#1042

*Storm makes sense of shelter**

*Gaston Bachelard - *"Poetics of Space"*

Storm makes sense of shelter

Further to the need to design for extreme environmental conditions that Seasteaders can expect to encounter, there are other “storms”, political, social, economic, physiological and indeed psychological ones that the community will have to weather.

The concept is one that is driven by:

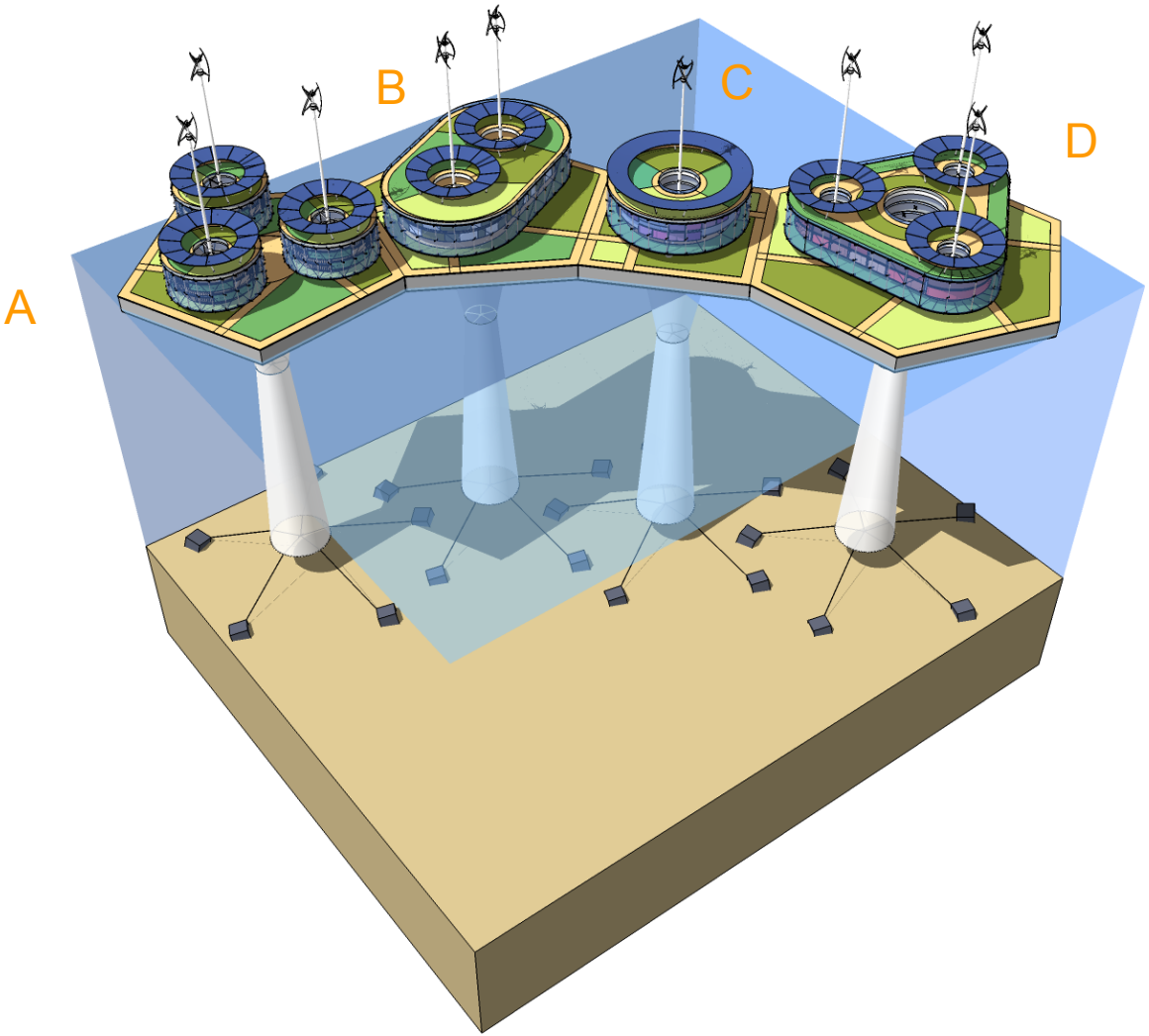
- Connection with land and vegetation
- Self sufficiency and independence
- Ease of platform configuration
- Resilience and Sustainability
- Materials and Modularity

The intent is for an architecture derived from nautical technology and sensibility, designed to take on any type of storm.

All buildings are lifted above the platform to give extra communal space at platform level and to act as a first line of defense during bad weather.

Circular and rounded forms are used for each building in an attempt to address climatic conditions and to allow different platform configurations. Each building is a double skin construction, created by wrapping an EFTE facade around the perimeter, the inner secondary facades are inset to create a large three storey thermal buffer zone, envisioned as a winter garden/orangerie.

Energy independence for each building drives the building forms, masts for Vertical Axis Wind Turbines are also primary structural members that floor structures radiate out from. Photovoltaic Arrays are set in a halo above the buildings vegetated roofs.



A - Residential

2100m2 per block, 9 family units

B - Industrial

8600m2 per block

- Seawater Greenhouses - Food and Potable Water production
- Algae Biofuel production
- Offshore, Sea Cooled, Data Centres.
- Light manufacturing;
- Fish Processing

C - Commercial

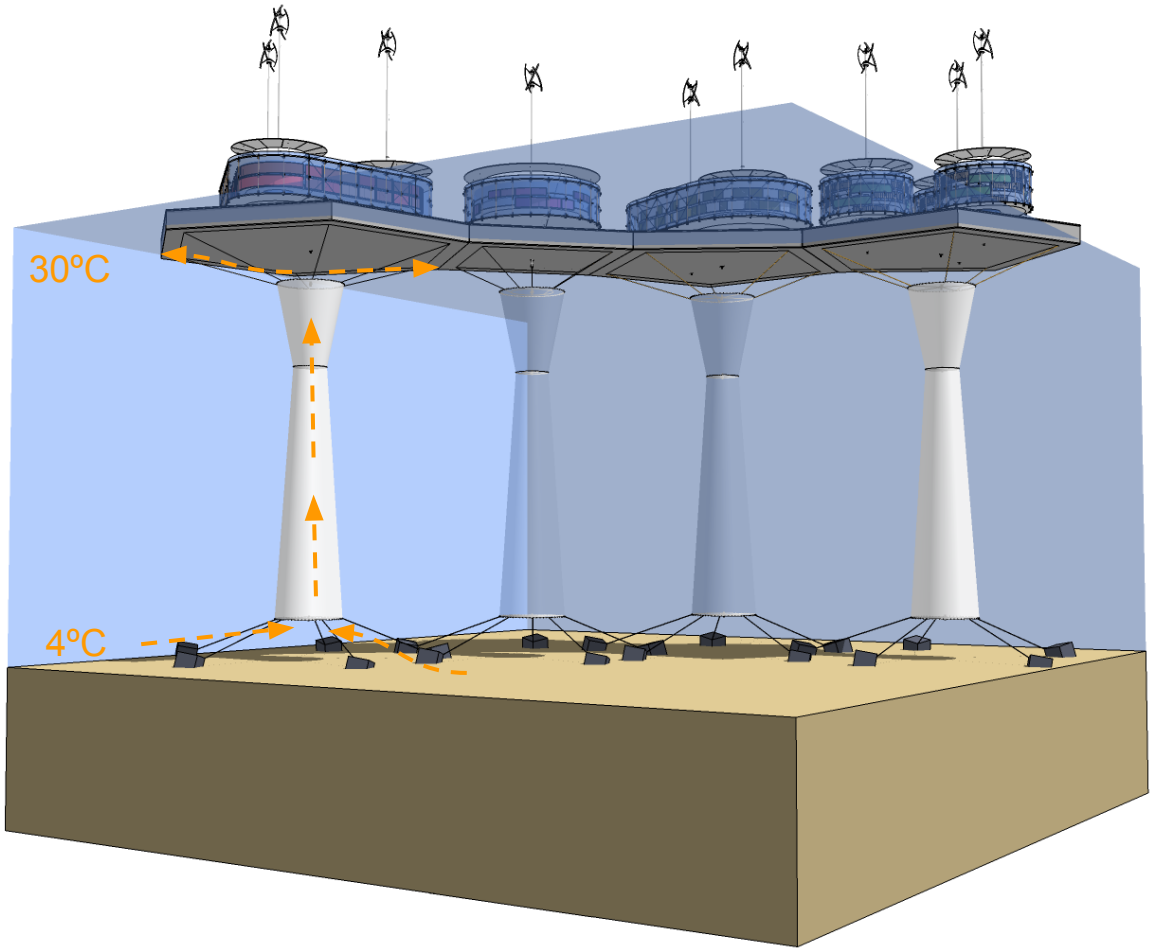
5000m2 per block

- Offshore Banking
- Offshore Call Centres
- Research and Development
- Retail activities

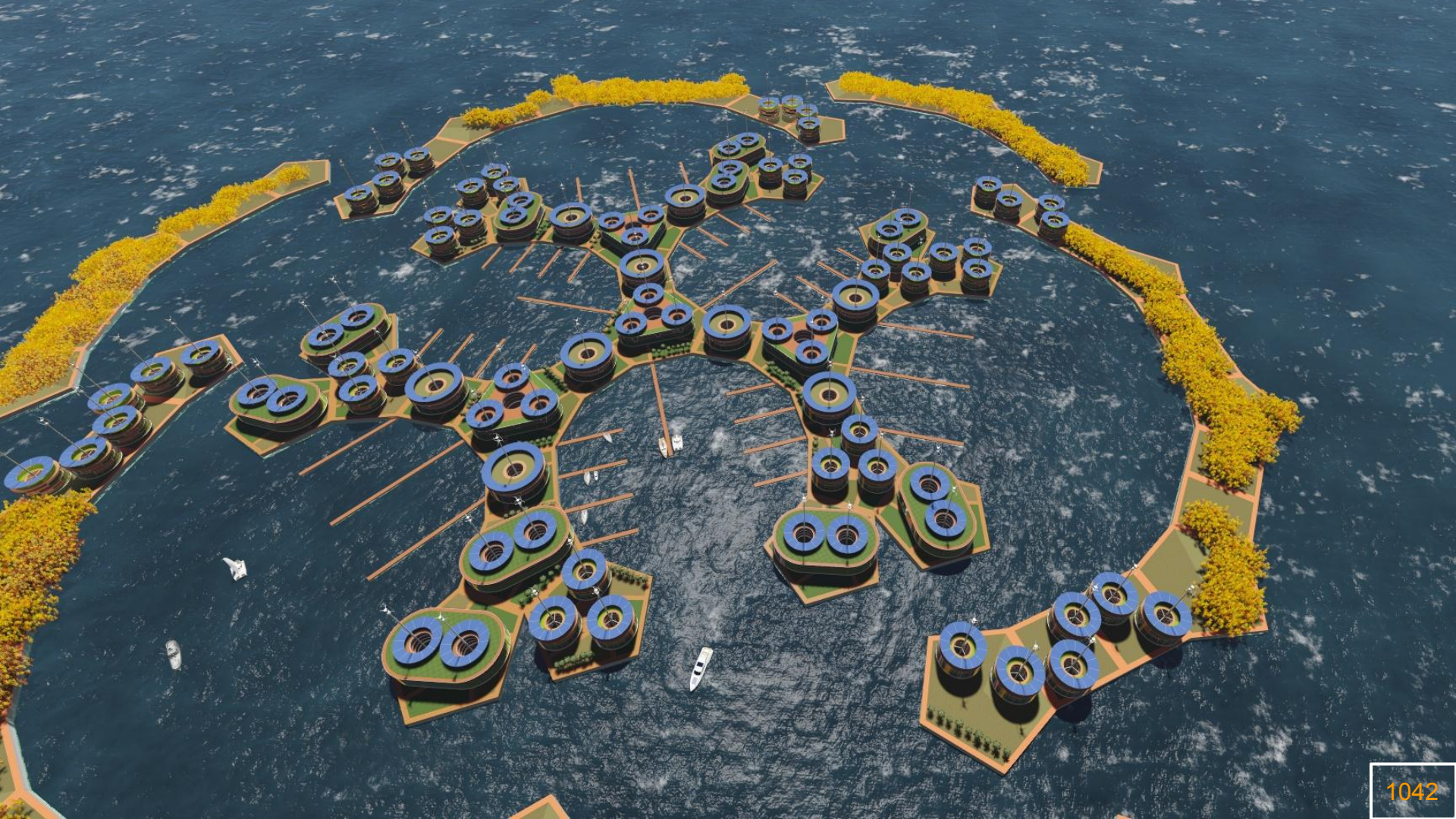
D - Community

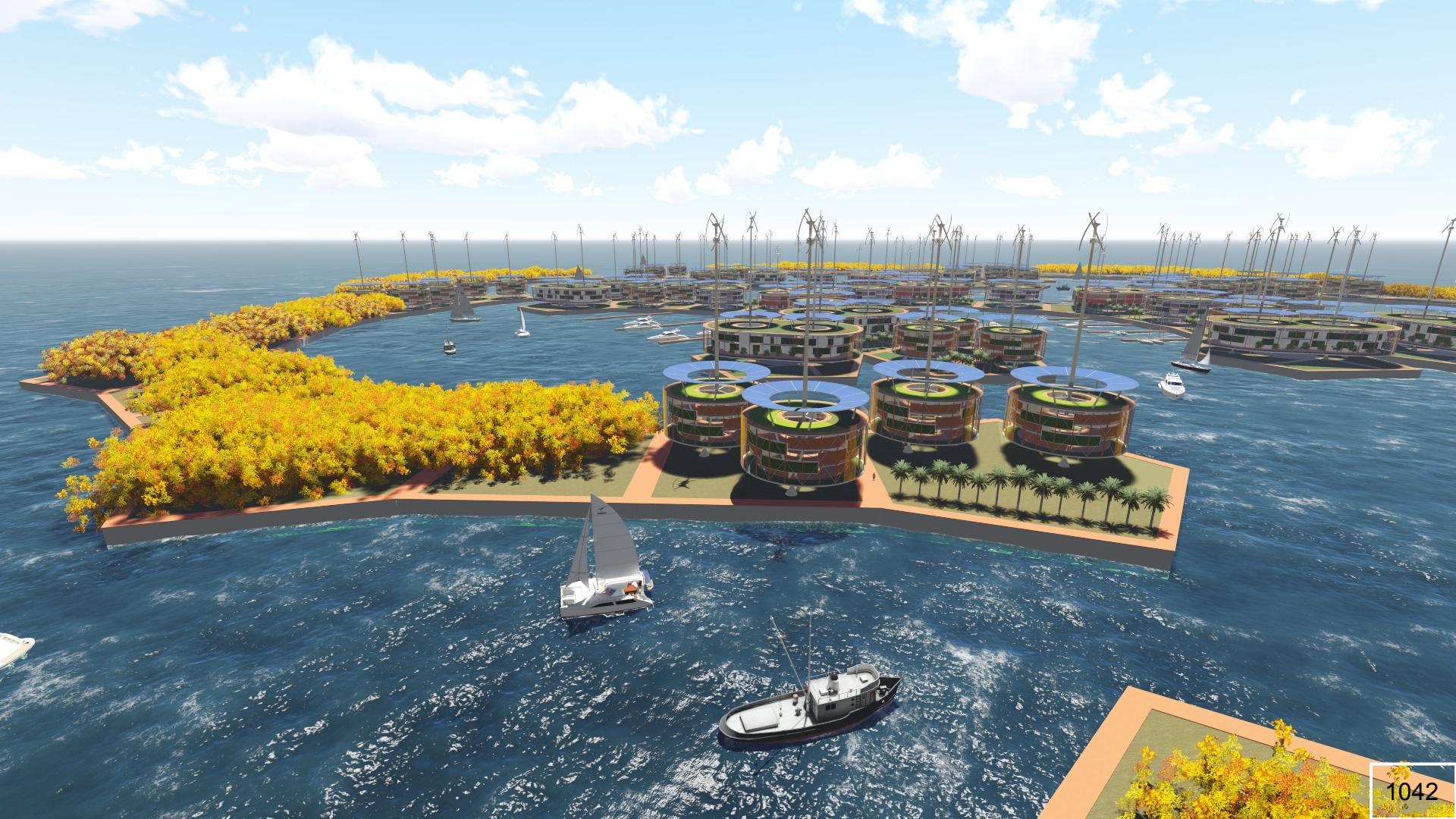
9450m2 per block,

- Leisure and tourism
- Administration and community functions
- Education and Health
- Retail activities



The platform anchoring system incorporates vertical fabric ocean pipes. These act to dampen wave action and to increase the mixing of nutrient-rich waters below the thermocline with the relatively barren waters at the ocean surface.

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