

DUNOON LIBRARY

DESIGN FOR RESILIENCE

URBAN PLANNING & DESIGN BRANCHES INVOLVED

City Architects, Landscape Architects, Urban Design, Urban Development Implementation

LEAD CONSULTANTS

BERGSTAN + NGEWU and Associates

LEAD CONTRACTORS

ATUBA Construction

PROJECT YEAR

2012-Current

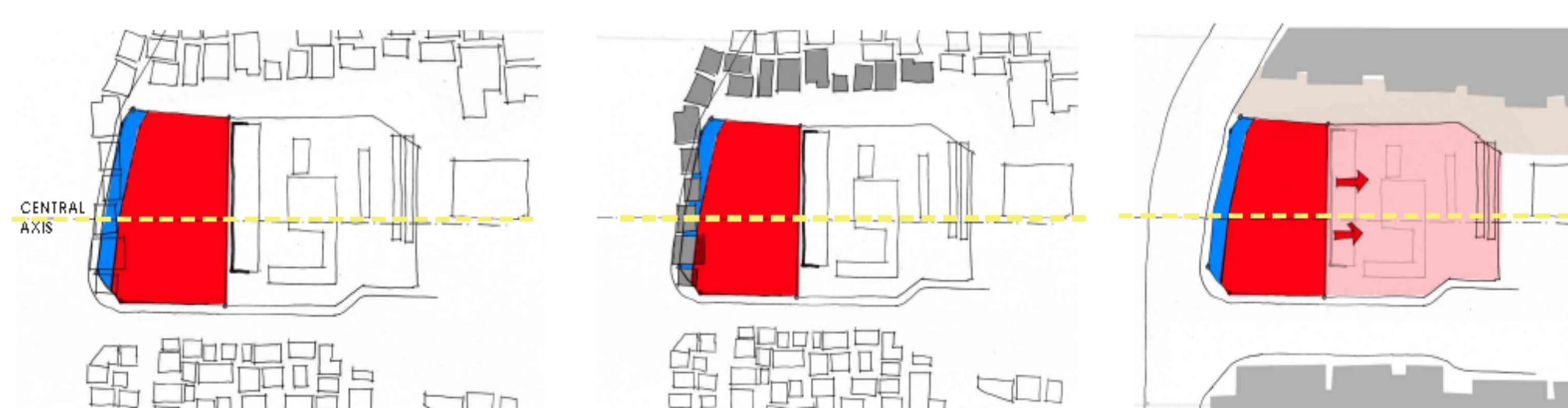
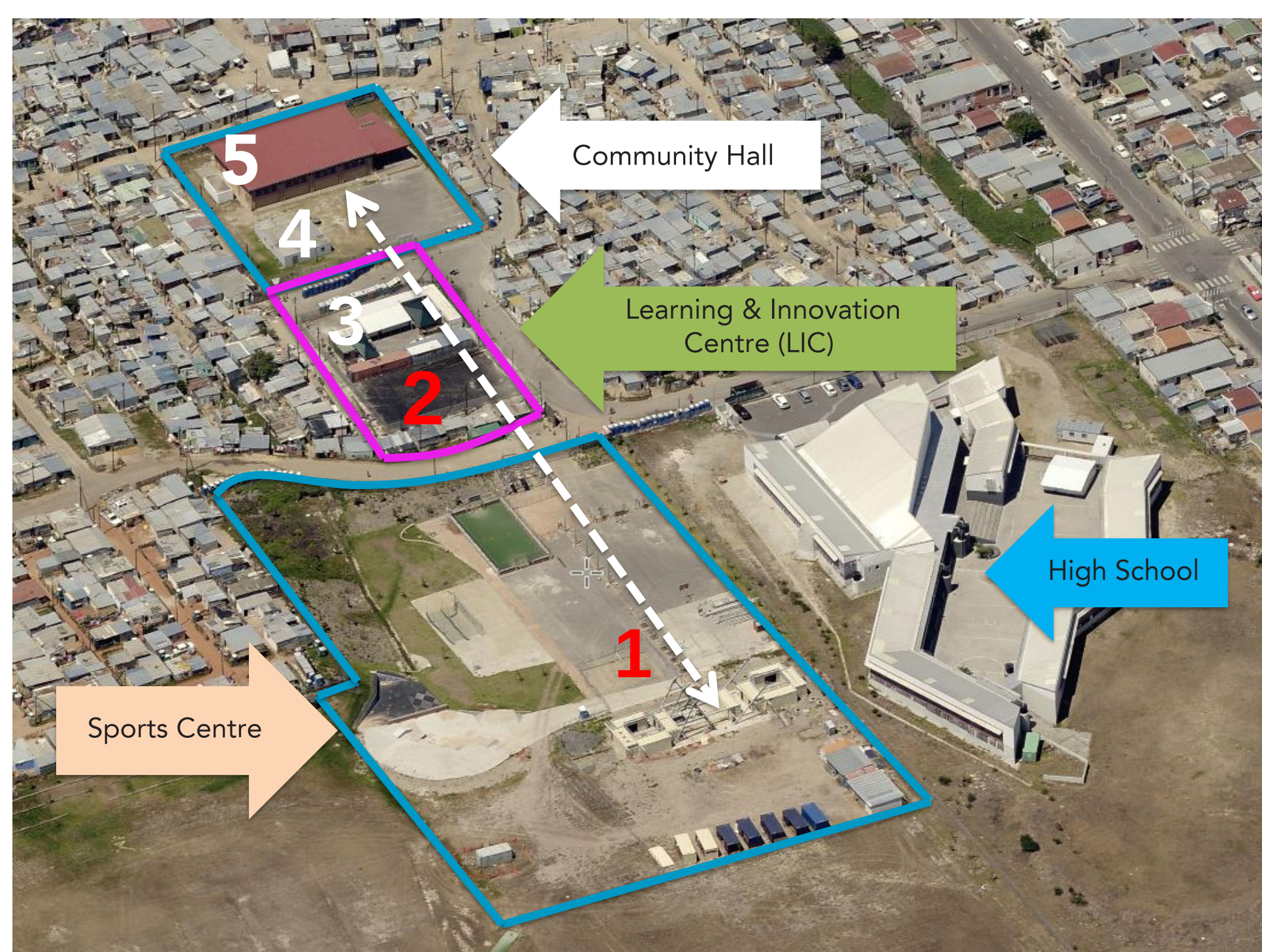
Designing for resilience is about making allowances for capacity within the design so that it has the ability to withstand rapid change or to recover quickly from shock events. The Dunoon community, historically experienced rapid growth and thus the need for rapid adaptation was high on the agenda.

Sustainable design is flexibility and responsiveness. It requires the humane quality of being able to readily respond to changes in a variety of biological and cultural ways. With sustainable design thinking and planning, the approach to the facility resulted in a building acting as an enabler and catalyst for greater impacts on the community through ensuring inclusive and equitable thinking. An example, is the current parking area, designed with the backbone infrastructure already in place to be converted as an extension to the library or be operated totally independently by another user providing another vital function. While the roof level is structurally and electrically ready to be converted into additional space without any interruptions of the library.

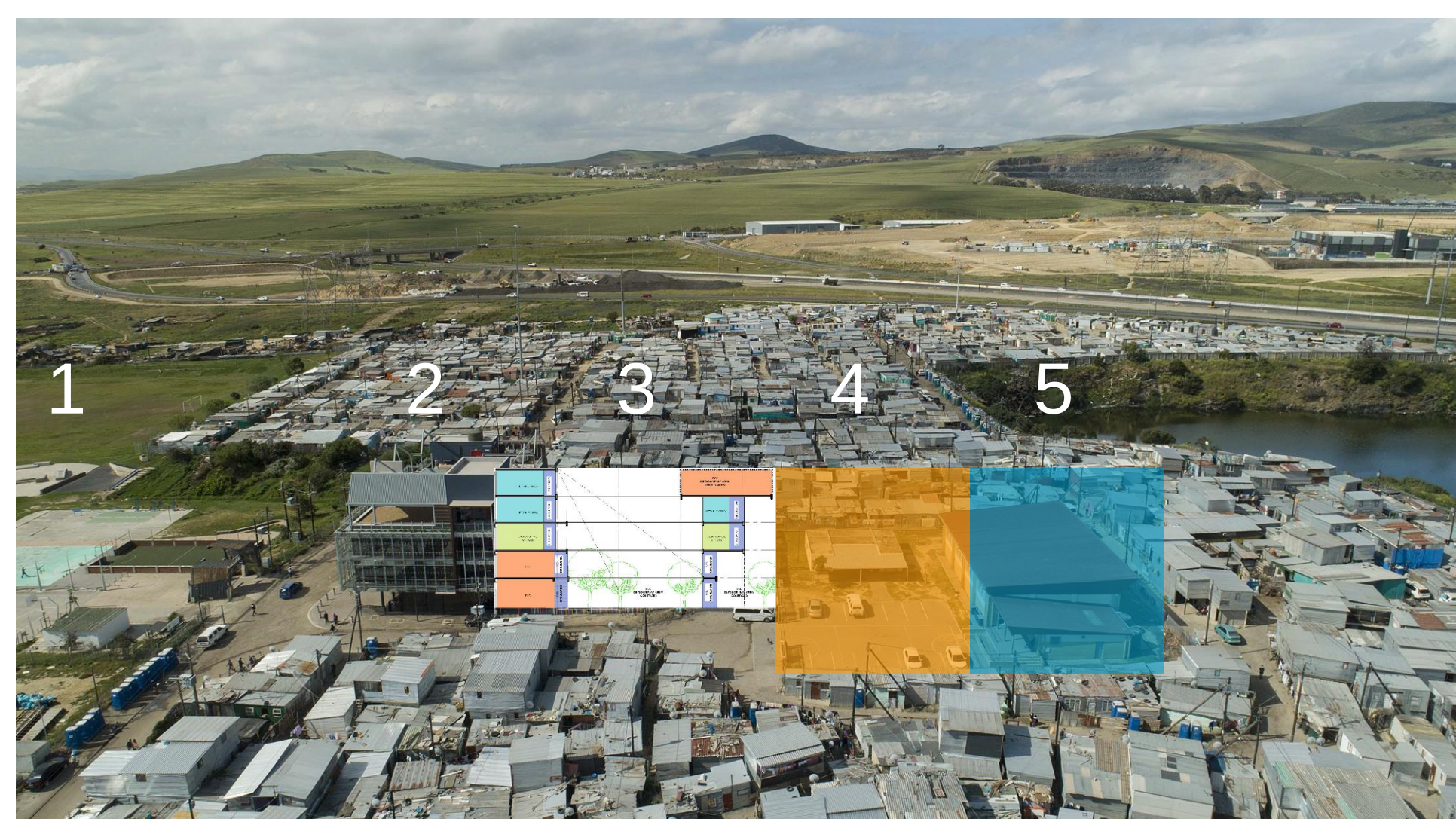
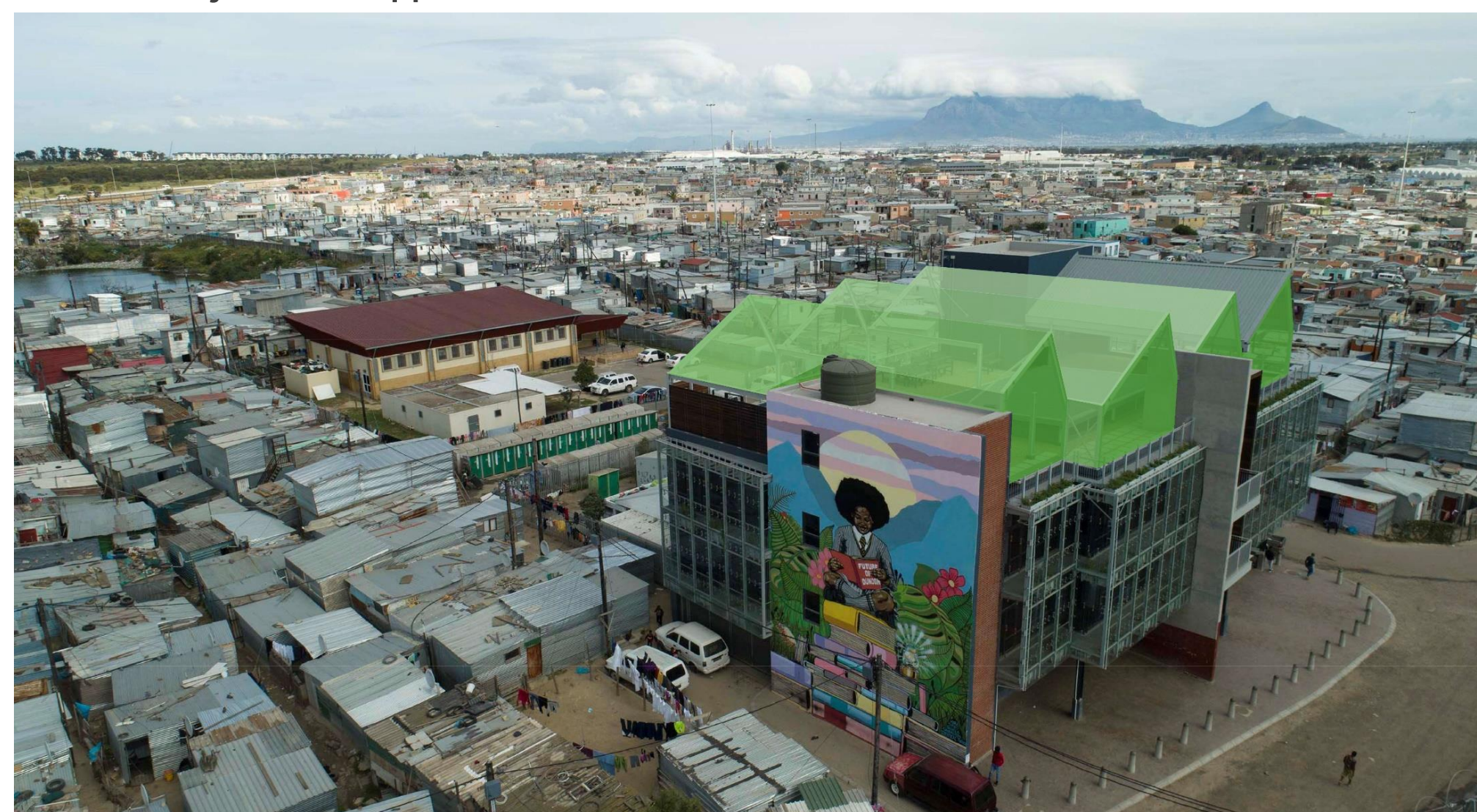
Clear attention was given to how the building can live, adapt and evolve to its community's ever changing needs, while having a presence of civic permanency. At its heart it provides a vital need today, while being ever ready to adapt and evolve to meet the community's needs of tomorrow.

The design allows for growth within the immediate space as well as the expansion immediate external spaces. Passive design, good orientation and daylighting allowed for the outer skin to be a protective barrier, as well as proving transparency and connection to the outer surroundings. The design is able to reduce the lighting load and energy consumption, locate water for the planting within the building that help to cool the internal spaces. The building mimics nature and applies biophilic design, using these ideas as principles to create a human centred approach to improve many of the spaces within.

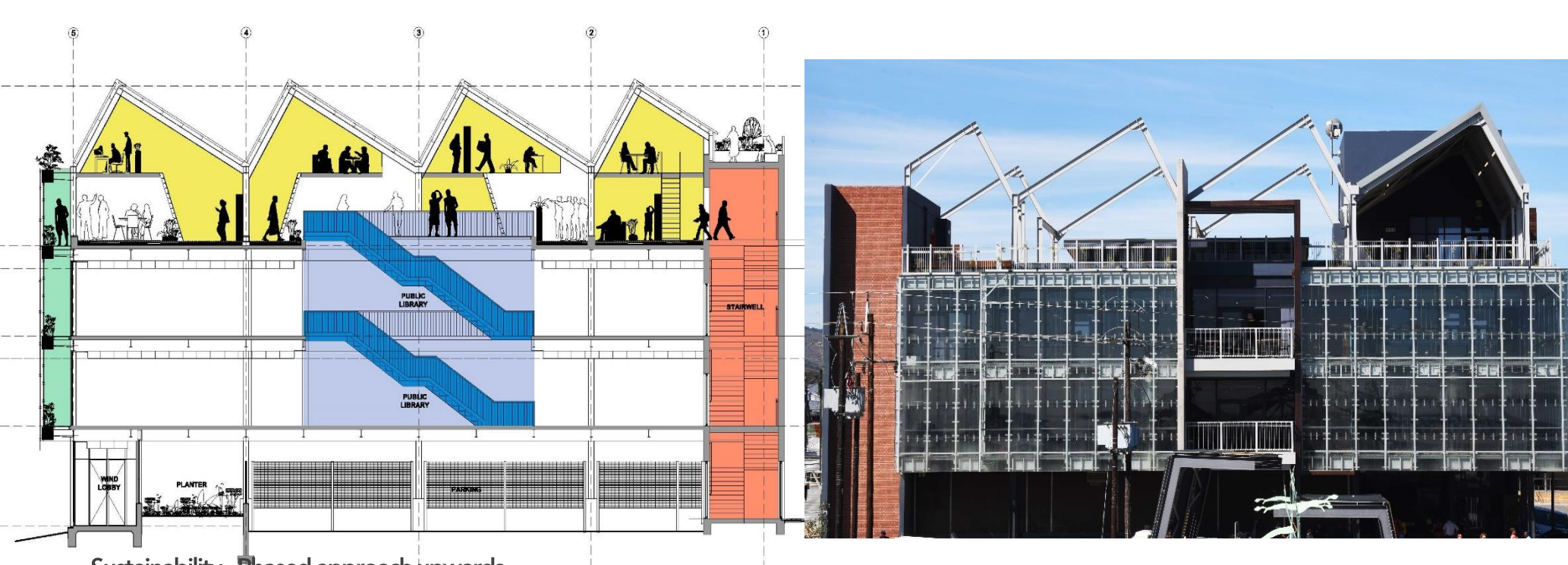
SUSTAINABLE BUILT ENVIRONMENT



Sustainability - Phased approach



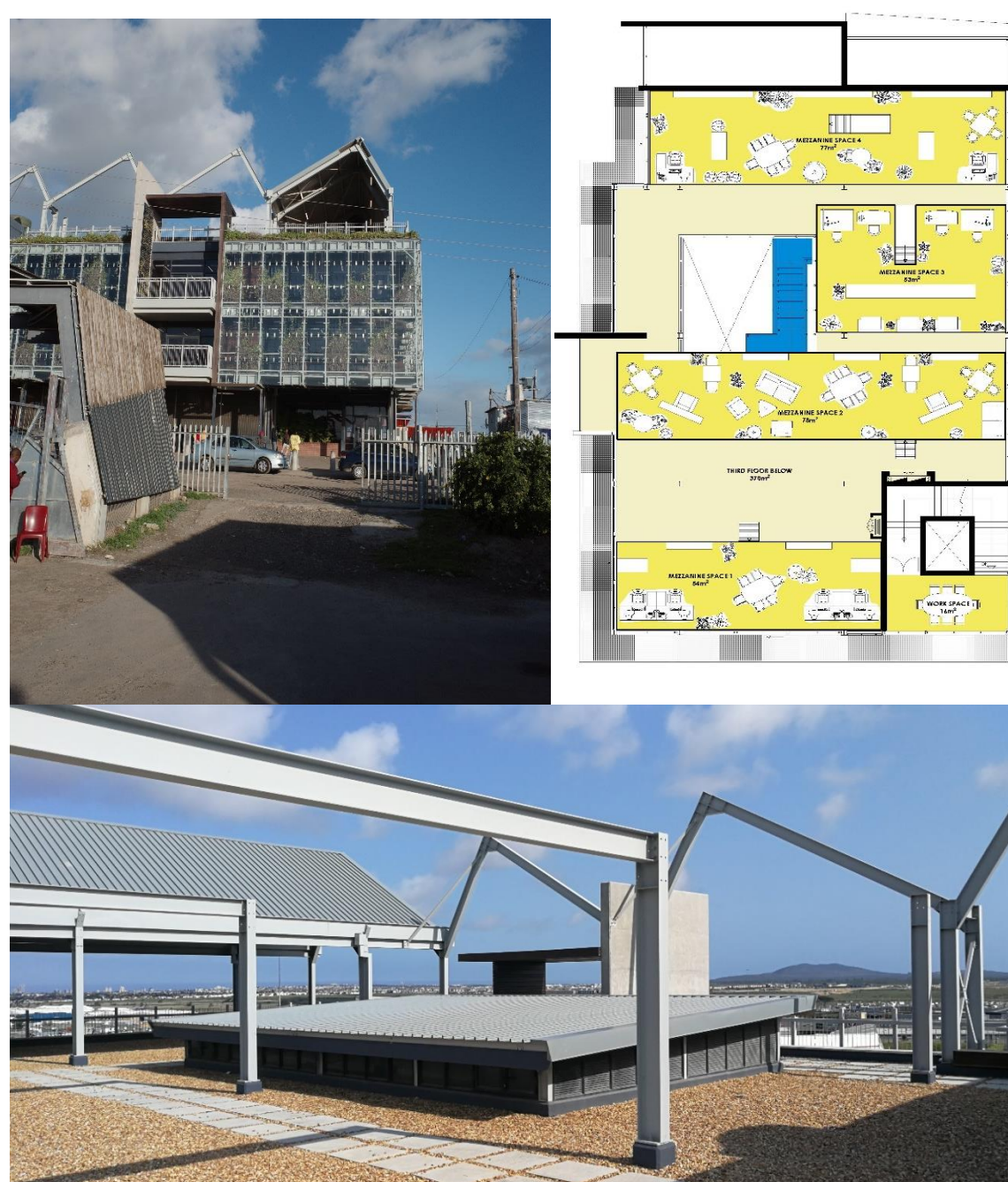
Sustainability - Phased approach (guiding future development)



Sustainability - Phased approach upwards



Growth and Adaptation within infrastructure



Allowance for Future Growth



Growth and adaptation is allowed for within the building as well as expansions into the immediate neighbouring erf's, guiding a phased growth. Biophilia (a love of nature) focuses on a human's innate attraction to nature and natural processes.

Connection to Nature- Elevated Landscaping



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