



# Underwater Structures

## Executive Summary

### BUSINESS SUMMARY

Our Industry Leading Partners were formed to design and build underwater vehicles, structures, habitats, and permanent sea floor structures. The original project was the engineering of the world's first undersea resort, the Undersea Resort project, now under development at a private island in Fiji. Based on the millions of dollars of engineering associated with the resort planning, our Partners are now able to offer undersea residences and commercial buildings (e.g. casinos, restaurants, office space, etc.). Our Partners can build an undersea structure and install it anywhere in the world with appropriate water depths and conditions.

Our Partners, U.S.I., formed in 1993 to build a wide range of civil submarines, including personal luxury submarines to 65m in length, tourist submarines, commercial submersibles, deep submersibles for marine science research and luxury deep submersibles for yacht-based operations. The company has operated continually for 16 years and is the only firm of its type in the world with such a broad ranging product line with a specific division formed to concentrate on the design, sales and construction of the high-end line of luxury deep submersibles for yacht-based/private use.

### OFFERINGS

- The World's first undersea residence and the possibility to develop undersea subdivisions. Access from shore by a pier and entrance to the facility by elevator or access by yacht, helicopter or submarine.
- Undersea commercial buildings such as restaurants, executive office spaces, observation areas and casinos. All structures are one atmosphere and require no change in pressure from the surface.
- The Fiji Undersea Resort consists of 24 undersea suites of 50m<sup>2</sup> each in addition to a 100 seat bar and restaurant (350 m<sup>2</sup>) and another 350 m<sup>2</sup> unit with an undersea library, a Presidential Suite, two spa treatment rooms and a wedding chapel/conference room combination. The Fiji Undersea Resorts may consider joint ventures at various locations but will build 4-5 additional properties for its own account after the Fiji project is complete.
- Floating undersea structures like our Partner's Ocean Activity Center designed with a 40-seat restaurant, 40-seat bar, gift shop, tourist submarine support area, snack bar, sunbathing deck, gift shop and 5- VIP hotel suites on two levels.
- Civilian submarines and submersibles of all types including tourist submarines that seat from 10 to 66-passengers and personal luxury submarines that accommodate between 2- and 72 passengers, some for trips several weeks in duration. These can also be equipped with proper NBC and related air filtration systems.



# World's First Undersea Residence

The H<sub>2</sub>ome is 340m<sup>2</sup> (3600 ft<sup>2</sup>) of unsurpassed luxury. We can build and install the luxury residence in any number of places across the globe, from shallow warm seas, to island lagoons, remote water systems, or mountain lakes. All that is required is a relatively level bottom in 10-18 meters of water. Access to the underwater home is simplest from a pier that connects the shore to the residence, with an access trunk via ramp. The interior of the H<sub>2</sub>ome is then available via elevator or by a circular stairway. Umbilicals for water, sewage, communications, and electricity are connected to the pier and run to shore. A more advanced version of the H<sub>2</sub>ome can be autonomous and can generate its own electricity and fresh water systems. Thus, the structure can be further from shore where it is accessed by boat or helicopter. It is even possible to install a dry transfer trunk for access by submarine. COME AND GO IN COMPLETE SECRECY! Are you enamored by the idea of an underwater residence, but not sure where to place it? Talk to the experts. We can find you the perfect tropical island location with easy access but pristine undersea conditions.



# The H<sub>2</sub>OME Layout

## H<sub>2</sub>OME LAYOUT

The H<sub>2</sub>OME is installed cantilevered on piling just above the sea floor. The structure has two floors that are linked to each other and the surface by an elevator and a circular staircase.

The top floor layout is comprised of two bedrooms with baths and open lounge areas. The main floor consists of a master bedroom with integrated seating and a master bath. Also included is a gourmet kitchen with adjacent wine cellar, a formal dining area, a library lounge, a bar, private office space, a living room with flat screen television, a half bathroom and several discrete seating areas where one can enjoy the different views of the undersea world.

Of course the layout can be structured to the client's requirements and the details here are only proposed for illustrative purposes. There is basically 340 m<sup>2</sup> of design freedom.

### CONSTRUCTION & INSTALLATION

Your H<sub>2</sub>OME is built in components at our Partner's manufacturing yard. They also produce the acrylic panels to your specifications by post-processing thermoforming and annealing. They then transport all components to a floating drydock for assembly and testing. The interior is ordered from a supplier specializing in 5-star hotel interiors and superyacht interiors. This Dubai-based firm fits and assembles the interior components and then packs them in containers and ships the components to us where they do the installation.

The completed structure is floated off the drydock and is then picked up by a semi-submersible heavy lift ship which transports the H<sub>2</sub>OME to the site. Previously piles have been driven into the sea floor and the H<sub>2</sub>OME is floated into place, keyed to the piles and then ballasted for a slow descent toward the sea floor where it is then bolted to the piling. The piling tops are cut off and the umbilical cables run to the access pier and connected. In this way, your undersea residence is available for your use only 48 hours after delivery.

### SEASCAPING

We can work with our clients to create a fabulous coral garden area replete with living hard and soft corals, a wide assortment of invertebrates and a myriad profusion of brilliant tropical fish. Our Partner works with Dr. Jean Jaubert, recently the Director of Oceanographic Museum in Monaco and a world leader in coral propagation.

Your H<sub>2</sub>OME comes complete with push-button fish feeders so that you and your guests can feed the fish as well as underwater lights to light up the sea floor for a limited period of time each evening.



# H2ome Gallery



# H<sub>2</sub>ome: A Charter Opportunity?

## H<sub>2</sub>OME: A CHARTER OPPORTUNITY?

You own the world's first undersea residence, 3600 square feet of uncompromising elegance situated in 40 feet of crystal clear water surrounded by a magnificent coral reef, where the ever changing view is fascinating and absolutely unique.

Your H<sub>2</sub>OME is in Belize, in a protected private lagoon connected to land by your private pier. Floating above and accessed by elevator is a cluster of floating buildings, including a warm water outdoor spa, the central entrance lounge, docking space for a yacht and an enclosed building for your Triton submarine as well as space for a wide array of water toys. And, let's not forget the floating helicopter landing pad.

The airport, where your private jet is hangared is ten minutes away.

You've clearly created a remarkable facility that is unique in the world, but you only have a few weeks a year that you and your family can use it.

Imagine the "charter" potential. You charter your yacht for 8 weeks a year to offset operating costs. The same company that manages your yacht, charters your H<sub>2</sub>OME for 25 weeks a year. In less than three years, your H<sub>2</sub>OME and all its support amenities have been paid for completely.



# Underwater Commercial Spaces

## COMMERCIAL SPACES

Our base level 340 m<sup>2</sup> structure lends itself to a wide range of possibilities.

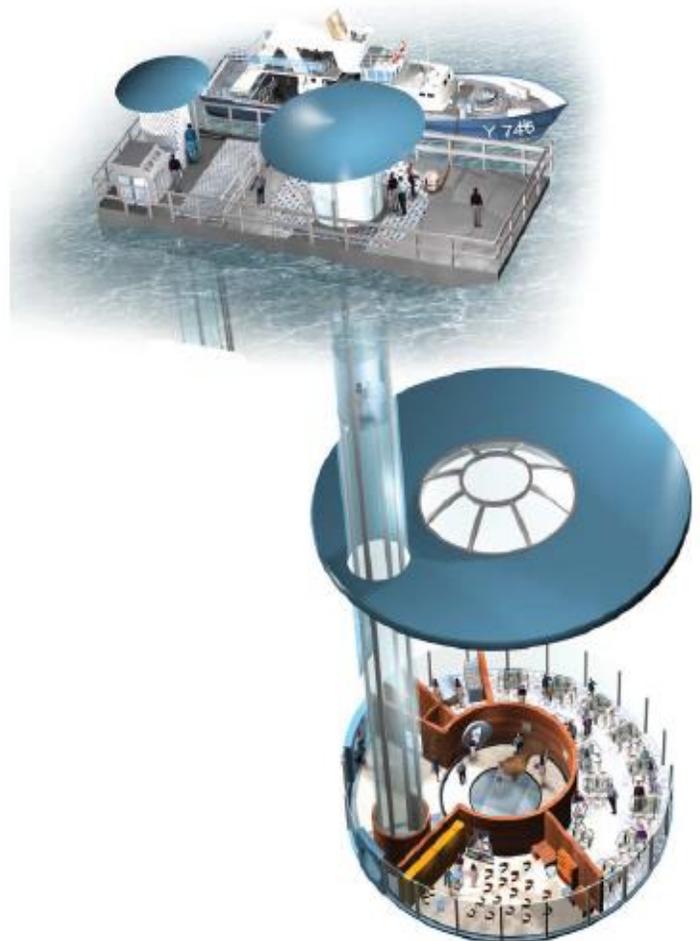
Are you a Taiwanese entrepreneur who would like to operate the world's first sea-floor casino? We can make it happen. How about a Caribbean-based residential developer interested in building the world's first five-star residential undersea subdivision? We know just the place. An underwater restaurant for the U.A.E? The world's first undersea bank? The most exclusive office address on the ocean floor off Monaco? Our Partners along with HSA have the experience and capability to add you name to the exclusive list of owners of "world's firsts."

### FEASIBILITY STUDY

The project starts with a feasibility study where we'll inspect the site, analyze the sea floor topography and structure and pick the ideal location. We adapt our design to the requirements of the site, add the amenities the owner wishes and we then develop a cost estimate including transportation and installation. Upon approval of the details we write and sign the contract and immediately begin construction.

### DELIVERY

A typical build will take between 18 months and two years but this may be fast-tracked if necessary. Please speak to us about your requirements.



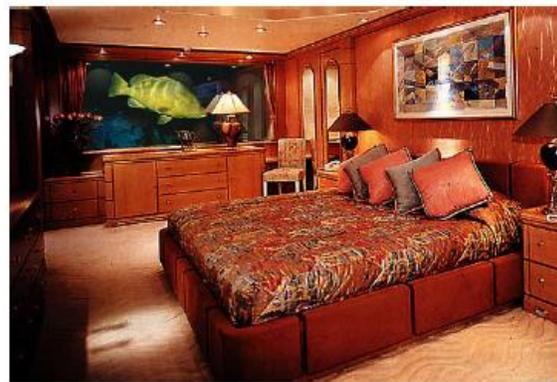
# Ocean Activity Centers

## THE OCEAN ACTIVITY CENTER

The Ocean Activity Center (OAC) is a revolutionary floating, semi-submersible structure with one of its three floors entirely submerged. The major elements of the OAC are a 40-seat underwater restaurant, a 40-seat underwater cocktail lounge and five luxury hotel suites with underwater bedrooms and above-water living rooms with private decks. The structure also contains a gift shop, open deck areas for sunbathing, a snack bar, a floating water-sports center and support facilities for a tourist submarine, including an integrated hydraulic lift.

The OAC is constructed in modules that can be easily transported and then assembled on-site. The complex can be accessed from the shore via a land-bridge, or it can be made completely autonomous with its own diesel generators, watermakers, sewage treatment plant and other equipment to form a complete, self-contained system anchored off-shore. The OAC is a versatile, highly profitable establishment that can be custom designed for any site. The expansive underwater viewing provides hours of entertainment for guests and provides the owners with extraordinary market differentiation. And the cost of the OAC is quite reasonable when compared to the price of alternative waterfront real estate and construction.

This type of floating semi-submersible structure is well suited to a wide range of commercial endeavors. The structure can be adapted to private floating residences, entertainment complexes or a cluster of hotel modules.



# Civilian Submarines

## CIVILIAN SUBMARINES

Our Partners have been active in the design, engineering and construction of non-military submarines and submersibles for 16 years. In addition the company specializes in the development of tourist submarine projects for its clients. Today, 40+ tourist submarines operate around the globe and carry more than 1.5 million passengers a year. The industry has a perfect safety record making tourist submarines the safest form of transportation in the world today.

Our Partners are able to provide a turn-key tourist submarine operation that can be immensely profitable.

Our Partner developed the concept of the personal luxury submarine in 1993. You too can own your own submarine yacht with diving depths of 1000 feet and trans-Atlantic range. The 65 meter long, \$90 million Phoenix 1000 has 470 square meters of interior living space and can take you anywhere in the world.

Today, the hottest trend is having a pocket-sized submersible to go aboard your large yacht. The Triton 1000s are available in two and three passenger versions with diving depths to either 300 meters or 1000 meters.

For a spectacular project, ask us about Private Undersea Cruises. We've done the preliminary design work on the world's first cruiseship style submarine that will carry 72 passengers on 2- and 3-day excursions to as deep as 305 meters.

From our Partner:

"When it comes to submarines, if you can dream it, we can build it."



# Submarine Photo Gallery



# Underwater Submersibles and Underwater Subs Final Thoughts

## FINAL THOUGHTS

The dream of living under the sea was - until now - the subject of childhood imagination, scientific speculation and Hollywood movies. To turn this dream into reality, our Partner's engineering team had to truly innovate, tapping into technological expertise as well as poetic vision.

As the world is looking to new frontiers to expand the field of human experience and as space tourism is about to launch as a new industry, the undersea world remains the most seductively exotic environment open to pioneering.

Whether it is a private residence where you and your loved ones will enjoy in luxury and safety (these can be designed, engineered, and constructed to meet any structural need to including ballistic, blast, and other threats) - an experience that few can even imagine; an undersea resort or restaurant that will create growth opportunities for your business or a special project tailored to the vision you nurture for your family, community, city, or country, be assured that your undersea habitat will redefine the word exclusive and safe.

Your "fantasy come true" can also make a difference and give back to the world: Our Partner's marine biology team can complete your project with unique undersea landscaping and a coral reef restoration program, recreating biodiversity in the ecosystem thus providing a spectacular visual experience, as well as a scientific and environmental achievement. This makes you a leader in the international movement for the health of the oceans, and ultimately, the planet.

Please accept our invitation to join us on an adventure that makes the once impossible, a reality. An adventure that will change your personal life, transform the potential of your company, or reshape the image of your nation.

