

Hydropolis Proposed Concept





Architecture, Design: Siemens Industrial Bulliding Consultants, 3deluxe, system modern gmbh







HYDROPOLIS or the Beginning of a New Era of Hotels.

The medium WATER as a basic aetiological elixir of life is of great significance. Simply the fact that man himself consists to 75% of water, and that his well-being requires regeneration of his basic substance "water" makes this element so significant. "Sanus per aquam" (health through water), commonly abbreviated as SPA, is therefore not a trend, but rather an expression of health-consciousness, a synonym for well-feeling, and of harmony of body, mind, and spirit.

With Hydropolis, an habitat will materialise for the first time worldwide which sets completely new standards with respect to the quality of experience and living. Hydropolis provides an ambience in the last uninhabited frontiers on earth in which a visit will be an unforgettable experience in the life of each individual guest. The distinctiveness of this unique hotel resort results from the harmonic interaction of the exceptional site as well as to the holistic architectural and atmospheric composition corresponding to the site. This creates a spatial effect which detaches the guest from the routine of his daily structures of perception and evokes unaccustomed sensual impressions.

Hydropolis is a splendid refuge far away from the stress factors of everyday business life and is ideally suited for guests from top management seeking to regenerate their inner strength.

Hydropolis is structured in three elements: the land station, the connecting tunnel, and the submarine complex. The land station is the reception and welcome centre for the hotel's guests. The connecting tunnel is the lifeline of the complex and not only provides access for guests, but also enables provisioning of the hotel with all the necessary goods. And finally, the submarine complex is the hotel itself with its wide range of unique additional facilities.

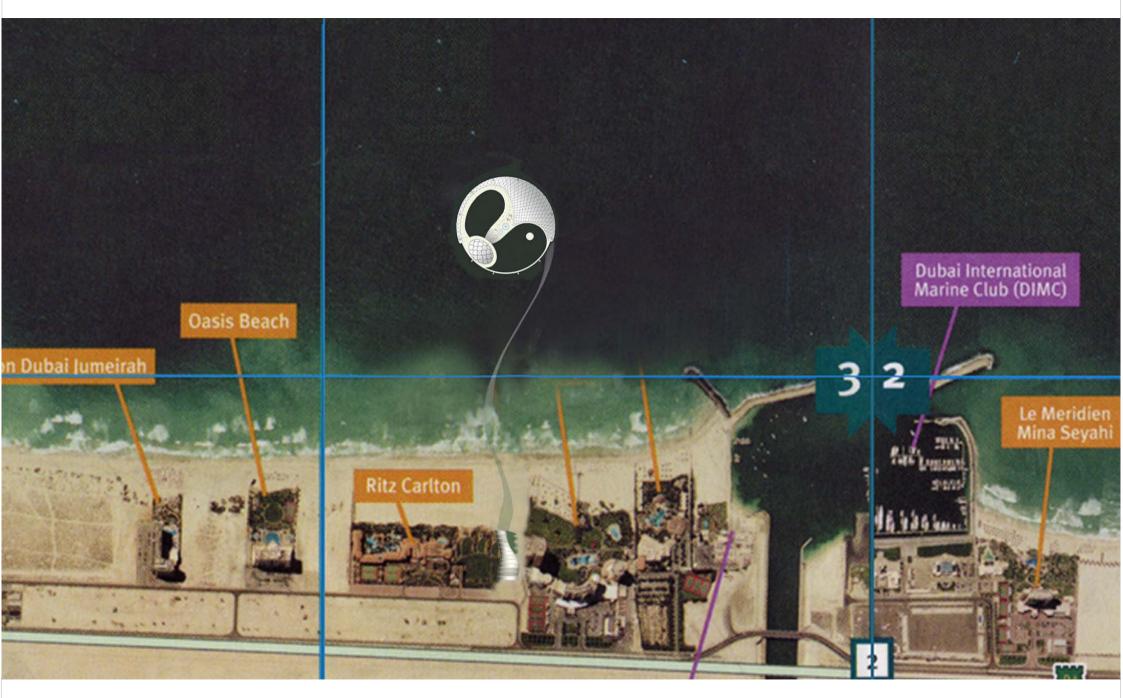
















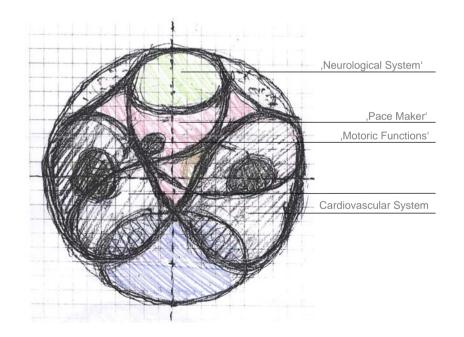


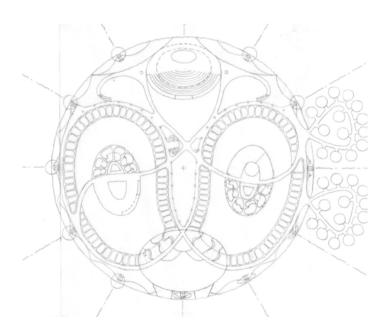
Elementary Experience of "Presence" in an Augmented Reality

- Hydropolis imparts a unique impression of distinctiveness and exclusivity; an attraction that does not diminish after a first phase of curiosity.
- Guests from all over the world and from all cultures will be attracted by a multitude of offers, which simultaneously address "Mind, Body and Soul" in an unparalleled manner.
- Hydropolis offers experiences, adventures, and impressions on all levels of human perception, which in this combination have a sustained effect on thinking and sensation. All imaginable requirements regarding luxury and service will be fulfilled as a matter of course. At the same time, guests undergo a process in which their material needs and apparent dependencies become less dominant as the guest comes into contact with the elementary richness of "presence" and sensation.
- All features in the artificial reality of Hydropolis are guided by the consideration of how they will support the path to inner tranquillity and strength.

Biogenetic Architecture

- As all life has evolved in water, mankind is elementarily and inseparably connected with water.
- The concept of Hydropolis offers the unique opportunity of reproducing the human organism in an architectural design.
- There is a direct analogy between the physiology of man and the planned architecture.
- The "Lemniscate" the figure eight lying on its side is the key symbol for worldly wisdom. The spaces thus created can be regarded as the spatial correlation to the essential systems of the human organism: The nervous system, the motoric functions, and the cardiovascular system. Offset and brought forward from the centre is the "sinus knot", the pulse generator for all life.





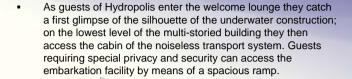


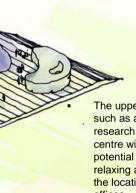


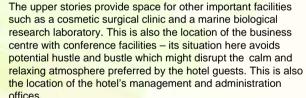


The Land Station

- The land station is the stage for the arrival and descent into the underwater world, and, respectively, the return to land.
- A characteristic feature is a woven, dynamically narrowing and expanding semicircular cylinder over a length of about 120 m which arches over a multi-storeyed building and an ample shadowed area.
- Visitors and guests will be welcomed and received through a large gate-like opening in the form of a semicircle with a diameter of over 35 m. A bridge over the desert sand leads to the "island", which offers facilities for the most diverse of functions.



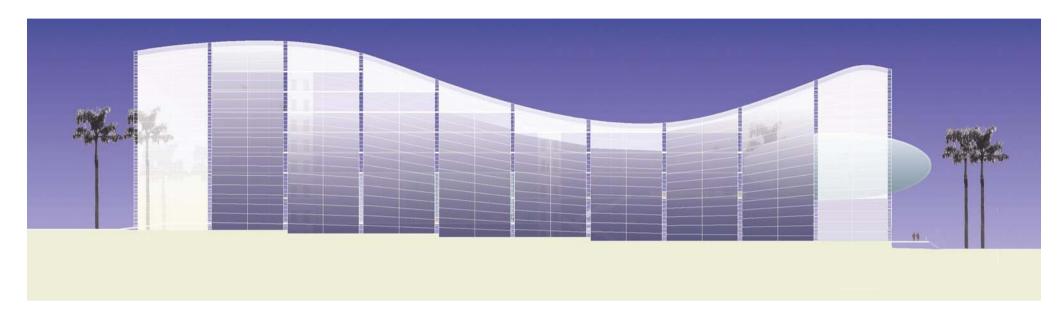




- Also situated on the lower levels of this site are the staff rooms, goods storage and loading, important technical centres securing the maintenance and logistics of the underwater hotel, as well as parking areas for guests, visitors, and staff.
- A special highlight for visitors at this location is a restaurant and a high-tech cinema in which the history of underwater architecture as well as the evolution of life in the ocean will be shown. A viewing platform at the front opening of the spanning roof structure allows stunning views by day and night of the architecture and the light shows of Hydropolis.









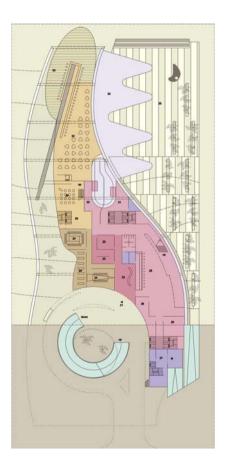






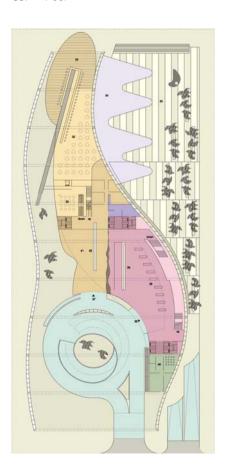
- 1. Staff changing room
- 2. Office
- 3. Technical room
- 4. Social room
- 5. Laundry
- 6. Storage
- 7. Staff canteen
- 8. Loading ramp / storage
- 9. Garbage
- 10. Kitchen
- 11. Technical room

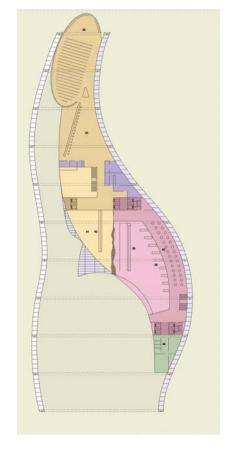
- 12. Hotel guest station
- 13. Hotel visitor's station (departure)
- 14. Hotel visitor's station (arrival)
- 15. WC.
- 16. Hotel guest lifts
- 17. Waiting lounge
- 18. Hotel visitor's lifts
- 19. Underground parking
- 20. Staff and goods station
- 21. VIPs guest entrance
- 22. VIPs guest reception



- 23. VIPs guest lounge
- 24. Conference
- 25. Hotel lounge bar
- 26. Hotel shop, bookstore etc.
- 27. Hotel staff entrance
- 28. Hotel visitor's lifts
- 29. Lobby
- 30. Hotel guest station (departure)
- 31. Hotel guest station (arrival)
- 32. Seafood restaurant
- 33. Beach terrace bar
- 33. Pool

- 35. Garten terrace
- 36. Hotel entrance
- 37. Visitor's entrance
- 38. Hotel lounge
- 39. Hotel reception
- 40. Aesthetic surgery and office lobby
- 41. Visitor's centre
- 42. Visitor's information
- 43. Hotel Café
- 44. Aesthetic surgery and office lobby
- 45. Cinema bar
- 46. Sea-view cinema

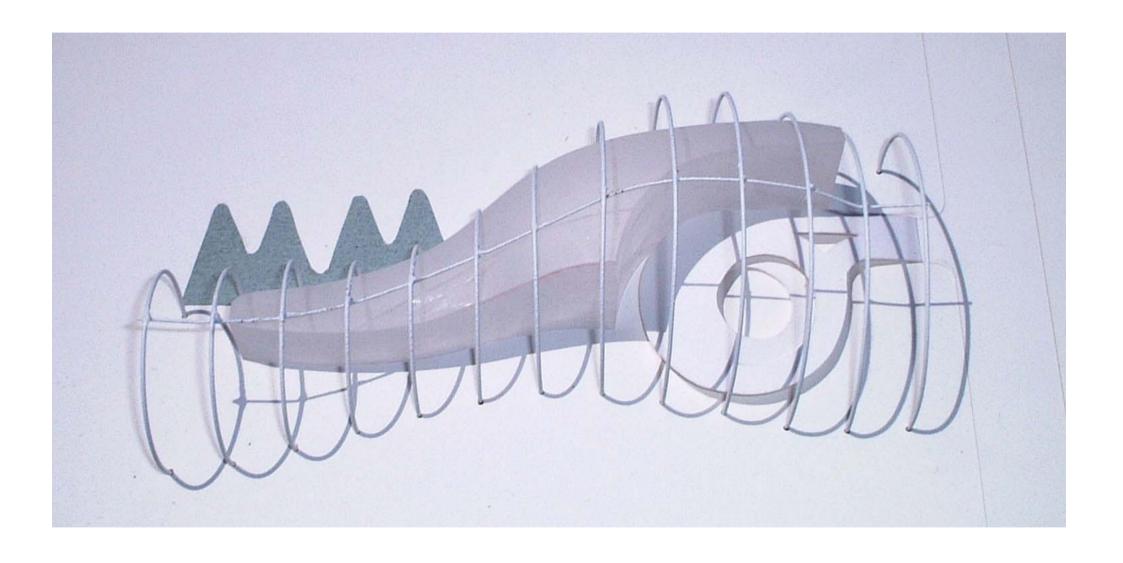








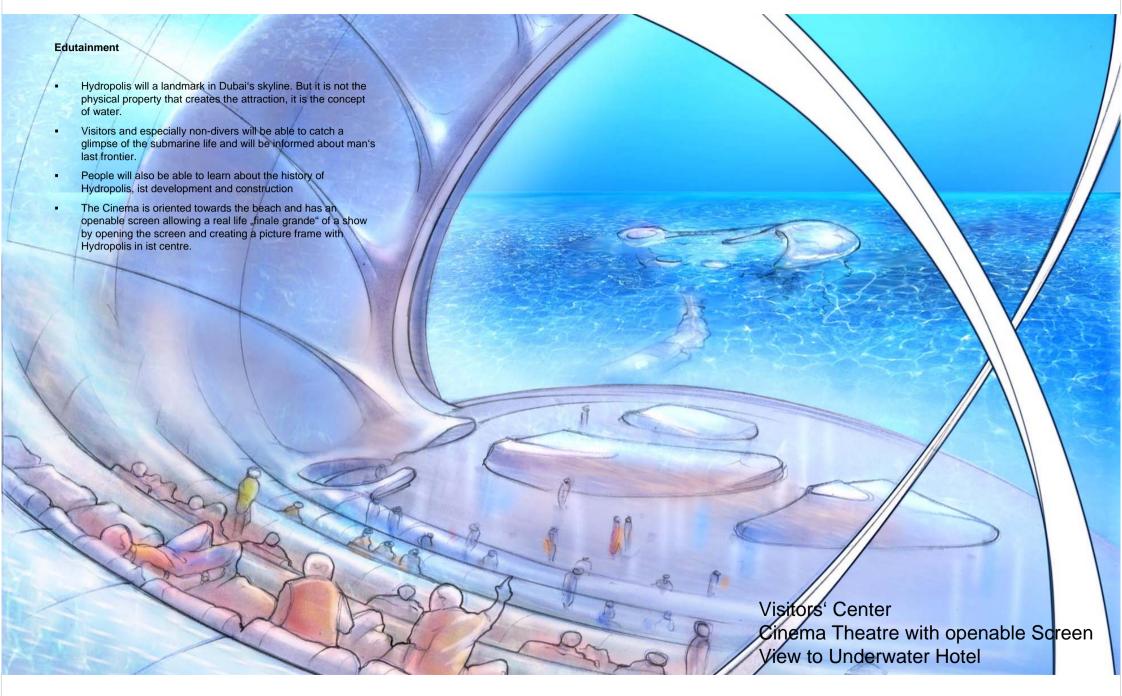




























Train system Excursion submarine

Port protection

Underwater Sonar Sytem Conrol Center

The three systems used are:

- -Microwave field
- -Flectric field
- -Seismic (vibration) field

Tunnel connection

Connection system

All transports – guests, visitors, staff and goods will be facilitated by a single, highly efficient and safe train system.

There will be a station in the landside building and a station in the underwater hotel – connected by a double track tunnel. There will be different types of cars for different kinds of persons to be transported. Hotel guests and visitors will be transferred by a separate type of car, specially fitted with a high-spec interior. Staff and goods will be transferred with a second type of car, which allows to load palettes, which will be pre-packed in the logistics center on land to minimize waiting time and storage space in the hotel. A just-in-time and on-demand logistical system will facilitate efficient supply and disposal of the hotel.

- The system is envisaged to be a fully automated cable propelled transportation system. The system consists of the following main components.
- A modular, self-supporting steel guideway designed for tunneled application.
- Vehicles (operated and monitored from a central control room and run on rubber tyres for a smooth and quiet ride)
- A fail-safe electro-mechanical system
- Automatic platform doors
- Propulsion and traction for the train is provided by the cable, instead of relying on friction between tires and guideway. A secure and detachable grip assembly forms the mechanical connection between the train and the cable which is accelerated, decelerated and stopped by a stationary machine drive system. This means that there is no motor, drivetrain or other oil-dependant devices on the train, creating a top level of security.
- The design of the station will allow the separation of different people flows.
- The system will have a flexible capacity, with a max. capacity of up to 1000 persons/hour/direction.

Security

- Security plays a central role both for the concept and the operation of the entire facility.
- This primarily concerns the subjective feeling of security and this depends mainly on whether the guests expose themselves to the thrill of this experience, and whether the dream of living and experiencing under water overrides potential inhibitions. Experiencing daylight in the public areas plays just as important a role as the language of design with its subjective and "reliable" constructions. Both major and minor dome and arch constructions (e.g. arched windows) support this requirement.
- Apart from the subjective security requirement, which must be taken very seriously, it is in fact the technical and verifiable security which minimises risk and guarantees security. This includes double-layered construction as appropriate as well as redundant technical systems (pumps, power supply, etc.), an excellent system of easy to understand emergency exits in the event of evacuation for safety reasons, highly effective control and fire-fighting systems in case of fire and smoke to minimise danger and damage.
- A further security aspect makes Hydropolis to a unique location worldwide: Both with respect to discretion as well as optimally controllable accessibility, Hydropolis will be a desirable location for people requiring protection. The multilevel security system includes:
 - 1. Protection from aerial threats by aircraft or missiles.
 - 2. Protection from threats from the water surface or from under water.
 - Protection from unauthorised access.
 - Control and monitoring of access of personnel, hotel guests, day visitors, banquette guests, membership guests, suppliers, maintenance and service personnel, etc.
 - 5. Monitoring and control of parking facilities.
 - 6. Monitoring and control of the premises.

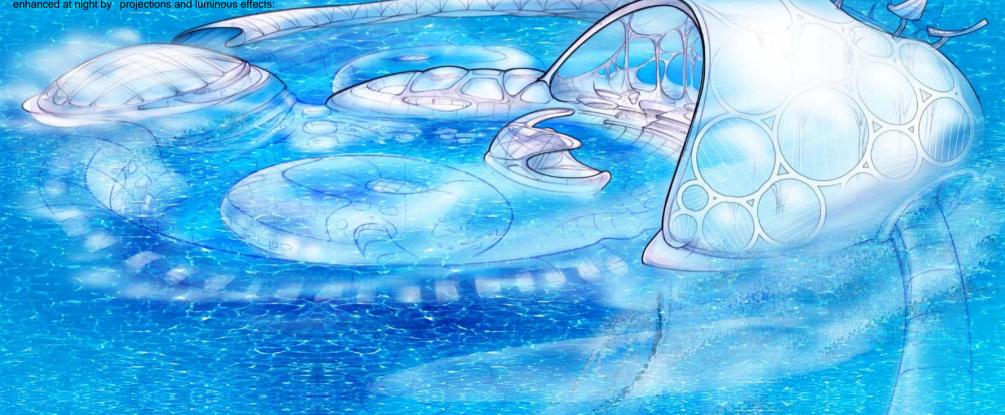






Prominent Silhouette in the Dubai Skyline

- The roof constructions are organically formed from the organising power line system and the areas below, especially the hall, the ballroom, and the spa.
- The form-giving construction is supplemented with constructions to provide shade for the exterior spaces – shadow is a valuable commodity.
- An important motto gives occasion for further significant design elements: Hydropolis will be the first and only location in Dubai, where staying out in the open even at the summer temperature levels will be a delight;
- This will be brought about by artificial clouds of fog, by setting air in motion over the surface of the water in connection with the mild shade of bloating sails and artificial clouds of constructions.
- These constructions make Hydropolis a dynamic and alternating landmark, and will be enhanced at night by projections and luminous effects:



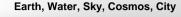




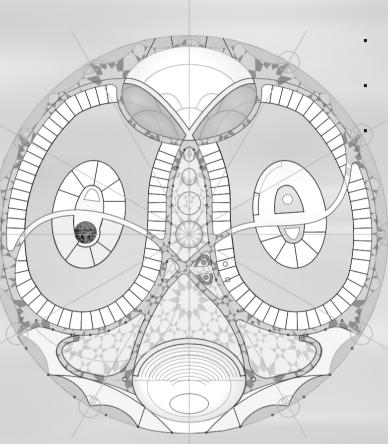


Geometric System between Symmetry and Complex Dynamic

- The basic geometric element is an eight inscribed in a circle.
- This is supplemented by various asymmetric pathways from the basin and the hall which also serve to connect the storeys in a ramp-like manner.
- The ballroom (nerve centre) is integrated into this endless loop of circulation.
- Positioned next to the asymmetric pathways are spaces in the basin which contain special functions such as restaurants, bars, meeting rooms and theme suites.
- Special attributes of these areas is the three-dimensional moulded shaping with interesting upward, downward, and sideward views.
- These elements also act as an identity-giving visual focus into the basins which compliment the surrounding suites.
- The underwater structure is not merely a vertical structure; the subtle inclination of the primal vertical section relate to a spherical centre still to be defined. This design also defines the horizontal offset of the two facing room levels as well as the slant of the façade of the hall.



- References to famous buildings from various eras can enrich the calendrical and cosmic impressions: specific staging of predefined solar and lunar positions, incorporation of the stars at night.
- The ballroom will have a spectacular retracting roof which, climate permitting, will enable the staging of "open sky" events.
- Smaller rooms can be spectacularly located above the surface of the water thus providing a unique feeling of height and overview.
 - A sunken city, sunken garden landscapes, a view of the facing structures, dominated by the fact that visibility under water does not extend more 15 m and that beyond a depth of 15 m darkness sets in.









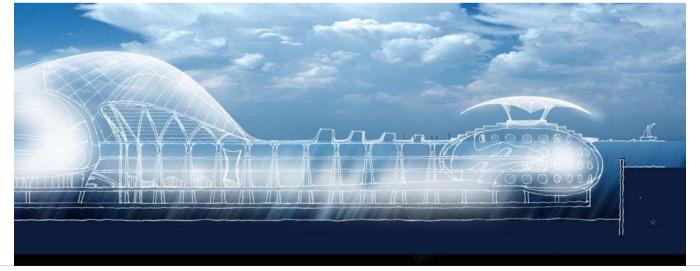
Ballroom

- The ballroom is situated in the most public area of the hotel.
 This will allow the realisation of events in which visitors who are not also hotel guests can participate.
- Aside from the spa, this large domed room is the only one which in addition to its reference to water also strives towards the sky.
- On beautiful nights, a large petal-like skylight can be opened (even at high exterior temperatures the cool air will remain within the volume). Thus, sound and light from outside can be experienced.
- A further unique characteristic of the ballroom is the panorama window to the underwater stage which allows for special performances and also constantly visualises the underwater experience. In addition, this area has a further large "eye" to the central hall which can be opened for suitable events.

- Amply dimensioned staircases, elevators, and ramps, provide access to the ballroom which make entering and leaving the ballroom a theatrical experience in itself.
- The ballroom is ideally suited for banquettes, theatre performances, or large congresses. Amply dimensioned flanking catering areas ensure that even the highest catering requirements can be fulfilled.
- An elaborate acoustic system provides ideal conditions for any variety of events. This also applies to the lighting.
- Smaller scale lounge-like area are allocated to the ballroom; various bar areas in the hall, above the domed construction, and on the beach can be accessed from there.



- The spa area imparts the breathtaking and ample atmosphere of a Roman thermae.
- The spa area will provide new wellness methods and facilities especially developed for Hydropolis – these therefore will be unique worldwide.
- The health areas will be supplemented and enhanced by methods of hydro-therapy, i.e. healing with and through water. High quality compounds made based on special ocean pharmacy will be used in the beauty areas.
- The individual beauty and health areas are arranged as galleries which project far out of the domed area out over the surface of the water.
- The liquid-sound-pool is situated in the centre, from which guests can enjoy not only the panorama view, but also the projections onto the calotte-shaped overhead structure. The pool is surrounded by sculptured objects of crystal glass which create spectacular visual impressions.
- The interior of the spa area has ramp-like gangways which connect to the overhead outdoor area including beach locations.
- Sail constructions provide shade on the beach which is also cooled by clouds of fog; these are also a visible landmark from a distance and will be illuminated by colourful projections at night.





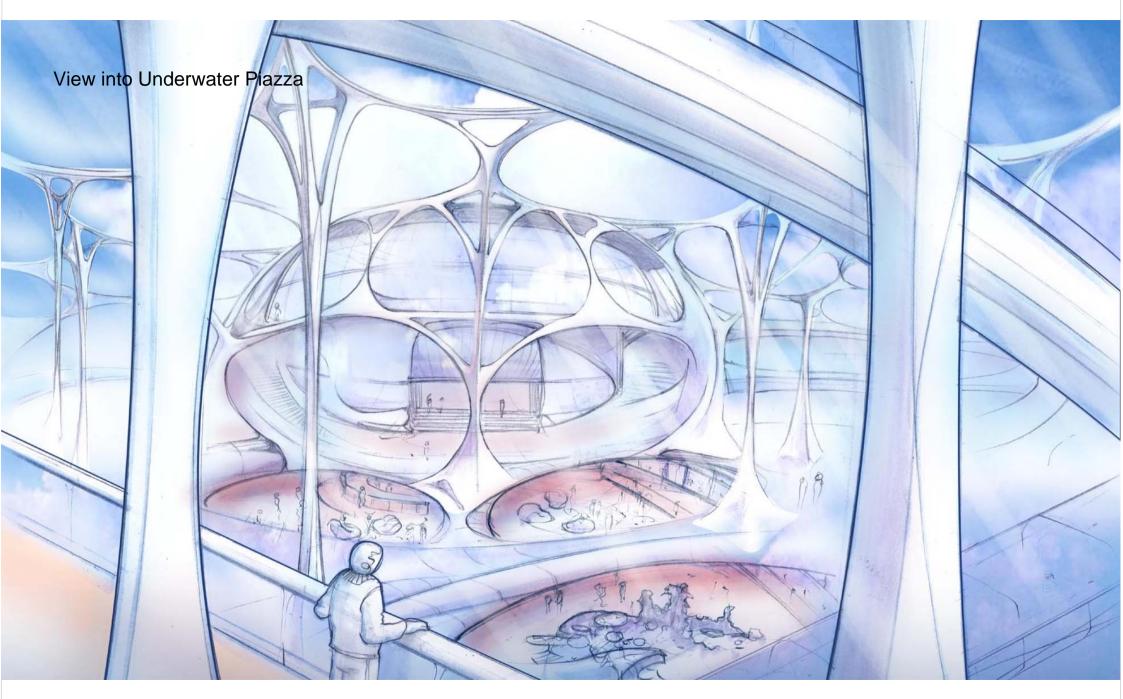






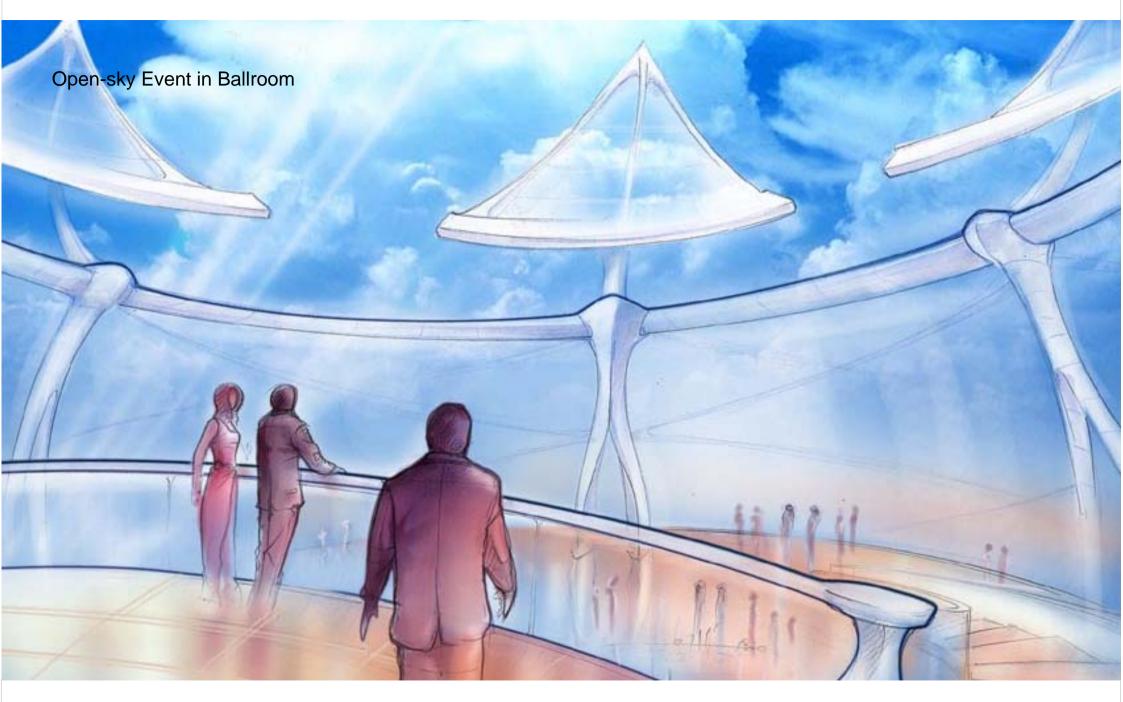








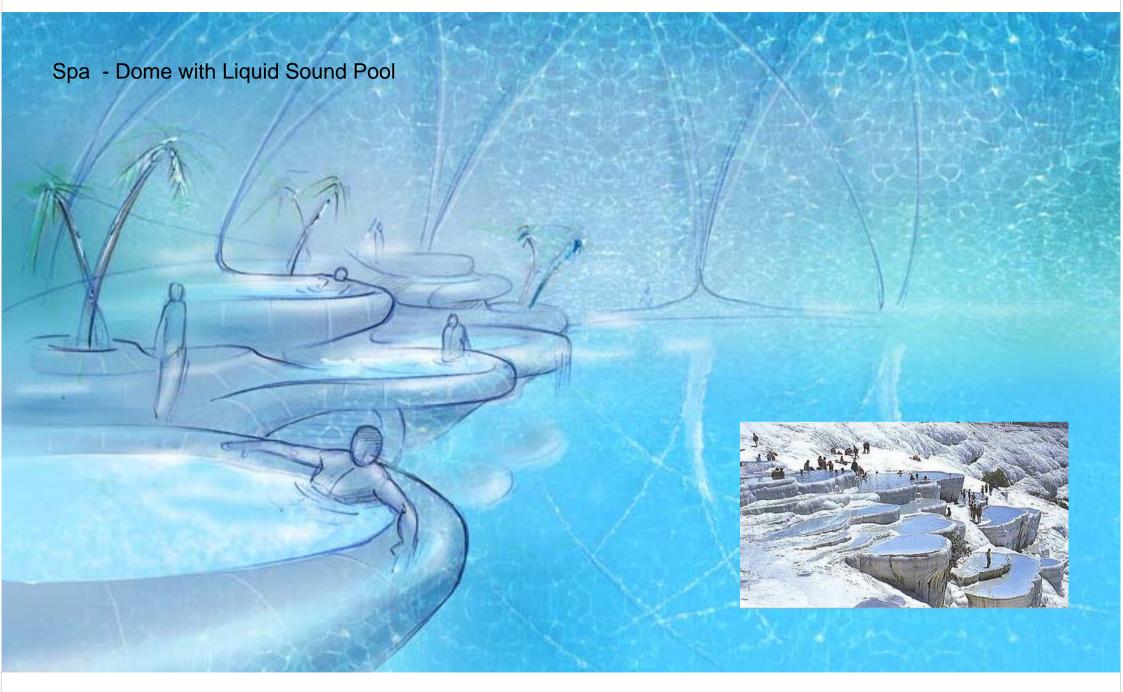
















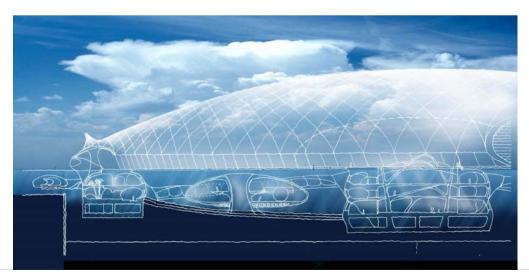


Hall

- The hall is the backbone of the entire facility the central area of encounters, of orientation, and
 of circulation. It represents the visible and feasible connection between the sky, the water, and
 the earth. Day and night moods can be experienced here.
- This space is characterised by its impressive height, the mild penetration of light through the membrane of the roof, and the powerful dynamic of the skeletal stone structures straining against the water – the latter also form the roof structure.
- Galleries and pathways with bridges and water tubes apparently intersecting at random animate the space.
- Amply dimensioned staircases, elevators, ramps, and lounges provide access to an apparently
 floating ballroom. A multi-storey narrow slit the intersection of the "eight" allows the anticipation of
 the fascinating spa-dome in the background.
- Water basins and fountains are integrated into the floor area. A two-layered glass construction
 with kinetic lighting elements facilitates alternating projections of arabesque ornaments and gives
 this space the impression of an indefinable depth.
- At night, alternating motives will be projected onto the roof membrane which can be perceived not only from the inside, but also from quite some distance on the outside.
- In the direction of the spa, the floor level gradually ascends and thus effects a tapering off perspective.

Restaurants, Bars and Shops

- The culinary experience has a direct connotation with the Hydropolis experience. Not only the range of food and beverages corresponds to a great extent to the subject of water and the all-embracing concept of mental, physical, and spiritual relaxation, but also the moulding of the architectural hull as well as the interior architecture.
- Three restaurants, each with 150 seats, provide a harmonic diversity of culinary theme worlds: the
 Oriental flair of the Lebanese kitchen, the diversity and lightness of maritime delicacies, and
 ayurvedic life which addresses all senses.
- The Nautilus bar arouses reminiscences of Jules Vernes' vision of life in the deep sea, the Havana bar with its exquisite cigars and fragrances of water pipes and heavy leather armchairs is situated close to the water line, the Sky bar permits a view not only into the depth of the Hydropolis organism, but also of the breathtaking skylines of Dubai and Palm Island.
- Another attraction of Hydropolis are the exclusive shops in the central hall. Most of the items for sale have a direct reference to the subjects of the flora and fauna of the ocean: jewellery, beauty and health products, fashion.









Concert and Culture

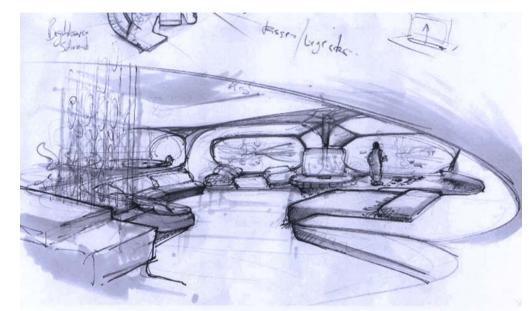
- Hydropolis will be a synonym for concerts and cultural events of the highest level in Dubai. Famous festivals will make both the venue of the events as well as Dubai as a whole more known.
- Art will be an integral component of the external and internal design. This applies both to the permanent fittings as well as the usage of this unique ambience for temporary installations.
- It is intended to address the growing group of people who
 integrate the cultural component into their leisure activities,
 who can afford to travel around the world to visit an exhibition,
 to listen to a concert, or to have the opportunity of meeting
 with artists.
- Hotel guests and visitors can watch concerts and theatre productions featuring famous soloists and ensembles from the arena steps which are upholstered with comfortable cushions
- Indoor concerts can simultaneously take place in the ballroom.
- The ballroom can be opened towards the hall for matinees and thus be utilised as a stage.
- And underwater museum area provides the unique opportunity for high-level artistic events in Dubai; this will also support the perception of Dubai as a first-class cultural venue. A worldfamous arts foundation could take over the trustee function for this underwater museum.

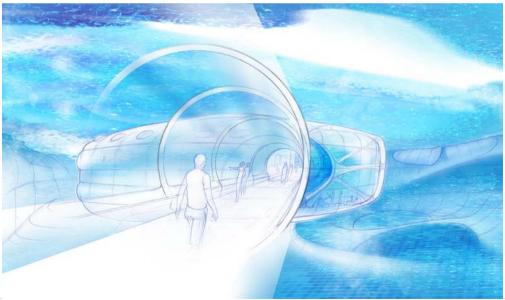


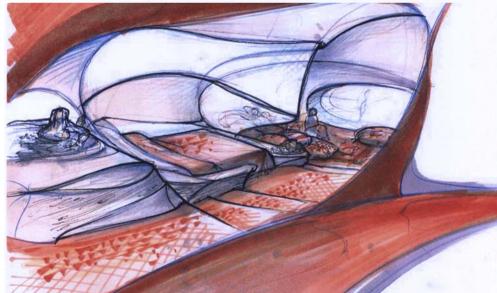


The Suites

- The heart of well-feeling in the underwater world are the suites. Here, for a few days, guests can literally experience diving into another world, the life elexir of water, an element with which we are both familiar with but also strangers to. Far away from the world of the right angle, dominated by an atmosphere of absolute lightness of colours and materials, light and transparent fabrics, leather, fine woods, discreet illumination with biodynamic light which adjusts itself to the moods and the time of day.
- The interior architecture stages the view into sunken garden landscapes and a sunken city both
 by day and night the contours and the lights of facing dynamic building structures can only just be
 diffusely made out. Light objects, and their slow, wavy movement impressions have both a
 fascinating and soothing effect.
- For people still needing to feel comfortable with living under water, there are suites adjoining the hall with windows opening onto the familiar world of a "street", with daylight and the generous proportions of a multi-storied complex.
- Individual and external "ocean-villas" in the upper area of the exterior ring have been implemented
 as pressure-resistant "bubbles"; theme-suites in the elliptical island provide a number of varying
 spatial experiences.







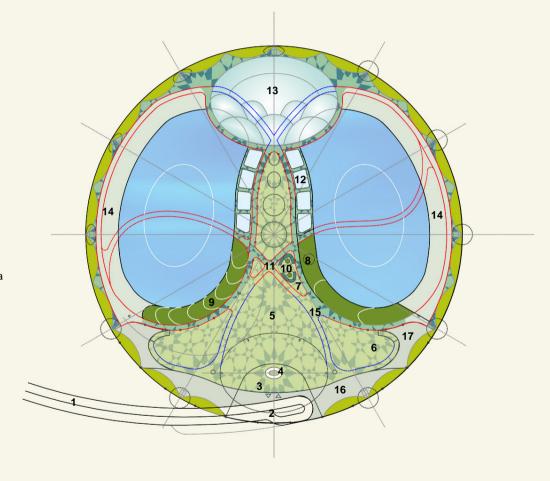






Floor Plan Scale 1:1000 Level -3

- Transport System Arrival and Departure Area
- Station Hall
- Reception and Information Main Hall
- Restaurant
- Cafe/Bar
- 8 View to Submarine Restaurant
- 9 Shops and Services
- 10 Central Stairwell
- 11 Ramp
- 12 Seminar Suites
- 13 SPA
- 14 Plant and Machinary
- 15 Ramp to Ballroom and Conference Area
- 16 Support Area Administration Toilets Storerooms etc.
- 17 Kitchen



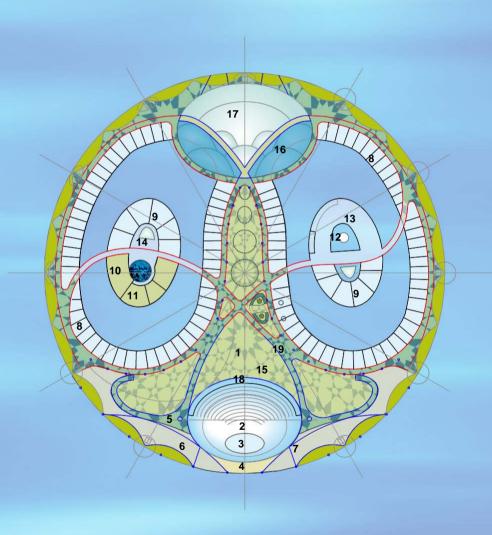






Floor Plan Scale 1:1000

- Support Rooms Massage etc. 17 SPA











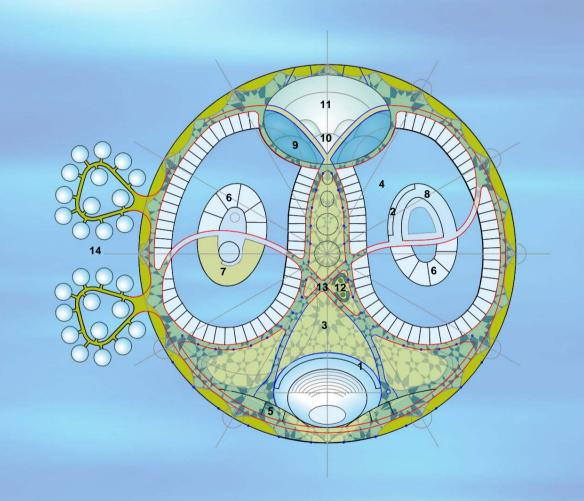






Floor Plan Scale 1:1000

- Ballroom Gallery
- 2 Gallery Rami
- 3 Main Hal
- 4 Conference Rooms
- 5 Support Rooms for Conference Area Storage, Toilets, Tea Room
- 6 Hotel Suites
- 7 Restaurant
- 8 Art Gallery
- 9 SPA Support Rooms
- 10 Air Space over SPA
- 11 Caissons
 Technical Rooms
 Storages
 Hotel Support
- 12 Vertical Connecting
 Units including stairs
 lift and
- 13 Central Vertica
- 14 'Sea Villa



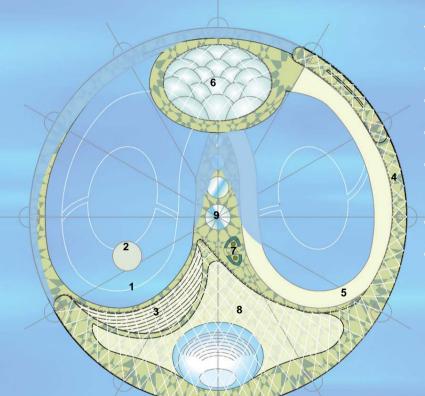






Floor Plan Scale 1:1000 Level 0

- 1 Concert Area
- 2 Stage
- 3 Spectator's Tie
- 4 Promenade
- 5 'Beach
- 6 Wellness Area
- 7 Vertical ConnectingUnit
- 8 Roof Structure above
- 9 Glazed Roof Light



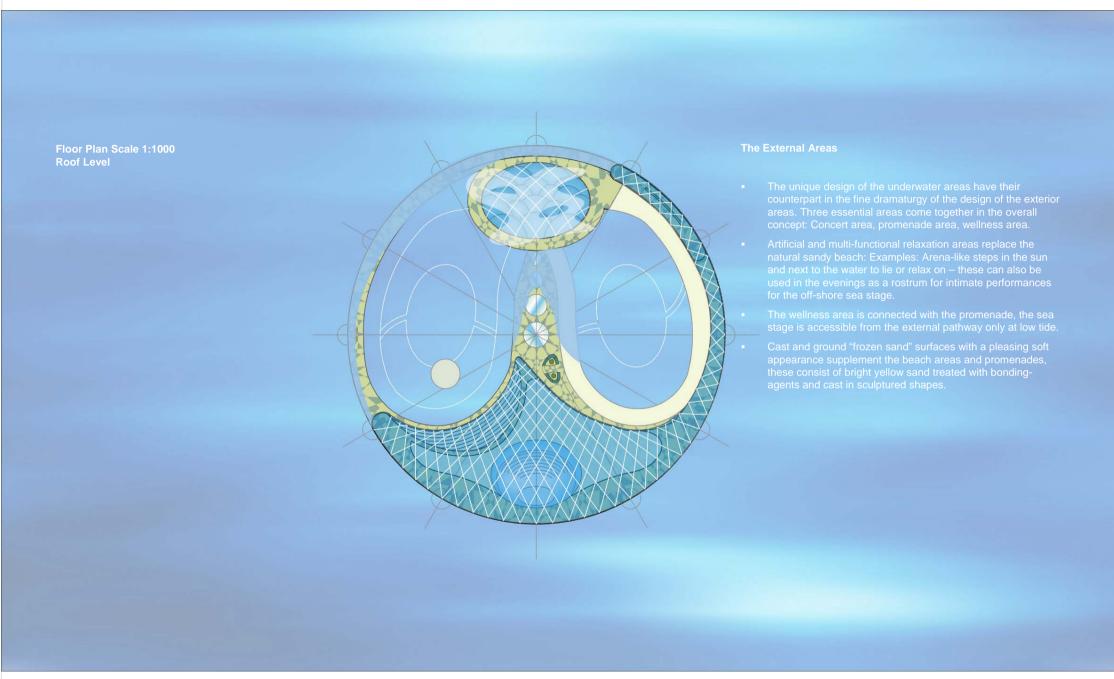
Theme Pavilions and Pathway

- The circular exterior corridor will have the glass skylight just under the surface of water.
- This strip serves as a circular pathway which will be just above the water level at low tide.
- The thoroughfare connects floating theme pavilions which are located at a secure distance of about 70 m from the stairways.
- Themes for these pavilions are: silentium, e-library, Nautilus docking station, bar, water pipe smoking room, women's leisure room. Here there is also adequate space for contemplative prayer rooms facing East.
- Adequate vents for air intake and exhaust, and elevators for vertical transport are incorporated onto the staircases.
- Rhythmic expansions make the exterior pathway more interesting, both levels are connected with each other by means of open spaces and small interior gardens.









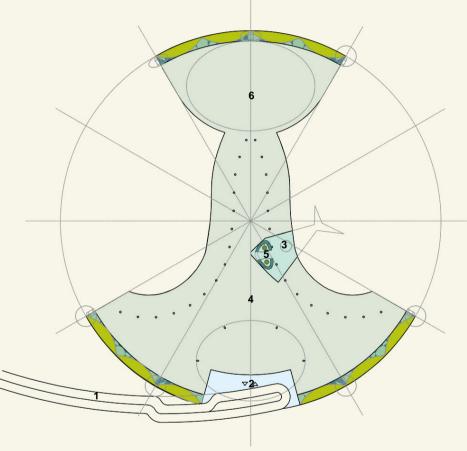






Floor Plan Scale 1:1000 Level -4

- 1 Transport System
- 2 Delivery Area
- 3 Submarine Restaurant (access from level above)
- 4 Plant and Machinary/Storage
- 5 Vertical Connecting Units including stairs, lift and air-conditioning
- 6 'Caissons'
 Various Functions:
 Air-Conditioning
 Storage
 Staff Rooms etc.



Construction

- Floating caissons towed to the site enable the construction of the facility in dry surroundings.
- The cavities in the caissons provide the required space for piping and tubing, decentralised air conditioning systems, storage and preparation rooms, restaurants and staff rooms.
- As the building gradually increases in height and weight during the construction process, it will be gradually lowered until it reaches its final position and will then be firmly anchored.
- For reasons of weight the construction within and above the caissons will consist predominantly of concrete – the visible areas will consist of high-quality fairfaced concrete and will be moulded dynamically and naturally along its power flows.
- This type of construction will be especially prevalent in the grid-like skeletal structure of the dome above the hall which will be spanned by an extremely thin translucent membrane.







LANDSIDE		m²
	Parking	6.000
	Train station and technical rooms	4.500
	Logistics, technical rooms, kitchen	3.100
	Hotel lobby and backoffie	1.600
	Visitor centre, cinema, restaurant	4.700
	Aesthetic surgery clinic	3.200
	Office	5.500
HYDROPOLIS HOTEL		2
HTDROPOLIS HOTEL	To aborized and atmost and areas	m²
	Technical and structural areas	24.000
	Restaurants, cafes, kitchen, storage are	
	Atrium, traffic area	7.100
	Kiosks and shops	800
	Train station and technical areas	3.400
	Spa and Spa technical areas	6.700
	Suites (ca. 220)	14.500
	Banquet, conference, addional areas, ba	nquet stc 6.500
	Press, bar, meeting	450
	Exhibition, Underwater Art	2.850
	Beach area	6.000
	Spectators tier	1.400





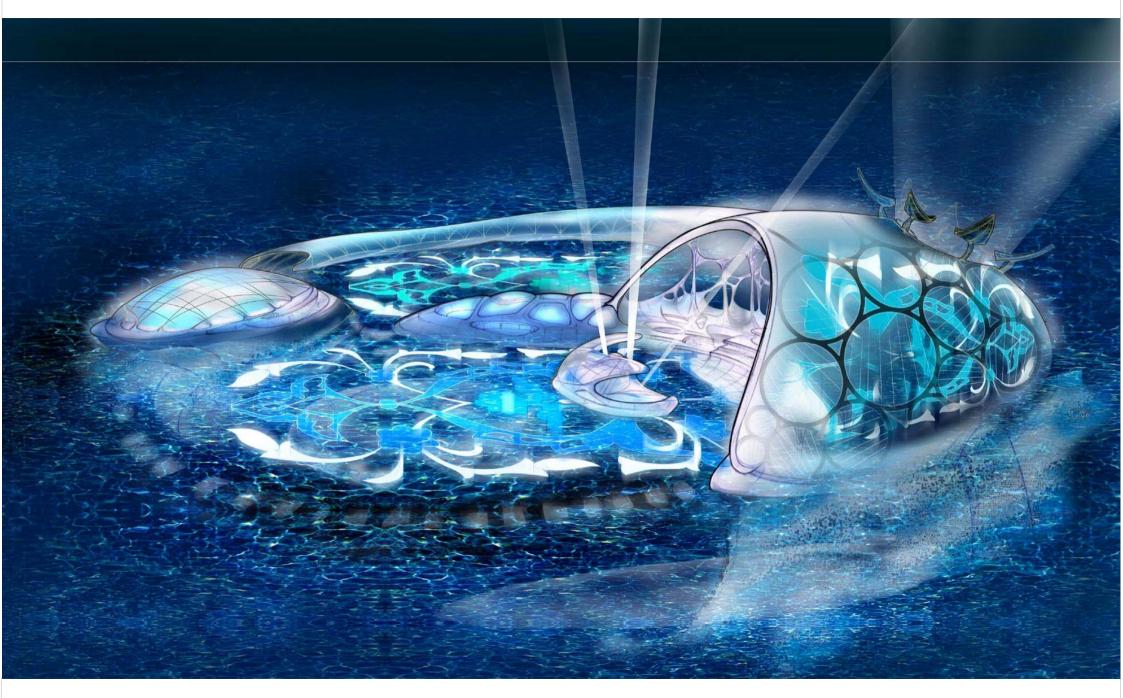


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Stage III: Pre-Planning / R&D-Stage				
Philemany Design & Engineering Budding Permission Planning / Coordination with Authorities Submission of Budding Permission Planning Submission of Budding Permission Planning Approved to Budding Permission Schematic and Detailed Planning and Engineering / Value Engineering Detailed Planning Permission		x		
Stage V: Construction Phase				
Marine Surveying Preparation of Sites (Land, Sea, Connection) Construction (Land, Sea, Connection)				
Stage VI: Fit-out Phase Technical Fit-out				
Interiour Fit-out External Works (Reef)				
Stage VII: Commissioning and Pre-Opening Operation Commissioning (Land, Sea, Comedian External Works (Red and Marine Life) Pre-Opening Operations	ons .			
Stage VIII: Official Opening and VIP-Month Official Opening December				X X



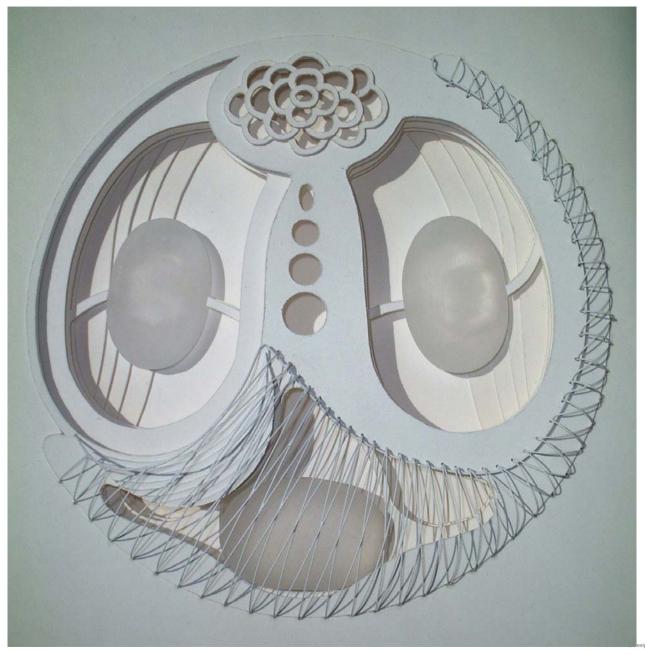






























The harmonious interaction of extraordinary location and an architectural and atmospheric/media design that is truly commensurate to it are what makes this unique resort hotel different.

External impact

The high-profile architecture of the Hydropolis Resort is highlighted during both the day and the night by means of multimedia. A water screen positioned between the mainland site and the underwater hotel temporarily blocks a view of the building that breaks the water's surface. At night the fine spray is illuminated by colored, moving light or images projected onto it. The underwater sections of the building likewise feature complex illumination.

The artificial cloud above the Spa area forms a permanent, spectacular landmark.

Underwater world

Within the ring shaped hotel building, a fascinating semi-natural underwater landscape is created, visible from most of the the sub-maritime rooms. An LED matrix forms a 3D ornament consisting of dots of light, gripping the viewer both at day and at night. Illuminated glass objects and artificial plants made of optical fibers form additional highlights. A dynamic choreography of water bubbles, swirled sand and carefully deployed lighting effects creates a kind of "underwater fireworks".





Multimedia atmospheres in the interior

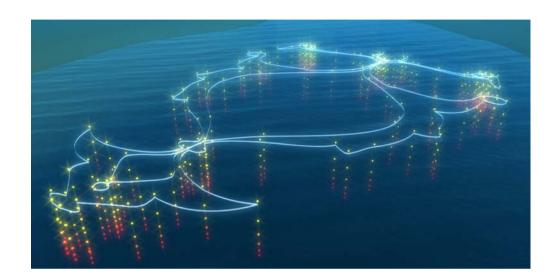
Motifs from traditional Arab architecture, ornamental decoration and landscaping are interpreted using modern means, with maritime themes rounding out the overall arrangement. The different atmospheres alter during the course of day and night, such that the building seems to be a living organism. Varying light patterns, relaxing sounds and pleasant aromas result in an intense experience, liberating guests from their day-to-day structures of perception and evoking multi-layered sensual impressions.

The suggestive atmosphere calls for a contemplative attitude, of being immersed in your inner self. The attendant spiritual clarity and enhanced sense of perception have a beneficial effect on the physical and psychological regeneration of the hotel guests as well as on their powers of judgment and self-reflection.

The architectural design and multimedia setting in the foyer appeal to all the senses at once, meaning that on arrival hotel guests feel they have been transposed into a completely different world. Along the central axis of the hall runs a walkway of illuminated water fountains controlled interactively by motion sensors. The movement of the water and light follows that of each person walking along the path. During the night, ornamental projections dance on the inside dome of the foyer's roof.

All the hotel rooms have a window offering a magnificent view of the underwater world. The control panel in the room enables guests to change the multimedia setting in front of the window and thus give their environment a personal touch. Moreover, the spatial atmosphere of the suites can be altered via a selection of lighting moods, sound compositions and aromas.

The sea stage is a visual eye-catcher even when there are no performances. The floating platform is surrounded by a ring of water fountains that temporarily shroud it. During the day, the sunlight dances in the dense screen of water, and at night the latter serves as a screen onto which images and colored/moving light is projected.





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