) SC	i-re	por	ce	ğ	ərial	orati	an an	gu	s ac	ted	ing	ar th	nica	ngi	esid	돃	tice.	ğ	2 S
purpose	residential, pools, pool	- iii	ultu	ef. te	род	ans	science	therapy	material	decoration	ech	on land	n #	oca	floating	pur	ech:	Φ	1	<u>a</u>	0 .	=+	3 0
w. influence	environment	₩	O	2	<u>σ</u>	=	S	=	_		1	\dashv		_	_	_			-		+	+	+
relation to w.	on land				<u>'</u>						-	1							\dashv		+	-	
impl. phase	implemented	+										∸							\dashv		+	1	+
source	Crafti S. (2005) H ₂ 0 architecture. The Images Publishing. Australia., pp. 3	30.3	F.									I											
389	Data and Description	30-3	J,																\neg			\top	\top
object	Residential house	+																					
location	Nesidentiai nouse	-																4			Ę		
author	MARTINE SECCULL ARCHITECTS	- s	ses	en							g			ater		L	nge	engineering bldg.			office and industry	_	
autrioi	http://members.optusnet.com.au/valkovadesign/images/other/other01.jp	- Juc	enc	, e	ţi	⊆					900		m	Z WS		ate	alle	ing	<u>_</u>	£	□	implemented	in the
illustration	nttp://members.optusnet.com.au/vaikovadesign/images/otner/otnero r.jp	fere	efer	ien	rea	atic				on	d e		hore	ove		ě	ıl ch	eer	residential	public utility	au	g 1	concept
creation date	<u>z</u>	무	a	SC	-rec	port	g	à	ərial	rati	an.	g	s ət	ted	ing	er th	nica	ngir	sid	훀	ije	희	ž š
purpose	residential, pool	formal references	cultural references	ref. to science / env	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	Φ	1	۵	0 .	=+	5 Ø
w. influence	utility functions, material	12	Ö	2	1	±	Š	÷	1	0	-	-	-	-	f	_	ţ		-	\dashv	+	+	+
relation to w.	on land	-			<u>'</u>				1			1							\dashv		-	+	+
	implemented			-								-4							\dashv	-	+	+	+
impl. phase	·																					1	
source 396	Crafti S. (2005) H ₂ 0 architecture. The Images Publishing. Australia., pp. 1 Data and Description	04-6																					
object	BEACH HOUSES																						
location	New Zealand, Australia		,,	≥							_			_			Эe	ġ			ıstr)		
author	HULENA BRENT	ses	See	/er	ءِ						log			vate		e	lenç	g p		_	pg	8	
illustration	http://www.hulena.com/photos/large/newsite/0602760001321811488.jpg	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	e	λ	ial	decoration	tech. and ecology	þ	on the shore	located over water	gı	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	Implemented	concept
creation date		mal	tura	유.	급	nsp	science	therapy	material	cor	ch.	on land	t t	cate	floating	der	chn	e	-	В	ijo .	<u> </u>	3 8
purpose	residential, pool	for	ਹ	ref	g	tra	sci	‡	Ē	ф	te	ō	ō	ō	flc	'n	te		1			4	
w. influence	utility functions, environment, material	1			1				1														
relation to w.	wharf												1									4	
impl. phase	implemented																					1	
source	Crafti S. (2005) H ₂ 0 architecture. The Images Publishing. Australia., pp. 9	94-9	9; h	ttp:/	/ww	w.hı	ulena	a.co	m/in	ndex	.php	/pi_	pag	eid/'	15/p	i_ca	atego	oryid	/24/	pi_p	roje	ctid/4	41
403	Data and Description																						
object	BRIGHTON HOUSE																						
location	Brighton, Victoria, Australia		,,	≥							_			±			Эe	g.			lstr)		
author	MCGAURAN GIANNINI SOON PTY LTD	ces)Ce	/e	ڃ						log)			vate		ē	len	g bl		>	ind	ē	_
illustration	http://dynamic.architecture.com.au/awards_search?option=showaward&entryno=19993007	eferences	references	cience / env	sport-recreation	transportation			al	tion	tech. and ecology		shore	located over water		the water	technical challenge	engineering bldg.	residential	public utility	e and	lemented	cept
creation date	1999		ıral		ţ.	sbo	nce	ab	teri	decoration	۵.۲	auc	on the	ate	floating	er 1	nic	eng	esi	gnc	jjj	dw	col exp
purpose	residential, pool	formal	cultural	ref. to	sboi	tran	science	therapy	materia	dec	tecl	on land	on	000	floa	under	tecl		1			7	
w. influence	decoration		Ť		1					1									\exists		\exists		
relation to w.	on land											1							T		T	T	
impl. phase	implemented											_							寸		\dashv	1	+
	Crafti S. (2005) H ₂ 0 architecture. The Images Publishing. Australia., pp.					^=																	
source	http://dynamic.architecture.com.au/awards_search?option=showaward&	entry	yno=	199	930	07														- 1	_	_	
415	Data and Description BERKELEY DOBSON HOUSE	4																					
object		4		١.																	2		
location	south Melbourne, Victoria, Australia	S	Se	env.							25			ter			nge	bldg.			gnst .		
author	COY-YIONTIS ARCHITECTS	nce	ence		ю	٦					olog		4	wa		ater	alle	ng	_	<u>:</u>	ĭ Į	lec	nt
illustratio -	http://www.cyarchitects.com.au/projects/residential/berkeley-dobson-	fere	əfer	enc	reat	atio				uc	d ec		hore	ove		e Ķ	l ch	eeri	enti	Ħ	an	i me	ine
illustration	house/	formal references	cultural references	ref. to science /	sport-recreation	transportation	e	λc	rial	decoration	tech. and ecology	힏	on the shore	located over water	ng	under the water	technical challenge	engineering	residential	public utility	office and industry	Implemented	concept
creation date	2004	rma	Iltur	f. tc	й	ansp	science	therapy	material	өсо	ech.	on land	n th	cat	floating	nde	echr	ē	-	ಠ	ō .	=	ၖ စိ
purpose	residential, pool	Q Q	ر د	-E	ş	ţŗ	SC	£	_		tέ	0	0	2	ŧ	ב	tε		1	_	+	4	4
w. influence	decoration									1									4	_	\dashv	4	+
relation to w.	on land											1							4		\dashv	4	4
impl. phase	implemented	101	100		<u></u>			1.2	Ţ								n		ᆜ		<u> </u>	1	Ш,
source	Crafti S. (2005) H ₂ 0 architecture. The Images Publishing. Australia., pp.	-44ا	189	, nttp)://W	/WW.	cyar	cnite	ects	.cor	n.au	/pro	jects	s/res	side	ntıal	/ber	Kele	y-do	OSO	л-no	use/	

421	Data and Description																							
object	Promenade MARÍTIMO DE GAVÁ	┨		١.														١.			try			
location	between Riera dels Canyara and Calle de Sitges, Spain	SS	ses	ref. to science / env							gy			ater			technical challenge	engineering bldg.			office and industry	_		
author	IMMA JANSANA, BETH FIGURES, FRANCESC GIRÓ	- Se	enc	e /	ţion	_					olo		a)	r wa		ater	alle	ing	a	lity	d in	ntec		ĭ
	http://www.gavamar.com/DOCS/historia/passeig maritim 01.jpg	fere	efer	ien	rea	atio				on	р		hore	ove		e w	l ch	eer	enti	c uti	an	me	ebt	rime
illustration creation date	1992/1993	formal references	cultural references	SC	sport-recreation	transportation	ce	by	erial	decoration	tech. and ecology	gu	on the shore	located over water	ing	under the water	nica	ngin	residential	public utility	ffice	implemented	concept	experiment
	recreation, promenade	Ę	la Hr	ř.	Sort	ans	science	therapy	material	lecc	ech	on land	h t	ocat	floating	pur	- Hoe	Ф	E.	<u>d</u>	O	.⊑	ŏ	Ø
purpose	1	2	ಠ	12	S	₽	ŭ	÷	_	0	1	-	-	<u> </u>	ŧ	٦	=			1		\dashv	\dashv	_
w. influence	environment, eco-technological on land			-							1											-	\dashv	
relation to w.	implemented		-	-									1									_	\dashv	
impl. phase	'	!	Ļ	<u> </u>			L.,	L .		ب			Ų.				Ļ	<u></u>			\square	. 1	ᆜ	_
0011200	Battle E., Roig J., Hansjakob T. (2002) Barcelona: der wiedergewonnene Boston-Berlin.	е но	rizoi	nt. Įv	vj vv	ass	er, v	vate	r Sr	nater	' K.(I	ea)	, 10	pos	Call	lewa	ay, E	sirkn	aus	er. N	viund	nen	-Ba	3el-
source 423						1	_	Г																
object	TIETGENKOLLEGIET	+																						
-	Copenhagen, Denmark	╢																١.			try			
location author	LUNDGAARD&TRANBERG ARKITEKTURFIRMA A\S	ပ္သ	es	env							gy			ıter			technical challenge	engineering bldg.			office and industry	_		
aumor		nce	enc		ion	_					olo			wa.		ater	alle	ing	=	lity	j.	Jtec		Ħ
:11 4 4:	https://images.adsttc.com/media/images/52f3/041d/e8e4/4eb1/2300/006a/slideshow/PORTADA.jpg?1391657969	formal references	cultural references	ref. to science /	sport-recreation	transportation				n	tech. and ecology		on the shore	located over water		under the water	l ch	eer	residential	public utility	au	implemented	효	experiment
illustration	2002	_ e	al	SCI	rec	port	9	2	rial	decoration	an	pu	e s	ed (ng	ır th	ica	lig.	side	ublic	fice	ple	concept	(pei
creation date		-In	횰	<u>ئ</u> ا	į	sus	science	therapy	material	eco	Sch.	on land	=	cat	floating	ude	듗	ē		ρı	of	.⊑	ö	ê
purpose	residential	9	ಠ	<u>e</u>	ß	ij	S	₽	_	σ		0	0	Ic	#	n	#		1			_		_
w. influence	environment										1													_
relation to w.	wharf												1											
impl. phase	implemented				Ļ	ļ.,											L.,	_				1		
source	Kindt S. (1/06/2006) Weekend z architekturą w Kopenhadze. [w] Porębsi	ka E	.P. ((red)	doc	date	k eu	ro-a	rchit	tektu	ıra. <i>I</i>	\rch	itek	tura	mu	rato	r. W	arsz	awa	a. s.	18;			_
424	•	4																						
object	ROYAL LIBRARY - BLACK DIAMOND	4																١.			try			
location	Copenhagen, Denmark	ွှ	es	- Nue							35			ter			nge	ള			qus			
author	SCHMIDT HAMMER LASSEN (SHL), ARHUS	nce	enc	, e	ion	_					olo			wa.		ater	alle	ing	=	lity	j.	Jtec		Ħ
:11 4 4:	https://upload.wikimedia.org/wikipedia/commons/8/83/Den_Sorte_Diamant_1.jpg	formal references	cultural references	ref. to science / env	sport-recreation	transportation				n	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	효	experiment
illustration	1999	_ e	al	SC	rec	port	8	2	rial	decoration	an	pu	le s	ed (ng	ır th	ica	lig.	side	ublic	fice	ple	concept	(pei
creation date		- E	를	£.	ğ	ans	science	therapy	material	eco	Sch.	on land	=	cat	floating	pu	듗	ē	re		o	.⊑	ŏ	ê
purpose	utility	₽ Q	ಠ	<u> </u>	S	Ħ	Š	ŧ	_	О	Ξ.	0	0	<u> </u>	Į Į	n	=			1			_	
w. influence	environment											-											-	
relation to w.	wharf												1									_		
impl. phase	implemented																					1		
source	Kindt S. (1/06/2006) Weekend z architekturą w Kopenhadze. [w] Porębsi http://www.bryla.pl/bryla/1,85298,4756966.html, 08.02.2015.	ka E	.P. ((red)	doc	datel	k eu	ro-a	rchit	tektu	ıra. <i>F</i>	Arch	itek	tura	mu	rato	r. W	arsz	awa	a. P.	18;			
425	Data and Description																							
object	STOREBÆLT COMING FROM NATURAL ISLAND OF SPROGØ	1		Į.														 			try			
location	Great Belt Strait, Denmark	SS	ses	en							g			ater		_	ng.	P			snp	_		
author	BLAIR BIRDSALL A\S STOREBÆLT, SUND&BÆLT	au c	enc.) 9	ţi	E					900		Ф	r wa		ate	alle	ing	a	ility	d in	nte		aut
illustration	http://www.storebaelt.dk/english/bridge	mal references	Itural references	ref. to science / env	rea	tatic				on	tech. and ecology	on land	hor	located over water		N el	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	ept	experiment
creation date	1999	1 2 2	ョ	08.0	ř	ь	8	ā	material	decoration	a.	pug	e s	ted	floating	er th	nic	ngi	sid	ılqn	ffice	nple	concept	xbe
purpose	hanging bridge, artificial island Sprogø	Ē	井	۳. پ	蔮	ans	cie	era	nate	Jec	ech	[교	ᆵ	oca	loat	pur	ech	1	2	Д	0	. <u>=</u>	0	Φ
w. influence	obstacle	5	0	=	S	=	S	₽	_		_	Ť	\dashv	_	_	_	-	<u> </u>					-	_
relation to w.	at the water, founded on the bottom		-	\vdash									_				1					-		_
	implemented		-	\vdash									-									1	_	_
impl. phase	•	D "			Ļ	<u>. </u>	Ļ	, ,		H								<u>. </u>		L.		- 1		
source	Lewandowski M. (1/06/2006) Osiągnięcia techniczne. Most przez Wielki p.24; http://pl.wikipedia.org/wiki/bridge_nad_Wielkim_Bełtem; http://www												rchi	tekt	ura.	Arc	hitei	ktura	a mu	ıratc	or. VV	arsz	zawa	i.
428		7.510	lene	T I	IN/EI	ligiis	I	luge	, 00	.02.	2010). 						1						
	Musical instrument	+																١.			ř.			
object location	Zadar, Croatia	┨																bldg.			qus	_		
	NIKOLA BASIĆ	_ ا	SS	env.							>			er			ge		a	lity	d i.	ntec		ij
author	http://crolove.pl/morskie-organy-w-zadarze/	references	cultural references	9 / e	uc	_					ecolog)			located over water		ter	technical challenge	engineering	residential	public utility	office and industry	implemented	pt 3	rime
illustration	nttp://crolove.pi/morskie-organy-w-zadarze/ 2005	erer	fere	ref. to science	sport-recreation	transportation				u			ore	ver		under the water	cha	Jgin	side	ıblic	fice	ple	Juce	(pe
creation date	2000	refe	Il re	scie	ec.	orta	Ф	>	ial	decoration	tech. and	اچ	the shore	o po	g	the	ical	ē	re	bι	o	.⊑	ŏ	ê
	utility, architect raised the terrace by incorporating organ pipes into it,	formal	tura	9	투	usp	science	therapy	material	cor	ch.	<u>a</u>	on the s	cate	floating	der	chn							
purpose	which, moved by sea waves, emit sounds during high tides	for	g	ref.	gg	tra	SCi	the	Ĕ	de	te	ō	o	ŏ	ધ	n	ţě	L		1				
w. influence	inspiration, environment, technology	1		1	L	L	L	L			1	_1						L						
relation to w.	wharf												1				1							
impl. phase	implemented																					1		1
	Krzechowicz G. (2007) Architektura chorwacka- wczoraj and dziś. [w] Kr	aus	P. (ı	red)	Arch	nitek	tura	& E	izne	es nr	12.	Kra	ków	.; ht	tp://	crol	ove.	pl/n	orsl	kie-c	orga	ny-w	-	
source	zadarze/		,																					
												_	_										_	-

							1 1											1					
object	VELODROME and VELOPARK - Velo-sport building with velo-park																						
location	London, UK	-																					
author	HOPKINS ARCHITECTS	1																					
	http://r-scale-c5.dcs.redcdn.pl/scale/o2/tvn/web- content/m/p1/i/5/4/545cf12c11b8d04346139fb8884cb447.jpg?type=1&sr cmode=4&srcx=0/1&srcy=0/1&srcw=970&srch=645&dstw=970&dsth=6	references	cultural references	ref. to science / env.	sport-recreation	transportation				Ē	tech. and ecology		ore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept
illustration	<u>45</u>	ref	l re	scie	ecr.	orts	ا بو	ý	ial	atio	and	þ	hs e	e pe	βι	the	ical	gi	side	양	fice	ble	concept
creation date	2008-2011	formal	Itura	유.	ort-ı	usb	science	therapy	material	decoration	ch.	on land	on the shore	cate	floating	Jder	chn	Ē	<u> </u>		ο	.⊑	8
purpose	recreation and utility, the northern part of the Olympic Park	for	no	<u>F</u>	ds	tra	SC	the	ш	ŏ	te	ō	ō	으) th	'n	te	L	$oxed{oxed}$	1		Щ	
w. influence	environment																		<u> </u>				
relation to w.	wharf												1					L	L				
impl. phase	implemented																					1	
source	Fiszer T. (2007) London 2012. [w] Kraus P. (red) Architektura & Biznes n	ır 12.	. Kra	aków	1.													_		_			_
431	Data and Description																	١.			>		
object	AQUATICS CENTRE - SWIMMING CENTER		S	Š.							λ			е			ge	engineering bldg.			office and industry		
location	London, UK	ces	nce	- e	и						olog			wat		ter	llen	g		≥	ind	be d	
author	ZAHA HADID	formal references	cultural references	ref. to science / env	sport-recreation	transportation				ے	tech. and ecology		ore	located over water		under the water	technical challenge	ē	residential	public utility	and	implemented	concept
illustration	http://www.zaha-hadid.com/architecture/london-aquatics-centre/	refe	ē	Scie	ecr	orta	a l	>	ıal	atio	and	р	sh	dо	g	the	g	gil	ide	응	ce s	Sen	concept
creation date	2008-2011	nal	tura	\$	ort-r	gst	science	therapy	material	decoration	ch.	on land	on the shore	ate	floating	der	ihni	euć	res	nd	offi	Ë	cor
purpose	recreation, utility, south-east part of the Olympic Park	for	핑	ref.	sbc	trar	SCie	the	m	g	tec	on	P	loc	flo	'n	te	Г		1			
w. influence	inspiration, utility functions	1			1																		
relation to w.	wharf												1										
impl. phase	implemented																	Г				1	
source	Fiszer T. (2007) London 2012. [w] Kraus P. (red) Architektura & Biznes n 08.02.2015.	ır 12.	. Kra	aków	/.; ht	ttp://	wwv	v.za	ha-l	nadi	d.co	m/a	rchit	ectu	ıre/l	ond	lon-	aqua	atics	-cen	ntre/,		
432	Data and Description																		Т	Π	П		
object	OLIMPIC STADIUM																						
location	London, UK																	6			stry		
author	HOK SPORT LTD	S	es	en							gy			iter			nge	PG			snpi	9	
adilloi		nce	enc	e	ion	_					olo			wa.		ater	alle	ing	ਲ	ij.	d in	nte	
illustration	http://architekturaibiznes.com.pl/image_show.php?id=1&type=sites/538/	formal references	cultural references	ref. to science / env.	sport-recreation	transportation				E	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg	residential	public utility	office and industry	implemented	concept
creation date	2008-2011	<u>e</u>	a	SCi	rec	30 II	8	Уć	rial	ratic	anc	nd	e s	ed c	ng	r th	ica	ngi	sid	ig	ffice	nple	ouo
		-ma	Ħ	-t 12	ort-	sus	science	therapy	material	decoration	ch.	on land	ر ا	cat	floating	nde	schr	Φ.	=		0	<u>.=</u>	Ö
purpose	recreation, utility, south part of the Olympic Park	Q.	ಠ	<u>e</u>	sb	ţ	S	‡	ш	O	te	0	0	2	ij.	n	#	▙	ــــ	1		_	\blacksquare
w. influence	environment																	L	╙			_	
relation to w.	wharf												1					L	<u> </u>	L			
impl. phase	implemented																					1	
source	Fiszer T. (2007) London 2012. [w] Kraus P. (red) Architektura & Biznes n	ır 12.	. Kra	aków																			
433	Data and Description																						
object.	SPORTS COMPLEX RIBERA-SERRALLO																	١.			>		
location	Riera, Cornellà de Llobregat near Barcelona, Spain		တ္သ	Š.							У			er			ge	g bldg.			industry		
author	ÁLVARO SIZA VIEIRA	seou	nce	/ e	uc						ology			water		ter	llenge	l go		≥	ind	ted	
		erer	fere) u	aati	tion				_	ЭЭ		ore			wa	cha	ē	ntia	冒	and	neu	Ħ
illustration	http://architekturaibiznes.com.pl/image_show.php?id=1&type=sites/540/	formal referen	cultural references	to science / env.	sport-recreation	transportation	a l	>	ıal	decoration	tech. and ecc	р	on the shore	located over	g	under the wat	technical chal	engineerin	residential	public utility	office and	implement	concept
creation date	2005	mal	tura	2	ort-r	gst	science	therapy	material	COL	ж.	on land	the	ate	floating	der	in H	euć	res	nd	offi	Ë	cor
purpose	recreation, utility	forr	핑	ref.	sbc	tra	SCie	the	m	g	tec	on	P	loc	flo	'n	tec	Г		1			
w. influence	utility functions, material				1																		
relation to w.	on land											1											
impl. phase	implemented																	Г				1	
source 434	Adamczak M. (2007) "jestem funkcjonalistą" [w] Kraus P. (red) Architektu Data and Description	ıra &	Biz	nes	nr 1	2. K	írakó	w										_	_	 T	— П	_	
object	KUNSTHAUS - museum																						
location	Graz, Austria	-		l													_	ا			tr		
author	SPACELAB/UK, SPACELAB COOK/FOURNIER GMBH	SS	ses	env							gy			water		L	nge	bldg.			gnp	_	
	http://www.arcspace.com/features/spacelab-cook-fournier/kunsthaus-	formal references	cultural references	science /	sport-recreation	transportation				u	tech. and ecology		the shore	located over wa		under the water	technical challenge	engineering	residential	public utility	office and industry	implemented	concept
illustration	<u>graz/</u>	le l	alre	SCI	rec	30rt	9	ý	rial	ratic	and	ы	e s	ed c	ng	r th	ica	ğ	side	plic	fice	ple	concept
creation date	2001-2003	.ma	Itur	f. to	ort-	ınsp	science	therapy	material	decoration	ch.	on land	₽	cat	floating	Jde	chr	ē	ē	_	ō	.⊑	8
purpose	utility, museum		cu	ref.	sb	tra	SC	th€	Ε	ğ	te	ō	ő	으	Ψ	בֿ	te	\perp	\perp	1	Ш		
w. influence	inspiration	1					Ш													L			
relation to w.	on land (no links to the nearby river bed)				LĪ	LĪ	LT					1						L	L^{-}	L	\Box		
						г	Г												Г	Г	П	1	
impl. phase	implemented																			\bot	ш	ائـــ	

435	Data and Description																			П				
object	PASSIVE MOUNTAIN SHELTER	1																		ıl				
location	Hochschwab, Austria			 -													a)	ġ		ıl	stry			
author	POS ARCHITEKTEN	es	ses	en	_						g			ater		ŗ.	enge	plq		ı. I	gr	٦		
adirior		oue	ren	ce/	tion	u					90		Ф	×		/ate	nalle	ring	<u>.</u>	ı <u>£</u>	i d	ute		ent
illustration	http://www.wnp.pl/artykuly/pasywne-schronisko-w-alpach,7917.html	formal references	cultural references	ref. to science / env	sport-recreation	transportation			_	ion	tech. and ecology		on the shore	ocated over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
creation date	summer 2005, summer 2006	a	ıral	S Q	t-re	ods	uce	ару	material	orat	a.	and	the s	ated	floating	ert	nic	engi	esic	g	Offic	m du	ő	e d x
purpose	utility	orm	HE I	ef.	por	rans	science	therapy	mat	decoration	tech	on land	on 1	locs	floa	pun	tech	_	Ť	1		=	Ť	
F 3 F 3.3 5	ecology - collecting rainwater in the tank and cleaning it with a series of	<u>_</u>		-	0)	t	0,	_												H				
w. influence	coarse filters, decoration - ice façade									1	4									ıl				
relation to w.	in the mountain range									- 1	1	1	-							\vdash	_	\dashv	\dashv	
	implemented											-1								\vdash		1	\dashv	1
impl. phase	'				Ш															Щ		- 1	\square	-
	Oettl F. (2006) Na granicy możliwości- schronisko w Alpach. [w] Porębsk	a E.	P. (ı	ed)	Arch	nitek	tura	mui	rato	r nr	11. \	Nars	szav	va.;	http	://w	WW.	wnp.	.pl/a	rtykı	uly/p	asy	wne	;-
source 437	schronisko-w-alpach,7917.html Data and Description											- 1								$\overline{}$	_	$\overline{}$	\neg	_
	SPLAVY- floating objects	-																		ıl				
object		-																_		ıl	2			
location	Belgrade, Serbia	S	Se	en.							25			ter			ıge	engineering bldg.	i	ıl	office and industry			
	AT LA ******* LACEK MAUECINGKI TOMASZ KOSMA MAUECINGKI	references	cultural references	ref. to science / env	ion	_					tech. and ecology		_	located over water		under the water	technical challenge	ng	_	<u>≨</u> .	i.	implemented		ŧ
author	ATJ Architects, JACEK KWIECIŃSKI, TOMASZ KOSMA KWIECIŃSKI	ere	fere	oue	sport-recreation	transportation				Ľ	l ec		on the shore	ver		N N	ch	eeri	residential	public utility	and	ner	Ħ	experiment
illustration	http://images.visitserbia.org/Belgrade/Raft-on-Ada-near-Belgrade.jpg	ref	E	SCi	recr	ort	g	>	rial	atic	anc	ᄝ	s l	g g	Б	ŧ	ical	gi	side	흲	<u>ice</u>	ble	concept	per
creation date	2001-2002	formal	Itura	요	ort-	usp	science	therapy	material	decoration	ch.	on land	È	cate	floating	Jdei	chn	e	ē	-	₽	.⊑	8	ĕ
purpose	utility, tourist, restaurants, clubs	for	ว	ref	sb	tra	sci	₹	Ε	ğ	te	ò	ō	으	≓	'n	te			1				
w. influence	environment																			اے				
relation to w.	floating on the water											_7			1				\Box	L≉	\Box	_ T		
impl. phase	implemented																			П		1		1
source	Graovac A. (2007) Belgrad - fenomen pływającej architektury. [w] Porębs	ska E	.P.	(red) Arc	chite	ktur	a m	urat	or n	r 1. \	War	szav	va.										
438	Data and Description																			П				
object	HEADQUARTERS OF BANK SLĄSKI																			ıl				
location	Katowice, Poland																			ıl				
	DENTON CODUCE MADELIALL MADELICIDACTICA DADDIC	1																		ıl				
	DENTON CORKER MARSHALL, MARK KUBACZKA, BARRIE																	~		ıl	Ę			
	MARSHALL, STEVE JONES, JOWITA KUBACZKA, ZBYSZKO BUJNIEWICZ, WOJCIECH BADOWSKI, JANUSZ WRÓBEL	S	Se	en S							SE.			ţē.			nge	plc		ıl	gns			
author	BUJNIEWICZ, WUJCIECH BADOWSKI, JANUSZ WKOBEL	nce) i	e/e	on	_					olo		_	۸		ater	alle	ng	_	.≩.	Ξ	ted		Ħ
		ere	fere	oue	eat	atio				r l	9		ore	ver		N N	chi	engineering bldg.	residential	public utility	office and industry	implemented	Ħ	experiment
illustration	https://www.urbanity.pl/slaskie/katowice/centrala-banku-slaskiego,b2091	ref	<u>=</u>	SCie	recr	orte	g	>	ja	atic	anc	ᄝ	ا ا	οp	g	ŧ	ical	gin	side	양	<u>i</u>	pler	concept	per
creation date	1998-2000	formal references	cultural references	ref. to science / env	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over wate	floating	under the water	technical challenge	eu	ě	ď	JJ 0	<u>=</u>	8	ě
purpose	utility	for	no	ref	sb	tra	sci	ţ.	Ε	эp	te	ō	ō	ō	₽	'n	te			ш	1			
w. influence	inspiration drawn from nautical architecture	1																		Ш				
relation to w.	on land											1								Ш				
impl. phase	implemented																			П		1		
source	Majewski J. S., Kubaczka M. (2001) Bank w Katowicach. [w] Porębska E	.P. (red)	Arc	hitek	ktura	mu	rato	r nr	1. V	Vars	zaw	a											
439	Data and Description																			П				
	MUSÉE DES CONFLUENCES, CRYSTAL AND CLOUD OF																		1	ıl				
object	KNOWLEDGE - THE CENTER OF SCIENCE																			ıl				
location	Lyon, France			 -													ө	<u>g</u>		ıl	stry			
author	COOP HIMMELB(L)AU	es	cultural references	env.	_						ogy			water		_	technical challenge	engineering bldg		ı. I	office and industr	ъ		
	http://www.archdaily.com/452974/in-progress-musee-des-confluences-	oue	en	ee /	tior	uc					Sol		e l			/ate	alle	ring	<u>_</u>	public utility	<u>⊒</u> .	implemented		ent
illustration	coop-himmelb-l-au/	fere	eţe	ien	rea	tatic				loi	d e		힏	ove		e s	al ch	eel	residential	o E	au	me	concept	experiment
creation date	2014	3 8	<u>a</u>	0 80	-rec	por	е	ð	ərial	orati	an.	g	e s	ted	ing	±	nice	ngi	sig	ॿ	ffice	힐	ouc	xpe
	utility	formal references	릒	ref. to science	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over	floating	under the water	ech	Ф	-	1	0	∸	0	Ф
purpose	inspiration, environment	7	O	2	S	t	S	≠	_		+	-	\dashv	_	-	_	t		\dashv	\dashv	_	\dashv	\dashv	_
w. influence	• •			1								-	_							\vdash		\rightarrow	\dashv	
relation to	wharf, the center was established in a place where two confluence rivers meet - hence the name of the object Musée des Confluences																			,				
relation to w.	· · · · · · · · · · · · · · · · · · ·											-	1							\dashv	\dashv			
impl. phase	implemented		1.7	l d	Ш	Щ	Ш		Λ/.				11.			1.1		/ 4 -		74"		1		
cource	Dąbrowska A. (2007) Na marginesie architektury. [w] Porębska E.P. (red musee-des-confluences-coop-himmelb-l-au/) Arc	inite	Ktur	a mu	urato	or nr	5. V	vars	szav	va.;	nttp:	//WW	s.wv	irch	ually	/.COI	n/45)297	4/In	-pro	gres	S-Sز	
source	Data and Description			1								-	- 1						_	П	_	\neg	\neg	_
442	•	-																		ıl				
object	THE WHALE																			,	بَ			
location	Sporenburg, Amsterdam, Netherlands	S	es	env.							35			ter			nge	bldg.		,	office and industry			
author	FRITS VAN DONGEN	nce	anc	_	ion	اءا					olo		0	water		ater	alle	g	ا ہے	<u>≨</u>	ĭ	otec		ij
L	http://www.buildingbutler.com/images/gallery/large/building-facades-211-	ere	fere	science	eat	atio				r.	ec		ore	ver		W.	ch	eri.	intie	를	anc	ner	t d	me
illustration	405.jpg	ref	al re	sci	recr	orta	é	چ	lal	atic	anc	ا چ	le st	β	g	ţ.	ical	engineering	residential	public utility	<u>i</u>	implemented	concept	experiment
creation date	1998-2000	formal references	cultural references	ref. to s	sport-recreatior	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over	floating	under the water	technical challenge	eu		-	JJO	<u>E</u>	00	ě
purpose	residential-utility	for	cn	ref	sbo	tra	sci	the	É	de	te	ō	o	ŏ	£	'n	te		1	1				
w. influence	environment											_1								╻ͳ	\Box			
relation to w.	wharf							٦				٦	1						П	П				
impl. phase	implemented											7								П		1		
source	Haduch B. (2002) Morze do mieszkania. [w] Loegler R. (red) Architektura	&Bi	znes	s nr	10. F	\rak	ów					_						_						
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443	Data and Description				Ι								Т								\neg		\neg	
	CONSTRUCTION ON THE ISLAND KNSM-EMERALD EMPIRE	-		١.														÷			Ξ			
object	Island KNSM, Amsterdam, Netherlands	S	es	env.							25		١.	ŢĒ.			ηge	opic			dust			
location	JO COENEN	nce	enc	e / e	<u>s</u>	_					olo:			×		ate	aller	ng	_	<u>₹</u>	Ĕ.	ted		Ħ
author		fere	efer	enc	reat	atio				۾	g ec		5)ver		ě K	CP CP	eeri	ıntis	Ē	auc	mer	ğ	ime
illustration	http://www.amsterdamdocklands.com/pictures/knsm/emerald5.jpg	<u>e</u>	alre	sci	je	oort	e	λ	rial	ratic	and	g [ה ט	ed	ng	ŧΙ	ica	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
creation date	1995	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land		located over water	floating	under the water	technical challenge	ē		ಠ	ğ	.⊑	8	ê
purpose	residential	9	ಠ	e_	ß	ţŗ	SC	‡	_	Ö	#	0 1	٥ .	; ⊆	Œ.		₩		1	_	4	4	4	
w. influence	environment																				4	4	4	
relation to w.	wharf									_		_	1			_					_	4	4	
impl. phase	implemented				L		L															1		
source	Haduch B. (2002) Morze do mieszkania. [w] Loegler R. (red) Architektura	i&Bi	zne	nr	10. I	Krak	ÓW.						_	_								_	_	_
444	Data and Description CONSTRUCTION ON THE ISLAND KNSM - PIRAEUS	-																			>			
object		,,	SS	N.							25			ē			ge	engineering bldg.			office and industry			
location	Island KNSM, Amsterdam, Netherlands	See	l suce	9 / e	6	_					Solc		ľ	wat		ter	ller	g b	_	₹	i.	ted		Ħ
author	HANS KOLLHOFF, CHRISTIAN RAPP	erer	fere	Suce	eati	tior				ے	ecc	1	5	Ver		ew e	che	eri:	ntia	풀	and	nen	E	me
illustration	http://www.amsterdamdocklands.com/pictures/knsm/piraeus.jpg	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	ģ	Ý	ial	decoration	tech. and ecology	اً ع		located over water	g	under the water	technical challenge	gine	residential	public utility	<u>c</u> e	implemented	concept	experiment
creation date	1994	ma	tur	9	ort-	usb	science	therapy	material	8	ch.	on land	Ĭ ·	cate	floating	Jer	chn	eu		М	Jb Jb	<u>.</u> E	8	ĕ
purpose	residential	for	no	ref	sb	tra	sci	the	E	ਲ	te	p	5 .	<u> </u>	₽	ⅎ	te		1					
w. influence	environment																							
relation to w.	wharf												1											
impl. phase	implemented																					1		
source	Haduch B. (2002) Morze do mieszkania. [w] Loegler R. (red) Architektura	&Bi	zne	nr	10. I	Krak	ÓW.																	
445	Data and Description																							
object	Residential buildings on JAVA island																							
location	Island Java, Amsterdam, Netherlands		l co	. ≤							_			_			Эе	g.			ıstr			
author	KEES CHRISTIAANSE, JO CREPAIN, GEURST&SCHULZE	ces	cultural references	ref. to science / env	۾						ecology			located over water		ē	technical challenge	engineering bldg		>	office and industry	eq		
	http://upload.wikimedia.org/wikipedia/commons/1/1e/Amsterdam Javaei	formal references	ere	nce	sport-recreation	ion				اے	900	1	ב	/er		under the water	chal	erin	residential	public utility	pu	implemented	_	experiment
illustration	land Lamonggracht.JPG	refe	ref	scie	ecre	transportation		Ĺ	a	decoration	g	- H		ó	0	the	gal	jine	der	일	g	lem	concept	erir
creation date	lata 90	Jal	ural	to	rt-re	sbc	science	therapy	material	Sora	tech. and	on land	₽ .	ate	floating	ger	hnic	eng	resi	and	offi	in i	CO	exp
purpose	residential	form	cult	ref.	sbo	tran	scie	the	ma	ge	tec	0	5 .	8	Ę	š	tec		1				T	
w. influence	utility functions, environment					1																	T	
relation to w.	wharf												1	T									T	
impl. phase	implemented												T									1	T	П
source	Haduch B. (2002) Morze do mieszkania. [w] Loegler R. (red) Architektura	&Bi	zne	s nr	10. I	Krak	ów									-								_
446	Data and Description																							
object	IJ-TOWER			 -													Ф	ġ			stry			
location	Island Java, Amsterdam, Netherlands	es	ces	/en	_						ogy		1	ate		۱.	eng) plc			p	g		
author	NEUTELINGS RIEDIJK	enc	ren	ce	atio!	o					000		ט	≥		vate	hall	iri	tial	£	ا ا	ente		ent
illustration	https://en.wikiarquitectura.com/building/ii-apartment-tower/	efer	refe	cier	cre	rtati			_	ţi	g	_	2	ŏ		he	ac	nee	gen		ea	e	ldec	ərin
creation date	1998	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land		located over water	floating	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
purpose	utility-residential	orn	llt(ef.	Ιď	ran	scie	her	mai	ge	tecl	ا ا	5 .	8	floa	oun	tecl	_	1	1	Ť		_	Ť
w. influence	environment	-	Ĭ	┢	, ,	_	0,	-					+	1		1					\dashv	\top	+	
relation to w.	wharf									_		+	1			_				_	\dashv	\dashv	#	-
impl. phase	implemented									_			Ť	+							_	1	+	
source	Haduch B. (2002) Morze do mieszkania. [w] Loegler R. (red) Architektura	& Ri	700	nr	10 I	(rak	ÓW															_'		
448	Data and Description	I GDI	1	, iii	T	lian	I						Т								\neg		Т	_
object	Pedestrian and cycle bridge	-																<u>ب</u>			Ę			
location	Borneo-Sporenburg, Amsterdam, Netherlands	-		١.													_	plq			snp	_		
author	WEST 8	S	es	env							6		١,	te		.	nge	ing	<u>=</u>	€	.⊑ ⊒.	Jec		ij
illustration	http://www.west8.nl/projects/bridges/bridges_borneo_sporenburg/	formal references	cultural references	ref. to science / env	tion	Ē					ecolog)	١,	,	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
	1999-2000	fere	efer	ienc	sport-recreation	transportation				e l	d ec	3		ove		e ×	占	ngi	sid	g	ffice	ple	ouc	xpe
creation date		l re	<u> </u>	SC C	-rec	port	ce	by	erial	decoration	tech. and	g	ַם ב	ed	ng	=	nica	Φ	2	۵	0	.⊑	5	Ø
	utility, lower bridge - for pedestrian and bicycle traffic, higher - for pedestrian traffic	E E	l#	f.	ğ	ans	science	therapy	material	9	ech.	on land	= ` = `	cat	floating	nde	echi							
purpose		\$	ಠ	2	ß	Ĕ	SC	₽	_	σ	=	0 1	٥ .	<u> </u>	=		Ξ.	1			-	-	4	_
w. influence	challenge obstacle									_		-	+	4		-	_				-	4	4	_
relation to w.													-		_		1				-	_	4	
impl. phase	implemented																					1	\perp	
	Haduch B. (2002) Morze do mieszkania. [w] Loegler R. (red) Architektura			s nr	10. l	Krak	ίÓW.;	,																
source	http://www.west8.nl/projects/bridges/bridges_borneo_sporenburg/, 08.02 Data and Description	.201	15.		ı	ı							-	-		- 1				-,		_	_	
449		4																			2			
object	VOS HOUSE- House nr 120	S	Se	env.							35			ter			Jge	engineering bldg			office and industry			
location	Borneo, Amsterdam, Netherlands	formal references	cultural references	ref. to science / env	<u>o</u>	_					ecology			located over water		ater	technical challenge	ng l	_	<u>₹</u>	ĭ	ted		Ħ
author	KOEN VAN VELSEN	ere	fere	enc	eat	ation				ڍ	ec	1	5	ver		W.	ç	eeri	residential	public utility	anc	implemented	ğ	experiment
illustration	http://www.architectuur.org/xlfoto.php?pr=510&id=1&nr=1	l ref	al re	SCI	rec	ort	e	کر	rial	ratic	anc	g	ה ט	ed	gu	Ť	ical	ngin	side	plic	fice	eld	concept	ber
creation date	1999	.ma	Itur	. to	sport-recreation	transportation	science	therapy	material	decoration	tech. and	on land		cat	floating	under the water	chr	e		Б	₽	.⊑	8	ě
purpose	residential	for	Cu	re	sp	_	SC	tμ	Ε	ŏ	te	ō	ő .	2 ;		5	te		1	_		\perp		
w. influence	utility functions, environment					1	Ш															\perp		
relation to w.	wharf						Ш						1											
impl. phase	implemented																					1		
source	Haduch B. (2002) Morze do mieszkania. [w] Loegler R. (red) Architektura	a&Bi	zne	s nr	10. I	Krak	ίÓW.	http	://w\	ww.a	rchi	tectu	ur.c	org/x	klfot	o.ph	np?p	or=5	10&	id=1	&nr	=1		

450	Data and Description						Т														П			
object	H-HOUSE																							
location	Borneo, Amsterdam, Netherlands			· -													е	g.			office and industry			
author	CHRISTIAN RAPP	ses	cultural references	ref. to science / env	_						ogy			located over water		ř	technical challenge	engineering bldg.			npu	9		
	http://www.rappenrapp.nl/en/projects/brainpark-iii-office-	formal references	eren	ce '	sport-recreation	on					tech. and ecology		ē	» le		under the water	hall	ıring	ial	public utility	nd ii	implemented	_	ent
illustration	building/#/en/projects/santen-house	efer	refe	cien	crea	rtati			_	tion	nd e	_	sho	ŏ		he	al c	inee	dent	ic n	e al	eme	Sept	ərim
creation date	1997	alr	ıral	to s	t-re	transportation	science	therapy	material	decoration	J. al	on land	on the shore	ated	floating	ler t	nnic	engi	residential	Igno	offic	mp	concept	experiment
purpose	residential	orm	Sult	ef. 1	spor	ran	Scie	her	mal	gec	tect	o l	on 1	000	floa	pun	tech	•	1	Ť			Ť	_
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relation to w.	wharf						1						1							Г				
impl. phase	implemented																			М		1		
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source	building/#/en/projects/santen-house						,	- 4			- 1-1		- 1-1-		. 1	.,								
451	Data and Description																							
object	BORNEO 12 BUILDING NR 26			, S										_			е	ıg.			stry			
location	Borneo, Amsterdam, Netherlands	ses	ces	/ en	_						ogy			ate		ř	eng) plc			npu	g		
author	MVRDV	formal references	cultural references	ref. to science / env.	sport-recreation	on					tech. and ecology		ē	located over water		under the water	technical challenge	engineering bldg.	iai	public utility	office and industry	implemented	_	experiment
illustration	http://www.mvrdv.nl/projects/borneo-12	efei	refe	cier	crea	transportation			_	tion	nd e	_	on the shore	Š		he	alc	inee	residential	io n	e e	em	concept	ərin
creation date	1999	alr	ıral	to s	t-re	sbo	science	therapy	material	decoration	L. a	on land	the	atec	floating	ler t	nnic	gue	esic	qnc	offic	ld l	ğ	dxe
purpose	residential	orn	ä	ef.	spoi	ran	Scie	her	mal	gec	tecl	8	o	000	floa	oun	tecl	_	1	_				Ť
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relation to w.	wharf												1							М				
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source	Haduch B. (2002) Morze do mieszkania. [w] Loegler R. (red) Architektura	&Bi	znes	nr	10. ł	(rak	ów.;	http	://w	ww.	mvr	dv.n	l/pro	oject	s/bc	orne	0-12	2			ш			
452	Data and Description							Ť																
object	KURSAAL CENTRE																							
location	Avenida de la Zurriola, San Sebastián, Spain																							
author	JOSE RAFAEL MONEO ARQUITECTO	1		<u>.</u>										L			е	дд.			office and industry			
	http://buildipedia.com/images/masterformat/Channels/In_Studio/2012.06	Ses	cultural references	/ env	u						ogy			located over water		ъ	technical challenge	engineering bldg.			ngn	D D		
	.18 kursaal convention center/images/kursaal convention center 19.j	renc	eren	e)Ce	atio	ion					looe		ē	er v		wate	hall	ərinç	tial	III)	ndi	ente	_	neut
illustration	pg	efe	refe	cier	cre	rtati			_	tion	nde	_	sho	8	_	he	alc	inee	den	i i	e a	em	ceb	erin
creation date	June 1995 - August 1999	formal references	ıral	to s	rt-re	sbo	nce	aby	material	decoration	tech. and ecology	on land	on the shore	atec	floating	under the water	hnic	gue	residential	public utility	offic	implemented	concept	experiment
purpose	utility	form	cult	ref. to science /	sport-recreation	transportation	science	therapy	ma	gec	tecl	o	on	000	floa	oun	tecl	Ť	_	1				Ť
w. influence	utility functions, environment				1																			
relation to w.	wharf												1											
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source	Haduch B. (2002) Skały na plaży. [w] Loegler R. (red) Architektura&Bizne	es ni	11.	Kra	ków			- '															_ '	_
453	Data and Description																				Λ			
	THE STREET WATER WAY AND A CHIRACE											- 1												
object	WHITEWATER KAYAKING COURSE																	ldg.		١ ،	ıstı			
object location	Kościuszko water ledge on the Vistula river, Cracow, Poland		s	٦٧.							>			ъ			ge	ıg bidg.		ty	industi	pe		#
	Kościuszko water ledge on the Vistula river, Cracow, Poland authorSKA PRACOWNIA designOWO-PLASTYCZNA	seo	nces	/ env.	no						ology			water		ter	llenge	ering bldg.	ntial	utility	and industi	nented	ot Ot	ment
location	Kościuszko water ledge on the Vistula river, Cracow, Poland authorSKA PRACOWNIA designOWO-PLASTYCZNA http://stara.gorpol.pl/miasta/krakow/kajak/0844-03.jpg	rences	erences	nce / env.	ation	tion				ر	ecology		ore	ver water		water	challenge	gineering bldg.	idential	olic utility	ce and industr	olemented	cept	periment
location author	Kościuszko water ledge on the Vistula river, Cracow, Poland authorSKA PRACOWNIA designOWO-PLASTYCZNA	references	I references	science / env.	ecreation	ortation	Φ.	>	ial	ation	and ecology	р	shore	d over water	g	the water	cal challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
location author illustration	Kościuszko water ledge on the Vistula river, Cracow, Poland authorSKA PRACOWNIA designOWO-PLASTYCZNA http://stara.gorpol.pl/miasta/krakow/kajak/0844-03.jpg		tural references	to science / env.	ort-recreation	nsportation	ence	rapy	aterial	coration	ch. and ecology	land	the shore	sated over water	ating	der the water	chnical challenge	engineering bldg.	residential	public utility	office and indust	implemented	concept	experiment
location author illustration	Kościuszko water ledge on the Vistula river, Cracow, Poland authorSKA PRACOWNIA designOWO-PLASTYCZNA http://stara.gorpol.pl/miasta/krakow/kajak/0844-03.jpg 2003	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential	public utility	office and industr	implemented	concept	experiment
location author illustration creation date	Kościuszko water ledge on the Vistula river, Cracow, Poland authorSKA PRACOWNIA designOWO-PLASTYCZNA http://stara.gorpol.pl/miasta/krakow/kajak/0844-03.jpg 2003 utility, olympic training center, course available to all amateurs of		cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential		office and industr	implemented	concept	experiment
location author illustration creation date	Kościuszko water ledge on the Vistula river, Cracow, Poland authorSKA PRACOWNIA designOWO-PLASTYCZNA http://stara.gorpol.pl/miasta/krakow/kajak/0844-03.jpg 2003 utility, olympic training center, course available to all amateurs of recreation and water sports, rehabilitation centre attraction, environment flood plain, in the immediate vicinity of protective flood banks		cultural references	ref. to science / env.			science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential		office and indust	implemented	concept	experiment
location author illustration creation date purpose w. influence	Kościuszko water ledge on the Vistula river, Cracow, Poland authorSKA PRACOWNIA designOWO-PLASTYCZNA http://stara.gorpol.pl/miasta/krakow/kajak/0844-03.jpg 2003 utility, olympic training center, course available to all amateurs of recreation and water sports, rehabilitation centre attraction, environment		cultural references	ref. to science / env.			science	therapy	material	decoration	tech. and ecology	on land		located over water	floating	under the water	technical challenge	engineering bldg.	residential		office and indust	1 implemented	concept	experiment
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author	JOHN BURGEE NEW YORK	ence	renc	ce/	tion	uc					colo		ر م	e W		vate	lalle	ring	<u>a</u>	<u>i</u>	<u>_</u>		ent
illustration	http://www.101collins.com.au	formal references	cultural references	ref. to science / env.	sport-recreation	transportation			_	tion	tech. and ecology	_ -	on the shore	located over water		under the water	technical challenge	engineering bldg	residential	public utility	ornice and industry	concept	experiment
creation date	1991	lal r	ural	to s	rt-re	spo	science	therapy	material	decoration	h.a	on land	the	ated	floating	Jer t	hnic	eng	resi	qnd	OLLIC		exp
purpose	utility, hall-sculptures sunk in shallow pools	forn	cult	ref.	ods	tran	scie	ther	ma	dec	tec	8	등 .	0 ;	100	Ĭ	tec				1		
w. influence	material, decoration								1	1													
relation to w.	on land											1											
impl. phase	implemented																					1	
source	(2001) Water spaces of the world. Volume 3. The Images Publishing Gro	up F	ty L	td. N	Иelb	ouri	ne, /	Aust	ralia														
471	Data and Description																						
	COMMONWEALTH LAW COURTS FORECOURT- Square in front of																						
object	the court building Melbourne, Victoria, Australia																				2		
location author	HASSEL PTY LTD.	S	es	env							gy			ater		.	nge	glq		-	dusi	_	
autiloi	http://www.hassellstudio.com/en/cms-projects/detail/commonwealth-law-	formal references	cultural references	ref. to science / env	tion	'n					tech. and ecology		ا ه	located over water		under the water	technical challenge	engineering bldg	<u>_</u>	<u>₹</u>	office and industry	implemented concept	art
illustration	courts/	fere	efe	ien	rea	tatic				E I	og e		on the shore	ove		e	2	Jeer	residential	public utility	au	ep	experiment
creation date	1998	alre	ıra	0.80	t-re	spor	nce	ару	material	decoration	J. ar	on land	ne s	ted .	floating	er ‡	ü	engi.	esic	<u>a</u>		concept	эdх
purpose	utility, square in front of the building, pools, fountain	orm	HE	ef. t	sport-recreation	transportation	science	therapy	mat	gec	tech	8 	o	00 .	lloa	n l	tect	_	_	1		- -	1
w. influence	material, decoration	-		_	0,	+	0,	_ t	1	1		1				7				Ť			
relation to w.	on land									T		1		İ		1							
impl. phase	implemented									T		T				T						1	
	(2001) Water spaces of the world. Volume 3. The Images Publishing Gro	up F	ty L	td. N	Nelb	ouri	ne, A	Aust	ralia	.; htt	p://v	vww	has	sell	stuc	dio.c	om/	en/c	ms-				
source	projects/detail/commonwealth-law-courts/.	Ċ	•																				
473	Data and Description																				_		
object	CATHEDRAL SQUARE - HOTEL	S	Se	env.							3			īe			ge	engineering bldg			ornice and industry		
location	Brisbane, Queensland, Australia	formal references	cultural references	ref. to science / env.	ion	_					tech. and ecology			located over water		under the water	technical challenge	ng .	_	<u>.</u>	i i	Implemented concept	Ę
author illustration	WOODS BAGOT http://thebuzz.beesnees.com.au/wp-content/uploads/2014/10/053.jpg	fere	efer	ienc	reat	atio				6	d ec		nore 	ove		e (ch	eer	residential	public utility	au	apt la	experiment
creation date	Interpretation of the property of the management of the property of the proper	al re	ral	os c	-rec	port	е	py	erial	orați	an.	밀	s e.	ed .	ng	声	nica	ngin	sid	흌	E L	concept	xpe
purpose	utility, pool, pools, fountains	J. W	ultu	ef. to	sport-recreation	transportation	science	therapy	material	decoration	ech	on land	on the shore	oca	floating	ğ	ech	Φ	2	1	0 .!	= 0	Ф
w. influence	decoration, ecology	7	0		ა 1	ŧ	S	∓ 1	-	1	1		-	+	_	-	_			+		+	
relation to w.	on land									-		1				+						+	
impl. phase	implemented											1		1		T						1	
source	(2001) Water spaces of the world. Volume 3. The Images Publishing Gro	up F	ty L	td. N	/lelb	ouri	ne, A	Aust	ralia	. '													
475	Data and Description																						
object	HAUS DER DEUTSCHEN WIRTSCHAFT																						
location	Berlin, Germany		S	<u>></u>							>			Ē			ge	ldg.			ustry		
author	ARCHITEKTEN SCHWEGER + PARTNER	nal references	tural references	to science / env	on	_					tech. and ecology		on the shore	wate		īē.	technical challenge	engineering bldg.	_		ortice and industry	<u> </u>	#
	https://schweger-architects.com/wp-content/uploads/2018/09/haus-der-	erer	fere	ence	sport-recreation	transportation				ے	l ecc		ore	ver		under the water	cha	erir	residential	public utility	and	implemented concept	experiment
illustration	wirtschaft-berlin aussen01.jpg	l ref	al re	SCie	recr	oorta	99)y	rial	decoration	anc	land :	e su	o pe	g	Ĕ	ical	gin	side	일 :	e l	concept	ber
creation date	1999		ıltur		oort-	ansp	science	therapy	material	600	Sch.	on la	ـــــــــــــــــــــــــــــــــــــ	cat	floating	nde	Sch.	ē	<u>e</u>		ō .i	<u> </u>	ã
purpose	utility material, environment	Q.	ಠ	ref.	st	tra	SC	th		ס	<u>=</u>	0	o .	ບ :	=		₹		4	1		+	
w. influence	wharf								1	\dashv		\dashv	4			\dashv	-		-	\dashv	+	-	
relation to w.	implemented									\dashv		+	1	-		\dashv				\dashv	+	1	
impi. priase	(2001) Water spaces of the world. Volume 3. The Images Publishing Gro	up E)+ ₁	+4 1	Aolh	NO.UF		\ot	rolio	· h#	n://s		aah		ıor							1	
source	architects.com/de/architecture/haus-der-deutschen-wirtschaft	ир г	· ty L	.tu. r	vieit	Jouri	He, F	-tu5t	alla	., 1111	μ.//ν	v vv vv	.5011	iweg	lei-								
476	Data and Description																						
object	INTERNATIONAL CONFERENCE CENTRE OSAKA			s.													a)	g.			stry		
location	Osaka, Japan	es	ces	env.	_						Sgy			ate		_	enge	PQ		. -	ם ק	5	
author	KISHO KUROKAWA ARCHITECT&ASSOCIATES	formal references	cultural references	ref. to science /	sport-recreation	on					tech. and ecology		<u>.</u>	located over water		under the water	technical challenge	engineering bldg	tia	public utility	ornice and industry	implemented concept	ent
illustration	http://www.kisho.co.jp/page.php/271	efe	refe	cier	cre	transportation			_	tion	nde	<u>"</u> .	on the shore	õ	_	j l	<u>8</u>	inee	residential	<u>:</u>	e a	concept	experiment
creation date	1994-2000	nalı	ural	tos	rt-re	odsı	science	therapy	materia	decoration	h. a	on land	the	ate	floating	ger	hnic	eng	resi	g :		E 8	exp
purpose	utility	forn	cult	ref.	ods	tran	scie	the	ma	g	tec	8	ᡖ	8 :	100	š	tec				1		
w. influence	material, environment								1														
relation to w.	wharf												1										
impl. phase	implemented															Ī						1	
source	(2001) Water spaces of the world. Volume 3. The Images Publishing Gro	up F	ty L	td. I	Melb	ouri	ne, /	Aust	ralia	.; htt	p://v	ww.	.kisł	no.co	o.jp	/pag	e.pl	1p/2	71				
479	Data and Description																						
object	NEW WING OF THE VAN GOGH MUSEUM- Museum		တ္တ	2							>			Ē			ge	bldg.			ustri		
location	Amsterdam, Netherlands KISHO KUROKAWA ARCHITECT&ASSOCIATES	Seou	nce	9 / e	on						polo			wat		ter	allen	g bc	_	ا <u>چ</u>	9	E E	±
author		eren	fere	ence	eatic	tion				ے	9		ore	ver		wa	cha	eric	ntia	∄ .	and	i le	mer
illustration	http://www.kisho.co.jp/page.php/220	l ref	al re	scie	recr	orte	99	λ	rial	ratic	anc	힏.	e s	o pa	g	r th	lical	engineering	residential	public utility	ornice and industry	concept	experiment
creation date	1990-1998	formal references	cultural references	ref. to science / env	sport-recreation	transportation	science	therapy	materia	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	ē	<u>e</u>	-	ь .i	<u> </u>	ě
purpose	utility	Q.	ರ	9	ş	tτέ	SC	¥	_	-	#	0	0 .	ַ :	=	ם	=	\dashv	\dashv	1	+		
w. influence	decoration, material on land						H		1	1		1	+	+	-	\dashv		\dashv	\dashv	+	+		
relation to w. impl. phase	implemented						Н					1	+	+		\dashv		\dashv	\dashv	+	+	1	
minul blidat	p.ooritou					Ш	Ш	Щ														1	
source	(2001) Water spaces of the world. Volume 3. The Images Publishing Gro	un F	η _V Ι	td N	Melh	Our	ne /	4116	ralia	· htt	n·//	V/V/V	kieł	10 C	n in	/nac	e ni	าท/ว	20				

500	Data and Description																		\neg		\neg		
object	SUNTORY MUSEUM	1		>										١			Ф	.g			stry		
location	Osaka, Japan	ses	cultural references	ref. to science / env	٦						ogy			located over water		<u>-</u>	technical challenge	engineering bldg.			office and industry	٦	
author	TADAO ANDO	enc.	eren	ge	aţiol	o					000		ē	ĕ.		vate	hall	ering	<u>tā</u>	ij	i Bi	ente	ent
illustration	http://en.wikiarquitectura.com/index.php/Suntory Museum	formal references	refe	cier	sport-recreation	transportation			_	tion	tech. and ecology	_	on the shore	ò	_	under the water	alc	inee	residential	public utility	e a	implemented	experiment
creation date	1994	lal I	ural	tos	I-r	odsı	auce	therapy	material	decoration	h. a	on land	the	atec	floating	der	hnic	eng	resi	qnd	ij	m S	exp
purpose	utility	for	cult	ref.	ods	trar	science	the	ma	ge	tec	6	6	8	flo	Š	tec			1			
w. influence	environment																						
relation to w.	wharf												1										
impl. phase	implemented																					1	
source	(2000)Tadao Ando 1983-2000. El Croquis 44+58, Madrid.; http://en.wikia	arqu	itec	tura.	.com	/ind	ex.p	hp/S	Sunt	ory_	Mus	eum	1, 28	3.02	.201	15r.							
502	Data and Description																						
object	EASTON TOWN CENTER	4																			_		
location	Columbus, Ohio, USA	,,	Se	J.							≥			ē			ge	oldg			Insti		
author	DEVELOPMENT DESIGN GROUP INC.	nce	ence	e / e	<u>6</u>	_					olo			wat		ater	aller	ng b	_	iξ	in E	ted	Ħ
:!!	https://upload.wikimedia.org/wikipedia/commons/c/c0/Pop_Fountains.jp	fere	efere	enc	reat	atio				٦	g ec		Jore	over		e w	Chi	eeri	entie	Ē	au	mer.	ine i
illustration	<u>u</u> 1999	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	8	ď	rial	decoration	tech. and ecology	g	on the shore	located over water	ng	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	experiment
creation date	utility	L L	lt.	f. to	ğ	ans	science	therapy	material	00	ech.	on land	무	ocat	floating	lude	echi	ē	<u>.</u>	<u>ā</u>	₽.	= 8	6 6
purpose w. influence	decoration	2	ō	12	S	±	Ö	÷	_	1	-	-	-	-	Ţ	_	-		-	-	\dashv	+	+
relation to w.	on land									1		1	4						_		\dashv		
impl. phase	implemented											+	-						\dashv		\dashv	1	
source	(2001) Water spaces of the world. Volume 3. The Images Publishing Gro	un F) Ptv I	td I	l Melt	OUL	ne A	luct	ralia														
505	Data and Description	Jup i	ly L	10. 1	WIGIL	Jour		rust	alla										\neg				
object	ATLANTIS-HOTEL	1																					
location	Paradise Island, Bahamas																a)	g.			šť		
author	WIMBERLY ALLISON TONG&GOO&HKS INC.	es	ces	ref. to science / env	٦						Sgo			located over water		<u>_</u>	technical challenge	engineering bldg.			office and industry	٥	
	(2001) Water spaces of the world. Volume 3. The Images Publishing	formal references	cultural references)ce	sport-recreation	on					tech. and ecology		<u>e</u>	» le		under the water	hall	ring	tial	public utility	ا <u>ج</u>	implemented	ent
illustration	Group Pty Ltd. Melbourne, Australia.	efel	refe	cier	cre	transportation			_	tion	nde	_	on the shore	Š	_	he	g	inee	residential	ic n	ë	impleme	experiment
creation date	1999	lal	ural	to s	rt-re	odsı	science	therapy	material	decoration	h. a	on land	the	atec	floating	der t	hnic	eng	resi	qnd	o#i	m S	exp
purpose	utility, fountains, pool	forn	cult	ref.	ods	tran	scie	the	ma	ge	tec	6	6	000	floa	ă	tec			1			
w. influence	environment, utility functions				1			1															
relation to w.	wharf												1										
impl. phase	implemented																					1	
source	(2001) Water spaces of the world. Volume 3. The Images Publishing Gro	up F	ty L	td. I	Melt	our	ne, A	Aust	ralia														
506	Data and Description	4																					
object	TAMPERE HALL	4																			2		
location	Tampere, Finland ARKKITEHTITOIMISTO AARTELO, PIIRONEN	ပ္ပ	es	env.							SS			ter			nge	pldg			dust		
author	http://www.icopal.com/~/media/lcopalCOM/News/Tampere_hall_Finland	formal references	cultural references	ref. to science / env	ë	ے					tech. and ecology		a)	located over water		under the water	technical challenge	engineering bldg.	-	Ϊξ	office and industry	implemented	int
illustration	intp.//www.icopar.com/~/media/icoparcon/inews/rampere hall Filliand	fere	efe	ienc	sport-recreation	transportation				o	d e		on the shore	ove		e v	무다	Jeer	residential	public utility	au	ame ant	experiment
creation date	1990	ale	ralr	o sc	ř	por	science	φ	material	decoration	an an	gu	he s	ted	floating	# le	nic	ingii	esid	ilqn	di je	impleme	g g
purpose	utility, fountain, water cascades	or m	ultu	ef. t	ğ	rans	cie	therapy	mat	dec	tech	on land	on t	loca	float	pun	tech	Ψ	-	1	-	= +	ν Ψ
w. influence	decoration	-	0	-	0)	-	0)	-		1		1							\dashv	Ė	\dashv		
relation to w.	on land				Н							1									\dashv		
impl. phase	implemented											7									\neg	1	
source	(2001) Water spaces of the world. Volume 3. The Images Publishing Gro	oup F	Ptv L	td. I	Melb	our	ne. A	lust	ralia	. '													
511	Data and Description			Ė			Π												\neg		\Box		
object	MIRAGE VOLCANO	1																					
location	Las Vegas, Nevada, USA	1		<u>.</u>										_			Ф	.g			stry		
outhor											ogy			/ate		_	g	중			ng	8	l
author	WET DESIGN	ses	seou	/ env.	_			- 1								ΨI	<u>a</u>	0		>		ente	nen
aumor	WET DESIGN http://upload.wikimedia.org/wikipedia/commons/fi/f7/The_Mirage_Vegas	rences	erences		ation	ion				ا ـ	600		e l	è.		wate	challe	ering l	ıtial	utility	gu		÷1.⊱
illustration		references	I references		ecreation	ortation	Ф	^	al	ation	and eco	ا ج	shore	d over v	g	the wate	cal challe	gineering l	idential	olic utility	ce and	Jel Jel	ğ ğ
	http://upload.wikimedia.org/wikipedia/commons/f/f7/The Miraqe Vegas	mal references	tural references		ort-recreation	nsportation	ence	rapy	aterial	coration	ch. and eco	land	the shore	cated over v	ating	der the wate	chnical challe	engineering bldg	residential	public utility	office and industry	implemented	experiment
illustration	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas_ Volcano.jpg 1997 exhibition, water lava	formal references	cultural references	ref. to science / er	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering	residential	public utility	office and	implen	expe
illustration creation date	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas_Volcano.jpg 1997 exhibition, water lava material, decoration	formal references	cultural references		sport-recreation	transportation	science	therapy	□ material	1 decoration	tech. and eco	on land	on the shore	located over v	floating	under the wate	technical challe	engineering	residential		office and	implen	expe
illustration creation date purpose	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas_Volcano.jpg 1997 exhibition, water lava material, decoration on land	formal references	cultural references		sport-recreation	transportation	science	therapy		_	tech. and eco	on land	on the shore	located over v	floating	under the wate	technical challe	engineering	residential		office and	implem	edxe
illustration creation date purpose w. influence relation to w. impl. phase	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas_Volcano.jpg 1997 exhibition, water lava material, decoration on land implemented			ref. to science /					1	1	tech. and eco		on the shore	located over v	floating	under the wate	technical challe	engineering	residential		office and	implemi 1	exbe
illustration creation date purpose w. influence relation to w. impl. phase source	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas			ref. to science /					1	1	tech. and eco		on the shore	located over v	floating	under the wate	technical challer	engineering	residential		office and		edxe
illustration creation date purpose w. influence relation to w. impl. phase source 519	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas			ref. to science /					1	1	tech. and eco		on the shore	located over v	floating	under the wate	technical challer	engineering	residential		office and		edxe
illustration creation date purpose w. influence relation to w. impl. phase source 519	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas			ref. to science /					1	1	tech. and eco		on the shore	located over v	floating	under the wate	technical challe	engineering	residential		office and		edxe
illustration creation date purpose w. influence relation to w. impl. phase source 519 object location	http://upload.wikimedia.org/wikipedia/commons/f/f7/The Mirage Vegas			ref. to science /					1	1	tech. and eco		on the shore	located over v	floating				residential	1			edxe
illustration creation date purpose w. influence relation to w. impl. phase source 519	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas	oup F	Pty I	. ref. to science /					1	1									residential	1		1	edxe
illustration creation date purpose w. influence relation to w. impl. phase source 519 object location	http://upload.wikimedia.org/wikipedia/commons/f/f7/The Mirage Vegas	oup F	Pty I	env.	Melk	pour			1	1		1								1		1	
illustration creation date purpose w. influence relation to w. impl. phase source 519 object location author	http://upload.wikimedia.org/wikipedia/commons/f/f7/The Mirage Vegas	oup F	Pty I	env.	Melk	pour		Aust	1 ralia	1		1		over water						1		1 1	ent
illustration creation date purpose w. influence relation to w. impl. phase source 519 object location author	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas_Volcano.jpg 1997 exhibition, water lava material, decoration on land implemented (2001) Water spaces of the world. Volume 3. The Images Publishing Gro Data and Description LIVE OAK COMMUNITY CENTER Santa Cruz, California, USA ELS ARCHITECTURE AND URBAN DESIGN https://lh6.googleusercontent.com/- LcvkkBAhfHs/U3UiM2mFVjI/AAAAAAAAABY/vyRnGyDjbvw/w2048- h1365/Both%2Bpools.jpg	oup F	Pty I	env.	Melk	pour	ne, A	Aust	1 ralia	1		1		over water						1		1 1	ent
illustration creation date purpose w. influence relation to w. impl. phase source 519 object location author illustration creation date	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas_Volcano.jpg 1997 exhibition, water lava material, decoration on land implemented (2001) Water spaces of the world. Volume 3. The Images Publishing Gro Data and Description LIVE OAK COMMUNITY CENTER Santa Cruz, California, USA ELS ARCHITECTURE AND URBAN DESIGN https://lh6.googleusercontent.com/- LcvkkBAhfHs/U3UiM2mFVjI/AAAAAAAAABY/vyRnGyDjbvw/w2048- h1365/Both%2Bpools.jpg 1998	oup F	Pty I	env.	Melk	pour	ne, A	Aust	1 ralia	1		1		over water				g bldg.		public utility	dustry		ent
illustration creation date purpose w. influence relation to w. impl. phase source 519 object location author illustration creation date purpose	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas			. ref. to science /			ne, A	Aust	1 ralia	1	nd ecology	1		over water						1		1 1	ent
illustration creation date purpose w. influence relation to w. impl. phase source 519 object location author illustration creation date purpose w. influence	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas_Volcano.jpg 1997 exhibition, water lava material, decoration on land implemented (2001) Water spaces of the world. Volume 3. The Images Publishing Gro Data and Description LIVE OAK COMMUNITY CENTER Santa Cruz, California, USA ELS ARCHITECTURE AND URBAN DESIGN https://lh6.googleusercontent.com/- LcvkkBAhfHs/U3UiM2mFVjI/AAAAAAAAABY/vyRnGyDjbvw/w2048- h1365/Both%2Bpools.jpg 1998	oup F	Pty I	env.	Melk	pour	ne, A	Aust	1 ralia	1		1 on land		over water						public utility		1 1	ent
illustration creation date purpose w. influence relation to w. impl. phase source 519 object location author illustration creation date purpose w. influence relation to w.	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas_Volcano.jpg 1997 exhibition, water lava material, decoration on land implemented (2001) Water spaces of the world. Volume 3. The Images Publishing Gro Data and Description LIVE OAK COMMUNITY CENTER Santa Cruz, California, USA ELS ARCHITECTURE AND URBAN DESIGN https://lh6.googleusercontent.com/- LcvkkBAhfHs/U3UiM2mFVjI/AAAAAAAAABY/yyRnGyDjbvw/w2048-h1365/Both%2Bpools.jpg 1998 recreation, pool, waterfall utility functions	oup F	Pty I	env.	Melk	pour	ne, A	Aust	1 ralia	1		1		over water						public utility		implemented 1	ent
illustration creation date purpose w. influence relation to w. impl. phase source 519 object location author illustration creation date purpose w. influence	http://upload.wikimedia.org/wikipedia/commons/f/f7/The_Mirage_Vegas_Volcano.jpg 1997 exhibition, water lava material, decoration on land implemented (2001) Water spaces of the world. Volume 3. The Images Publishing Gro Data and Description LIVE OAK COMMUNITY CENTER Santa Cruz, California, USA ELS ARCHITECTURE AND URBAN DESIGN https://lh6.googleusercontent.com/- Lcv/kkBAhfHs/U3UiMZmFVjI/AAAAAAAAABY/yyRnGyDjbvw/w2048- h1365/Both%2Bpools.jpg 1998 recreation, pool, waterfall utility functions on land	formal references	cultural references	ref. to science / env.	1 sport-recreation	transportation	ne, A	therapy	ralia	decoration		1 on land		over water						public utility		1 1	ent

524	Data and Description																			П				
object	MOODY GARDENS AQUARIUM-OCEANARIUM																		. !					
location	Galveston Island, Texas, USA			\ .													Ф	<u>5</u>	. !		stry			
author	MORRIS ARCHITECTS	es	ces	ref. to science / env	_						ogy			located over water		٦ć	technical challenge	engineering bldg.	. !		office and industry	9		
	https://www.studioredarchitects.com/moody-gardens-aquarium-	formal references	cultural references	ce/	sport-recreation	uc					tech. and ecology		e	ĕ.		under the water	halle	ring	<u>.</u>	public utility	i pu	implemented		experiment
illustration	galveston-texas/	efer	refe	lei.	cres	transportation			_	ioi	pd e		on the shore	ŏ		he v	a	nee	residential	icu	e ar	eme	concept	im
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purpose	utility, aquarium	- Lu	l Ifc	ef. t	ь	gus	science	therapy	material	decoration	tech	on land	on t	oca	floating	pun	tect	۳	러	1	0	=	-	U
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	implemented																		\vdash	H		1	-	H
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author		ere	fer	euc	eat	atio				۱۲	ec G		og	yer		W e	5	eeri	residential	public utility	and	mer	pt	experiment
illustration	http://www.galinsky.com/buildings/naoshima/index.htm	lref	al re	SCi	le Ci	orts	e e	×	<u>ia</u>	atic	and	ᄝ	e S	힜	б	r the	ical	gi	side	blic	ice	ble	concept	Der
creation date	1988, 1992, 1995	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	eu	ě	-	off	Ĕ.	္ပ	ă
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source	(2000)Tadao Ando 1983-2000. El Croquis 44+58, Madrid.		_																					_
531	Data and Description																		\Box					
object	DR SUN YAT-SEN GARDEN																		. !					
location	Vancouver, B.C., Canada	1		ļ.													_	9	. !		try			
author	VAUGHAN LANDSCAPE PLANNING&DESIGN LTD	SS	ses	e l							<u>8</u>			ater		_	nge	plq	. !		snp	_		ı
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201	http://www.travelin.pl/galeria/dr-sun-yat-sen-classical-chinese-	fere	efer	eu	ea	atio				Ę	e e		ا و د)Ve		w e	등	eer	ığ l	it	an	me	þt	im
illustration	garden.jpg	l rel	a	SCi	sport-recreation	transportation	e	Š	rial	decoration	au	ᅵᄝ	on the shore	pe	р	rth	ica	gin	residential	public utility	fice	ble	concept	experiment
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purpose	recreation, pond	Į.	ਹ	ē	gs	tra	SC	ţ.	Ε	ŏ	ę	ō	ō	으	ŧΙ	'n	ţ.			1				L
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536	Data and Description																							
object	CITROEN PARK																		. !					
location	Paris, France																		. !					ı
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	JEAN-PAUL VIGUIER, PATRICK BERGER, ARCHITECTS AND			ļ.															. !		try			
author	ALAIN PROVOST, GILLES CLEMENT LANSCAPE ARCHITECTS	SS	ses	e l							g			ater		_	nge	plq	. !		snp	_		ı
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	https://www.archdaily.com/112685/ad-classics-parc-andre-citroen-alain-	formal references	efer	to science / env	sport-recreation	transportation				Ę			ore	located over water		w e		engineering bldg	residential	ığ	an	implemented	concept	im
illustration	provost	l rel	a	SCi	le _C	00 TE	e	Š	rial	ratic	anc	ᅵᄝ	e S	pe	р	rth	ica	gin	side	public	office	ble	nce	experir
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purpose	recreation, park, fountains, pools	ξo	2	ref.	Sp	tra	sc	ţ	Ε	ŏ	te	ō	ō	으	Ψ	n	ŧ		ш	1				L
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537	Data and Description				Π															П				
001	MARKING HIGH TIDE AND WAITING FOR LOW TIDE PAVILIONS,	+																	. !					
object	DAVID LAM PARK			١.														<u>.</u> ا	. !		try			l
object	Vancouver, B.C., Canada	S	Se	env.							3			ter			ge) pic	. !		ans			
location	· · · ·	references	enc	_	ion	_)olo			wa		ater	alle	ng	ا _ ا	<u>.</u>	l in	tec		ŧ
author	VAUGHAN LANDSCAPE PLANNING&DESIGN LTD	ere	fere	l Si	eat	tio				ے	9		shore	ver		w é	ਝੌ	ĕ	ntia	ιŧ	anc	neu	ρ	8
illustration	https://c2.staticflickr.com/8/7654/17012631386_5f57b09fdf_b.jpg	ref	cultural references	science	sport-recreation	transportation	بو	×	<u>a</u>	decoration	tech. and ecology	اچ	ls e	located over water	g	under the water	technical challenge	engineering bldg	residential	public utility	office and industry	implemented	concept	experiment
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purpose	exhibition	forr	cul	ref.	spc	tra	science	therapy	Ĕ	g	tec	ы	o	<u>ŏ</u>	flo	un	tec		ı T	1				
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550	Data and Description																							
object	THE WHITE HOUSE			· -										L			Ф	6			office and industry	`		
location	Scottsdale, Arizona, USA	ses	ces	/en	_						ogy			/ate		-	eng	길		Ι.	ᄝ	g		
author	ANTOINE PREDOCK ARCHITECT	renc	eren	e Se	atio	o U					ooe		<u>r</u> e	erv		wate	hall	ini	tial	Ħ	Je	ente	L	Jent
illustration	http://www.predock.com/white/white.html	formal references	cultural references	ref. to science / env.	sport-recreation	transportation			=	decoration	tech. and ecology	_	on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	e a	implemented	concept	experiment
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purpose	residential, pools, water channels, fountain	orn	cult	ef.	ods	ran	scie	her	mai	dec	tec	e G	on	loc	floa	un	tec	ř	1	_	Ť		Ť	Ť
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557	Data and Description	Jupi	ly L		VICID	Jun	10, 7	lust	lanc	1., 110	ιφ.//		v.pi		JK.O	1	T	IC/ VV	T	T	<u>"</u>			
object	GUYOTT HOUSE	-															0	<u>ا</u>			Ę			
location	Connecticut Coast, Connecticut, USA	SS	ses	eu							gy			ater		L	ange.	Pig			snp	-		
author	CENTERBROOK ARCHITECTS AND PLANNERS	formal references	cultural references	ref. to science / env.	sport-recreation	ے					ecology		a	located over water		under the water	technical challenge	engineering bldg.	<u> </u>	1€	office and industry	implemented		art .
illustration	http://www.centerbrook.com/project/guyott_house	fere	efei	ieu	rea	transportation				on	d e		on the shore	ove		ē	2	lee l	residential	public utility	a	me	bd	experiment
creation date	Internation Control of	- E	ralr	os c	-rec	pod	science	py	erial	decoration	tech. and	pu	s ət	peq	floating	ř.	nica	l je	sid	la	ffice	nple	concept	xpe
	residential, pool	- E	罪	f. to	oort	ans	ien	therapy	material	lecc	-upe	on land	n th	ocat	oati	Inde	echi	ē		_	. 6	.⊑	ŏ	(e)
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558	-	-																			>			
object	ROSS STREET RESIDENCE	4	S	Ş.							_			ē			ge	9	1		nstr			
location	Toorak, Victoria, Australia	seo	nce	9 / e	E						olog			wat		ter	llen	q		≥	ij.	ted		
author	MCBRIDE CHARLES RYAN	ren	ere	nce	atic	tion				ار	оо		ore	/er		wa	cha	erin	ıtial	Į₩	gug	Jent	l =	men
illustration	http://www.mcbridecharlesryan.com.au/#/projects/ross-st-residence/	ormal references	cultural references	science / env.	sport-recreation	transportation	a)	>	ā	decoration	tech. and ecology	٦	on the shore	located over water	g	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
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purpose	residential, pool	forr	cult	ref.	sbc	trar	scie	the	m	de	tec	Б	o	8	flo	S	tec		1					
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565	Data and Description						T																	
object	PEGGY NOTEBAERT NATURE MUSEUM	1																						
location	Chicago, Illinois, USA	1															a)	g G			stry			
author	PERKINS&WILL	SS	ses	en/							g			ater		L	ange	plq			snpi	0		
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w. influence	environment	<u>~</u>	0	_	S	₽	S	∓	-		_				_		-			H.				
relation to w.	wharf							-					1											
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566	Data and Description						П	1																
object	THE MAASTHEATER- THEATRE	1															_	٠			try			
location	Rotterdam, Netherlands	SS	es	env							gy			ıter			nge	plq			gnp	_		
author	HUBERT-JAN HENKET ARCHITECTEN BNA	nce	enc	/ e:	ţion	ے					olos		0	r wa		ater	alle	ing	-	≟	d in	ntec		ij
	http://www.biermanhenket.nl/en/projects/maastheater/	formal references	cultural references	ref. to science / env.	sport-recreation	transportation				uc	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	ğ	experiment
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creation date		- La	ılt ur	f. to	ort	sus	science	therapy	material	өсо	Sch.	on land	=	cat	floating	nde	ş	ē	9	_	o	.⊑	ŏ	ê
purpose	utility	9	ರ	re	ß	Ĕ	ß	₽	۲	р	te	0	0	2	ŧ	ח	뽀			1				
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568	Data and Description																				۸			
object	NORTHERN WATER FEATURE- Fountains	١	S	nv.							_			ь			ge	ldg.			ustr			
location	Sydney, New South Wales, Australia	seo	nce	9 / e	E						olog			wat		ter	llen	engineering bldg.		≥	office and industry	ted		=
author	HANGREAVES ASSOCIATES	eren	fere	nce	eatic	tion				_	900		ore	ver		wa	cha	erir	ntia	ŧ	and	hen	Ħ	mer
illustration	https://c2.staticflickr.com/6/5261/5661026236_4136154e66_b.jpg	refe	l rel	scie	ecre	orta	۵	_	<u>a</u>	atio	and	g	sh	do	g	the	cal	gine	residential	public utility	ce s	implemented	concept	experiment
creation date	1998	formal references	cultural references	ref. to science / env.	sport-recreation	transportation	science	therapy	material	decoratior	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	euć	res	nd	offi	imi	Š	ext
purpose	exhibition, fountains	for	cult	ref.	sbc	tra	Scie	the	Ĕ	de	tec	o	P	loc	flo	un	tec			1				
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source 570	(2001) Water spaces of the world. Volume 3. The Images Publishing Gro Data and Description	up F	ty L	td. N	/lelbo	ourr	ne, A	usti	ralia	۱.														
		oup F	ty L		/lelbo	ourr	ne, A	usti	ralia	1.				_			Φ	-g			stry			
570	Data and Description					ourr	ne, A	usti	ralia		бbс			ater)c	enge	g bldg.			ndustry	p;		
570 object	Data and Description KIBI-CHO CITY HALL						ne, A	usti	ralia		cology		Ф	er water		vater	hallenge	ring bldg.	ial	tility	nd industry	ented		ent
object location author	Data and Description KIBI-CHO CITY HALL Wakayama Prefecture, Japan					tation					nd ecology		shore	over water		he water	al challenge	neering bldg.	dential	ic utility	e and industry	emented	cept	eriment
570 object location author illustration	Data and Description KIBI-CHO CITY HALL Wakayama Prefecture, Japan KISHO KUROKAWA ARCHITECT&ASSOCIATES					tation					. and ecology	and	he shore	ited over water	ting	er the water	nical challenge	engineering bldg.	esidential	oublic utility	office and industry	mplemented	concept	axperiment
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575	Data and Description																							
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location	Atlanta, Georgia, USA	es	ces	ref. to science / env.	_					3	66		located over water		٦.	technical challenge	engineering bldg.			office and industry	g l	
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630	Data and Description						П			T							П	\neg		Ť		
object	WELLESLEY COLLEGE SPORTS CENTER			<u>.</u>									L			Ф	ġ		į	office and industry		
location	Wellesley, Massachusetts, USA	ses	cultural references	ref. to science / env	ےا					1	660		located over water		<u>_</u>	technical challenge	engineering bldg.		_ ÷	g -	g	
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632	Data and Description	4																				
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633	Data and Description																	П		П		
object	GRAND CHANCELLOR HOTEL																					
location	Hobart, Tasmania, Australia			<u>-</u>									L			<u>e</u>	ģ			Stry		
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	http://media-cdn.tripadvisor.com/media/photo-s/01/7a/fa/a9/hotel-grand-	formal references	eren	g	sport-recreation	o				decoration	5	<u>e</u>	اة ا		under the water	hall	ing	擅	public utility	Ē	implemented	experiment
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author	PEDDLE THORP ARCHITECTS	references	cultural references	ref. to science / env	sport-recreation	transportation				decoration	3	ore	located over water		under the water	technical challenge	engineering bldg	residential	public utility	office and industry	implemented	experiment
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640	Data and Description																					П	
object	FREEMAN ATHLETIC CENTER	1		.													Ф	ġ			stry		
location	Wesleyan University, Middletown, Connecticut, USA	ses	cultural references	ref. to science / env.	٦						ogy			located over water		-	technical challenge	engineering bldg.			office and industry	g	
author	HERBERT S. NEWMAN AND PARTNERS, PC.	enc	ren	g	ļē.	o					000		ē	e.		vate	hall	ring	<u>ā</u> .	 	iρ	ante	
illustration	http://tlbarchitecture.com/assets/2014/02/Wesleyan-Diving-01.jpg	formal references	refe	cier	sport-recreation	transportation			=	tion	tech. and ecology	_	on the shore	ŏ		under the water	ac	inee	residential	public utility	eal	implemented	concept
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642	Data and Description	Ė	Ĺ				Ĺ																
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location	Santa Clara, California, USA	ces	Ce	e /	ڃ						log			vate		ē	leuć	engineering bldg.		>	ind	eq	
author	STUDIOS ARCHITECTURE	ren	ere	nce	atic	ion				_	осо		ore.	/er/		wat	chal	erin	residential	public utility	gue	implemented	concept
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creation date	1995-1999	formal references	cultural references	ref. to science / env	sport-recreation	transportation	science	therapy	material	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	enç	res	puk	offi	imp	cor
purpose	utility, pool	for	Sulf	ref.	gs	tra	scie	the	m	g	tec	e B	o	0	flo	S	tec			1			
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relation to w.	on land, on the water											1		1									
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643	Data and Description																						
object	NAUTICUS - National Marine Museum																						
location	Norfolk, Virginia, USA													L			<u>a</u>	ġ			stry		
author	CENTERBROOK, ARCHITECTS AND PLANNERS	Ses	cultural references	ref. to science / env	_ ا						ogy			located over water		ē	technical challenge	engineering bldg.			office and industry	교	
	http://www.centerbrook.com/project/national maritime center authority	formal references	erer	oc.	sport-recreation	o					tech. and ecology		ē	erv		under the water	hall	inç	<u>ta</u>	public utility	nd i	implemented	concept
illustration	nauticus the national maritime center	efel	refe	cie	Ge e	transportation			=	decoration	nd 6	_	on the shore	9	1	he	g	inee	residential	. <u>:</u>	e a	lem	concept
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author	ESTUDIO B.C., JAVIER BARBA	ren	erer	e)C	atio	o					90		re	er v		wat	hal	J.E.	tial	틭	n i	ente	+	hen
illustration	http://bcarquitectos.com/houses/spain/giro-summer-pavilion/	efel	refe	cie	cre	rtati			_	ţi	g	_	sho	8	_	þe	g	le.	den	i S	e a	em	cep	Prin
creation date	1995	formal references	cultural references	ref. to science / env	sport-recreation	transportation	science	therapy	materia	decoration	tech. and ecology	on land	on the shore	located over water	floating	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
purpose	water pavilion, pool	0.11	Ħ	ef.	ods	ran	scie	her	mai	ge	tec	ou	on 1	000	floa	oun	tecl	Ť	1	T	Ť	<u> </u>		Ť
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676	'	_	rly L	.td. I	Melb	ouri	ne, A	Aust	tralia	a.; h	ttp://	/bca	rquit			J	hou	ses/	spa	in/g	iro-s			
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object location author	Data and Description MONJO HOUSE Minorca, Spain ESTUDIO B.C., JAVIER BARBA						ne, A	Aust						ver water			ge				dustry		pt	ment
object location	Data and Description MONJO HOUSE Minorca, Spain ESTUDIO B.C., JAVIER BARBA http://bcarquitectos.com/houses/spain/monjo-house/	references		science / env.	ecreation	ation					and ecology			ed over water	g.		cal challenge				dustry		ncept	periment
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694	Data and Description											1										Т	Т	
object	CIVIC ARTS PLAZA - VISUAL ART CENTRE	1		١													_	Э.			tī			
location	Thousand Oaks, California, USA	တ္ထ	es	env							gy			iter			nge	ĵplq			dus	_		
author	ANTOINE PREDOCK ARCHITECT	Suce	enc) e	tion	Ë					olos		a)	r wa		ateı	alle	ing	a	ility	.⊑ o	ntec		ent
illustration	http://www.predock.com/ThousandOaks/to3.html	formal references	cultural references	ref. to science / env.	sport-recreation	transportation				ioi	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
creation date	1994	alre	Iral	0.00	t-re(spor	science	ару	material	decoration	. ar	on land	he	ited	floating	er th	nic	əngi	esic	ilduc	Jlic	g l	S	expe
purpose	utility	orm	cult	ef. 1	spor	rans	scie	therapy	mat	dec	tech	o	on t	locs	floa	pun	tech	•	_	1		7	$\overline{}$	_
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relation to w.	on land											1												
impl. phase	implemented																					1		П
source 696	(1999) Water spaces of the world. Volume 2. The Images Publishing Gro Data and Description	up F	ety L	td. I	Melb	our	ne, A	Aust	ralia	a.; ht	tp://v	www	v.pre	edoc	ck.co	om/	Γhοι	ısar	dOa	aks/t	:o3.h	tml		
object	UCB WORLD HEADQUARTERS - INTERNATIONAL BIOPHARMACEUTICAL PRODUCTION COMPANY			>										_			ө	ıg.			stry			
location	Brussels, Belgium	es	ces	/en	_						ogy			ate		ЭŁ	eng) plc		,	ä	g		
author	ASSAR	enc.	eren	ce	atio	o					000		<u>e</u>	er w		vate	hall	ring	tial	tillity	ndi	ente		neu
illustration	http://www.assar.com/en/projects/ucb-hq	formal references	cultural references	ref. to science / env	sport-recreation	transportation			F	decoration	tech. and ecology	_	on the shore	located over water	1	under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	concept	experiment
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purpose	utility	fom	cult	ref.	sbo	tran	scie	the	ma	de	tec	on	on	loc	flos	un	tec				1			
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relation to w.	on land, on the water											1												
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source	(1999) Water spaces of the world. Volume 2. The Images Publishing Gro	oup F	Pty I	td. I	Melb	our	ne, /	Aust	ralia	ı.; ht	tp://v	www	v.as	sar.	com	/en/	proj	ects	/ucb	-hq				
719	Data and Description	_																						
object	COPERNICUS SCIENCE CENTRE	4																						
location	Warsaw, Poland	4																			>			
author	JAN KUBEC,MAGDA GILNER, MICHAŁ TOMANEK, ZBYSZKO BUJNIEWICZ	seo	nces	/ env.	۾						ology			water		ter	llenge	gbld g		ty	office and industry	pe		±
illustration	http://www.kopernik.org.pl/news/n/wislany-bulwar-przy-koperniku-juz- otwarty/	formal references	cultural references	ref. to science /	sport-recreation	transportation	0	,	al	decoration	tech. and ecology	٦	on the shore	located over water	g	under the water	technical challenge	engineering bldg	residential	public utility	ce and	implemented	concept	experiment
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purpose	utility	for	cri	ref	sbo	tra	sci	the	ü	g	te	Б	o	o	flo	un	teo			1				
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relation to w.	wharf												1									_	4	
impl. phase	implemented																					1		
source	http://pl.wikipedia.org/wiki/Centrum_Nauki_Kopernik_w_Warszawie; http	://ar	chin	ea.p	l/wp	-cor	ntent	/upl	oad	s/20	12/1	1/ce	entru	ım_	nau	ki_k	ope	rnik.	_07.	jpg,	28.0	12.20	J15.	
724	Data and Description CHURCH ON THE WATER	4		١.																	2			
object	Hokkaido, Japan	တ္တ	es	- Au							SS.			located over water			technical challenge	engineering bldg.			office and industry			
location	TADAO ANDO	nal references	ural references	to science / env	io	_					tech. and ecology		a)	r wa		under the water	alle	ing	_	lity	ŭ.	implemented		'n
illustration	http://the-talks.com/wp-content/uploads/2017/02/1995-w-02lg.jpg	fere	efer	ienc	sport-recreation	transportation				u	р ес		the shore	ove		e w	ll ch	эө	residential	public utility	au	me	bde	experiment
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purpose	utility	form	cultu	ref. t	род	ans	cier	therapy	mat	gec	ech	on	on t	oca	loat	pur	ech:	Э	ī	1	0	=	9	<u> </u>
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source 725	(2000)Tadao Ando 1983-2000. El Croquis 44+58, Madrid. Data and Description				 	I																<u> </u>		
object	TIME'S SHOPPING CENTER																							
location	Kyoto, Japan			·													(D)	g.			stry			
author	TADAO ANDO	es	ces	, env	_						Sgc			ater		٦ć	eng	l bld			Jdus	٦		
illustration	https://upload.wikimedia.org/wikipedia/commons/thumb/a/ac/Times •	formal references	cultural references	to science /	sport-recreation	transportation				ion	tech. and ecology		on the shore	located over water		under the water	technical challenge	engineering bldg.	residential	public utility	office and industry	implemented	ept	experiment
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Duty December State St	illustration	http://www.nmreef.com/reef-gallery.html	efer	refe	ien	crea	tatic			_	iol -	g		j Por	ove		e v	등	nee	lent	ic ut	e ar	eme	<u>급</u>
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WATER FUNCTIONS inspiration the purpose material environment																							

SUM OF categories	137						
NUMBER of objects	124						
double	13						
triple	0						
in water space							

ANNEX 2

R NAME	LOCATION	AUTHORS
1 FLOATING HOUSES	Hamburg, Germany	ARCHITEKTEN FÖRSTER TRABITZSCH
2 SIX WATER HOUSES	IJ-Burg/ Amsterdam, Netherlands	ART ZAAIJER
2 WATER DWELLING	Middelburg Notherlande	ARCHITECTUURSTUDIO HERMAN
3 WATER DWELLING 4 FUTURE HOUSE	Middelburg, Netherlands London, UK	HERTZBERGER MARCIN PAŃPUCH
5 FLOATING HOUSE	Georgia Bay, Lake Huron, Ontario, Canada	MICHAEL MEREDITH, HILARY SAMPLE
6 HOUSEBOAT	Dubai, United Arab Emirates	X-ARCHITECTS LEEN VANDAELE
	· · · · · · · · · · · · · · ·	MVRDV - Winy Maas, Jacob van Rijs, Nathalie
7 SILODAM	Westerdoksdijk, Amsterdam, Netherlands	Vries,
8 THE SPHINXES	Gooimeerpromenade, Huizen/ Amsterdam, Netherlands	NEUTELINGS RIEDIJK ARCHITECTS
		ATELIER ZEINSTRA VAN DER POL; DOK
9 BASTION ISLAND HOUSING	Leeuwarden, Friesland, Netherlands	ARCHITECTEN
10 OSIEDLE WATERWIJK	Ypenburg, Hague, Netherlands	MVRDV
11 BORNEO -SPORENBURG	Amsterdam, Netherlands	WEST 8, MVRDV
40 AIOLA ICLAND CAFÉ	Comp. Association	VITO ACCONCI/ ACCONCI STUDIO, ROBERT PUNKENHOFER/ ART & IDEA
12 AIOLA ISLAND CAFÉ 13 HONG LUO CLUB	Graz, Austria Beijing, China	MAD/ IDEA
14 Seoul Floating Islands	River Han, Seul	no data
15 Floating Pool Lady	Brooklyn, New York, USA	Jonathan Kirschenfeld Associates
16 Badeschiff - floating pool	River Spree, Berlin, Germany	Gilbert Wilk and Susanne Lorenz
17 Bonte Zwaan	Floating office bldg., Houthavens, Amsterdam, Netherlands	no data
18 Vernon C. Bain Center	River Rikers, New Orlean, USA	no data
19 Floating Soccer Stadium	Gandsfjord, Norway	Snøhetta & Sandnes
Offshore Stadium. FIFA 2022 Football	, . ,	
20 Championships Vision	zmienna	Stadium concept, Peter Knoebel
21 Big Foot. Floating football stadium	Santa Monica, Los Angeles, USA	Heneghan Pen Architects
22 Spa, Volkswagen factory	Wolfsburg, Germany	Max Wehberg
23 Bath island	Havnebad, Kopenhagen, Denmark.	BIG + JDS Architects
24 GATESHEAD MILLENNIUM FOOTBRIDGE	Newcastle, UK	WILKINSON EYRE, GIFFORD&PARTNERS
25 Hydrahouse	zmienna	Office of Mobile Design, Los Angeles, USA
26 Spaceframe – design N55.	London - Amsterdam	N55
27 Snail Shell System	zmienna	N55
00 O Marina Museum	Charles and Communication	Stefan Behnisch, Martin Haas, David Cook
28 Ozeaneum - Marine Museum	Stralsund, Germany	(Behnisch Architekten)
29 Oceanário de Lisboa	Lighan Dartugal	Petera Chermayeff'a and Cambridge Seven
29 Oceanano de Lisboa	Lisbon, Portugal	Associated
		Promontorio Architects; João Perloiro, João Luí Ferreira, Paulo Perloiro, Paulo Martins Barata,
31 River Aquarium	Mora, Alentejo, Portugal	Pedro Appleton
32 TENNESSEE AQUARIUM	Tennessee, USA	CAMBRIDGE SEVEN ASSOCIATES, INC.
33 National Aquarium	Baltimore, Maryland, USA	no data
34 The Florida Aquarium	Florida, USA	HELLMUTH, OBATA+KASSABAUM, INC.
35 SHEDD AQUARIUM&OCEANARIUM	Chicago, Illinois, USA	no data
36 L'Oceanogràfic	Valencia, Spain	Santiago Calatrava, Felix Candela
37 Dolphinarium	Harderwijk, Netherlands	no data
38 La Maddalena Marina	Sardinia, Italy	Stefano Boeri Architetti
39 Nordwesthaus - marina, yacht club	Port Rohner Fussach, Austria	Baumschlager Eberle
40 Museum of the Vistula River	Tczew, Poland	no data
41 Adriatic Hotel	Adriatic Sea	Ivana Filipovic
42 Physalia	mobile	no data
43 Thessaloniki Marina	Thessaloniki, Greece	Giannikis SHOP
44 Royal Opera in Copenhagen 45 EYCHANER/LEE HOUSE	Kopenhagen, Denmark Illinois, Chicago, USA	BAR Architects TADAO ANDO
YOKOGURAYAMA NATURAL FOREST	illinois, Criicago, OSA	TADAO ANDO
46 MUSEUM	Ochi, Kochi Prefecture, Japan	TADAO ANDO
47 PENTHOUSE GARDEN	Hannover, Germany	WES & Partner Landschaftsarchitekten
48 wNw BAR	Province Binh Duong, Vietnam	VO TRONG NGHIA, LTD
49 Burj al Arab Hotel	Dubai, United Arab Emirates	Tom Wright
50 Poseidon Resort	Fiji, Island Katafinga	Bruce Jones U.S. Submarines
51 Underwater bar	New York, USA	Thinkmodo
52 The Water Discus Underwater Hotel	Maledives, archipelago of islands in the Indian Ocean	Paweł Podwojewski, Gdańsk
53 Kansai Internatioal Airport Terminal	Kansai, Osaka Bay, Japan	Renzo Piano
54 International Port Terminal	Jokohama, Japan	Foreign Office Architects
55 Pool	Leca da Palmeira, Portugal	Álvaro Siza
56 Kastrup Sea Bath	Kastrup, Denmark	White Architekter AB
57 Water Glass House	Atami, Japan	Kengo Kuma and Associates
58 Floating catering building	Netherlands and others	Koen Olthuis-Waterstudio.nl
59 BLUR BUILDING	Yverdon-les Bains, Switzerland	ELISABETH DILLER & RICARDO SCOFIDIO
60 City at Sea. Neft Dashlari	Caspian Sea, 45 km away from land	no data
61 Lilypad	ocean	Vincent Callebaut
62 Water Pavilion (DWP)	EXPO 2008 Sevilla, Spain	Carlo Ratti Associatti
63 National Aquatic Center	Beijing, China	PTW Architects
65 Sport Higuerita	Tenerife, Spain	Architects GBGV
66 Aquamundo - Center Parcs	Moselle, France	ARTUR Architectes Mandataire
67 Les Bains des Docks	Le Havre, France	Jean Nouvel
68 Wrocław Water Park	Wrocław, Poland	Architekturbüro Horst Haag, Stuttgart
69 Tropical Islands	Krausnick, Germany	no data
70 Olympic Velodrome and Swimming Pool	Berlin, Germany	Dominique Perrault
71 Nautical Center	Mantes-la-Jolie, France	Dominique Perrault
72 TOTO SEMINAR HOUSE	Tsuna-gun, Hyogo, Japan	TADAO ANDO Joachim Elbe
73 Nuremberg Prisma	Nuremberg, Germany	
74 Aqua Skyscraper 75 THERME VALS	Chicago, USA Canton Vals, Switzerland	Jeanne Gang PETER ZUMTHOR
	Götzis, Austria	FRIDOLIN WELTE, CHRISTIAN LENZ
76 ST ARROGAST WATER DAVIDION	AMICIO, DUBING	I KIDOLIN WELLE, OFINIOTIAN LEINZ
76 ST. ARBOGAST WATER PAVILION 78 WATER VILLAS		UNStudio
76 ST. ARBOGAST WATER PAVILION 78 WATER VILLAS 79 TORPEDO HALL APARTMENTS	Almere, Flevoland, Amsterdam, Netherlands Holmen, Kopenhagen, Denmark	UNStudio TEGNESTUEN VANDKUNSTEN

LANDSCHAFTSARCHITEKTEN 83 T-MOBILE STADT Bonn, Germany JUAN MIRO & MIGUEL RIVERA, MIRO RIVERA 84 LAKE AUSTIN BOAT DICK 85 THAMES FLOOD BARRIER Lake Austin, Texas, USA ARCHITECTS RENDEL, PALMER AND TRITTON Woolwich, London, UK 86 HOTEL ESTALAGEM DA PONTA DO SOL Madeira, Portugal TIAGO OLIVEIRA 88 JESOLO LIDO VILLAGE Jesolo,Italy RICHARD MEIER & PARTNERS 89 ABSBERGGASSE SCHOOL Vienna, Austria São Paulo, Brazil RÜDIGER I AINER 90 HOUSE MIRINDIBA MARCIO KOGAN 91 UNIVERSUM SCIENCE CENTER Brema, Germany THOMAS KLUMPP Düsseldorf, Germany 92 MEDIENHAFEN JSK ARCHITEKTEN 93 HOTEL PALAFITTE Neuchâtel, Switzerland KURT HOFMANN 94 BMW PLANT Leipzig, Germany ZAHA HADID NORVEG MUSEUM AND CULTURAL 95 CENTER Rørvik, Norway GUDMUNDUR JONSSON 96 AUA EXTREMA Neuchâtel, Switzerland GRUPPE MULTIPACK, Didier Scoffidio 97 NEW ROYAL BATH Bath, UK NICHOLAS GRIMSHAW & PARTNERS 98 LIQUIDROM Berlin, Germany on the bank of the river Nervión, Bilbao, Spain GMP ARCHITEKTEN 99 GUGGENHEIM MUSEUM FRANK O. GEHRY 100 EXPLODED HOUSE PROJECT Bodrum, Turkey GAD ARCHITECTURE 101 Residential ON WATER 102 ZIL PASYON SPA RESORT Kiel, Germany Felicite Island, Seychelles GEBR. FRIEDRICH SCHIFFSWERFT RICHARD HYWEL EVANS 103 BAISOUIN TEMPLE KENGO KUMA & ASOCIATES Minato, Tokyo, Japan DENTON CORKER MARSHALL & ROBERT 104 WERR BRIDGE River Yarra, Melbourne, Australia 105 RAY 1 HOUSE Vienna, Austria DELUGAN MEISSL ASSOCIATED ARCHOTECTS COOP HIMMELB(L)AU, ALESSANDRO MENDININI, MICHELE DE LUCCHI, PHILIPPE 106 ART MUSEUM Groningen, Netherlands 107 CITY OF ARTS AND SCIENCES 108 DOCKLAND SANTIAGO CALATRAVA River Turia, Valencia, Spain Hamburg, Germany BRT ARCHITEKTEN 109 PAUL-LÖBE-HAUS Berlin, Germany STEPHAN BRAUNFELS 110 SPA BERGOASE 111 SAN CARLINO Arosa, Switzerland MARIO BOTTA Lake Lugano, Switzerland Lake Aussee, Blindenmarkt, Austria MARIO BOTTA 112 HAUS H. ERNST BENEDER 113 SPA BATHS Bad Aibling, Austria BEHNISCH ARCHITEKTEN 114 QUEENS BOTANICAL GARDENS 115 HEINER-METZGER-PLATZ Flushing, New York, USA **BKSK ARCHITECTS** Neu-Ulm, Germany ATELIER DREISEITL 116 NATIONAL GRAND THEATHER OF CHINA 117 LANGEN FOUNDATION Beijing, China PAUL ANDREU ARCHITECTE Neuss, Germany TADAO ANDO THE PALM ISLANDS: THE PALM JUMEIRAH, THE PALM JEBEL ALI, THE 118 PALM DEIRA; THE WORLD 119 DULWICH POOL HOUSE AL NAKHEEL PROPERTIES Dubai, United Arab Emirates ACQ ARCHITECTS London, UK 120 CYBERHELVETIA Biel-Bienne, Switzerland 3DELUXE ATELIER DREISEITL, HERBERT DREISEITL, GREENWORKS, PC 121 TANNER SPRINGS park Portland, Oregon, USA ATELIER DREISEITL, HERBERT DREISEITL, BÜRO WALTER, WIESBADEN HERBERT DREISEITL. ATELIER DREISEITL. 122 TOWN HALL SQUARE Hattersheim, Germany KURT HOFMANN 123 MUSICAL FOUNTAIN L'AUBIER Neuchâtel, Switzerland ATELIER DREISEITL, JOURDA ARCHITECTS, HHS PLANER UND ARCHITEKTEN ATELIER DREISEITL, HERBERT DREISEIT, WATERCOURSE AT HERNE-SODINGEN 124 ACADEMY Herne Germany WATERCOURSE AND WATER WALL-125 LINDENPLATZ GRUPPE HARDTBERG, AXEL VON REDEN Gummersbach, Germany INTEGRATED WATER DESIGN FOR ING 126 BANK-VIVALDI TOWER Amsterdam, Netherlands NORMAN FOSTER AND PARTNERS HERBERT DREISEITL, ATELIER DREISEITL, OPEN SPACE FOR RESIDENTIAL RENÈ BURKHALTER AG, ARCHITECTUR 127 DEVELOPMENT DESIGN Bern-Ittigen, Germany ATELIER DREISEITL, RENZO PIANO, CHRISTOPH KOHLBECKER
HERBERT DREISEITL, ATELIER DREISEITL, 128 POTSDAMER PLATZ Berlin, Germany 130 WIND- AND WATER-WHEEL Owingen, Germany HUBER & BÖHLER Foster + Partner, Richard Rogers, Thomas Herzog BÜRO WALTER VETSCH, ATELIER DREISEITL 131 SOLAR CITY LINZ Linz-Pichling, Austria 132 BEAR ENCLOSURE AT ZOO ZURICH Zurich, Switzerland 133 OPEN SPACE AND WATER DESIGN Fornebu, Oslo, Norway BJØBEKK & LINDHEIM, ATELIER DREISEITL 134 SONNENHAUSEN ESTATE Glonn, Germany ATELIER DREISEITL ATELIER DREISEITL, JOACHIM EBLE 135 HOUSING ESTATE ARKADIEN ASPERG ARCHITEKTUR Asperg, Sttutgart, Germany HERBERT DREISEITL
ATELIER DREISEITL, CONSERVATION DESIGN 136 GARDEN FESTIVAL Chaumon-sur-Loire, France 137 COFFEE CREEK ESTATE Indiana, USA RAINWATER RETENTION ON THE ATELIER DREISEITI 138 KRONSBERG Hannover Germany 139 THE SCHARNHAUSER park ATELIER DREISEITL; Gerhard Hauber Ostfildern, Germany 140 TOPPILANSAARI park Oulu, Finland ATELIER DREISEITL: Dieter Grau 141 SEWAGE TREATMENT PLANT Handeloh, Germany ATELIER DREISEITL SCHEME FOR THE BANKS OF THE Hagen, Germany ATELIER DREISEITL, RKW ARCHITECTS ATELIER DREISEITL, CONSERVATION DESIGN 143 GREEN ROOF FOR CHICAGO CITY HALL FORUM, McDonough + Partners Chicago, USA 144 REDESIGN LANFERBACH Gelsenkirchen, Germany ROLF KELLER 145 HOUSING ESTATE Echallens, Switzerland ATELIER DREISEITL, THEILER & PARTNER RAINWATER MANAGEMENT IN KREMS 146 BUSINESS park Krems-Ost, Austria ATELIER DREISEITL ATELIER DREISEITL, PASD FELDMEIER & 147 WATER PHENOMENA - COOLING TOWER Gelsenkirchen, Germany WREDE 148 ALNA RIVER Hølaløkka, Oslo, Norway ATELIER DREISEITL, 13.3 MULTICONSULT 149 FOUNTAIN SCULPTURE Immenstaad, Germany HERBERT DREISEITL

STUDIO LOT

SONU + EVA SHIVDASANI

RMP STEPHAN LENZEN

81 HOFGUT HAFNERLEITEN GUEST HOUSE Bavaria, Germany

82 SONEVA FUSHI

Kunfunadhoo, Maledives

THE PEARL OF HANGZHOU WATER ATELIER DREISEITI 152 GARDEN Hangzhou, Chiny 153 EXPO2000 WATER-TRACES Hann, Münden, Germany ATELIER DREISEITL INTERIOR COURTYARD OF AN OLD ATELIER DREISEITL 154 PEOPLE'S HOME Stuttgart, Germany EXEMPLARY WATER MANAGEMENT AT 155 DWR HEADQUARTERS ATELIER DREISEITL, HERMAN HERTZBERGER Amsterdam, Netherlands ATELIER DREISEITL, HERBERT DREISEITL ATELIER DREISEITL, HERBERT DREISEITL WILLIAMS & TSIEN; CARSTEN HÖLLER 156 RESTORATION OF EMSCHER RIVER Ruhrgebiet, Germany 157 WATER PLAYGROUND Pforzheim, Germany Lapland, Finland 158 MEETING SLIDES ABSOLUTE ZERO: A LIGHT HOUSE OF 159 TEMPORALITY Kemi, Finland OSMO RAUHALA: ASYMPTOTE THE MORPHIC EXCESS OF THE 160 NATURAL/ LANDSCAPE IN EXCESS EVA ROTHSCHILD; ANAMORPHOSIS Lapland, Finland 161 UNTITLED (INSIDE) Lapland, Finland RACHEL WHITEREAD; JUHANI PALLASMAA 162 LANTERNS OF URSA MINOR ROBERT BARRY; HOLLMÈN-REUTER-SANDMAN Lapland, Finland 163 COLOURED ICE WALLS Lapland, Finland TOP CHANGTRAKUL; LOT-EK 164 FROZEN VOID Lapland, Finladnia Lapland, Finland ERNESTO NETO; OCEAN NORTH LAWRENCE WEINER, ENRIQUE NORTEN 165 OBSCURED HORIZONS LAWRENCE WEINER, ENRIQUE NI CAI GUO-QIANG, ZAHA HADID JENE HIGHSTEIN, STEVEN HOLL TATSUO MIYAJIMA, TADAO ANDO YOKO ONO, ARATA ISOZAKI 166 CARESS ZAHA WITH VIDKA/ICEFIRE Kemi, Finland 167 OBLONG VOIDSPACE 168 ICED TIME TUNNEL Rovaniemi, Finland Lapland, Finland 169 PENAL COLONY Lapland, Finland 170 FLUID FOSSILS 171 KATZENAUGE/CATSEYE DO-FO SUH, MORPHOSIS LOTHAR HEMPEL, STUDIO GRANDA ANISH KAPOOR, FUTURE SYSTEMS Lapland, Finland Lapland, Finland Lapland, Finland 172 RED SOLID JOHN ROLOFF, DILLER+SCOFIDIO KIKI SMITH, LEBBEUS WOODS MICHAEL GLASSMAN 173 PURE MIX Lapland, Finland 174 SKYPOOL Lapland, Finland Carmichael, California, USA 176 THE NATURAL POOL WAYNE C. CONNORS & ASSOCIATES
THE LARSONS 177 THE NATURAL POOL Santa Ynez, California, USA Indian Wells, California, USA
Palm Springs, California, USA
Beverly Hills, Los Angeles, California, USA 178 THE VINTAGE CLUB 179 THE NATURAL POOL 180 THE NATURAL POOL CLEO BALDON 181 THE NATURAL POOL 182 THE NATURAL POOL Indian Wells, California, USA KEN NORTON WAYNE CONNOR South Palm Springs, California, USA 184 THE SWIMMING POOL DON HENSMAN OF BUFF, SMITH & HENSMAN Brentwood, Los Angeles, California, USA 185 THE SWIMMING POOL GALPER/BALDON ASSOCIATES California, USA 186 THE SWIMMING POOL La Jolla, California, USA KEN RONCHETTI Hollywood, Los Angeles, USA Los Angeles, USA Malibu, California, USA 188 THE LAP POOL 189 Montalbán House CLEO BALDON MELCHIOR, IB MELCHIOR RICARDO LEGORRETA RON GOLDMAN, BOB FIRTH 190 THE LAP POOL 191 THE LAP POOL 192 THE POOL EDGE Pasadena, California, USA Encino, California, USA BUFF, SMITH & HENSMAN GALPER/BALDON ASSOCIATES 193 THE POOL EDGE Montecito Hills, California, USA ROBERT WOOLF 194 THE POOL EDGE Malibu, California, USA BARRY BEER Beverly Hills, California. USA TONY DUOLIETTE 196 THE DUOLIETTE POOL 197 SANTA BARBARA SHARP, MAHAN&LENNY Santa Barbara, California, USA 200 POOL WITH A VIEW: LOBO CANYON Santa Monica Mountains, California, USA CAMPBELL&CAMPBELL-LEAH&PAUL CULBERG Lake Sherwood, Ventura, northern part of Los Angeles, California, 201 POOL WITH A VIEW: LAKE SHERWOOD MARK L. SMITH POOL WITH A VIEW: THE PALO ALTO 202 HILLS Palo Alto, California, USA PETER WRIGHT SHAW 204 INDOOR WATERS: SEACLIFF Seacliff, San Francisco, California, USA LEACH&LEACH, DEL LEACH TIMOTHY MCDONOUGH- SILVERCREEK 205 INDOOR WATERS: WOODSIDE San Mateo, San Francisco, California, USA Corona Del Mar, California, USA DEVELOPMENT 206 INDOOR WATERS: CORONA DEL MAR BART PRINCE 208 INDOOR WATERS:ESCONDIDO San Diego, California, USA RICARDO LEGORRETA TROLL A - OFFSHORE GAS PRODUCTION 215 PLATFORM NORWEGIAN CONTRACTORS FOR NORSKE 80 km northwest of Bergen, Norway SHELL 217 ALUMINIUM FOREST Houten, Netherlands MICHA DE HAAS KLUNDER ARCHITECTEN
MARIA ROSA CERVERA, JAVIER PIAZ, ELOY 218 PLAN TIJ Dordrecht, Netherlands 220 BIONIC TOWER Shanghai, China CELAYA MEINHARD VON GERKAN (VON GERKAN, MARG UND PARTNER) WOLF HILBERTZ 221 LUCHAO HARBOUR CITY Shanghai, China 222 ARCHE SAYA Saya de Malha Bank, Indian Ocean JEAAN HUGUES TRICARD, DL2 DIDIER LEFORT ARCHITECTES ASSOCIÈS DAVID SHARPS Bora Bora, French Polynesia Red Hook, Brooklyn, New York, USA 223 HOTEL LE MERIDIEN 224 LEHIGH VALLEY RAILROAD BARGE #79 225 SHIP-PING 226 ECO-TECH LOFTBOAT 227 AYABE COMMUNITY CENTER Ghent, Belgium WALTER BETTENS, SIEGRID DEMYTTENAERE CUYPERS&Q ARCHITECTEN TADAO ANDO Ghent, Belgium Ayabe-shi, Kyoto, Japan MARLIES ROHMER 228 CITY HOSTEL Amsterdam, Netherlands ARCHITECTUURSTUDIO HERMAN 230 SEMI-WATERHOUSES Ypenburg, Netherlands Berlin, Germany HERTZBERGER 231 FLOATING HOMES GRÜNTUCH ERNST ARCHITECTS 232 FLOATING HOMES H20 Berlin, Germany FÖRSTER TRABITZSCH ARCHITECTS 233 WO29 LOUNGER 234 WOONARK ljburg, Netherlands Amsterdam, Netherlands WATERSTUDIO Jord Den Hollander 235 WATER DWELLING Amsterdam, Netherlands MARLIES ROHMER no data
JEAN-MICHEL DUCANCELLE 236 FLOATING HOUSES British Columbia, Canada 237 ANTHENEA AQUASPHERE no permanent location 239 FLOATEL 2000 WAKI ZÖLLNER Germany 240 GARDEN OF FINE ARTS Sakyo-ku, Kyoto, Japan TADAO ANDO 241 JELLY-FISH 45 242 TRILOBIS 65 GIANCARLO ZEMA GIANCARLO ZEMA 243 KAMAR DIRK SCHUMANN 244 FLOATING RETREAT 245 SEA VENTURE HOTEL SOFTROOM ROBERT POFF 248 LINEAR MARINE CITY KIYONORI KIKUTAKE between Osaka and Kyushu, Japan 249 AZ ISLAND JEAN PHILIPPE ZOPPINI

150 MCLAREN PARAGON

151 CENTER OF EXCELLENCE

London, UK

Stuttgart, Germany

Foster + Partner

Kohlbecker Architects & Engineers

255 UNDERWATER RETREAT TOOLS OFF.ARCHITECTURE Key LARGO, Florida, USA Dubai, United Arab Emirates IAN KOBLICK, NEIL MONNEY JOACHIM HAUSER 256 JULES' UNDERSEA LODGE 257 HYDROPOLIS 258 RED SEA STAR SEFI KIRYATY, AYALA SERFATY ANNETTE LIPPMANN, GUIDO WEINHARDT, SEA&SPACE GMBH 261 SEVEN OCEANS ONE 262 OTTER INN MIKAEL GENBERG Lake Mälaren, Vasterås, Sweden no data ÅKE LARSSON 263 IGLOO Polar Regions 265 ICEHOTEL Jukkasjärvi, Sweden VIENNA UNIVERSITY OF TECHNOLOGY, 266 ICE DOMES INSTITUTE FOR STRUCTURAL ENGINEERING 284 PUENTE LUSITANIA SANTIAGO CALATRAVA JUAN J. ARENAS DE PABLO, MARCOS J. Mérida, Spain 285 PUENTE LA BARQUETA Seville, Spain PANTALEÓN MICHEL VIRLOGEUS, FRANÇOIS DOYELLE, CHARLES LAVIGNE, BRICE GIRARD 286 PONT DE NORMANDIE La Havre, France 287 AKASHI KAIKYO BRIDGE HONSHU SHIKOKU BRIDGE AUTHORITY Akashi, Japan HONSHU SHIKOKU BRIDGE AUTHORITY MOTT MACDONALD, YEE ASSOCIATES 288 TATARA BRIDGE Seto Sea, Japan 289 TSING MA BRIDGE Hong Kong, China 290 GREAT BELT LINK DISSIN+WEITLING between the islands of Funen and Zealand, Denmark GEORG ROTNE LEONARDO FERNANDEZ TROYANO BEN VAN NERKEL 291 ØRESUND BRIDGE Øresund Strait, Denmark-Sweden Pontevedra, Spain Rotterdam, Netherlands 292 PUENTE LEREZ 293 ERASMUS BRIDGE 294 PUENTE VASCO DE GAMA Lisbon, Portugal MICHEL VIRLOGEUX 295 KIEL HÖRN FOOTBRIDGE 296 SOLFERINO FOOTBRIDGE Kiel, Germany JÖRG SCHLAICH, VOLKWIN MARG MARC MIMRAM Paris. France ANTHONY CARO, NORMAN ROBERT FOSTER, 297 MILLENNIUM FOOTBRIDGE London, UK OVE ARUP&PARTNERS 298 LA MUJER FOOTBRIDGE 299 LÄNSISATAMANKATU BRIDGE Buenos Aires, Argentina Helsinki, Finland SANTIAGO CALATRAVA CEZARY M. BEDNARSKI 300 MONOLITH Morat, Switzerland Jean Nouvell 301 HADRIAN'S MILLENIUM BRIDGE 302 KELVIN LINK BRIDGE CEZARY M. BEDNARSKI Carlisle, UK CEZARY M BEDNARSK Glasgow LIK DOWNSTREAM MILLENNIUM BRIDGE 303 "STEEL ART BEAM" Maidstone, UK CEZARY M. BEDNARSKI 304 Nemo 33 Brussels, Belgium no data 305 Y-40 Montegrotto, Padova, Italy no data 306 ENNEÜS HEERMABRUG Amsterdam, Netherlands NICHOLAS GRIMSHAW&PARTNERS LTD Witold Gawłowski STUDIO ARCHI 5 IMB ASYMETRIA 307 KOTLARSKI BRIDGE Cracow, Poland 308 ZWIERZYNIECKI BRIDGE Cracow, Poland 309 ŚWIĘTOKRZYSKI BRIDGE 310 MILLAU VIADUCT Warsaw, Poland KONSORCJUM BMJ GROUP, ANDRZEJ CZAPSKI SETRA, FOSTER&PARTNERS France RION-ANTIRION BRIDGE named in honour 311 of HARILAOS TRIKOUPIS MAUNSELL CONSULTANTS ASIA LTD. ROLP BLAKSTAD 312 TSING MA HANGING BRIDGE 313 MODERN HOUSE - LA CASONA Hongkong, China Ibiza, Spain 314 NO-LIMIT POOL Ibiza, Spain ANDRÈ JACQMAIN 315 Pool Majorca, Spain TONI OBRADOR 316 Pool ROLF BLACKSTAD Ibiza Spain RENOVATION OF A MANOR HOUSE ON B.B.&W ESTUDIO DE ARQUITECTURA, SERGI 317 MAJORCA 318 Pool BASTIDAS, WOLF SIEGFRIED WAGNER JOAN CARDONA Majorca, Spain Ibiza, Spain Majorca, Spain 319 RED HOUSE PABLO CARVAJA, FERNANDO CARUNCHO Girona, Spain LORENZO MARQUÈS 320 Pool WOLF SIEGFRIED WAGNER
VALENTÍN DE MADARIAGA & ERNESTO 321 Pool Majorca, Spain MERELLO 322 Pool Cadiz, Spain CHARLES BOCCARA
GUILLERMO MALUENDA 323 Pool Marrakech, Morocco 324 POOL AT THE ROCK FACE Barcelona Spain ÁNGELS G. GIRÓ & LUIS VIDAL 325 Pool Girona, Spain 326 Pool Ibiza, Spain VICTOR ESPOSITO 327 Pool Marseille, France RLIDY RICCIOTTI B.B.&W ESTUDIO DE ARQUITECTURA, SERGI Majorca, Spain BASTIDAS, WOLF SIEGFRIED WAGNER 329 THE REINTERPRETATION OF WATER Marrakech, Morocco CHARLES BOCCARA A.D.A. MAURICE SAVINEL & ROLAND LE 330 IN THE GARDEN OF THE IMAGINARY BÈVILLON Provence, France 331 Pool Majorca, Spain no data
B.B.&W ESTUDIO DE ARQUITECTURA. SERGI BASTIDAS, WOLF SIEGFRIED WAGNER 332 Pool Majorca, Spain 333 Pool Majorca, Spain WOLF SIEGFRIED WAGNER CHARLES BOCCARA 334 Pool Marrakech, Morocco BUREAU D'ETUDES BRUNO & ALEXANDRE 335 Pool LAFOURCADE, DOMINIQUE LAFOURCADE Les Beaux de Provence, France VALENTÍN DE MADARIAGA & ERNESTO MERELLO 336 Pool Cadiz, Spain Ibiza, Spain ROLF BLACKSTAD 337 Pool RAMON ESTEVE TONI OBRADOR 338 CASA NA XEMENA Ibiza, Spain 339 Pool Majorca, Spain 340 Pool Majorca, Spain JOSEPH LLUIS SERT WOLF SIEGFRIED WAGNER 341 Pool 342 HOTEL CARAVAN SERAI CHARLES BOCCARA Marrakech, Morocco KATLEMAN RESIDENCE-BETWEEN TWO 344 WATERS Los Angeles, California, USA MARMOL & RADZINER PRIVATE RESIDENCE - SCORPION 345 HOUSE JONES STUDIO, INC. Scottsdale, Arizona, USA Aix-en-Provence, France ITA & REGIS MAQUET BUREAU D'ETUDES BRUNO & ALEXANDER LAFOURCADE, DOMINIQUE LAFOURCADE 348 Pool Saint- Rémy de Pce., France B.B. ESTUDIO DE ARQUITECTURA, SERGI 349 Pool Majorca, Spain BASTIDAS ANNE & PHILIPPE BERTHIER Aix-en-Provence, France 350 Pool

NORMAN NIXON DIRK SCHUMANN

250 FREEDOM SHIP

254 PALINURUS

MARINÍ MALAGARRIGA 353 TAGOMAGO VILLA Ibiza, Spain CARLOS FERRATER & JOAN GUIBERNAU JAVIER CLARÓS, EDUARD ARRUGA, PEPOTE COMELLA Menorca, Spain 354 Pool 355 PARC CORBIÈRE PASCALE HANNETEL Le Pecq, France 356 THE PARK ON THE SOMME AT AMIENS JAQUELINE OSTY SUSANA CANOGAR Amiens, France 357 PARQUE JUAN CARLOS I Madrid, Spain HENNING LARSENS TEGNESTUE, SVEN-358 OPEN SPACE AT UNI-BANK INGVAR ANDERSSON Copenhagen, Denmark WEST 8-ADRIAAN GEUZE, THEO REESINK, NIGEL SAMPEY 359 ERASMUS GARDEN Rotterdam, Netherlands AGENCE TER, PARIS(HENRI BAVA, OLIVIER PHILIPPE, MICHEL HOESSLER) Z ALEXANDER WATER CRATER AT THE REGIONAL 360 GARDEN SHOW 2000 BÖLK Westphalia, Germany LA DEHESA DEL SALER, THE COASTAL ALFRED FERNÁNDEZ DE LA REGUERA, 361 ZONE OF LA ALBUFERA Valencia, Spain IGNACIO SALVANS, JORDI SOLÈ BRUNO RICHTER ARKITEKTKONTOR. ARKITEKTLAGET AB UND ARKITEKTURKOMPANIET; WHITE ARKITEKTER 362 NEW USES FOR THE SHIPYARDS Göteborg, Germany New designing strategy of area development 363 along the river Thames Kim Wilkie 364 Square DES TERREAUX THE SQUARE OF HUMAN RIGHTS AT CHRISTIAN DREVET Lyon, France KATHRYN GUSTAFSON Evry, France JAUME ARTIGUES, JORDI HENRICH, MIQUEL ROIG, OLGA TARRASO, ANNA M. CASTAÑEDA 366 Promenade Barceloneta, Barcelona, Spain Malmö, southern Sweden JEPPE AAGAARD ANDERSON 367 Promenade THORBJÖRN ANDERSSON AND PEGE 368 DENMARK PARK Malmö, southern Sweden HILLINGE, FFNS ARCHITECTS Malmö, southern Sweden STIG L. ANDERSSON 369 ANCHOR PARK 370 CATALUNYA PARK Sabadell, Spain ENRIC BATTLE, JOAN ROIG, LLUIS GIBERT HERWIG SCHWARZ, GOTTFRIED AND TONI HANSJAKOB 371 Hydroelectric power plant Vienna, Austria PERE MATEU, JOAN ROMERO, JOSEPH MARIA 372 PORT VELL Barcelona, Spain SERRA JOSEP FUSES, JOAN M. VIADER, JORDI LÓPEZ-VIVES, INGENIERO C.C.I.P. DIRECIÓN GENERAL 373 PROMENADA Palamós, Spain DE COSTAS GUIDO HAGER, FISCHER ARCHITEKTEN, Development of a square in front of the 374 building Zürich, Switzerland MARCEL BARTH, RUDOLF REICHLING ADRIAAN GEUZE, EDZO BINDELS, RENE MAREY, ARNO DE VRIES, GUIDO MARSILLE, GRICHA BOURBOUZE, CYRUS B. CLARK, ERIK OVERDIEP, WIM KLOOSTERBOER KATRIEN PRAK, RAMON JANSEN, MARC MCCARTHY 375 Designing strategy in Duindoornstad Duindoornstad, Rotterdam, Netherlands Single-family house with a pool at the 376 entrance BUD BRANNIGAN 377 Residential house ON THE ROCK MARTIN PICKRELL 378 HAWTHORN COURTYARD RESIDENCE JOHN WARDLE 379 Residential house JMA ARCHITECTS: JOHN MAINWARING TADAO ANDO INARC ARCHITECTS PTY LTD: RENO RIZZO, 381 WATER TEMPLE Tsuna, Hyogo, Japan 382 STUDLEY PARK HOUSE CHRISTOPHER HANSSON; ROBERT BOYLE 383 PIKE-WHITTY RESIDENCE "KATSURA" Birchgrove, Sydney, Australia KEITH PIKE, CATHERINE WHITTY RICHARD SWANSSON 384 Residential house ALEX POPOV 385 Residential house BIRD DE LA COEUR GUZ ARCHITECTS 386 MT. ELIZA HOUSE Mount Eliza, Melbourne, Victoria, Australia 387 Residential house Singapore 388 Residential house SPACE AGENCY: Michael Patroni MARTINE SECCULL ARCHITECTS 389 Residential house WOODHEAD INTERNATIONAL PTY LTD: JOHN 390 Residential house HENRY 391 A JAPANESE-STYLE POND DAVID LUCK ARCHITECTURE 392 L-SHAPED POOL 393 LAP POOL- DALKEITH HOUSE TOSCANO JOE ODDEN RODRIGUES Dalkeith Australia 394 LAP POOL WITH CUBE CLUSTER ALEX POPOV 395 Residential house BATES SMART, HPA PTY LTD 396 BEACH HOUSES New Zealand, Australia HULENA BRENT ALLAN POWELL 397 HILL STREET HOUSE 398 THE PENTHOUSE POOL SJB INTERIORS: ANDREW PARR BRIAN MEYERSON ARCHITECTS PTY LTD HAYBALL LEONARDO STENT PTY LTD 399 CLIFF HOUSE Dover Heights, New South Wales, Australia 400 ELSTERNWICK RESIDENCE Elsternwick, Victoria, Australia ARCHITECTS 401 Residential house GUZ ARCHITECTS
DURBACH BLOCK ARCHITECTS 402 Residential house MCGAURAN GIANNINI SOON PTY LTD 403 BRIGHTON HOUSE Brighton, Victoria, Australia ALUDEAN: LU SKACEJ, DEAN COLLS 404 VESI 405 ROSS STREET HOUSE B.E. ARCHITECTURE O'CONNOR + HOULE ARCHITECTURE Melbourne, Australia 406 ARGO STREET HOUSE Victoria, Australia 407 Residential house ARCHITECTS INK DE CAMPO ARCHITECTS
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INTERLANDI MANTESSO ARCHITECTS 415 BERKELEY DOBSON HOUSE south Melbourne, Victoria, Australia 416 Residential house 417 Residential house STEPHEN JOLSON ARCHITECT 418 Residential house DAVID PONTING ARCHITECTURE 419 EARTH HOUSE STEPHEN JOLSON ARCHITECT

La Cadière d'Azur. France

Menorca, Spain

RUDY RICCIOTI

351 Pool

352 Pool

IMMA JANSANA, BETH FIGURES, FRANCESC between Riera dels Canyara and Calle de Sitges, Spain 421 Promenade MARÍTIMO DE GAVÁ GIRÓ PLOT ARCHITECTS 422 VM HUSENE Copenhagen, Denmark LUNDGAARD&TRANBERG ARKITEKTURFIRMA 423 TIETGENKOLLEGIET Copenhagen, Denmark SCHMIDT HAMMER LASSEN (SHL), ARHUS 424 ROYAL LIBRARY - BLACK DIAMOND Copenhagen, Denmark STOREBÆLT COMING FROM NATURAL BLAIR BIRDSALL A\S STOREBÆLT, 425 ISLAND OF SPROGØ Great Belt Strait, Denmark ADAPTATION OF 19TH-CENTURY FACTORY BUILDINGS FOR A SHOPPING, OFFICE AND SERVICES CENTRE 426 'MANUFAKTURA' Łódź, Poland SUD ARCHITECTES, JEAN MARC PIVÔT 427 BRIDGE OF MEMORY 3 LHD ARCHITECTS NIKOLA BASIĆ Rijeka, Croatia 428 Musical instrument Zadar, Croatia many investors and desigers, including: OLYMPIC DELIVERY AUTHORITY, ODA, LONDON DEVELOPMENT AGENCY, EDAW 429 THAMES GATEWAY London, UK VELODROME and VELOPARK - Velo-sport 430 building with velo-park HOPKINS ARCHITECTS London, UK 431 AQUATICS CENTRE - SWIMMING CENTER London, UK ZAHA HADID 432 OLIMPIC STADIUM HOK SPORT LTD 433 SPORTS COMPLEX RIBERA-SERRALLO ÁLVARO SIZA VIEIRA SPACELAB/UK, SPACELAB COOK/FOURNIER Riera, Cornellá de Llobregat near Barcelona, Spain 434 KUNSTHAUS - museum Graz, Austria 435 PASSIVE MOUNTAIN SHELTER Hochschwab, Austria POS ARCHITEKTEN ATJ Architects, JACEK KWIECIŃSKI, TOMASZ KOSMA KWIECIŃSKI 437 SPLAVY- floating objects Belgrade, Serbia DENTON CORKER MARSHALL, MARK KUBACZKA, BARRIE MARSHALL, STEVE JONES, JOWITA KUBACZKA, ZBYSZKO BUJNIEWICZ, 438 HEADQUARTERS OF BANK SLASKI Katowice, Poland WOJCIECH BADOWSKI, JANUSZ WRÓBEL MUSÉE DES CONFLUENCES. CRYSTAL AND CLOUD OF KNOWLEDGE - THE 439 CENTER OF SCIENCE Lyon, France COOP HIMMELB(L)AU students of the Silesian University of Technology: ALEKSANDRA KUBOŚ, SONIA PAROL, 440 WATER PAVILION supervisor: ANDRZEJ DUDA APA WOJCIECHOWSKI, WITOLD DUDEK, IZABELA PIETRASZEK-KUBICKA, MICHAŁ 441 HOTEL MARINA DIANA Białobrzegi nad Zalewem Zegrzyńskim, Poland SADOWSKI, SZYMON WOJCIECHOWSKI 442 THE WHAI F Sporenburg, Amsterdam, Netherlands FRITS VAN DONGEN CONSTRUCTION ON THE ISLAND KNSM-443 EMERALD EMPIRE JO COENEN Island KNSM, Amsterdam, Netherlands CONSTRUCTION ON THE ISLAND KNSM -HANS KOLLHOFF, CHRISTIAN RAPP 444 PIRAEUS Island KNSM, Amsterdam, Netherlands KEES CHRISTIAANSE, JO CREPAIN, 445 Residential buildings on JAVA island Island Java, Amsterdam, Netherlands GEURST&SCHULZE **NEUTELINGS RIEDIJK** 446 LI-TOWER Island Java, Amsterdam, Netherlands Amsterdam, Netherlands UN STUDIO/VAN BERKEL&BOS 447 PIET HEIN TUNNEL 448 Pedestrian and cycle bridge Borneo-Sporenburg, Amsterdam, Netherlands WEST 8 KOEN VAN VELSEN CHRISTIAN RAPP 449 VOS HOUSE- House nr 120 Borneo, Amsterdam, Netherlands 450 H-HOUSE Borneo, Amsterdam, Netherlands 451 BORNEO 12 BUILDING NR 26 Borneo, Amsterdam, Netherlands 452 KURSAAL CENTRE Avenida de la Zurriola, San Sebastián, Spain JOSE RAFAEL MONEO ARQUITECTO authorSKA PRACOWNIA designOWO-PLASTYCZNA 453 WHITEWATER KAYAKING COURSE Kościuszko water ledge on the Vistula river, Cracow, Poland 454 STAR CITY CASINO, HEALTH CLUB POOL Sydney, New South Wales, Australia THE COX GROUP JC PENNEY LIFE INSURANCE COMPANY 455 PLANO Texas, USA HKS INC. HPA/MIRVAC GROUP Melbourne, Victoria, Australia Las Vegas, Nevada, USA 456 QUAY WEST 458 FOUNTAINS OF BELLAGIO WET DESIGN 459 TECHNOLOGICAL CENTRE C.N.R. PICA CIAMARRA ASSOCIATI, G. SQUILLANTE Naples, Italy 460 HOTEL LOTTE CHEJU RESORT Island Cheju, South Korea WIMBERLY ALLISON TONG&GOO 461 Museum FLOWERHILL KISHO KUROKAWA ARCHITECT & ASSOCIATES Wakayama, Japan 462 MEDICAL CENTRE HEALTH PARK Fort Myers, Florida, USA HKS INC.
DEVELOPMENT DESIGN GROUP, INC. 463 WESTGATE Harare Zimbabwe 466 NTT SHINJUKU BUILDING PLAZA SQUARE Tokyo, Japan BALMORI ASSOCIATES, INC. 467 101 COLLINS STREET-SKYSCRAPER 468 MEMPHIS BOTANIC GARDEN Melbourne, Victoria, Australia Memphis, Tennessee, USA JOHN BURGEE NEW YORK THE HAIZLIP FIRM COMMONWEALTH LAW COURTS FORECOURT- Square in front of the court Melbourne Victoria Australia HASSEL PTYLTD 471 building 473 CATHEDRAL SQUARE - HOTEL Brisbane, Queensland, Australia WOODS BAGOT 474 THE VENETIAN RESORT HOTEL CASINO WIMBERLY ALLISON TONG&GOO Las Vegas, Nevada, USA ARCHITEKTEN SCHWEGER + PARTNER 475 HAUS DER DEUTSCHEN WIRTSCHAFT Berlin, Germany INTERNATIONAL CONFERENCE CENTRE KISHO KUROKAWA ARCHITECT&ASSOCIATES RTKL ASSOCIATES INC. 476 OSAKA Osaka, Japan 477 CITRUS PARK TOWN CENTER Tampa, Florida, USA 478 PALACE OF THE GOLDEN HORSES Kuala Lumpur, Malaysia WIMBERLY ALLISON TONG&GOO NEW WING OF THE VAN GOGH MUSEUM-Amsterdam, Netherlands KISHO KUROKAWA ARCHITECT&ASSOCIATES 480 EASTGATE - SHOPPING CENTRE Harare, Zimbabwe DEVELOPMENT DESIGN GROUP INC. VAUGHAN LANDSCAPE PLANNING&DESIGN 482 BAYSHORE GARDENS Vancouver Canada LTD VAUGHAN LANDSCAPE PLANNING&DESIGN 483 SUZHOU SHERATON HOTEL Suzhou, China INGENHOVEN OVERDIEK LIND PARTNER 484 RWF AG HEADQUARTERS Essen, Germany 485 FENG CHIA UNIVERSITY J.J.PAN&PARTNERS Taichung, Taiwan 487 SEARS HEADQUARTERS Hoffman Estates, Illinois, USA PERKINS&WILL

BUD BRANNIGAN

420 WRAPAROLIND POOL

SUPERBLOCK PLAZA, SAN BERNARDINO CIVIC CENTER - Square in front of the KATHERINE SPITZ ASSOCIATES AND 488 building San Bernardino, California, USA DMJM/KEATING HYATT REGENCY WAIKIKI RESORT & 491 SPA WIMBERLY ALLISON TONG&GOO Honolulu, Oahu, Hawai, USA 492 BOYMANS-VAN BEUNINGEN MUSEUM HUBERT-JAN HENKET ARCHITECTEN BNA Rotterdam, Netherlands 493 DIAL CORPORATION HEADQUARTERS Phoenix, Arizona, USA HKS INC. MITCHELL/GIURGOLA ARCHITECTS LEGORETTA ARQUITECTOS&HKS INC. Westlake/Southlake, Texas, USA 495 DENMARK PAVILION EXPO 2000 Hannover, Germany PETER BYSTED, BYSTED A/S 496 HEADQUARTERS OF J.D.EDWARDS&CO. 497 SHANGRI-LA HOTEL, GARDEN WING 498 REUNION ARENA-HALL Denver, Colorado, USA FENTRESS BRADBURN ARCHITECTS WIMBERLY ALLISON TONG&GOO Singapore Dellas, Texas, USA Irving, Texas, USA HKS INC. 499 HEADQUARTERS OF GTE TELECOM HKS INC. 500 SUNTORY MUSEUM Osaka, Japan TADAO ANDO 502 EASTON TOWN CENTER Columbus, Ohio, USA DEVELOPMENT DESIGN GROUP INC. 503 TOKYO DOME SPORTS STADIUM 504 TEUCO-GUZZINI OFFICE BUILDING WET DESIGN PICA CIAMARRA ASSOCIATI Tokyo, Japan Nanles Italy 505 ATLANTIS-HOTEL Paradise Island, Bahamas WIMBERLY ALLISON TONG&GOO&HKS INC. 506 TAMPERE HALL 507 FUORIGROTTA NEW SQUARE ARKKITEHTITOIMISTO AARTELO, PIIRONEN PICA CIAMARRA ASSOCIATI Tampere, Finland Naples, Italy 508 WATERMARK HOTEL WOODS BAGOT Brisbane, Queensland, Australia HKS INC. WET DESIGN 510 BARNETT PLAZA Tampa, Florida, USA 511 MIRAGE VOLCANO 512 LAS VENTANAS AL. PARAISO Las Vegas, Nevada, USA Los Cabos, Mexico HKS INC 513 GRAINGER, INC. Lake Forest, Illinois, USA PERKINS&WILL 514 MILLBROOK RESORT Arrowtown, New Zealand ATHLETIC FACILITY, SIMON'S ROCK 515 COLLEGE OF BARD - Indoor pool Great Barrington, Massachusetts, USA CENTERBROOK ARCHITECTS AND PARTNERS 516 HOLIDAY INN BALI HAI - HOTEL DEVELOPMENT DESIGN GROUP INC. Bali, Indonesia 517 HOTEL KLASSIS WATER PARK WILD WADI JUMEIRAH Istanbul, Turkey ATELIER D'ART URBAIN ARCHITECTS 518 BEACH RESORT WS ATKINS CONSULTANTS LTD Dubai, United Arab Emirates ELS ARCHITECTURE AND URBAN DESIGN 519 LIVE OAK COMMUNITY CENTER Santa Cruz, California, USA 521 OASIS Park Hashima Country, Gifu Prefecture, Japan ENVIRONMENT DESIGN INSTITUTE CENTER FOR PHYSICAL ACTIVITY FOR 522 STUDENTS STRIAR CENTER OF JEWISH Athens, Georgia, USA CANNON DESIGN, CDH PARTNERS 523 COMMUNITY Stoughton, Massachusetts, USA CENTERBROOK ARCHITECTS AND PLANNERS MOODY GARDENS AQUARIUM-MORRIS ARCHITECTS 524 OCEANARIUM Galveston Island, Texas, USA 525 WATERSPORT CENTRE, DIVING TOWER ELS ARCHITECTURE AND URBAN DESIGN Stanford University, California, USA NAOSHIMA CONTEMPORARY ART 526 MUSEUM&ANNEX TADAO ANDO Kagawa, Japan VAUGHAN LANDSCAPE PLANNING&DESIGN 528 NITOBE GARDENS Vancouver, B.C., Canada LTD 529 SHOPPING CENTER CAMBRIDGESIDE ARROWSTREET INC. Cambridge, Massachusetts, USA VAUGHAN LANDSCAPE PLANNING&DESIGN 531 DR SUN YAT-SEN GARDEN 532 MYSTIC MARINE LIFE AQUARIUM Vancouver, B.C., Canada CESAR PELLIASSOCIATES INC Mystic, Connecticut, USA 534 OLIMPIC TRAINING CENTRE Colorado Springs, Colorado, USA CANNON DESIGN 535 ALANBREA RESIDENTIAL ESTATE Attwood, Victoria, Australia HASSEL PTY LTD. JEAN-PAUL VIGUIER, PATRICK BERGER, ARCHITECTS AND ALAIN PROVOST, GILLES 536 CITROEN PARK CLEMENT LANSCAPE ARCHITECTS Paris, France MARKING HIGH TIDE AND WAITING FOR VALIGHAN I ANDSCAPE PLANNING&DESIGN 537 LOW TIDE PAVILIONS, DAVID LAM PARK Vancouver, B.C., Canada 538 MINGARA RECREATION CLUB 539 RITZ-CARLTON HOTEL&RESORT Sydney, New South Wales, Australia WOODS BAGOT DILEONARDO INTERNATIONAL INC. 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729 UNDERWATER MUSEUM (MUSA)

730 Underwater statue 731 Spatial grid

732 Underwater tunnels

733 Underwater tunnels made from pipes

734 Glass domes 735 Training platform 736 Shi Cheng (Lion City) 737 Neptune Memorial Reef

738 Marine Museum 739 Bridge 740 HAFENCITY WHARF

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743 Botanic garden 744 Cultural centre 745 PAUL KLEE CENTRE 746 IMPERIAL WAR MUSEUM

747 WATER WORLDS EXHIBITION PAVILION

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