THE REEF

The Reef simulates the infrastructure of a living reef with its layers of coral skeletons, allowing the addition of plug-in modular units. Reef is designed for biodiversity of inhabitants who can live, work, and play in this evolving human-scaled structure.

Each modular unit is a living element and contributes to the building's sustainability. A pod can be removed, replaced, or relocated to allow for future adaptation to economic and cultural needs. Its façade: rich colors inspired by the South African culture and the beautiful reefs of the region.

Public Sky Plaza
Public Sky Lounge
Public Event Space
Residential Condos

Office
Mid-Level Public Park
Mid-Level Retail/Entertainment
Community Space

Public Space:

Coral Reef Map
Wave Energy Map

Site Plan:

Public Space:

Grey Water / Desalination Plant / Wave Energy

The organic concrete structure, made from locally sourced aggregate, provides a framework for a series of interlocking, adaptable, and sustainable building pods that will constantly reconfigure in response to community needs.

- **Future Commercial Office**: A culturally display + performance area
- **Urban Garden**: A site plan showcasing the development's components
- **Future Low Income Residential**: Assisted living housing
- **Retail/Entertainment**: Public event space
- **Grey Water / Desalination Plant / Wave Energy**: The organic concrete structure, made from locally sourced aggregate, provides a framework for a series of interlocking, adaptable, and sustainable building pods that will constantly reconfigure in response to community needs.
- **Daycare**: The Reef simulates the infrastructure of a living reef with its layers of coral skeletons, allowing the addition of plug-in modular units. Reef is designed for biodiversity of inhabitants who can live, work, and play in this evolving human-scaled structure.

- **Public Sky Plaza**: A communal area accessible from the top floor of the development.
- **Public Sky Lounge**: A relaxation area for residents.
- **Public Event Space**: An area for community events and gatherings.
- **Residential Condos**: Units designed for mid-level living.
- **Office**: Dynamic workspaces for professionals.
- **Mid-Level Public Park**: An outdoor green space for residents to enjoy.
- **Mid-Level Retail/Entertainment**: A vibrant area for socializing and shopping.

- **Community Space**: A versatile area for social events and gatherings.

- **Modular Units**: These units can be removed, replaced, or relocated to allow for future adaptation to economic and cultural needs.
- **Regenerative Elevators**: Assists in continuing to sustain the building for decades to come.
- **UV Coated Transparent Glass**: Allows for natural daylight while maintaining privacy.
- **Operable Windows**: Allow airflow vertically and horizontally through the organically designed variations of the floor plates.
- **Its walls are made of carbon-neutral concrete that does not emit gases. What carbon is emitted naturally will be offset by living walls, acting as the living tissue of the Reef.**

As the programmatic use of Reef evolves, new pods can be fabricated or reconfigured economically by local craftsmen. These can be reconfigured by repositioning and reorienting existing pods. Some pods can become offices, offices, or retail and can be三亚 adapted for the changing needs and even incorporate multiple modules. The Reef simulates the infrastructure of a living reef with its layers of coral skeletons, allowing the addition of plug-in modular units. Reef is designed for biodiversity of inhabitants who can live, work, and play in this evolving human-scaled structure.