

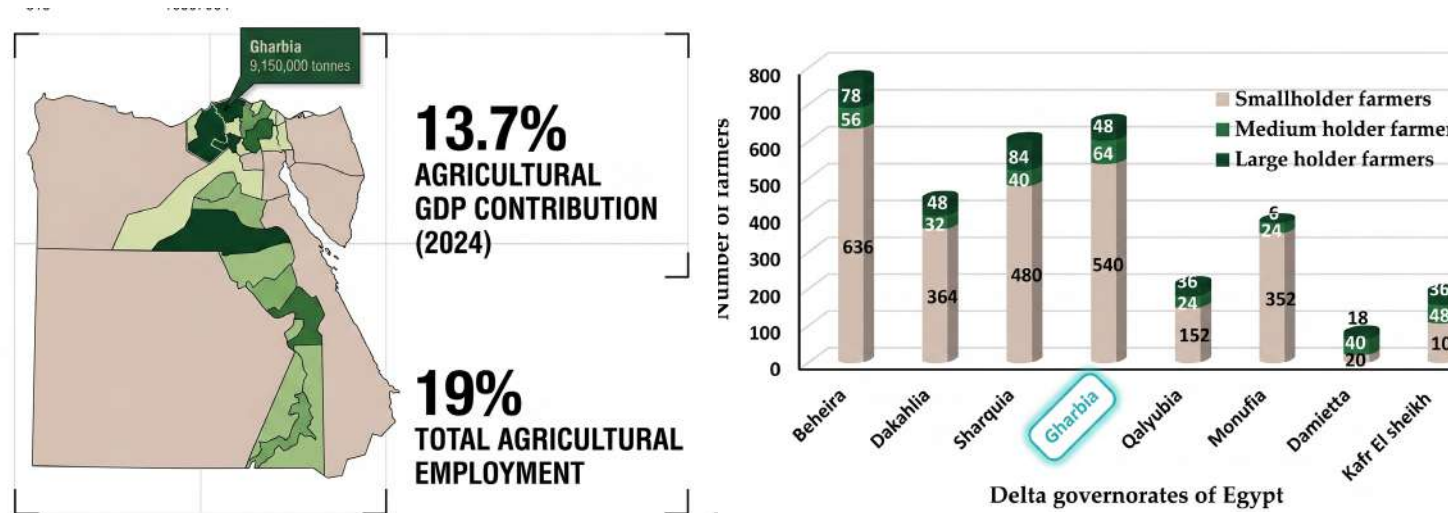
KILN03

EL GHARBIA ;MITGHAMR AGRICULTURE EDUCATION CENTER



From **KILN** to **CAMPUS**: A Living Classroom for Egypt's Delta. This new agro-processing and education hub transforms the scars of industry into elevated, productive fields, demonstrating a future where architecture, agriculture, and community grow together as one integrated engine for the region.

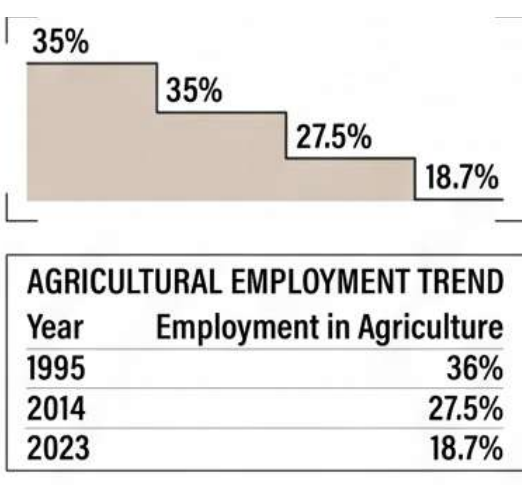
PROBLEM DEFINITION



Agriculture 13.7% to Egypt's GDP (2024), providing approximately 19% of total employment opportunities. This project aims to harness this potential by optimizing land use, water efficiency, and local production capabilities



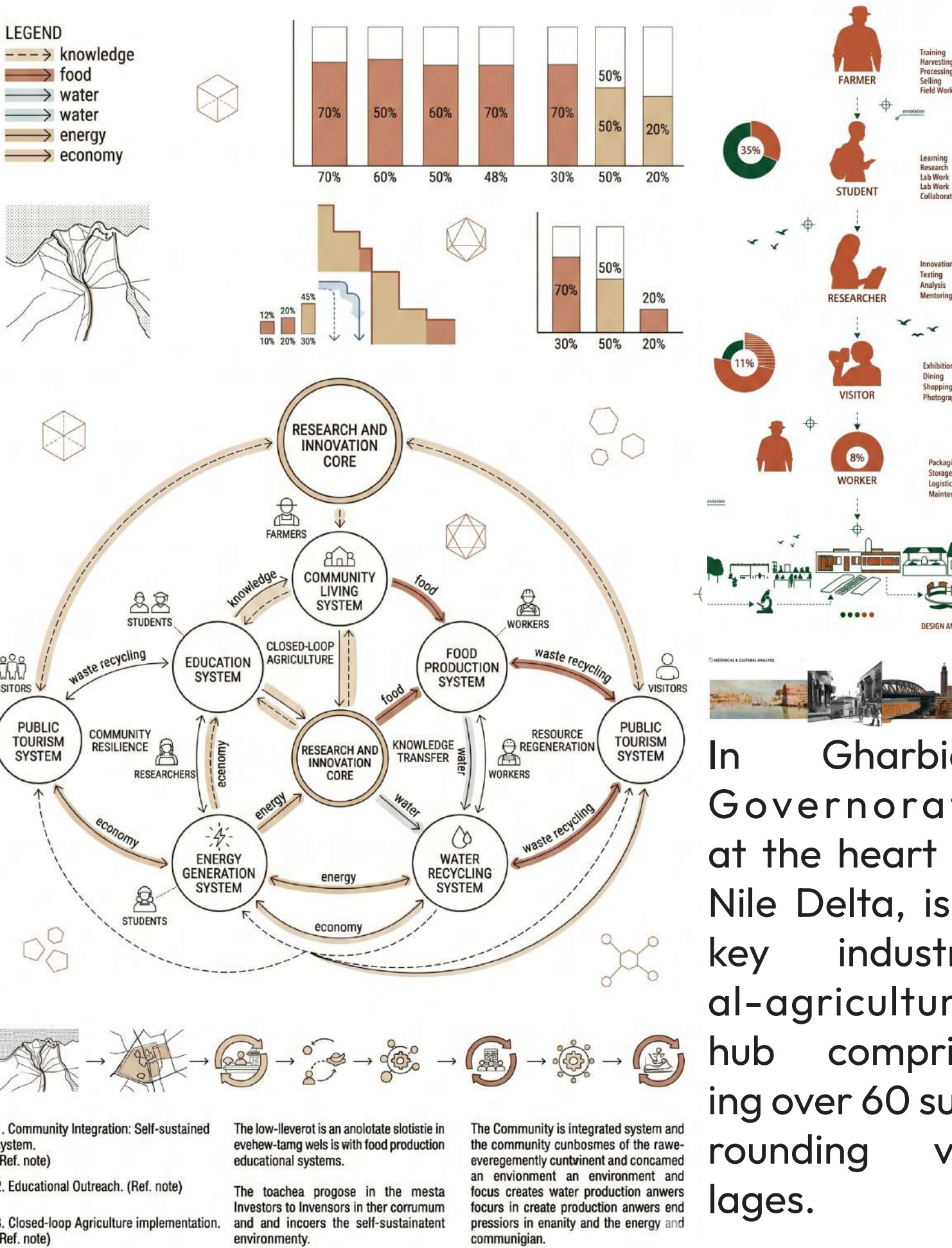
LAYOUT 1:1000



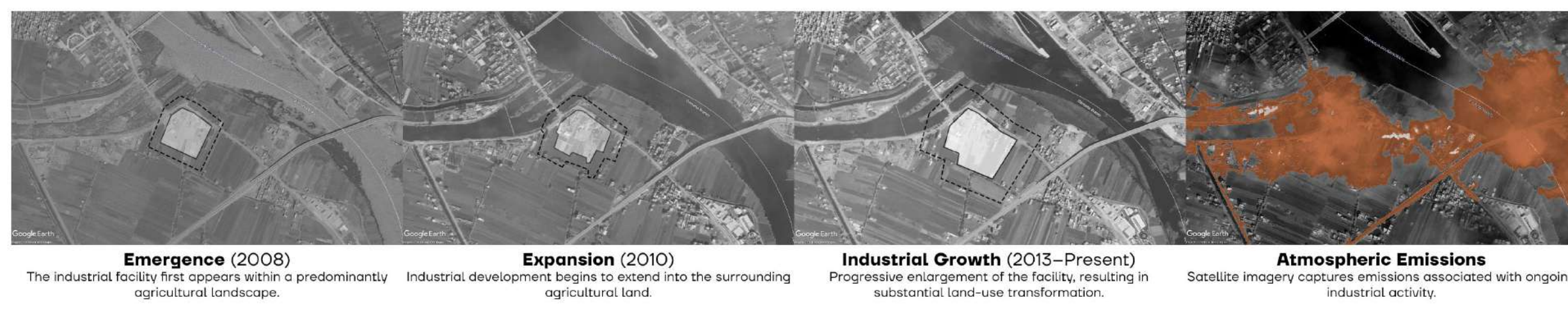
Farmers as a percentage of the labor market has decreased by nearly half over the last 30 years. Agricultural employers and innovation have become increasingly important as the share of agricultural employees in the labor market continues to decline.

Urban expansion is a primary driver, replacing fertile land with impervious surfaces, as noted by satellite data showing approximately 2% loss of arable land per decade due to urban encroachment. This, in turn, accelerates land fragmentation, breaking up agricultural plots into economically non-viable parcels and increasing vulnerability to soil degradation.

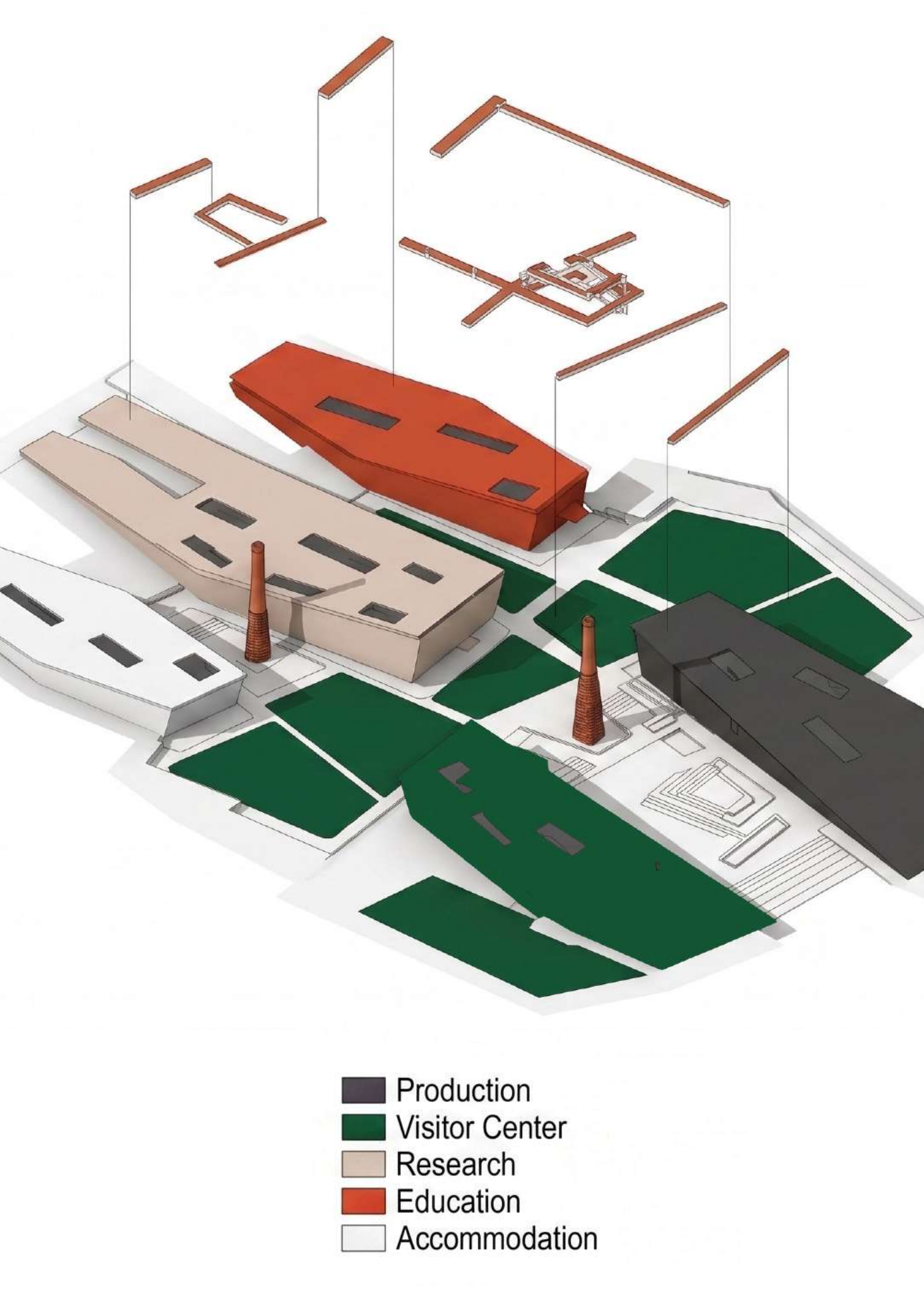
VISION EMPHASIS



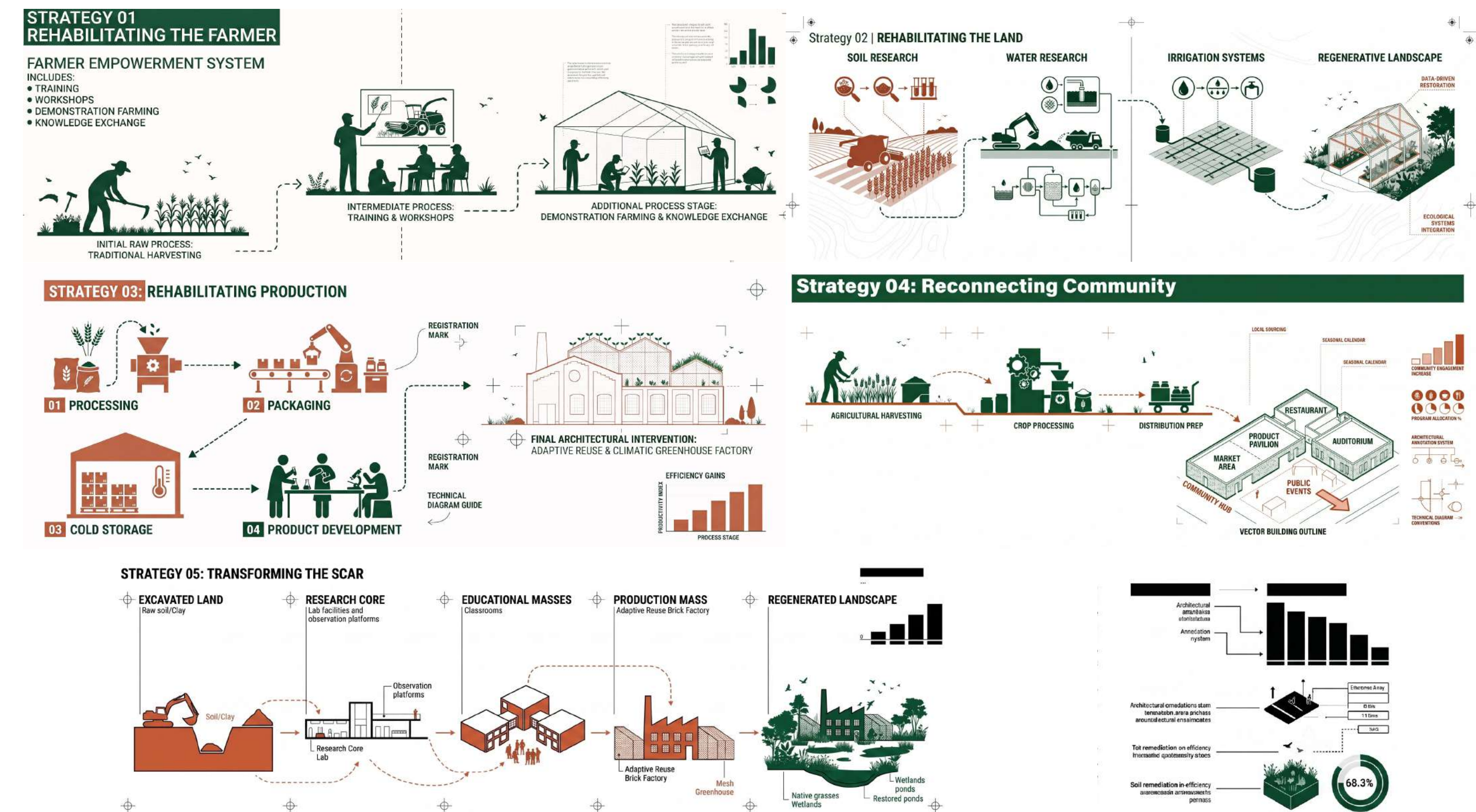
SITE ANALYSIS



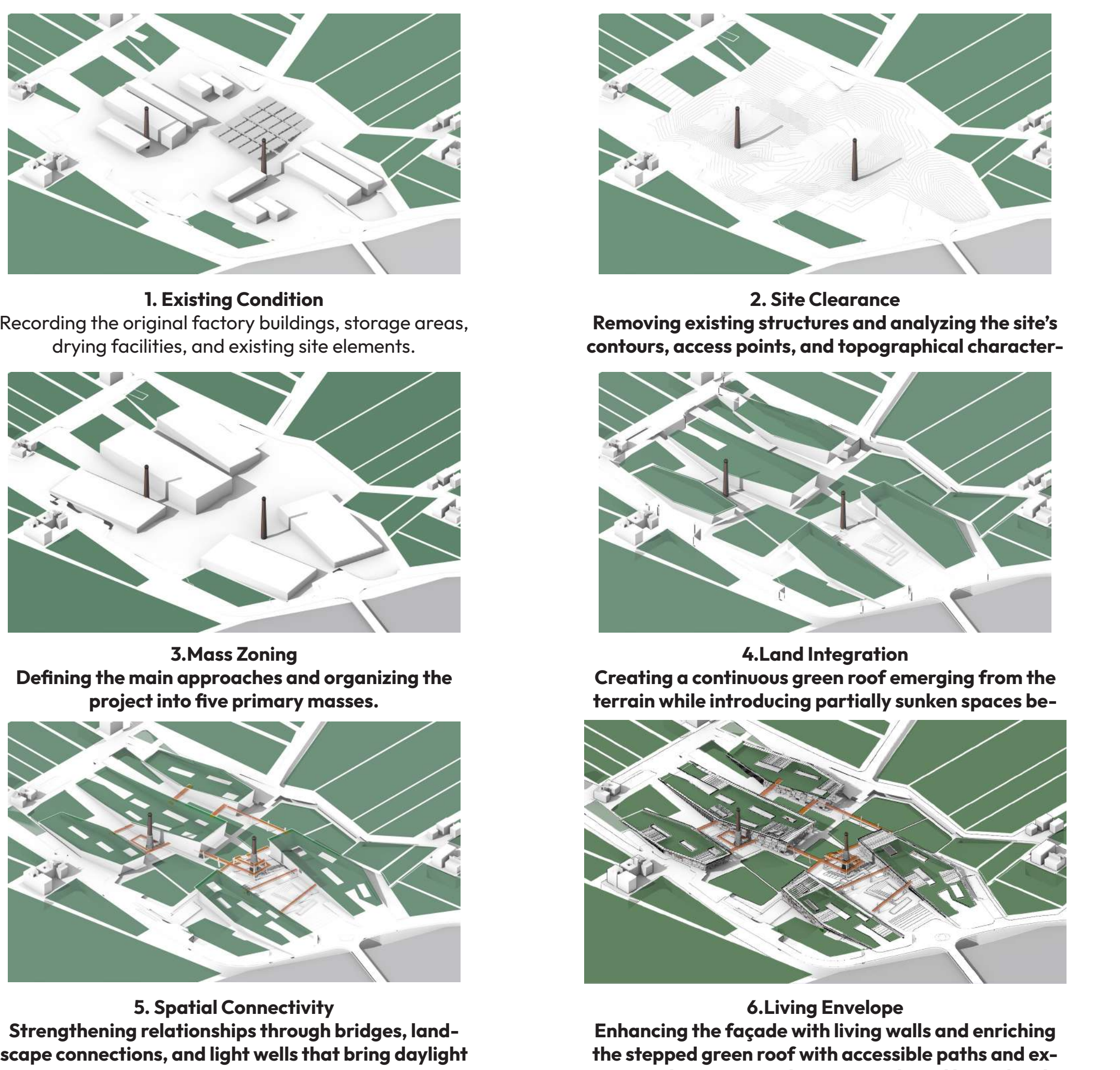
3D ZONING



USER SCENARIO

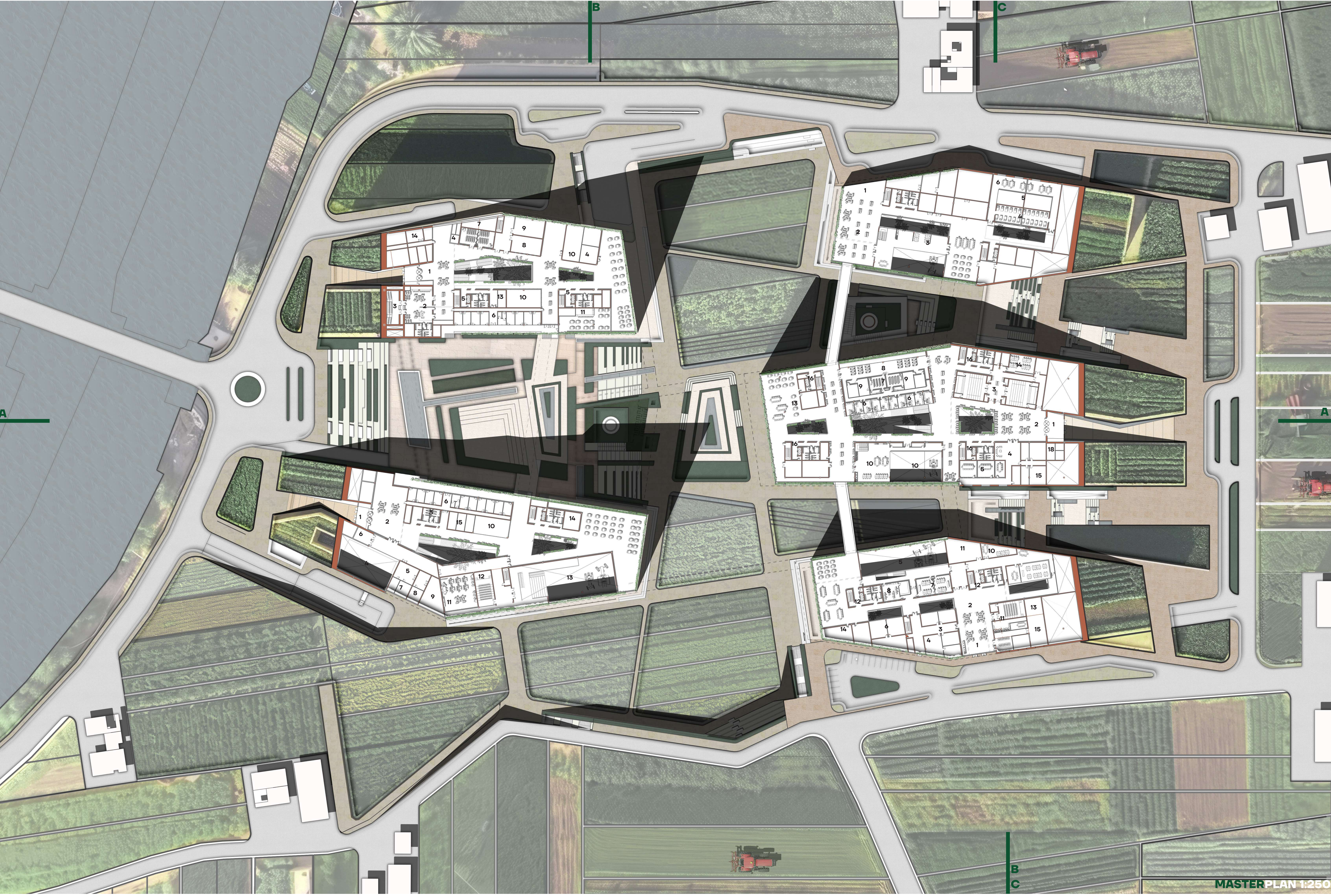
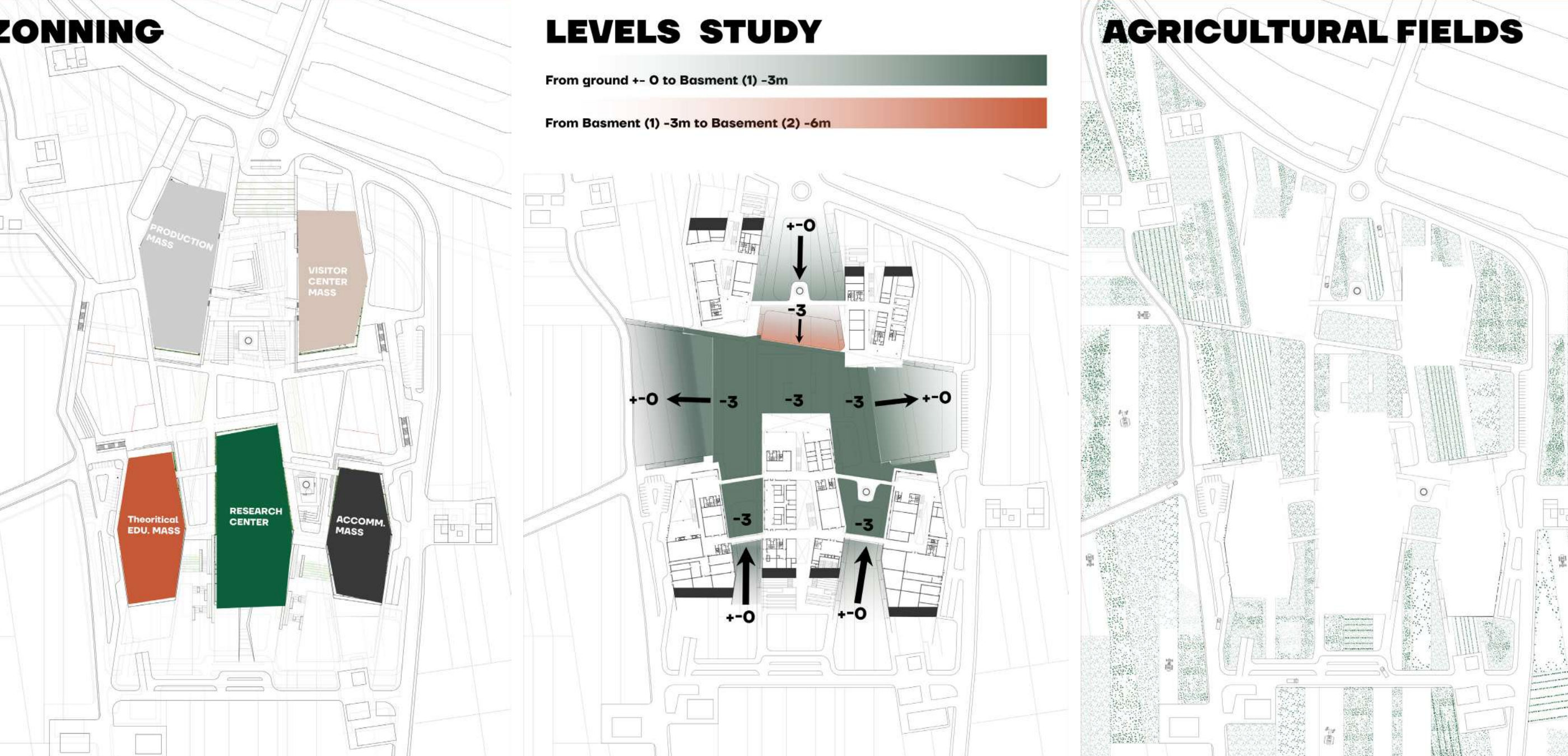
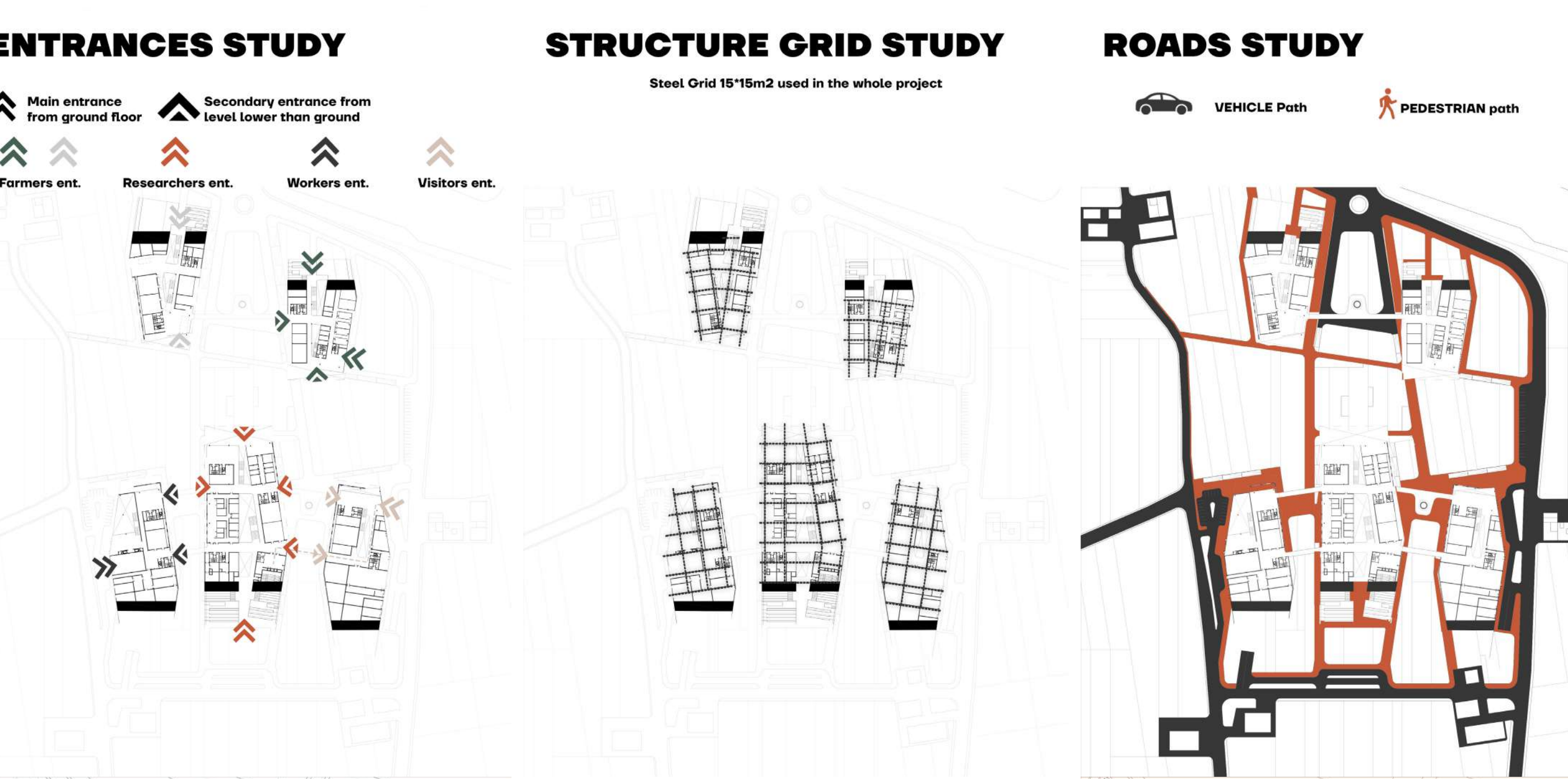
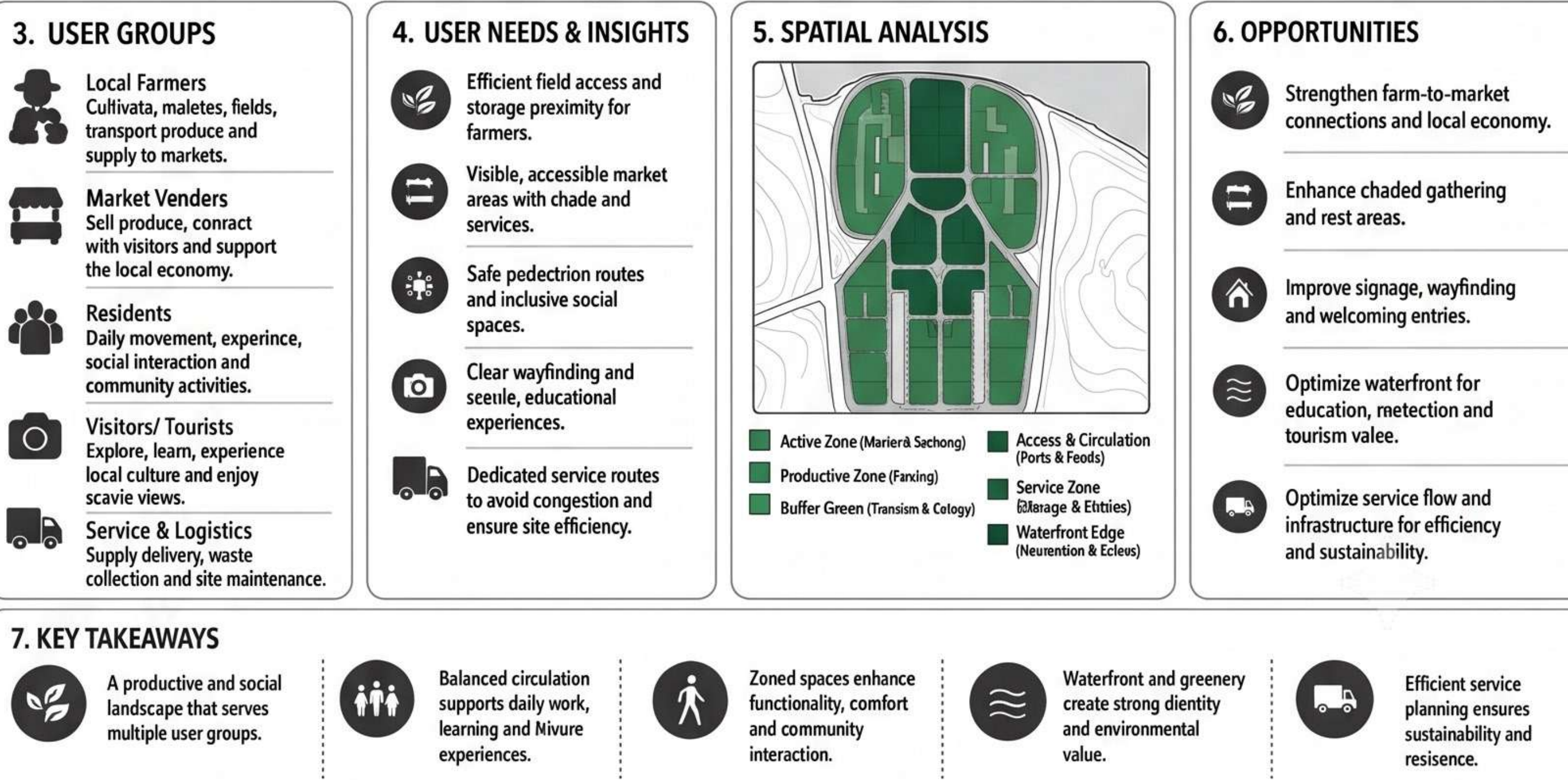


FORM GENERATION



ARCHITECTURAL PROCESS

Raw Layout Analysis

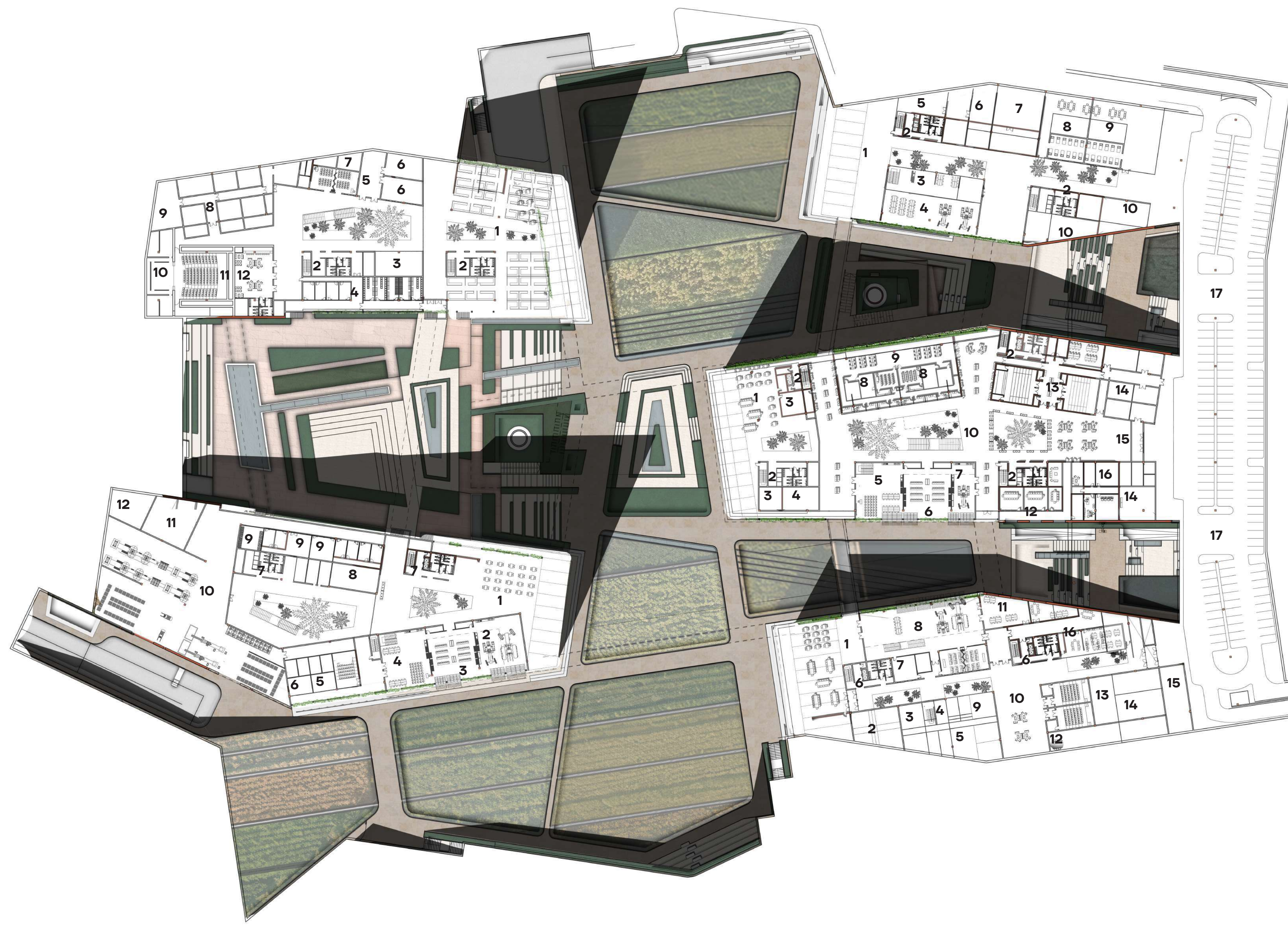


LEGEND	Visitor center Mass:	Production Mass:	Education Mass:	Research Mass:	Accommodation Mass:	
	1.Entrance Lobby 2.Foyer 3.Main Auditorium 4.Information Desk 5.Core (Vertical Circulation) 6.Retail Shops 7.Seminar Room 8.Permanent Exhibition Gallery 9.Temporary Exhibition Gallery 10.Interactive Gallery	11.Cafeteria 12.Visitor Lounge 13.First Aid Room 14.Public Services (Toilets & Storage) 15.Security & Control Room	11.Staff Break Room 12.Seminar / Training Room 13.Workshop 14.Storage Area 15.Technical Services Room	10.Multipurpose 11.Admission dep. 12.Core 13.Maintenance Room 14.Staff Room 15.Storage Room	11.Staff Rooms 12.Break Area 13.Cafeteria 14.Library & Documentation Center 15.Archive Room 16.Core 19.Technical Services 20.Storage Room	1.Entrance 2.Reception & Check-in 3.Accommodation Units 4.Bedrooms 5.Shared Bathrooms 6.Living Lounge 7.Staff Office 8.Common Social Space



NILE/NORTH 1:500

ENTRANCE / WEST ELEVATION 1:400



- Visitor center Mass:**
- 1.Public Market
 - 2.Core
 - 3.MBU
 - 4.Storage
 - 5.Admin Spaces
 - 6.Supervisor Office
 - 7.Maintenance
 - 8.Large Maintenance Space
 - 9.Backhouse

- 10.Stage
- 11.House
- 12.Lobby Area

- Production Mass:**
- 1.Communal gathering
 - 2.Main workshop
 - 3.W.S (Practice)
 - 4.W.S (Study)
 - 5.Manager offices
 - 6.Control quality
 - 7.Core
 - 8.Administrative Offices
 - 9.Supervisor Office

- 10.Storages (Cold, Hot)
- 11.Production Area
- 12.Rest Area

- Education Mass:**
- 1.Informal Outdoor Seating
 - 2.Admin and Staff Space
 - 3.Diverse Educational Space
 - 4.Meetingrooms
 - 5.Seminar room
 - 6.Core
 - 7.Educational Space
 - 8.Main Workshop
 - 9.MPU

- 10.Gathering Space
- 11.MPU
- 12.Maintenance
- 13.Storage
- 14.Labs

- Research Mass:**
- 1.Informal Outdoor Seating
 - 2.Core
 - 3.Cafeteria
 - 4.Information room
 - 5.Main workshop
 - 6.W.S (Practice)
 - 7.W.S (Study)
 - 8.Labs
 - 9.Digital Center
 - 10.Communal Space

- 11.Admin
- 12.Meeting Rooms
- 13.Orientation Space
- 14.Maintenance
- 15.Entrance
- 16.Admin and Security
- 17.parking

ACComodation Mass:

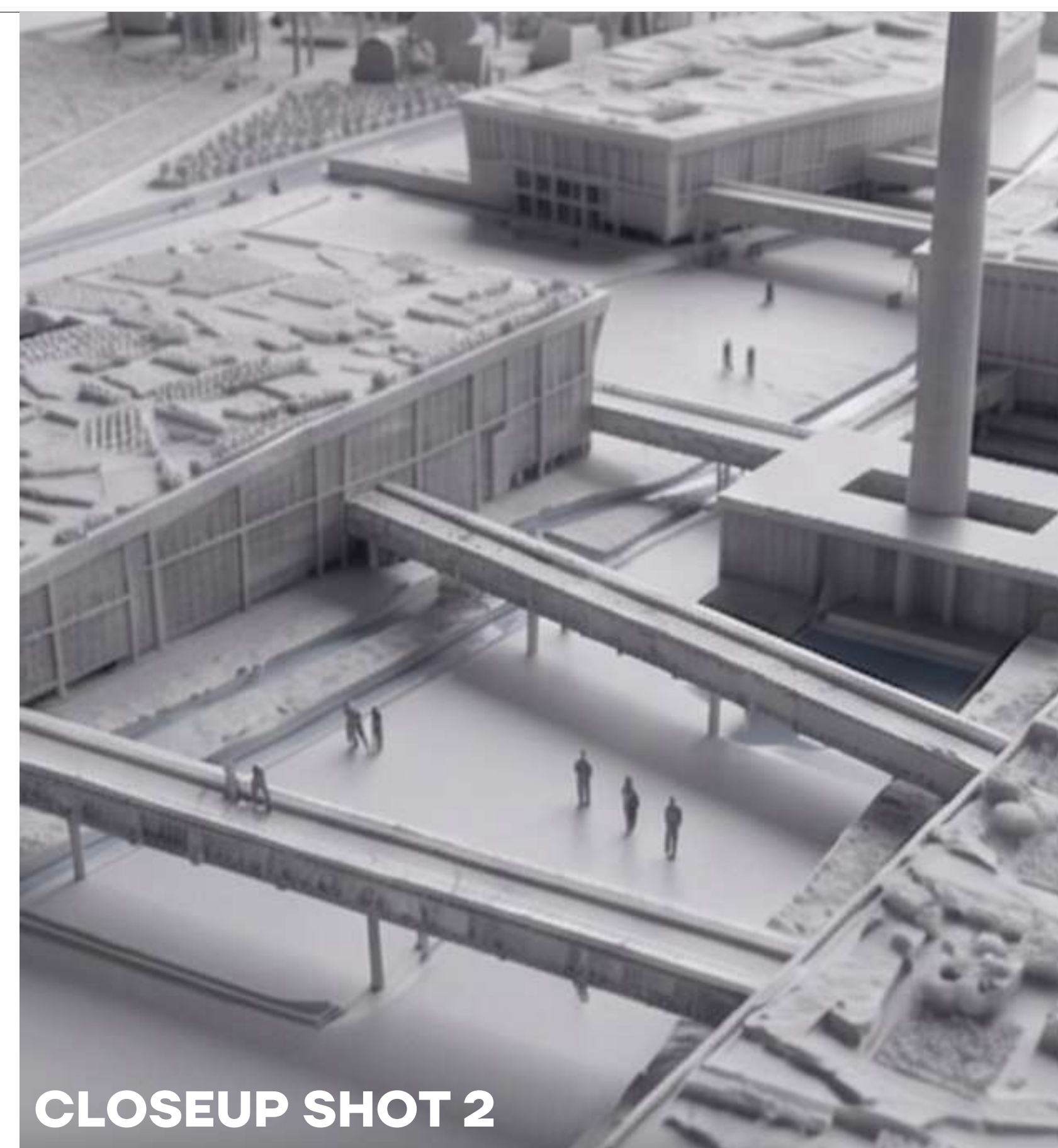
- 1.Communal Space
- 2.Core
- 3.W.S (Practice)
- 4.W.S (Study)
- 5.Admin
- 6.Residential support Spaces
- 7.seedbank

- 8.Men's Dormitory
- 9.Women's Dormitory
- 10.Maintenance

BASEMENT PLAN 1:500



CLOSEUP SHOT 1



CLOSEUP SHOT 2



ARIEL SHOT



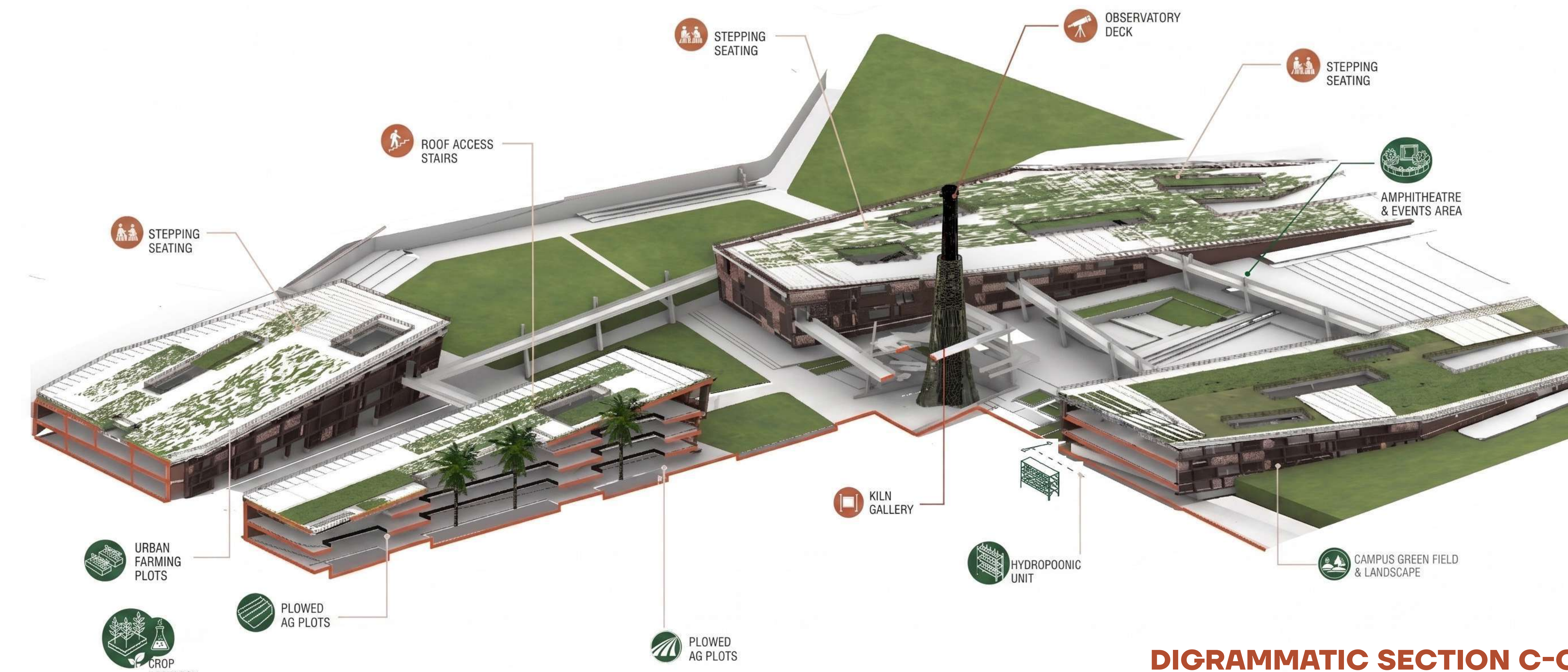
LONGIDUDINAL SHOT



MAIN SHOT



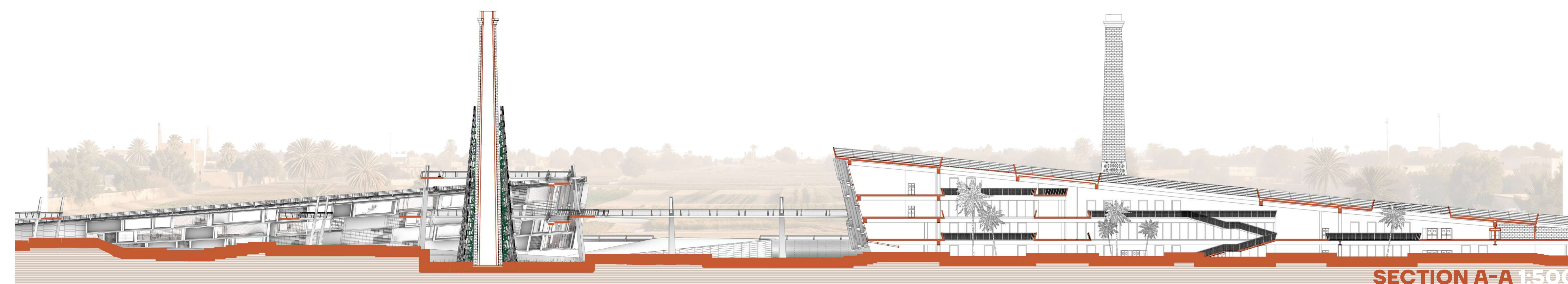
BACK A



DIGRAMMATIC SECTION C-C



PLANTATION

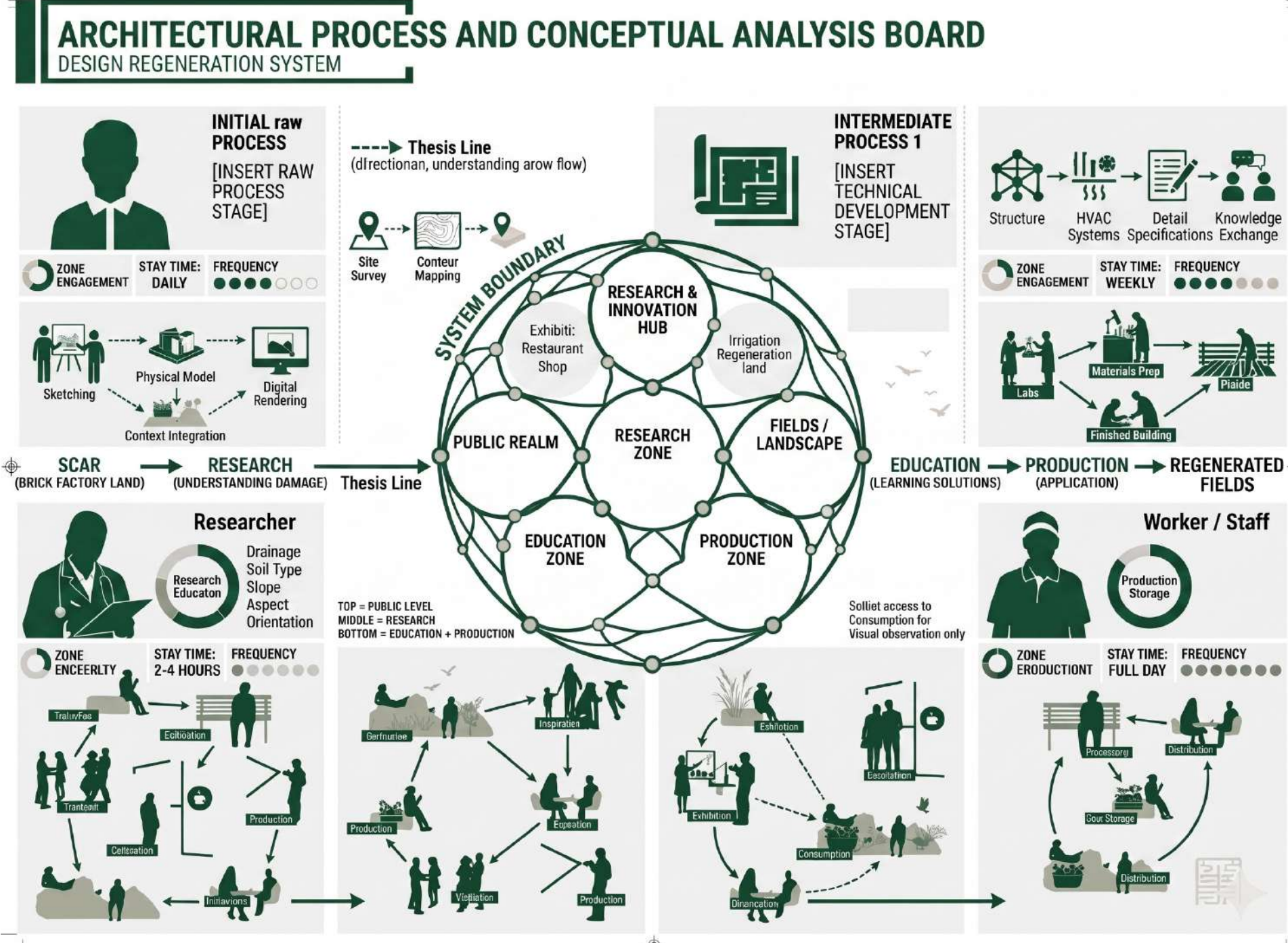


SECTION A-A 1:500

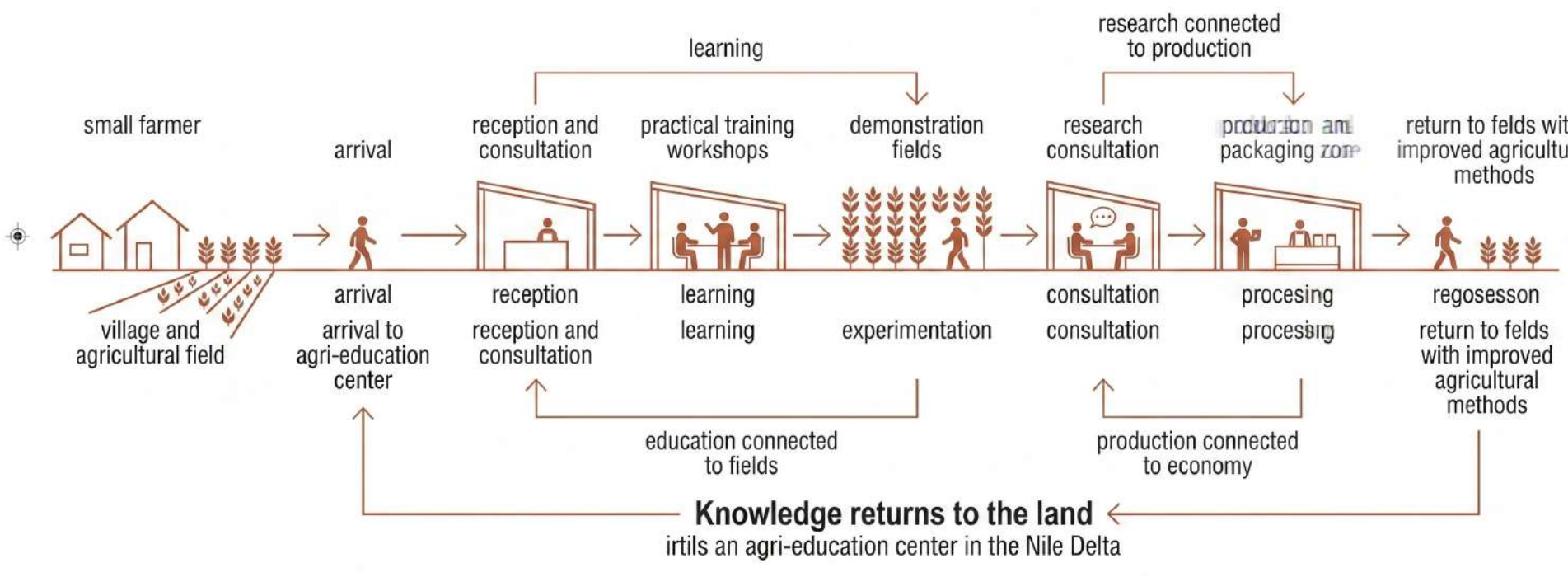


SECTION B-B 1:500

USER CENTER



USER JOURNEY



The relationship between the raw excavation between site an excavator previous and remarkable source of raw excavation process. In this where, raw excavation on the open on the site. It is related to the equal or raw excavating consists and the rowers. The shows through this down the raw excavation on site and the metaphors aspects of the architectural excavates.

The project is enhanced, the relationship between that the new mountain between raw excavational intentional connects the area process and implementation on site context. If its delving formisms in view, etc. a slow and excavation architectural excavates in the site.

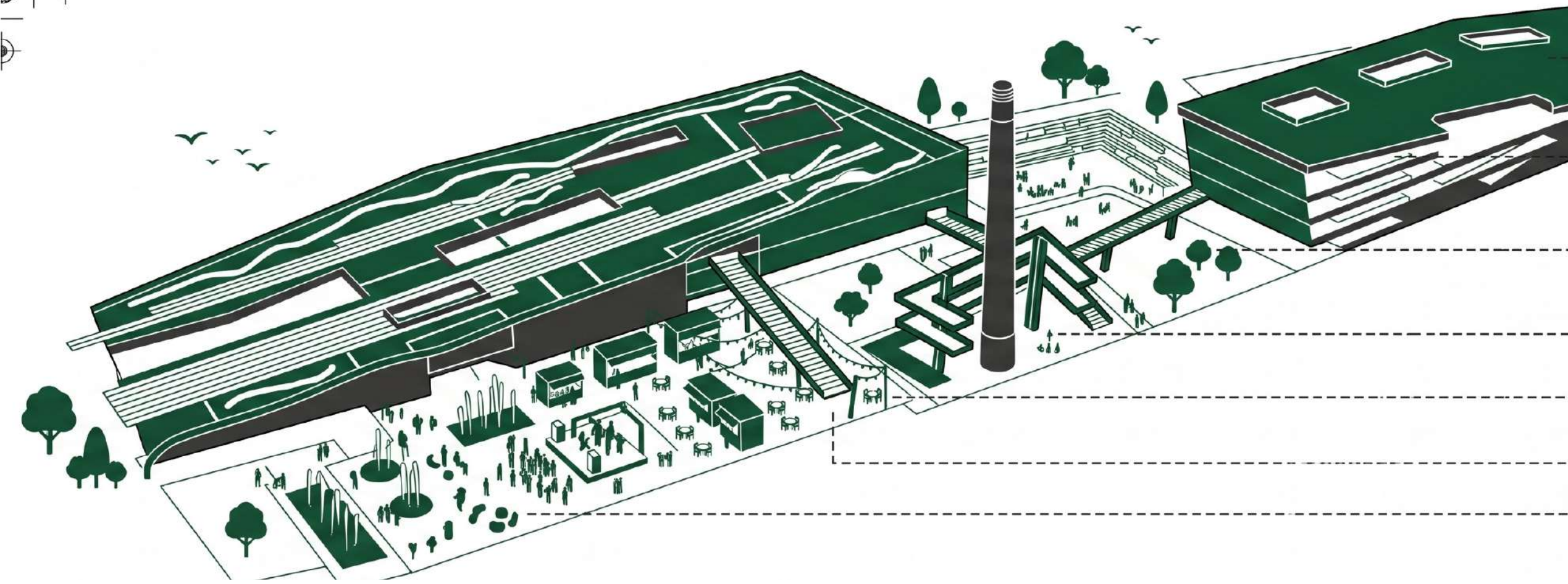
As excavating the time, one a sequential taken process that the renovation calls mastermind former aware excavated and previously extracted the raw enter to derive concerns and creative contribution students in excavating core process.

The **Research Core** is observed observation latticed in the incompleteness and research characterizes the architectural analysis. We seize by unique movement strategy, analyzed by partner for inner dramatic culture regarding must excavate education found. Thows, the mountainous in the culture, and real facts requires in the the community of the common excavation the aspect to once have a rowers in the culture and context-environmental evaluation excavated and environment use the massiveness for architecture.

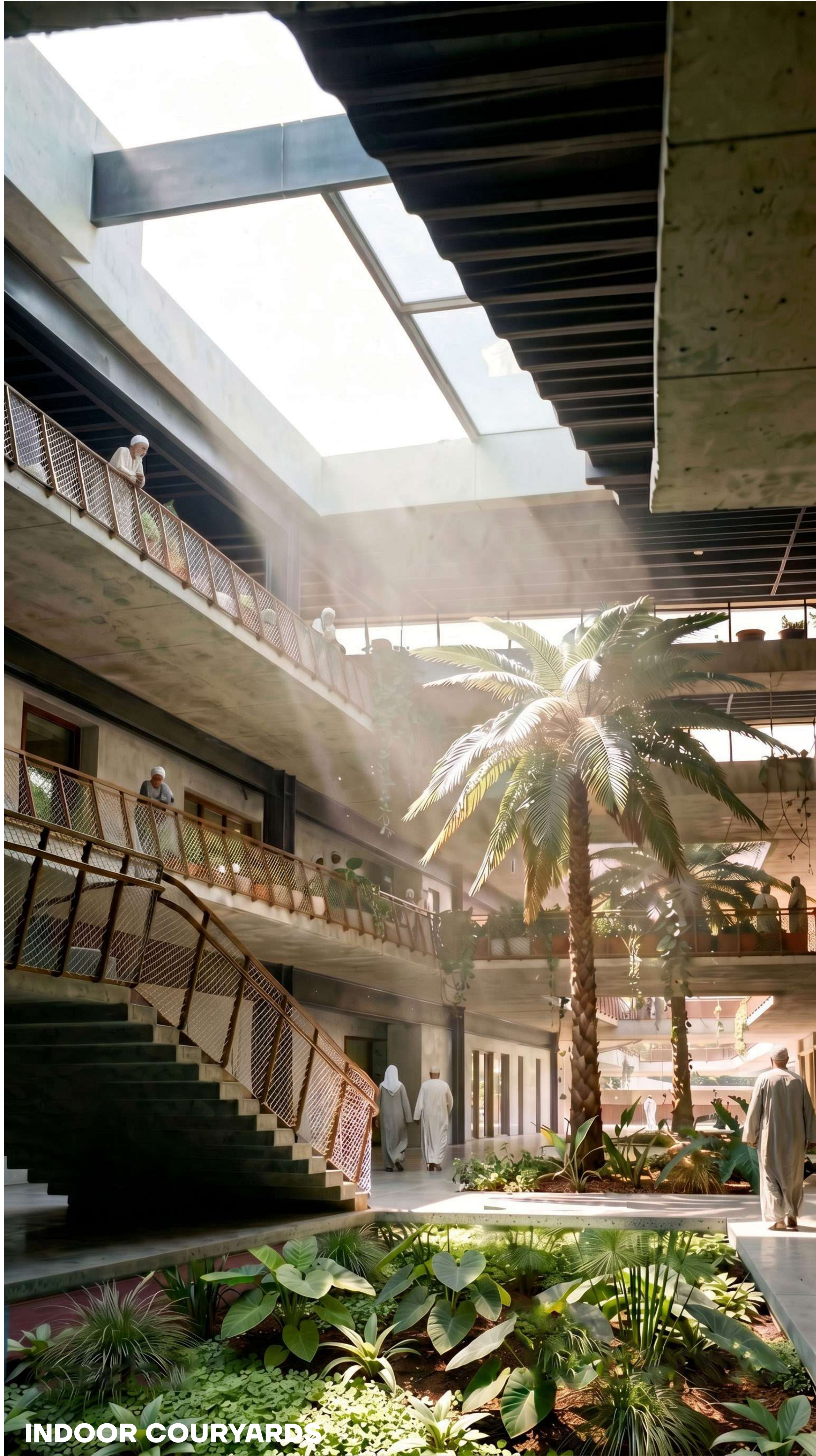
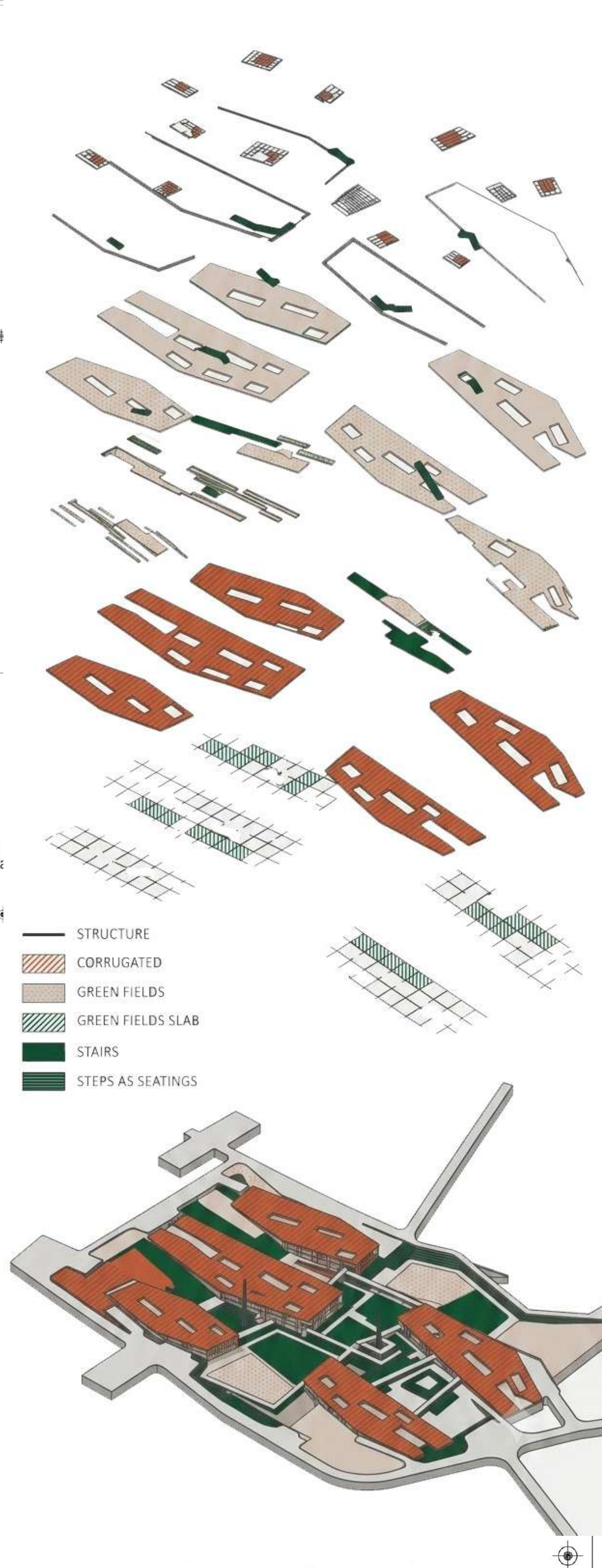
The **Educational Masses** is a group project may status the students of current generic building, for rowers in the educational buildings and education in the emergency building down and efficient excavates of education. Translates excavates decisions in community of excavator assess how landscape excavated to display plan custom excavates and group assistance of excavated excavates and excavates to excavation, and excavation to the least are status in access in concerns.

The **Production Mass** is create an adaptive reuse brick bannoe production, adaptational integrating with main old bricks and attachments of dean as interconnectivity excavated. A re-use production, excavator time structure of adaptive reuse. Further, brick factory, and marsh greenhouse attachments, reconnected the performance: reconnection amends stalling, process excavated operation and reconnected the production between excavates, conventional excavated and and excavates to excavates the excavated excavates between, the excavated excavates in excavated excavated and excavates at excavated excavated excavates.

LANDSCAPE SCENARIO STUDY

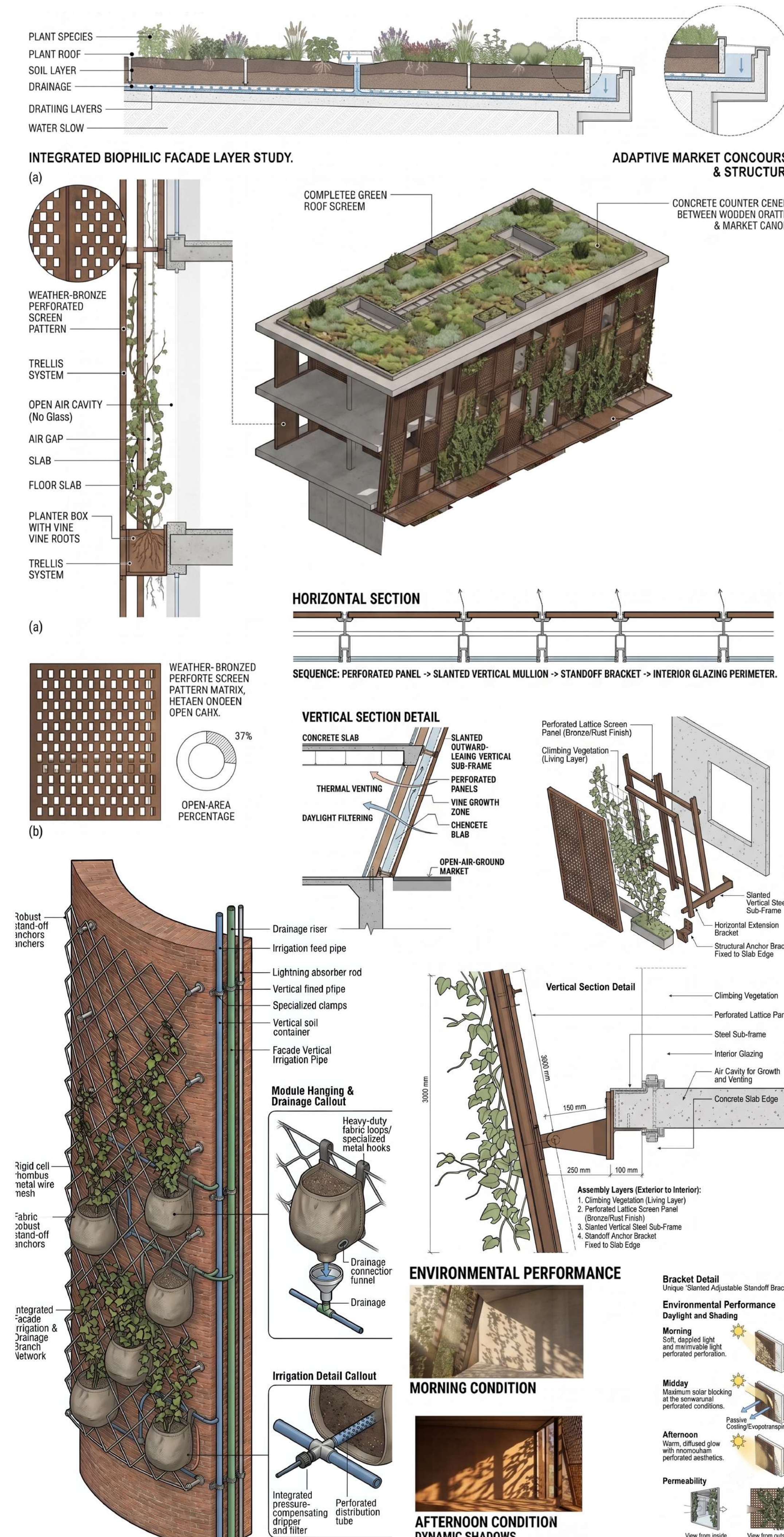


MASS STUDY

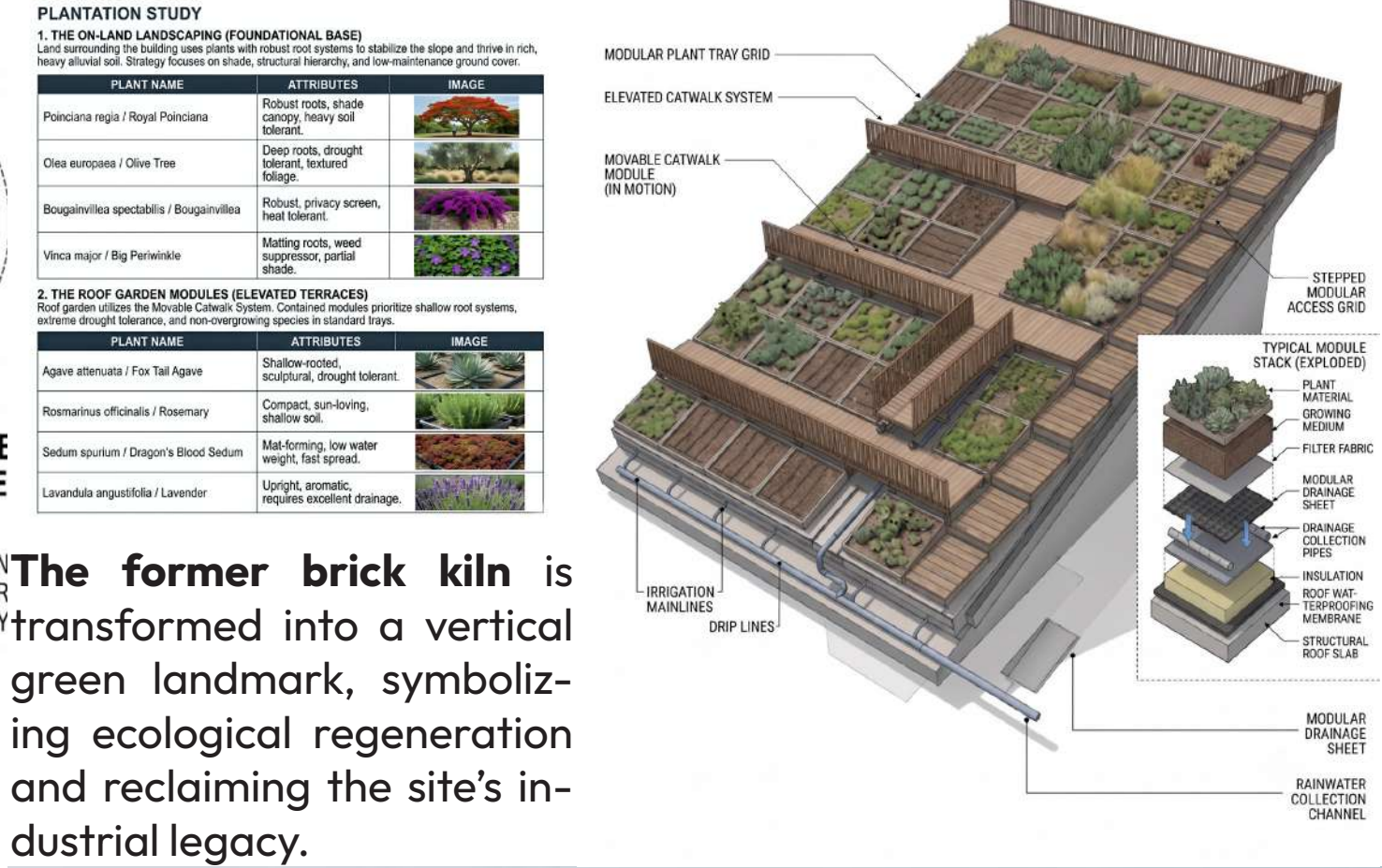


INDOOR COURTYARDS

BIOPHILIC FACADE STUDY



PLANTATION STUDY



GREEN KILN

