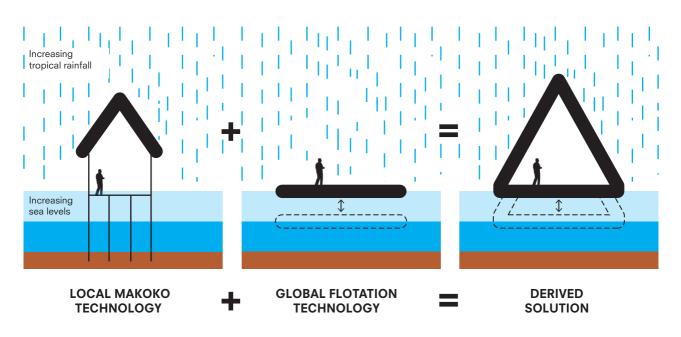


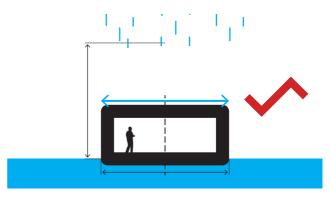
# STRUCTURE CONCEPT



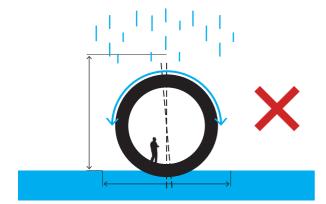
# **FLOTATION CONCEPT**



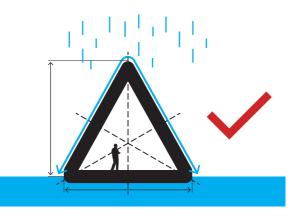
Poor stability and trim Poor roof drainage



Good stability and trim Poor roof drainage

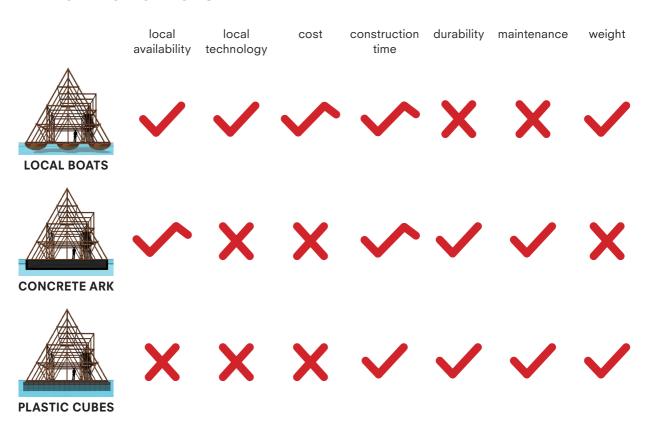


Poor stability and trim Good roof drainage



Very good stability and trim Ideal roof drainage

# **FLOTATION OPTIONS**



# **FLOTATION OPTIONS**

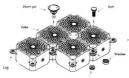


### PLASTIC SEGMENTS



Construction









Connections



Displacement of 74400 kg needed

Lift 93 kg per barrel

950 barrels (36'x36' double layer) 950 barrels deliver 88 tonnes of lift

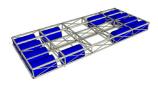
double layer standard

Info / Pros / Cons Ships from Shenzhen, China

+ Easy durable connection

+ Denser stacked. Pre-fab anchoring

- No rigid frame



Displacement of 74400 kg needed

Lift 208 kg per barrel 384 barrels (double layer barrels) 384 barrels deliver 80 tonnes of lift double layer not standard

Ships from USA

+ Rigid frame

+ Easy to move after assembly

- Vulnerable construction

Lift

# **CONCRETE ALTERNATIVES**

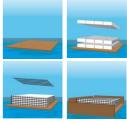


Construction





# CONCRETE-EPS



Connections Cast in-situ

Needs special concrete mix

Lift Displacement of 74400 kg needed (Akun)

11 m x 11 m x 0.65 Depth 65 centimeters Delivers 78650 kg lift

Information / + Extra space

Pros (+) / Cons (-) + High weight structure

Needs drydockHigh-tech

Cast in-situ

Needs special concrete mix

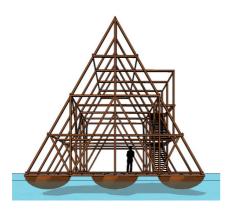
Displacement of 74400 kg needed (Akun)

11 m x 11 m x 0.65 Depth 65 centimeters Delivers 74700 kg lift

- + Low-tech
- + High weight structure
- Construction on water

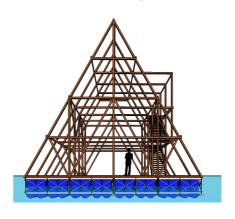
# TWO PREFERRED SOLUTIONS WITH READILY AVAILABLE LOCAL RESOURCES

#### **LOCAL BOATS**



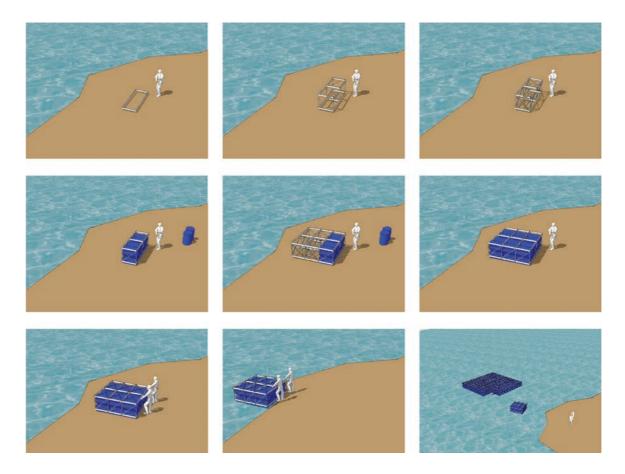


### **BARRELS**





# **MODULAR BARRELS CONSTRUCTION PROCESS**



# **ANCHORING OPTIONS**

