

RESILIENCE & RESPONSE

JUST AS THE I-KIRIBATI'S MANEABA PROVIDES SHELTER AS WELL AS AN EDUCATIONAL TOOL, THIS PROJECT AIMS TO SERVE MULTIPLE FUNCTIONS – IT MAKES USE OF GRAND, RECYCLED, FOUND OBJECTS FOR SIMPLE FAMILY SHELTERS THAT ALSO PROTECT THE I-KIRIBATI BEHIND DEEP COASTAL DEFENSES AND, AS A LAST RESORT, PROVIDE 'ARKS' THAT CAN BE RELOCATED IF REQUIRED.



SHIP BREAKING

WITH AN AVERAGE 25 YEAR LIFE-SPAN, EACH YEAR OVER 1,200 BULK CARRIERS ARE DISMANTLED IN THE SHIP GRAVEYARDS OF SOUTH ASIA. SEVERAL VESSELS SHALL BE TOWED TO A FLOATING DRY DOCK LOCATED IN THE CHANNEL CLOSE TO THE BETIO AIRPORT ON THE SOUTH WEST CORNER OF TARAWA ATOLL, THEN SEPARATED INTO A 'KIT OF PARTS'. THESE PARTS ARE TO BE REASSEMBLED TO PROVIDE SOLUTIONS FOR DOMESTIC, FARMING AND CULTURAL REQUIREMENTS.

RESOURCES - A Closed Loop

EACH EXTENDED FAMILY IS PROVIDED A SECTION OF SHIP ALONG A WALKWAY TO INHABIT. INTERIOR SPACES WILL BE FORMED WITH A BASIC POST & BEAM STRUCTURE BASED ON THE SETOUT OF THE TRADITIONAL MANEABA (MEETING HOUSE) UTILIZING COCONUT AND PANEA TIMBERS AS WELL AS UP-CYCLED SHIPPING PARTS. EACH UNIT WILL HOUSE 16-20 FAMILY MEMBERS AND HAVE THE ABILITY TO OPERATE SELF SUFFICIENTLY APPLYING CLOSED LOOP PERMACULTURE PRINCIPLES SUCH AS WATER HARVESTING AND RECYCLING, SMALL SCALE FARMING WITH TIMBER AND FOOD PRODUCTION WITH COMPOSTING AND RENEWABLE SOLAR ENERGY COLLECTION.

ENVIRONMENTAL RESPONSES

AS RISING SEA LEVELS WILL EVENTUALLY INUNDATE THE FRESH WATER LENS THAT HAS SLAKED THE I-KIRIBATI FOR GENERATIONS, ALL RAINWATER NEEDS TO BE COLLECTED. STORAGE TANKS ARE INCORPORATED IN THE LOWER LEVELS OF EACH DWELLING FOR THIS PURPOSE. ALL RESIDENCES ARE TO PRODUCE THEIR OWN ELECTRICITY BY THE ADDITION OF SOLAR PANELS AND BATTERY STORAGE.

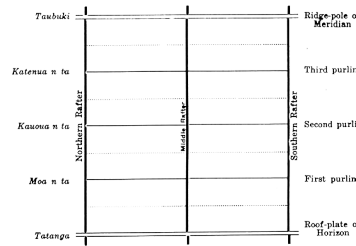
AMAZONIAN TERRA PRETA REFERS TO RICH SOIL CREATED FROM A MIXTURE OF CHARCOAL, COMPOST AND MANURE. USING THIS PRINCIPLE, HUMAN AND FISH WASTE CAN THUS BE USED BY THE I-KIRIBATI TO FERTILIZE THE TARO FARMS, VEGETABLE GARDENS AND COCONUT GROVES, AS SANITATION IS AN ON-GOING CONCERN ON THE NATION'S ISLANDS. CROSS VENTILATION IS ACHIEVED THROUGH 'FISH BONE' OPENINGS ALONG THE SIDES OF EACH UNIT. (THESE MARKINGS REFLECT THE TRADITIONAL TATTOOING OF THE ISLANDS.)

WATER HARVESTING, SOLAR ENERGY PRODUCTION AND FOOD PRODUCTION ALSO OCCUR AT A LARGER SCALE ON SPECIFIC SHIP SECTIONS ANCHORED NEARBY. CONDENSATION TOWERS ARE PROPOSED USING SEA WATER PUMPED FROM DEPTH OVER WHICH THE WARM HUMID BREEZE WILL BE ALLOWED TO PASS AND THE MOISTURE COLLECTED.

ELECTRICAL CORROSION SYSTEMS WILL PREVENT THE COLOURFUL STEEL SECTIONS FROM RUSTING WHILST NOT POLLUTING THE ENVIRONMENT AND AIR BLADDERS WILL ALLOW EACH OBJECT TO BE RAISED OR LOWERED TO ITS DESIRED HEIGHT.



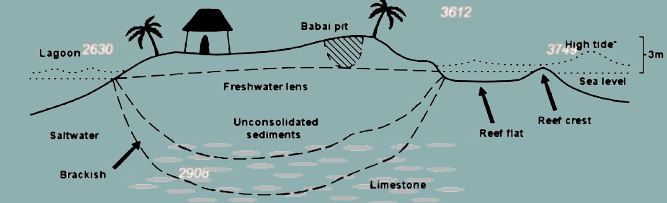
TRADITIONAL CANOES



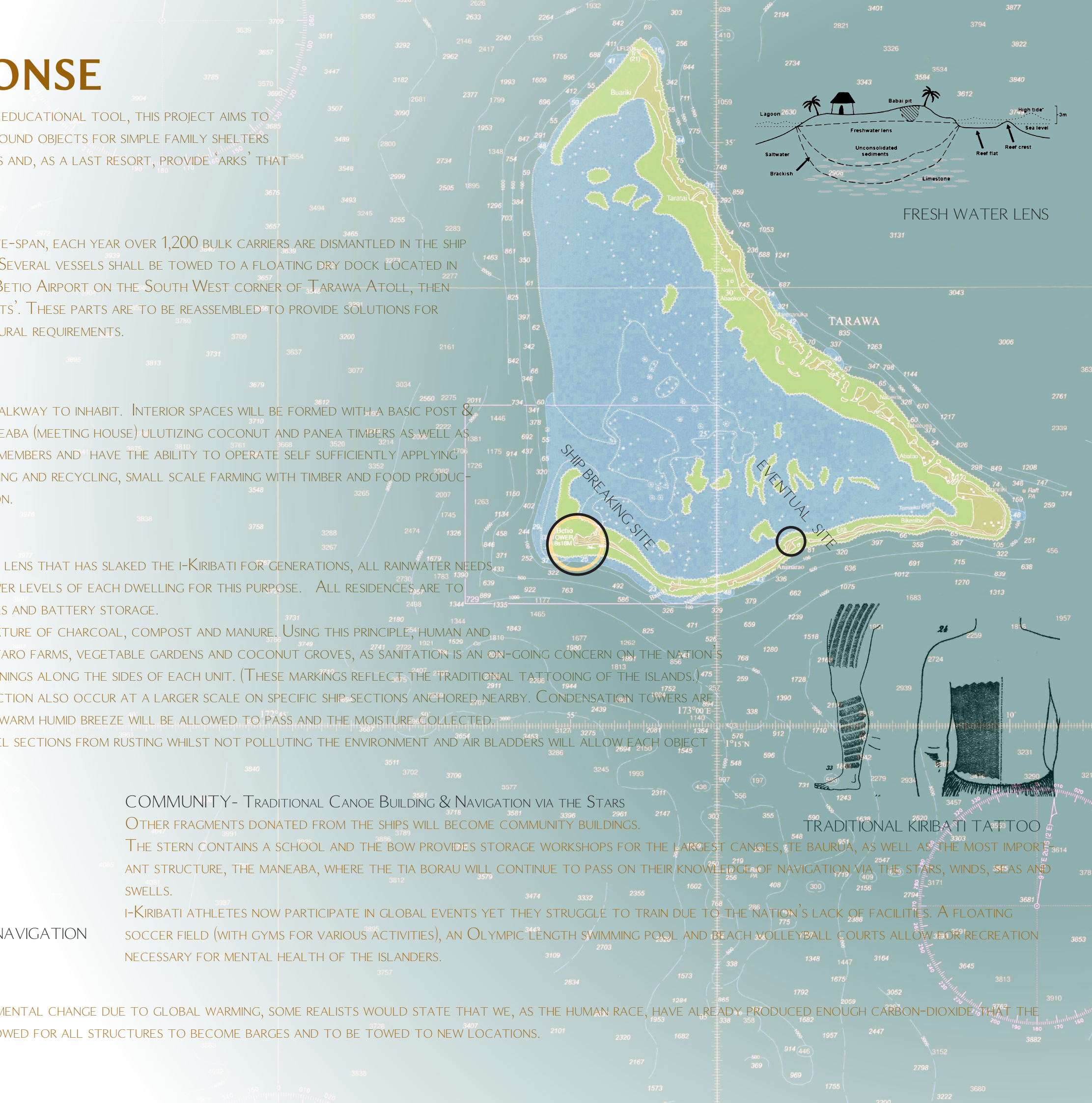
MANEABA ROOF / STAR NAVIGATION

PLANNING FOR ALL FUTURES

WHILE ALL POSSIBLE ATTEMPTS MUST BE MADE TO RESTRICT ENVIRONMENTAL CHANGE DUE TO GLOBAL WARMING, SOME REALISTS WOULD STATE THAT WE, AS THE HUMAN RACE, HAVE ALREADY PRODUCED ENOUGH CARBON-DIOXIDE THAT THE FATE OF KIRIBATI IS SEALED. IF THAT IS THE CASE, THEN WE HAVE ALLOWED FOR ALL STRUCTURES TO BECOME BARGES AND TO BE TOWED TO NEW LOCATIONS.



FRESH WATER LENS



COMMUNITY- Traditional Canoe Building & Navigation via the Stars

OTHER FRAGMENTS DONATED FROM THE SHIPS WILL BECOME COMMUNITY BUILDINGS.

THE STERN CONTAINS A SCHOOL AND THE BOW PROVIDES STORAGE WORKSHOPS FOR THE LARGEST CANOES, THE BAURUA, AS WELL AS THE MOST IMPORTANT STRUCTURE, THE MANEABA, WHERE THE TIA BORAU WILL CONTINUE TO PASS ON THEIR KNOWLEDGE OF NAVIGATION VIA THE STARS, WINDS, SEAS AND SWELLS.

I-KIRIBATI ATHLETES NOW PARTICIPATE IN GLOBAL EVENTS YET THEY STRUGGLE TO TRAIN DUE TO THE NATION'S LACK OF FACILITIES. A FLOATING SOCCER FIELD (WITH GYMS FOR VARIOUS ACTIVITIES), AN OLYMPIC LENGTH SWIMMING POOL AND BEACH VOLLEYBALL COURTS ALLOW FOR RECREATION NECESSARY FOR MENTAL HEALTH OF THE ISLANDERS.

TRADITIONAL KIRIBATI TATTOO



The diagram shows a traditional Kiribati tattoo design, which is a fishbone-like pattern. It is used for navigation and is a significant cultural symbol.