MATERIALITY

The prototype is to be constructed with completely recycled materials.
- Polycarbonate
- Aluminium
- Panels 1m x 2m
- Cotton fabric
- Steel

Working with recyclable materials will bring about a series of advantages such as the ones listed below:

**LIFE EXPAND PER ITEM**
- Polycarbonate exposed to the sun may be used for around 10 years
- Cotton fabric will be loaded with salts when distilling. It will be to be replaced every 2 to 3 years
- The photovoltaic panels have a written guarantee of 30 years.
- Aluminium elements and Steel Structure, will last between 20 and 30 years.

**CONSTRUCTIBILITY**

**CONSTRUCTION**
- Primary Steel Frame Structure seating on steel plates with stake.
- A series of photovoltaic panels seating on top of the primary structure.
- Cotton fabric below the panels.
- Recycled polycarbonate balloon with an aluminium underbelly ceiling.

**OFFSITE CONSTRUCTION**
- Sequence of production
- Production of all elements off site into the factories.
- Pre-assemble
- Transport to the part into the site
- Assemble the parts on site within minimal impact.

**APPLICATION| EPHEMERAL CAMP**

- Ephemeral Station in the Centre of the composition as iconic Civic meets point.
- Radial Grow.
- Field of Diverse clusters and sizes of the unit according to the need.

Cost
- Early return on capital
- Significant cash flow advantages over traditional build

Environment
- CO2 reduction due to fewer site deliveries
- The prototype is to be constructed with completely recycled materials.
- Polycarbonate
- Aluminium
- Panels 1m x 2m
- Cotton fabric
- Steel

- Affordable and recyclable Materials

- Balloon system to distilled water 250 Dollars / m2 x 300 = 75000 Dollars. This is aluminium and polycarbonate.
- The primary steel structure 35000 dollars given a total of 100000 dollars.
- Photovoltaic system for the 300 m2: 250000 dollars between system and batteries to produce 263 kWh / day. The amount of photovoltaic could be reduced depending on the required consumption.
- Size 1 balloon will be a total of 350000 dollars.

- Less waste to landfill

COST ESTIMATE
- Early return on capital
- Significant cash flow advantages over traditional build

SPEED
- Less time on site due to fast installation
- More reliable site deliveries
- Less dependency on good weather

QUALITY
- Improved quality due to factory controlled QC systems
- Less re-work on site – factories are typically 70%-80% efficient compared to efficiencies as low as 30% for some construction projects
- Reduced need for onsite skilled workforce

SAFETY
- Fewer overall site deliveries
- Less time spent on site and working at heights