



POST-TERRA

Post-Terra reimagines the future of food security with co-benefits of energy and social production that supports agriculture infrastructure. The project is a response to the current climate crisis, where droughts, flash floods, and heatwaves test the vulnerability of our infrastructure and ecosystem. It also highlights the intricate intertwining of the global supply and demand chain, where the different corners of the world are more connected and reliant on each other than ever.

Post-Terra proposes aggregate outdoor and semi-outdoor drip hydroponic systems that use less water and produce greater crop yields. Its open-air setup uses the sun as the natural light source (minimizing power requirements by eliminating grow lights and HVAC) and relies on natural insects and pollinators. The projects seek co-benefits that support fauna, animals, and people to support biodiversity by creating regeneration and resiliency systems. The project comprises an array of self-sufficient hydroponics pavilion (pods) composed of solar harvesting, water harvesting, and hydroponic trays connected to drip pipes and pumps.

Clusters of pods form the following three concentric zones of social production: market/ agricultural center, learning hub/ community theater, and play area/ cooling center. The clusters' layered and concentric growing nature means they can begin to form a new zone for future growth.

High-pressure misting nozzles with fog & mist collector

Typical pod

Upper Level
Elevation +3.6 m

Future Expansion Rings

ZONE 3:
Play area /
Cooling Center
52 m diameter

Water reservoir & filtration

Lower Level
Elevation +0 m

PLAN DIAGRAM

Thin film dye-sensitized solar cell (DSSC) Agrioltaics

Porous pavement

General storage

ZONE 2:
Learning Hub /
Community Theater
48 m diameter

ZONE 1:
Market /
Agricultural Center
72 m diameter

PV battery storage