

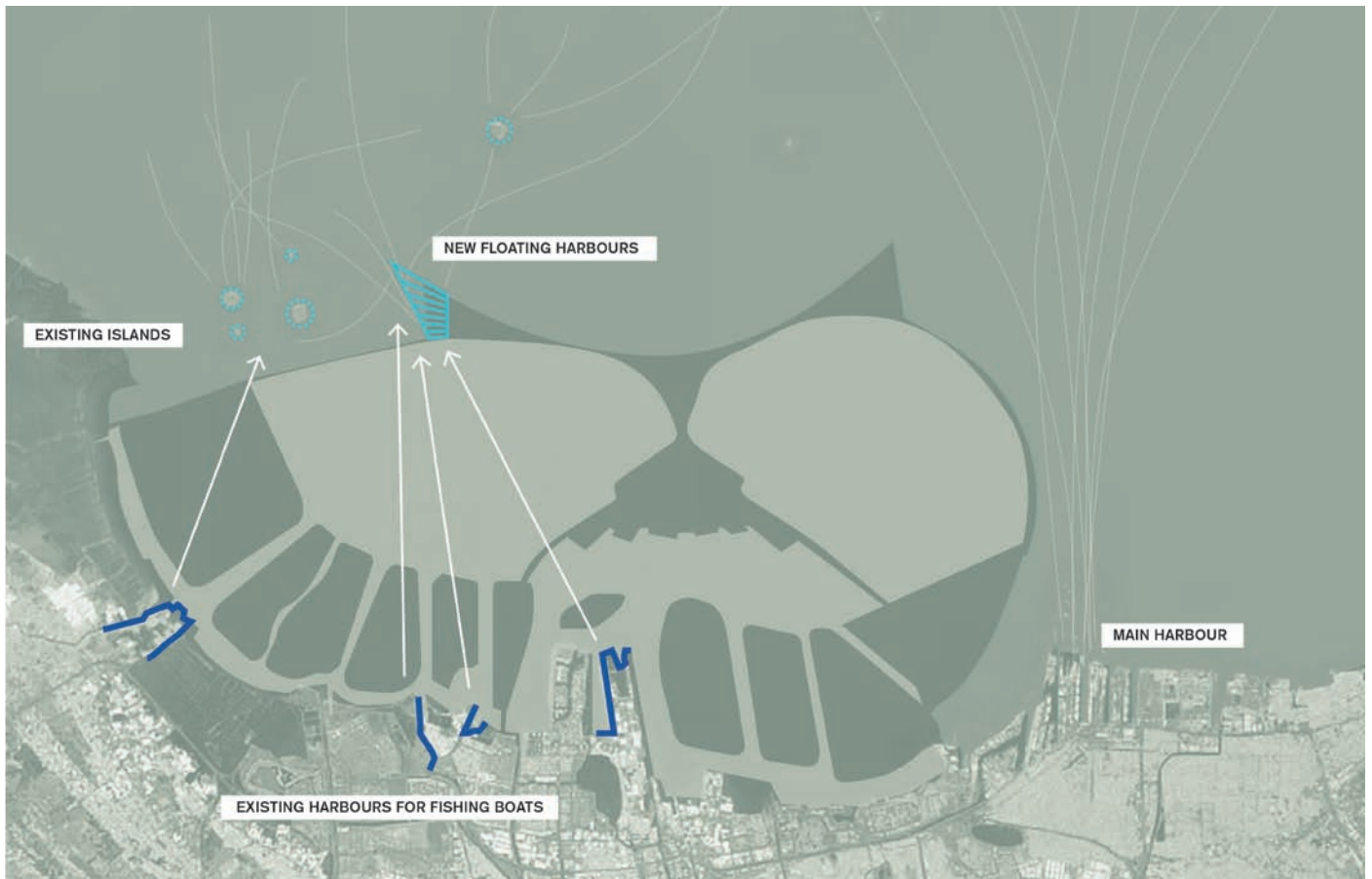
A photograph of a man in a white patterned shirt holding a large, silvery fish horizontally across his face. He is in an outdoor market with other people and stalls in the background. The fish is held up to his mouth, and he is looking directly at the camera.

# FLOATING COMMUNITIES IN NORTH JAKARTA

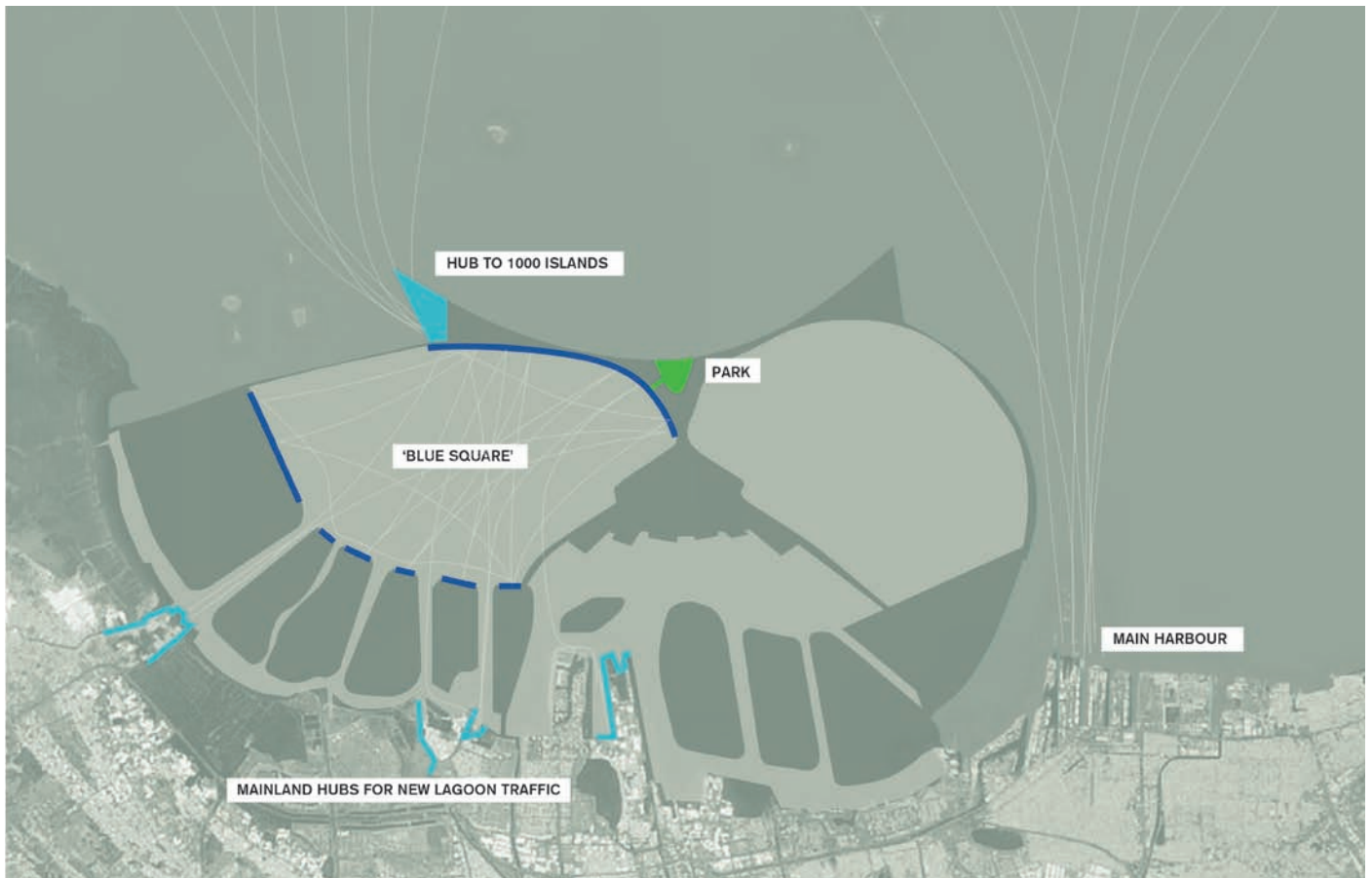
JUNE 2014



## NEW HABITAT FOR LOCAL COMMUNITIES



*Replacement of the existing fishing harbours as a beginning of the new floating communities*



*Old fishing harbours can function as hubs on the mainland, connecting the garuda and new developments through water*



The relation that Jakarta's waterfront of today has with the sea, will change inevitably. Especially the existing harbours will lose their direct contact with the seawater. By relocating these harbours in a smart way, new chances emerge, especially for local communities and tourism. It is a chance to improve the life conditions of fishermen communities, offering them a privileged location with better amenities and new economic perspectives. Once these communities will flourish again, these people and places will offer a key quality to the touristic profile of Jakarta's waterfront.

In order to offer affordable housing that is in contact with salt water, investments need to be spent on the necessary: the right facilities, and some basic principles for the urban organisation. Choosing for a floating concept will prevent high investments that go along with creating artificial islands

to live on. Secondly, the thousand islands might offer opportunities to intensify housing and harbours. For these new developments the Great Garuda will function as a crucial hub to the mainland.

Whereas the fisherman communities are offered a fresh start, the existing harbours like Muara Angke will be able to develop in a new way. The lagoon between the Great Garuda and the mainland will turn into a blue square, where the shortest connection between the water edges is always across the water. The old harbours can turn into important connectors between Jakarta, the new development areas and the Great Garuda.



*Existing fisherman communities*



*Existing fisherman communities*



*Existing fisherman communities*



*Existing fisherman communities*



*Water town*



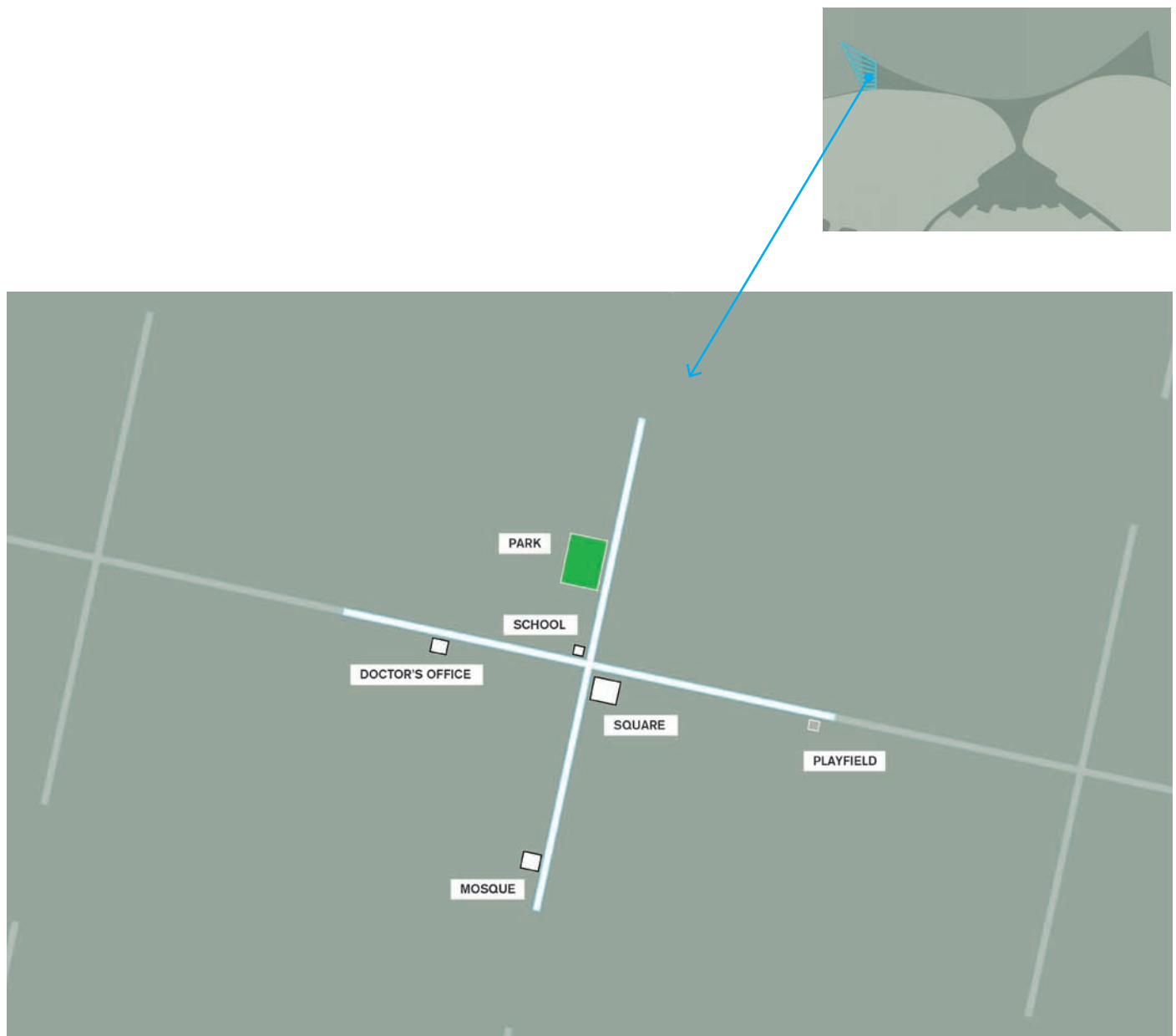
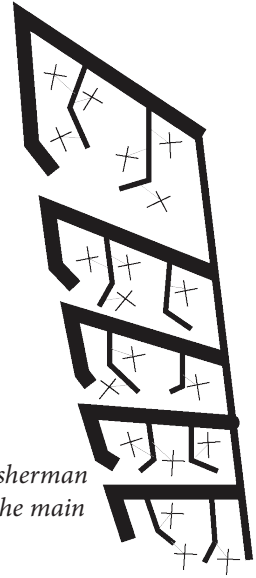
*Floating village*

## FLOATING AMENITIES

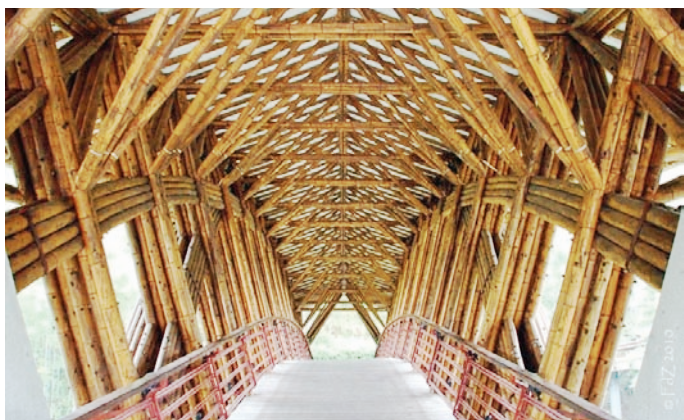
People are able to build their own house, even for example in a floating community. In this way, the development of floating villages initially requires the realisation of the basics: for example a structure of roads, fresh water, electricity, public space, a school, a doctor's office and a mosque. If the basis is right, people will follow. All around the globe, inspiring and well-functioning examples are made of floating urban programme, including parks, gardens and agricultural land. It offers a fresh start for the communities around the harbours of Jakarta that make a living with traditional fishery.

In order to create the right settlements, it is crucial to design and develop these amenities in collaboration with the local designers, foreign specialists and future inhabitants. Only in this way, expertise on floating communities, sustainable development and cradle-to-cradle principles can be combined with the knowledge of local customs, preferences and culture.

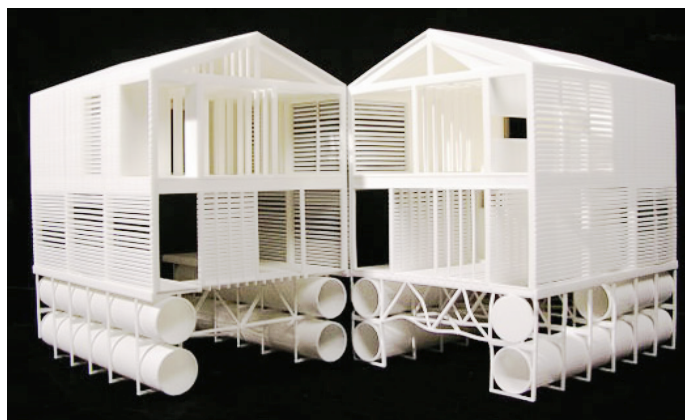
*Organic principle of new fisherman villages implemented into the main structure*







*Bridge*



*Floating house*



*Floating mosque*



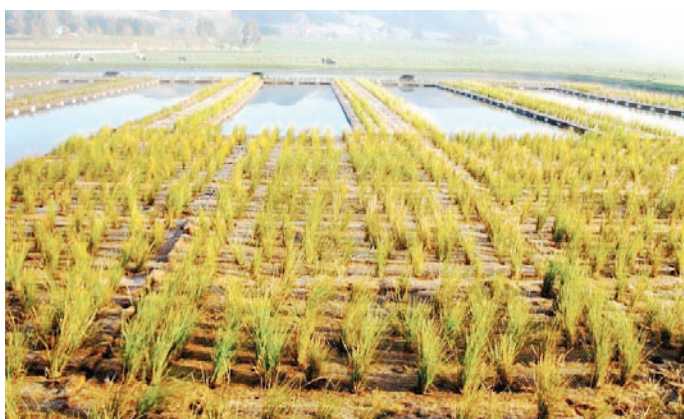
*Floating path*



*Floating school*



*Floating soccer field*



*Floating agricultural land*



*Floating garden*

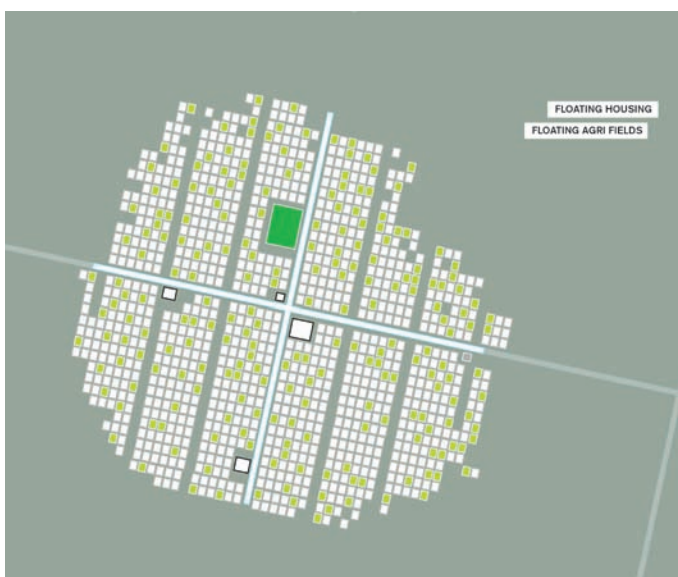
# GROWTH OF SUSTAINABLE VILLAGES



*Growth phase 1*



*Growth phase 2*



*Growth phase 3*

The new floating housing should be built with sustainable building techniques. For the floating structures, simple elements like plastic drums can be used. By re-using the plastic waste that ends up in the sweet water basin or floats in the sea, building these structures helps cleaning the surroundings.

On this floating basis, everybody should be able to build his own house. For the construction local materials can be promoted, like bamboo or rotan, or even special reeds, grown in the sweet water basin.

Growth can happen organically, as long as it happens in a sustainable way. Each floating village has a maximum amount of dwellers. Next to the traditional fishery, floating agriculture will be promoted, as well as sustainable fish farms. This will lead to a colourful palette of housing, fish farms and floating agriculture and a more stable economy. With a simple set of rules these 'dots' can grow in interesting patterns that change through time.

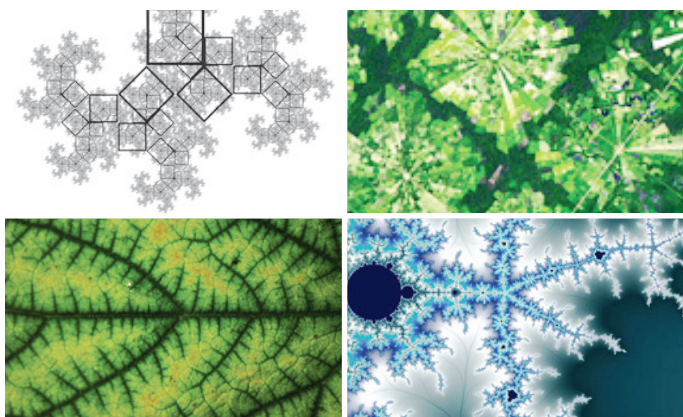




*Floating agriculture*



*Plastic waste as recycled material for the floating structure of the housing*



*Self-organisation based on simple principles*



*Reeds as building material for housing*



*Floating agriculture*



*Reeds as building material for boats*



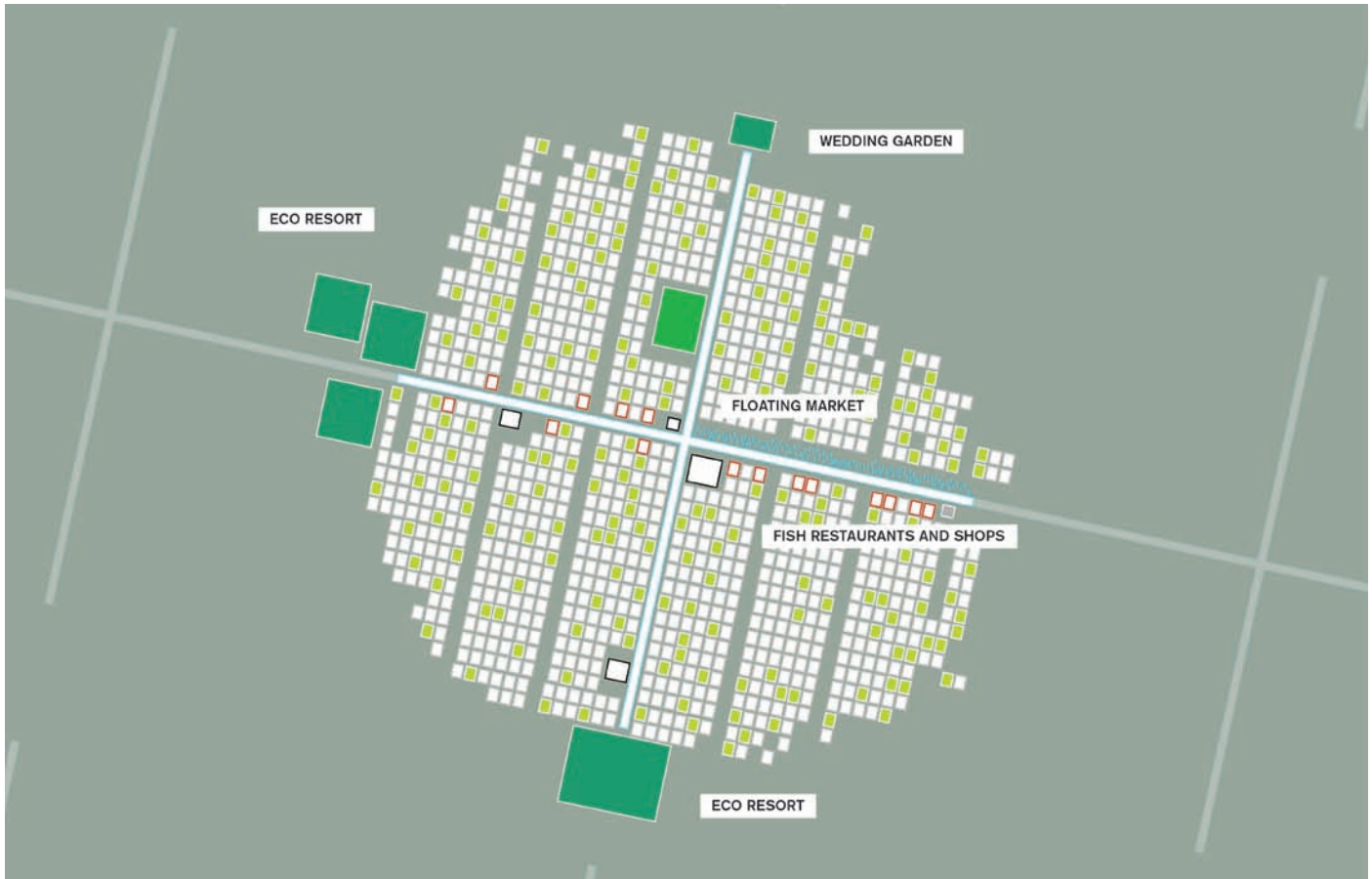
*Vernacular-modern architecture*



*Vernacular-modern architecture*



## A NEW ECONOMIC PERSPECTIVE



### *Development of a new economy*

Once local communities have settled, the floating villages will be attractive for tourists and form a chance to expand the tourism that is already developed on the Thousand Islands. Next to that, it will add charm to the Great Garuda by adding a more low key and local development.

For its inhabitants tourism will expand the possibilities to earn a living. Small enterprises like fish shops, restaurants or bed and breakfasts can be started. More large scale touristic program can also be developed and offer employment to local inhabitants. Eco resorts or wedding venues are interesting additions to the villages. In this way, the economic perspective of the fisherman communities will be broadened and sealed for the future. By embracing these communities in the Great Garuda a more mixed and inclusive urban life will be created that eventually will benefit the Great Garuda and Jakarta.

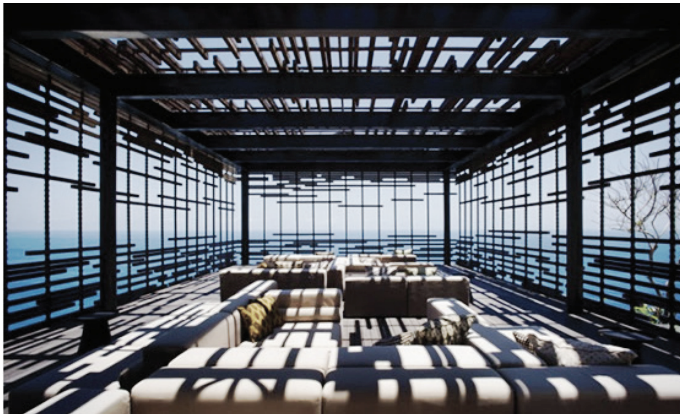




*Special events like weddings or other parties*



*Attractive boats for tourists*



*Eco resort*



*Restaurant terrace on the water*



*Eco resort*



*Floating market*



*Eco resort*



*Floating market*



## FINANCING POSSIBILITIES

Development of a new place for the communities will be beneficial in the long run, although the investments in the starting phase will be needed. These investments could be covered by developing of other big scale commercial and leisure oriented floating program, for example in the lagoon. Whereas the limited magnitude of the lagoon, creating one or two floating commercial features will be increasing the vivid ability of the lagoon and surrounding.

A couple of examples as shown gives an impression how these commercial floating features could be look like. More possibilities of these features will be presented in other document as attached.



*Floating restaurant*



*Floating public swimmingpool*



*Floating public swimmingpool by night*

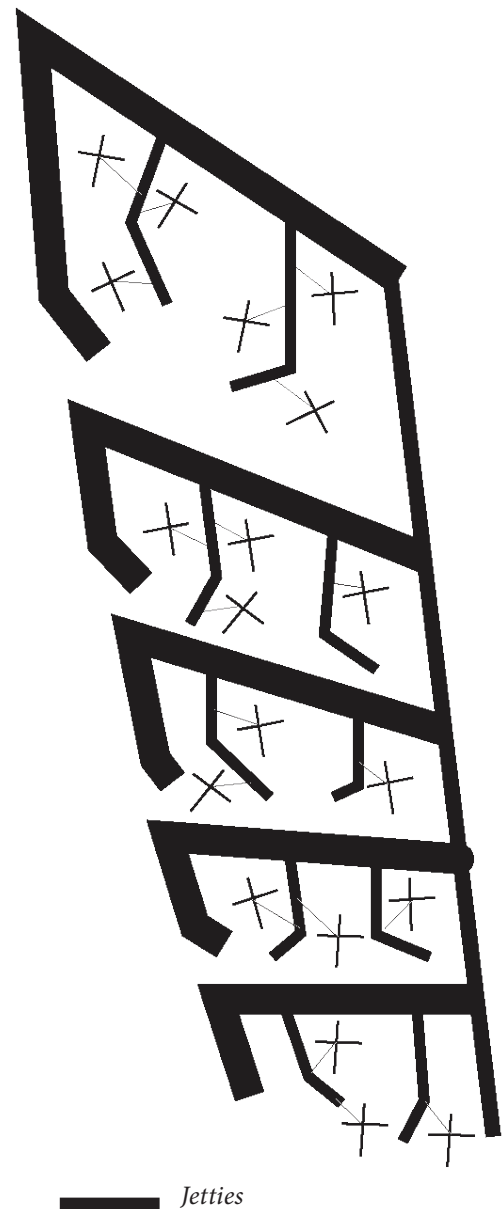
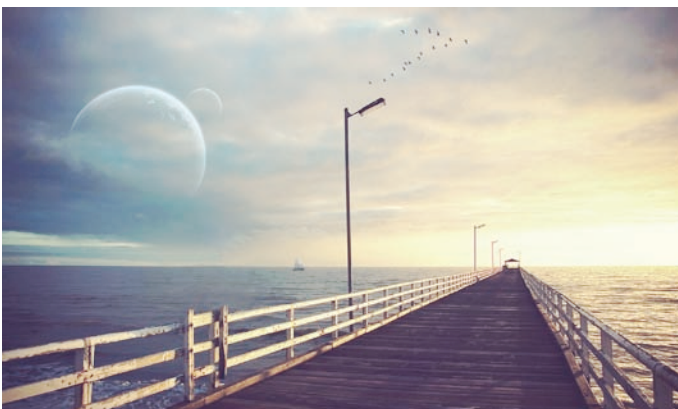


*Floating signature facilities such as wedding barge/chapel for signature wedding venues*



## PRINCIPLE CONTSTRUCTION

To anticipate the possibility of natural hazards on this area, such as; storm surge, fierce west wind, etc., the new fishermen community will be placed behind the main dikes as shown on this principle scheme. The new fishermen community will be growing in an organic structure which is integrated into the main structure who has an ordered structure. Furthermore, the jetties will be functioned as an intermediary means, connecting the new organic communities on the main dikes.



*Various examples of jetties which are part of the new fishermen community*