

The floating world of Koen Olthuis

March 26th, 2008 · Global warning is no longer an intellectual concern, rather a critical issue around the world. Weather patterns have changed and water levels are rising. Architect Koen Olthuis, co-founder of The Netherlands-based Waterstudio have come up with some innovative concepts to deal with the phenomenon. While it's innovative in the rest of the world, it's a way of life in Holland, where a third of the country lise below sea level and dykes, pumps and dams are a common feature engineered to control the water levels. Olthuis and his firm Waterstudio have come up with solution that make water a foundation for his structures, rather than a threat. Olthuis has designed several floating homes in the Netherlands and now he brings his amphibious designs to Dubai, where waterfoul king is all the rage. The entraits is blessed with miles of golden beaches but Olthuis shows us how we can live in close proximity to water without compromising on either the form or the function.



D. How did you come upon the concept of building on water?

KO: Much of Holland is situated under sea level which makes it very vulnerable to floods and even minor fluctuations in water level. But through technical innovations, the Dutch rereated land from water. They made a landscape of polders—wetlands which are being kept dry by pumping out water. While studying architecture, I was disappointed with the fact that the fellow students just expected the conventionally taught concepts of how buildings should look like and how the urban is a rafficial landscape that is always changing by the constant threat of the water Il thought that the Dutch architects should look more at our ancestors who didn't fear technological innovations and even concepts to live in places where people couldn't live before. For me, it also seems irrational that I live in an artificial country in which pumps are pumping out water 24/To keep one-third of the country dry while sea levels are rising and the climate is changing so I though that it is a necessity to focus on concepts which enable us to live with water rather than fight it.

D: You have designed many floating homes in your country and now you're working on a number of projects in Dubal. Please tell us something about these projects and how they are different from those in The Netherlands?

KO: Dubai has some similanties and also differences with The Netherlands. The similarity is that both countries have been designed in a flat empty landscape—Holland has the green polders and Dubai has the beautiful desert. So both are in a way artificial and both have water to build within or Dubai has the beautiful desert. So both are in a way artificial and both have water to build within or and new technologies, whereas, Dubai sizes every opportunity to enthrace changes and technology for a better future. The emirate has shown vision from within a very small time-frame. The

The floating world of Koen Olthuis

pagina 3 van 7

Netherlands did the same a few hundred years ago but the vision seems to have been lost in the modern times. In Holland we have a lot of water experience and we've been using that to design and create new solution, but Dubai seems to be more open to such path-breaking ideas, that have led to projects such as The Palm and The World islands.



D: What are the biggest challenges about water-based designs and particularly in the contex of Dubai, where the weather conditions can be very harsh? KO: The biggest challenges are shallify and sustainability. We want to design perfect floating developments that last at least as long as normal buildings on land with a confort that can be engineered upfrom. Sustainability on water is even more important than on land. Emission has to zero and power plants must be self-supporting and sustainable in nature such as solar, wind and wave energy. However, the biggest challenge is sociel connoine which means that we have to explain users, developers and decision-makers that floating developments is next step in world-wi urban development. We need to explain to them that it is safe, long-lasting and technically and economically feasible.

D: How would you describe Dubai and what's happening here in reference to the arcunectu-boom?

KO: Dubai has become the centre of the world in building activities and it's setting benchmarks.

What it is doing can't be placed in a logical economics formula found in a text book. Dubai sets an

example of what pushing the boundaries of the technological world can do.



D: Everyone is talking about sustainable development and how global warming is influencing architecture at present. Do you feel that it's being taken seriously or is it just a big gimmick? KO: It started as a big gimmick but hat is no had because even gimmicks have influence and act as catalysts, which has now led to a point where it's no longer just a hype but a natural progression owards designing for a better future. All countries have a longer seed an economical driver to worsted self-giment but the self-giment and the self-giment but t



Cruise Ter Docklands

D: How sustainable are floating homes?

KO: You can make them as sustainable as you like. By building on floating foundations, you're is closer contact with nature, than conventional houses on land. Water can be used for sustainable solutions such as water cooling. Also the solar energy is much stronger on water, energy from the waves and the wind on water can also be used for generating energy. Saft and sweet water cosmosive also some of the possibilities that can be explored.D: Who is your favourite architect and dop wave a favourite building or structure? KO: My favourite architect is Gaud because he integrated ogical construction copied from nature into his buildings which are still some of the most admires tructures. Singe-handedly, he succeeded in changing the face of the city by just following his driven agains 5 va





