



# Seastead floating city. Innovative development of a new model of offshore city.





- 1. Introduction
- 2. Memories
- 3. Development
- 4. Results
- 5. Conclusions





# Introduction

### **MEMORIES**

- Floating habitat investigation
   History ( lake cities, big cities built on water, futur projects, utopic cities,
- Conclusion
- Entrepreneur (Seasteading) Ecomonic model

#### **DEVELOPMENT**

- Methodology
- Requirements identification
- Study design restriction
- Definition of typological volumes
- Internal functional analysis

## **RESULTS**

- Re Settings
- Desing of housing typologies



## **CONCLUSIONS**



# Memories

## **Middle Age Bridges**

- Hotel Dieu Bridge, Paris 1499
- Pont Vecchio, Florence 1345
- Rialto , Venise 1588









## Inle lake, Birmanie

Since 1359 by Intha (Tibero Burman)
Surface area:44,9 ft2 / 116 km2
Average depth: 4 to 12 ft/ 1,5 m to 3,7m

- Self-sufficient farmers
- Lot of small village arround









## Village Kompong Phluk, Tonle Sap. Cambodia

Surface Area: 1000 ft2 / 2700 km2 Ecological hot spot 1997 by Unesco

- 1,5 million resident aprox
- Large Fresh water
- Fishing industry









## Ganvie, Benin

Established XVI y XVII

20000 people, the largest lake villa in Africa

- Fish farming
- UNESCO world heritage, 1996.









## Titicaca lake, Peru

Created begin of XXI

Uros community, lives in Puno Bay

- Floating island created by Typha
- Open kitchen
- Bird and guinea pig breeding center





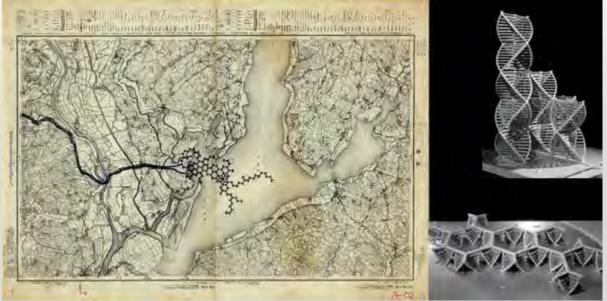




Sea city 1971 by Hal Moggridge for Pilkington Glass Company



Helix city 1961 by Kisho Kurokawa. Japan







## Palm Jumeirah, United Arab Emirates

Created in 2005

The greenstart by Waterstudio

## **LilyPad by Vincent Callebaut**











## **Galethee by Jacques Rougerie**

1977, underwater house

## **Turbine city, Norway by On Office**

Area: 31500 m2/ 339000 ft2 49 Turbines, each rated at 8 MW Sustainable energy





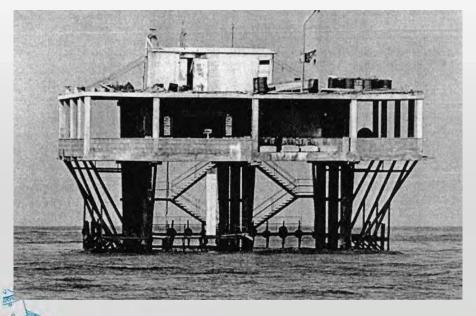




## Republic of Rose Island "l'Isola delle Rose" or "Insulo de la Rozoj"

- Built by Giorgio Rosa and declared 24 June 1968
- Micronation, placed in the Adriatic Sea
- 6,8 MN / 11 Km from coast of Rimini
- 400 m27 4300 ft2
- 13 February 1969 the italian navy destroy the platform with explosive.









# REM Island (Reclame Exploitatie Maatschappij / Advertisinf exploitation company)

- Built in the republic of Ireland in 1964
- Pirate broadcasting star on August 1964
- On 12 december 1964 they ended broadcasting
- One year later they became TROS to 8 june 2006.
- (Televisie Radio Omroep Stichting)











## Fort roughs SEALAND

- Dimension: 51 x 27 m / 168 x 88 ft
- 2 columns: 18 m /60 ft tall, 7,3 m / 24 ft diameter, 9 cm / 3,5 inches thick, 4500 Ton
- One of the naval fort to the World War II
- Located 11 km from Suffolk
- Built in 1942 and occuped since 1967















## **DEVELOPMENT**

Functional requirements		
Accommodation	400 people in about300 ft <sup>2</sup>	
	75% people in about 600 ft² to 2 person.	
	25% people in about 900 to 1200 ft <sup>2</sup> to 3 or 4 person.	
	40 guest in spaces 120 to 180 ft <sup>2</sup> per person.	
	10 crew people in simple private spaces	
Public Areas	2 levels combining interior area of less than 100000 ft²	31
Service spaces	Reception	
Commercial spaces	Stores	7
	Supermarket	
	Coffee shop and restaurant	
Structural requirement		
Static load	> 94 pounds ft² internal spaces	
	Considering accumulation of ice snow or warer covers	
Equipment and safety requirements		
	Accommodation Sikorsky-61helicopter	
	Compliance with fire codes, alarms	Ŋ
	Bridge command and control	H
	Spring for receipt of vessels and recreational space	H







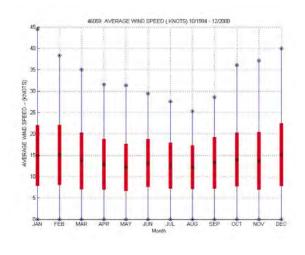


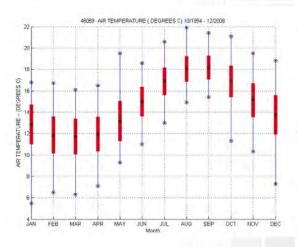
Far than 200 MN from the coast

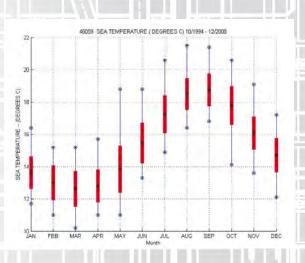


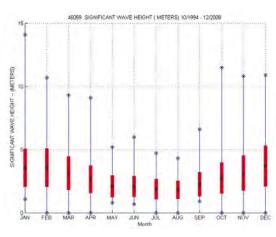


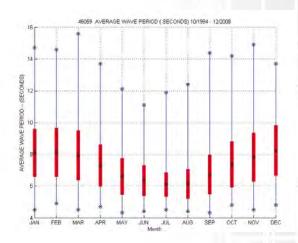
## Station 46059 by NOOA (National Oceanic and Atmospheric Administration)

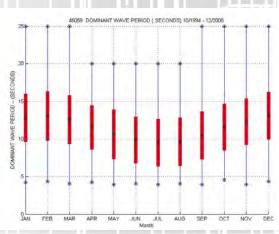








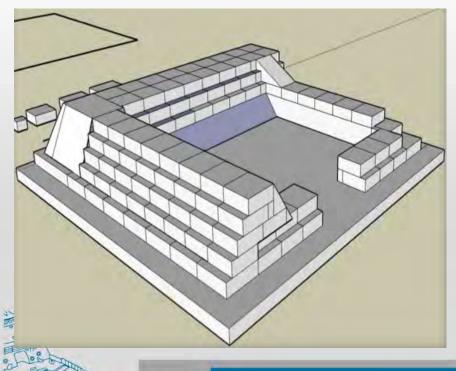


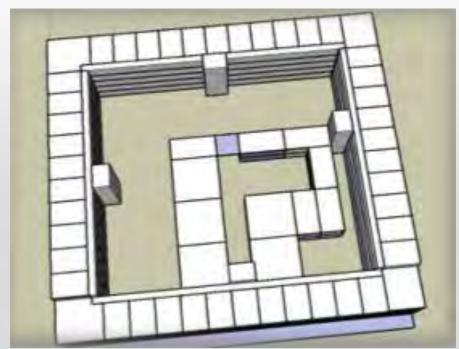






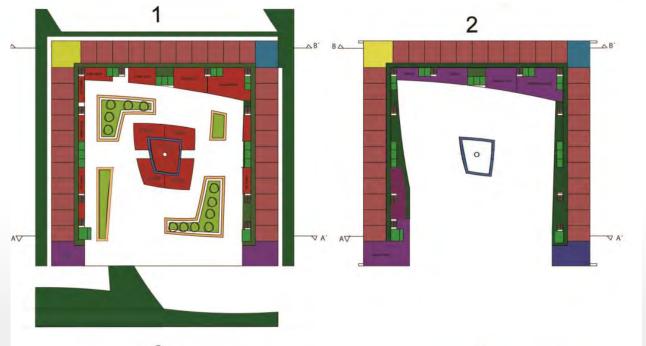
# **Typological Volumes**

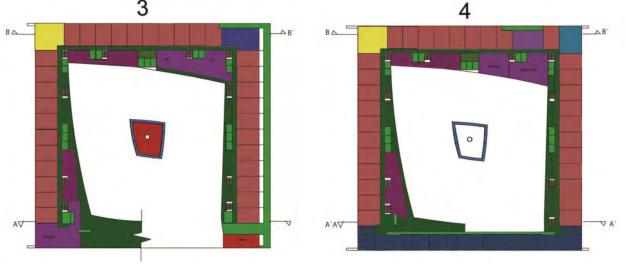






## Rezone







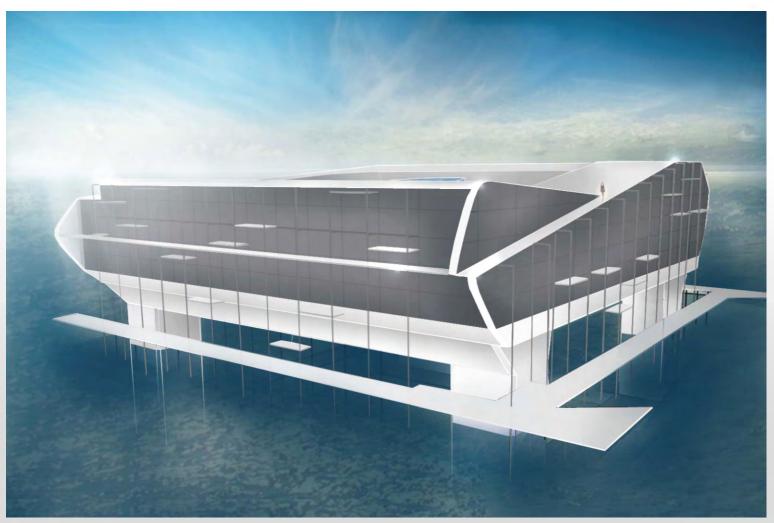






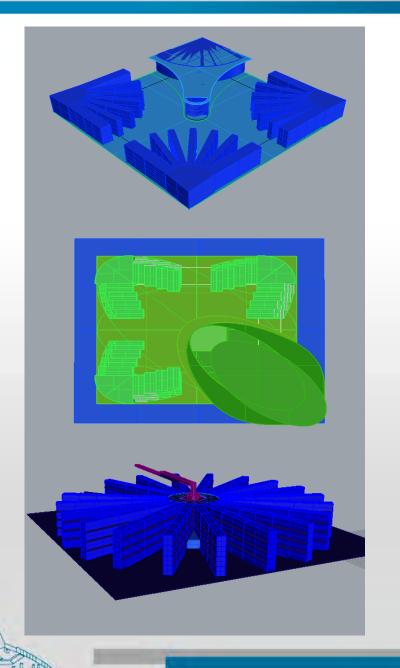




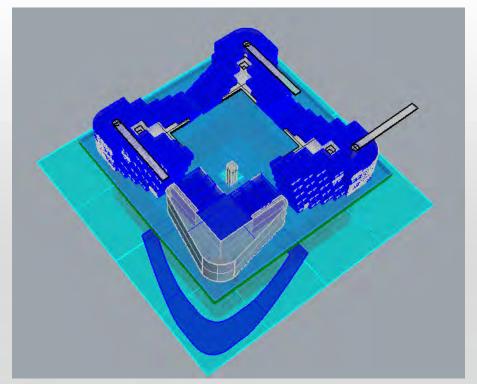








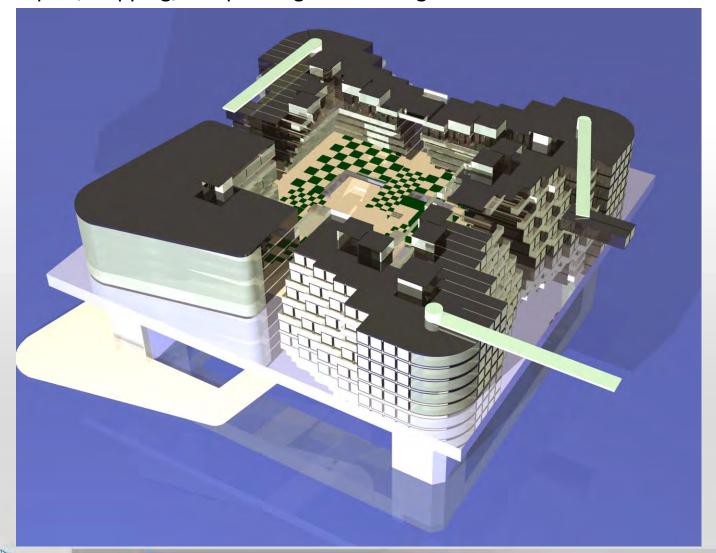
# Decided



## **SEASTEAD**

7500 square feet of harbor space, are avalaible for water activities, sport, shipping, and passenger unloading.







## **COMMERCIAL SPACE**

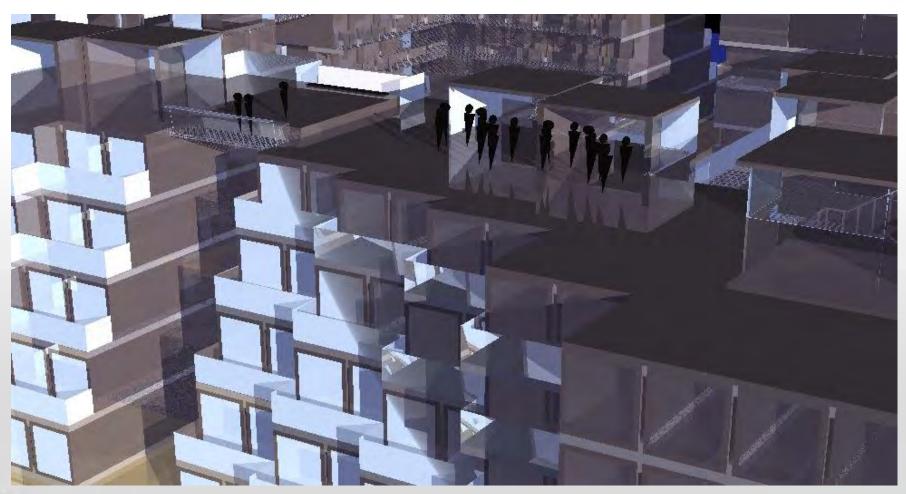
Each corner of platform, adjoining the residential areas, is designated for shopping, a medical center, library, grocery store and other shop.





## **SOCIAL SPACE**

Three open balconies. Lie on top of the roof







## **RESIDENTIAL SPACE**

300 Shipping containers, each with area of 280 ft2, take up the majority of the platform space.

## TYPE 1





## TYPE 2





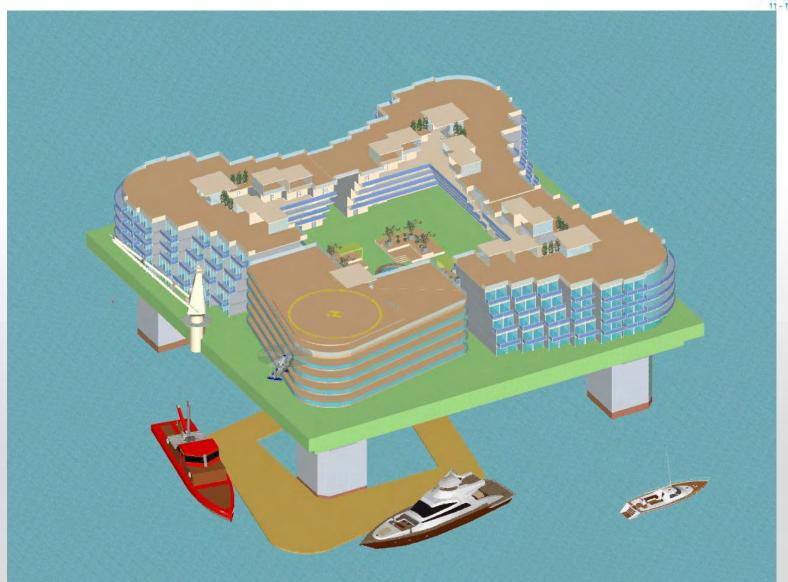


## TYPE 3

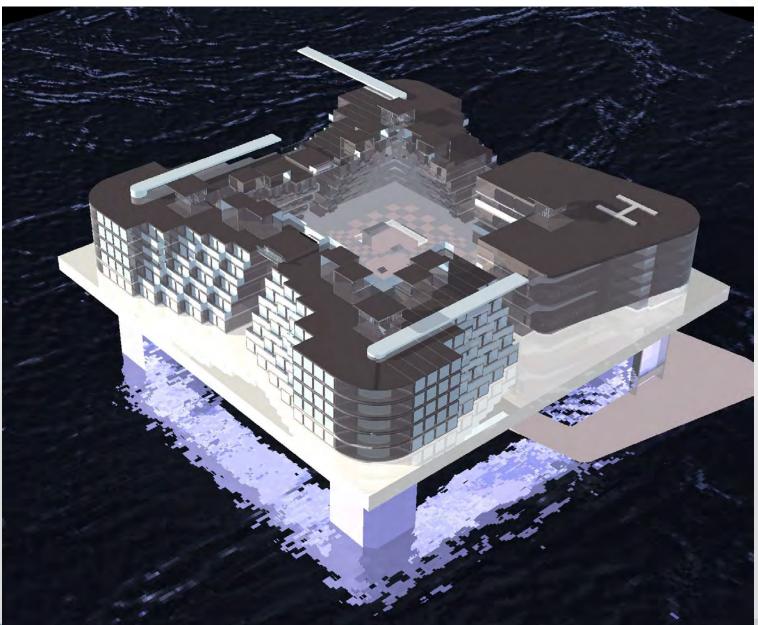














# **THANK YOU!**

If you want to know more, please write to <a href="mailto:linast00@gmail.com">linast00@gmail.com</a>
Lina Suárez



