



Conceptual Devices

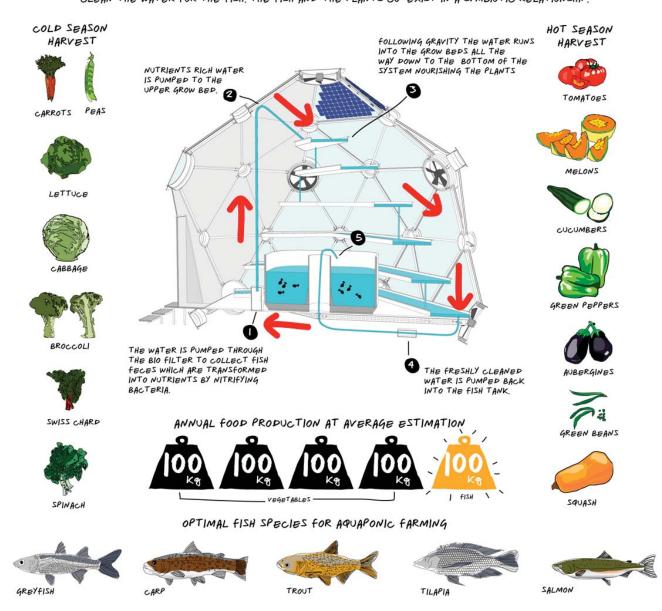
- bamboo greenhouse designed to organically grow fish and vegetables on top of generic flat roofs
- optimized to feed four families year-round
- designed to be manufactured and retailed at low-cost
- geodesic dome frame redistributes the load of the fishtank to a larger surface
- organically farmed bamboo chosen for its biodegradability



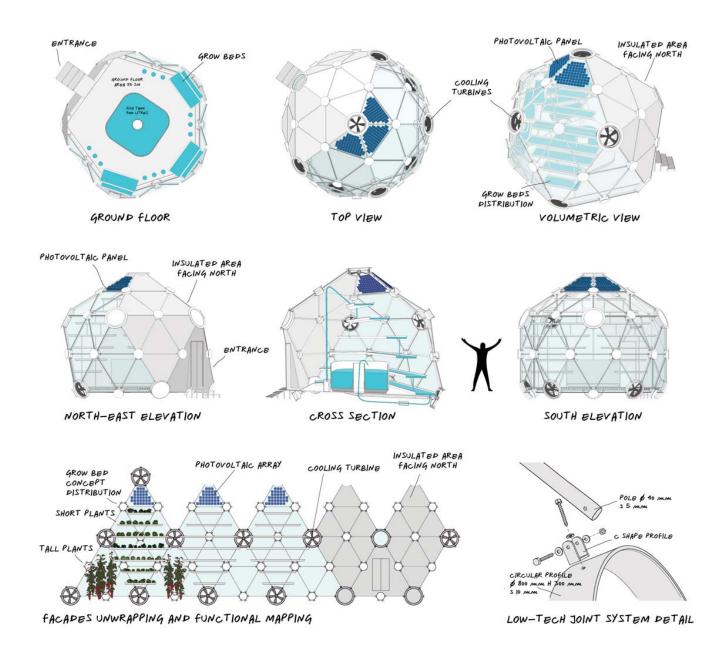


2 THE GLOBE - AQUAPONIC SYSTEM

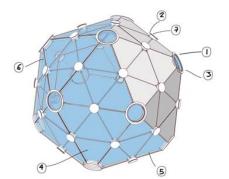
AQUAPONIC FARMING IS A TECHNIQUE THAT COMBINES THE CULTIVATION OF FISH WITH THE GROWING OF VEGETABLES. THE FISH PROVIDE RICH FERTILIZER FOR THE PLANTS AND IN RETURN, THE PLANTS CLEAN THE WATER FOR THE FISH. THE FISH AND THE PLANTS CO-EXIST IN A SYMBIOTIC RELATIONSHIP.



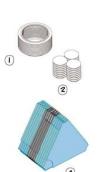
S THE GLOBE - ANATOMY



6 THE GLOBE - TRANSPORTABILITY



COMPLETED GLOBE (HEdron) DOME



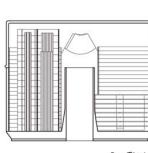




THE GLOBE (HEDROM) DISASSEMBLED. THE GLOBE (HEDROM) IS DESIGNED IN A WAY THAT, ONCE DISASSEMBLED, IT CAN BE CONTAINED IN THE FISH TANK, WHICH IS USED AS PACKAGING.

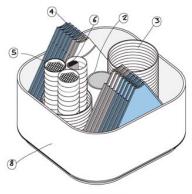


PLAN VIEW

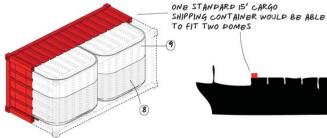


PACKAGING SYSTEM

SECTION



PACKAGING AXO



TO FIT TWO DOMES حيادلشا يداليداء ويعجم

4 THE GLOBE - IMPLEMENTAL FEATURES

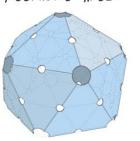
THE GLOBE (HEDRON) IS CONCEIVED WITH IMPLEMENTAL FEATURES TO MEET LOCAL ENVIRONMENTAL OPTIMIZATION

BASIC STRUCTURE



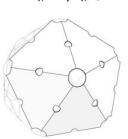
DELIVERED AS A BASIC GEODESIC STRUCTURE DESIGN TO HOST AN AQUAPONIC FARM. THIS OPTION IS SUITED TO WARM ENVIRONMENTS.

GREENHOUSE PANELS



THE GLOBE (HEdrom) BASIC STRUCTURE CAN BE COMPLETED WITH POLYCARBONATE PANELS TO CREATE A GREENHOUSE.

INSULATING PANELS



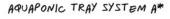
IN COLD ENVIRONMENTS HEDRON CAN BE FEATURED WITH INSULATING PANNELSFACING NORTH.

INTERNAL SHADING SAIL



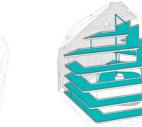
AN INNER PVC CLOTH CAN BE COATING OR ASSUPPLEMENTAL INSULATION IN CASE OF EXTREME COLD WETHER.

WATER TANK + BIOFILTER



AQUAPONIC TRAY SYSTEM B*

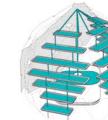
SUSPENDED MEZZANINE



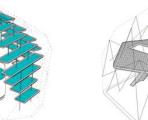
AS A BASIC FACILITY, THE GLOBE IS DESIGNED TO HOST AQUAPONIC EQUIPMENT SUCH AS A FISH TANK,



GROW BEDS CAN BE INSTALLED IN DIFFERENT CONFIGURATIONS ACCORDING TO COST, ENVIRONMENTAL NEEDS AND OPTIMIZED INSULATION. THIS CONFIGURATION WOULD ALLOW 40 SQM OF GROW BEDS AREA.



THIS CONFIGURATION IS LIGHTER AND DISTRIBUTES THE TRAYS ALONG THE PEREMETER. IT FACILITATES THE GROWTH OF TALLER PLANTS LIKE TOMATOES, FOR A TOTAL AREA OF



THE GLOBE (Hedrom) PROVIDES THE OPTION OF A MEZZANINE TO BE SUSPENDED ON THE BASIC STRUCTURE ENLARGING THE PRODUCTIVE SPACE.

SUSPENDED FABRIC MESH



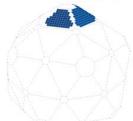
A LIGHT FABRIC MESH CEILING CAN ALSO BE INSTALLED.

COOLING TURBINES



THE COOLING TURBINE USES THE CHIMNEY EFFECT CRETED WITHIN THE GREENHOUSE TO GENERATE

PHOTOVOLTAIC PANELS



IN ORDER FOR HEDRON TO GENERATE POWER INDEPENDENTLY PHOTOVOLTAIC PANELS CAN BE PROVIDED

EXTERNAL SHADING SAILS



TO IMPROVE COOLING PERFORMANCE IN EXTREMELY HOT ENVIRONMENTS EXTERNAL SHADING SAILS CAN BE ADDED TO THE BASIC STRUCTURE.

4 THE GLOBE - IMPLEMENTAL FEATURES

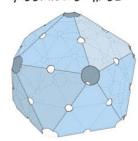
THE GLOBE (HEDRON) IS CONCEIVED WITH IMPLEMENTAL FEATURES TO MEET LOCAL ENVIRONMENTAL OPTIMIZATION

BASIC STRUCTURE



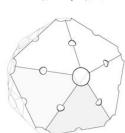
THE GLOBE (HEDFOM) CAN BE
PELIVERED AS A BASIC GEODESIC
STRUCTURE PESIGN TO HOST AN
APUAPONIC FARM. THIS OPTION
IS SUITED TO WARM ENVIRONMENTS.

GREENHOUSE PANELS



THE GLOBE (HEDROM) BASIC STRUCTURE CAN BE COMPLETED WITH POLYCARBONATE PANELS TO CREATE A GREENHOUSE.

INSULATING PANELS



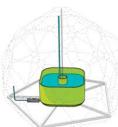
IN COLD ENVIRONMENTS HEDRON CAN BE FEATURED WITH INSULATING PANNELSFACING NORTH.

INTERNAL SHADING SAIL



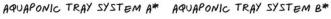
AN INNER PVC CLOTH CAN BE SUSPENDED INSIDE AS A LIGHT COATING OR ASSUPPLEMENTAL INSULATION IN CASE OF EXTREME COLD WETHER.

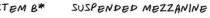
WATER TANK + BIOFILTER

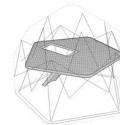


AS A BASIC FACILITY, THE GLOBE IS DESIGNED TO HOST AQUAPONIC BQUIPMENT SUCH AS A FISH TANK,



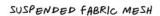






THE GLOBE (HEDROM) PROVIDES THE OPTION OF A MEZZANINE TO BE SUSPENDED ON THE BASIC STRUCTURE ENLARGING THE PRODUCTIVE SPACE.

WATER PUMP AND BIO FILTER.





A LIGHT FABRIC MESH CEILING CAN ALSO BE INSTALLED.

COOLING TURBINES

ACCORDING TO COST, ENVIRONMENTAL NEEDS AND OPTIMIZED INSULATION.

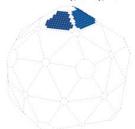
GROW BEDS CAN BE INSTALLED IN DIFFERENT CONFIGURATIONS

THIS CONFIGURATION WOULD ALLOW 40 SOM OF GROW BEDS AREA.



THE COOLING TURBINE USES THE CHIMNEY EFFECT CRETED WITHIN THE GREENHOUSE TO GENERATE ENERGY.

PHOTOVOLTAIC PANELS



THIS CONFIGURATION IS LIGHTER AND I HIS CONTIGUES I TON IS LIGHTER AND PISTRIBUTES THE TRAYS ALONG THE PEREMETER. IT FACILITATES THE GROWTH OF TALLER PLANTS LIKE TOMATOES, FOR A TOTAL AREA OF 40 SQM.

IN ORDER FOR HEDRON TO GENERATE POWER INDEPENDENTLY PHOTOVOLTAIC PANELS CAN BE

EXTERNAL SHADING SAILS



TO IMPROVE COOLING PERFORMANCE IN EXTREMELY HOT ENVIRONMENTS EXTERNAL SHADING SAILS CAN BE

