



Country / City Greece / Athens
University / School University of Patras, School of Architecture
Academic year 2018
Title of the project Augmented Santorini
Authors Tina Marinaki

TECHNICAL DOSSIER

Title of the project	Augmented Santorini
Authors	Tina Marinaki
Title of the course	Design Thesis
Academic year	2018
Teaching Staff	Agapi Proimou
Department/Section/Program of belonging	Department of Architecture
University/School	University of Patras



AUGMENTED SANTORINI scenario explores the case of Santorini as a destination affected by the phenomenon of over-tourism and proposes interventions to improve the island's bearing capacity.

Santorini, due to overgrowth, underwent a semantic mutation from a rural area to a cosmopolitan metropolis that functions as a continuously expanding urban space.

The current shape of the island complex of Santorini is the result of the violent volcanic activity in prehistoric times. Operating as an autonomous tourist brand and while the tourist traffic is experiencing an unprecedented increase, the island now faces "urban-like" problems such as housing shortages for workers, energy, water and traffic problems. Alongside the increase of building activity, rural land is disappearing, threatening Santorini's traditional vineyards.

Taking into account the proposal by DOCOMOMO deposited to Unesco in 1984, regarding the conservation of the island complex of Santorini as a whole, Augmented Santorini proposes the preservation of the traditional settlements, the subtraction of arbitrary housing and the reposition of crops and vineyards in their place, the installation of offshore alternative energy sources for the island's energy autonomy and the creation of a new airport, winery and an artificial rising island. The permanent building of the new airport has references to the negative architecture of Santorini's caves, with the subtraction of a volume from a mass, while the seasonally additional building is designed as a shell and a lightweight construction. Similarly, the new organization system of housing units takes its cues from the system used in the natural caldera.

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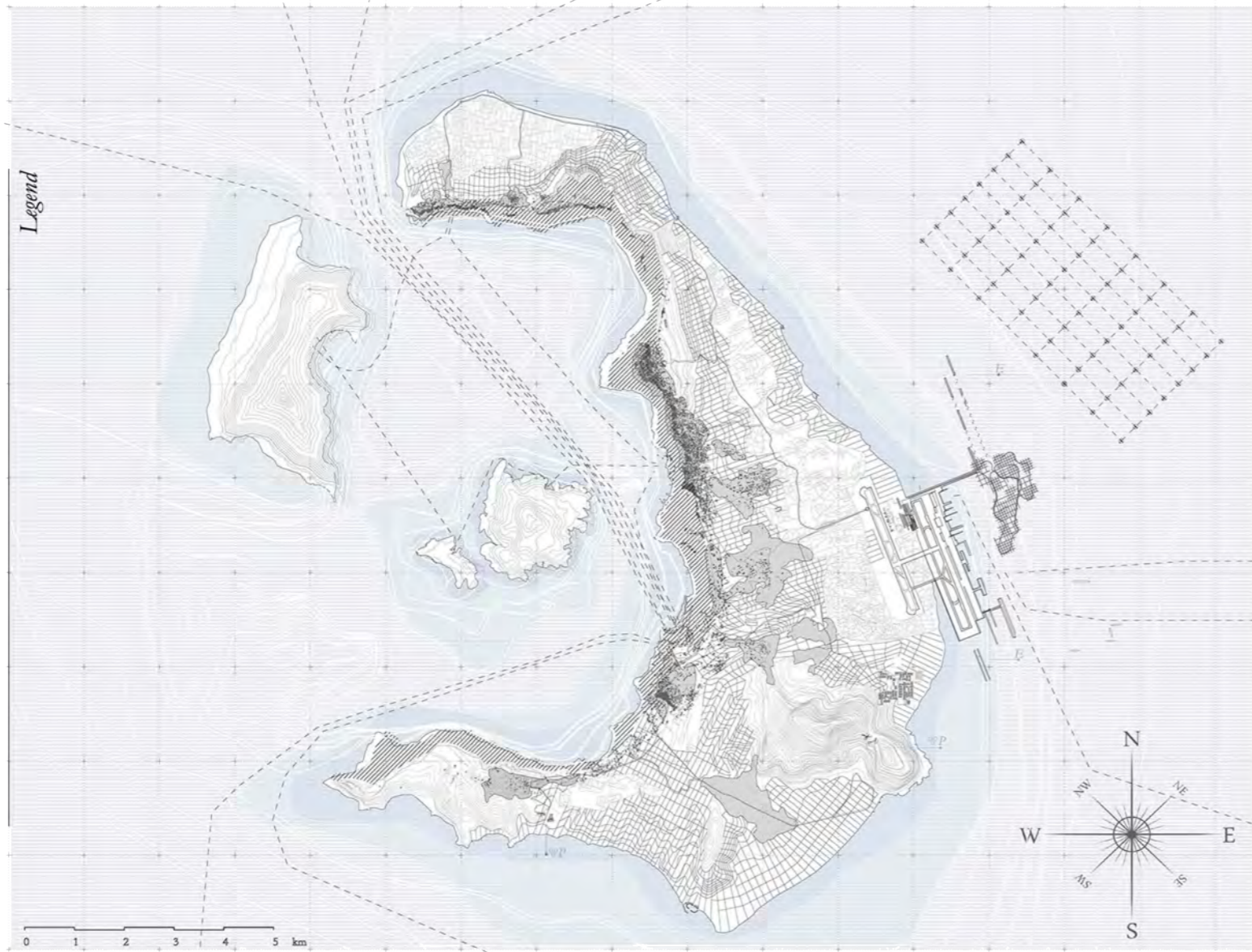
CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

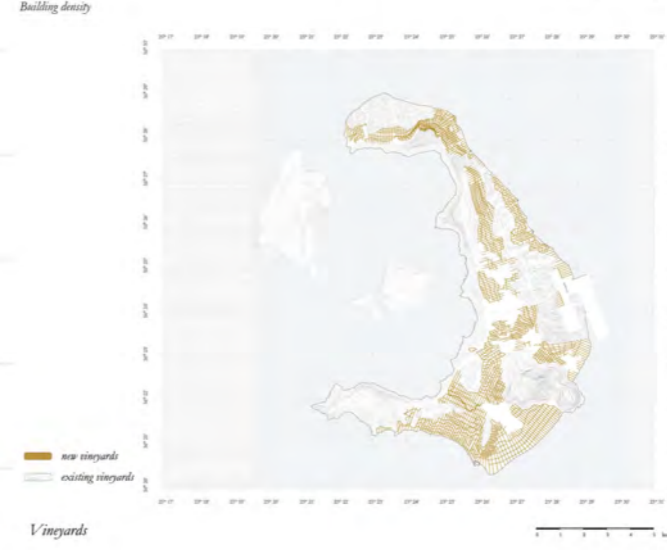
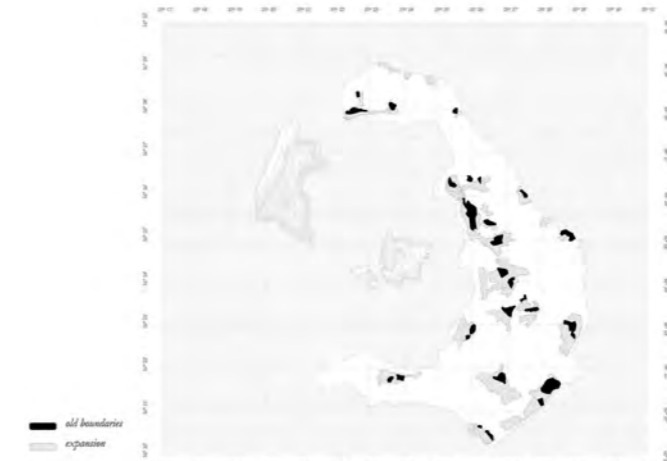
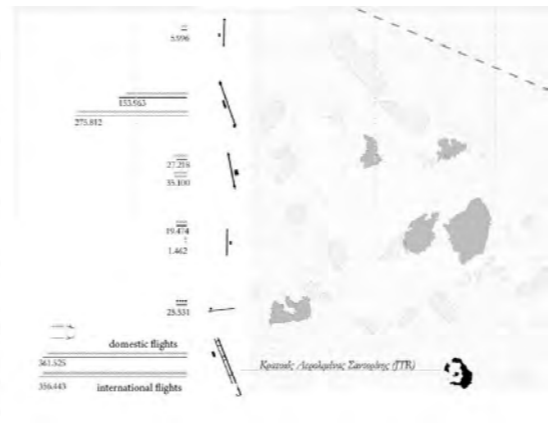
Barcelona September 2020
SCHOOL PRIZE

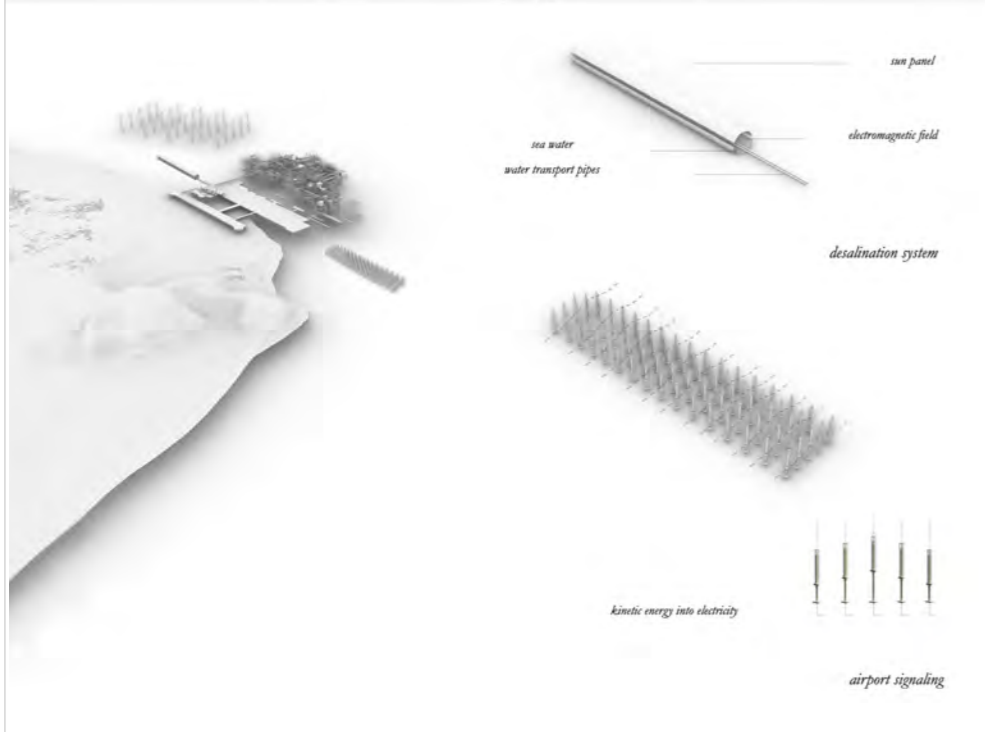


- Legend**
- airport
 - ferry connections
 - hyperloop
 - main roads
 - secondary roads
 - parking areas
 - archaeological areas
 - preserved settlements
 - administration centre
 - existing crops
 - new crops
 - alternative energy sources installations

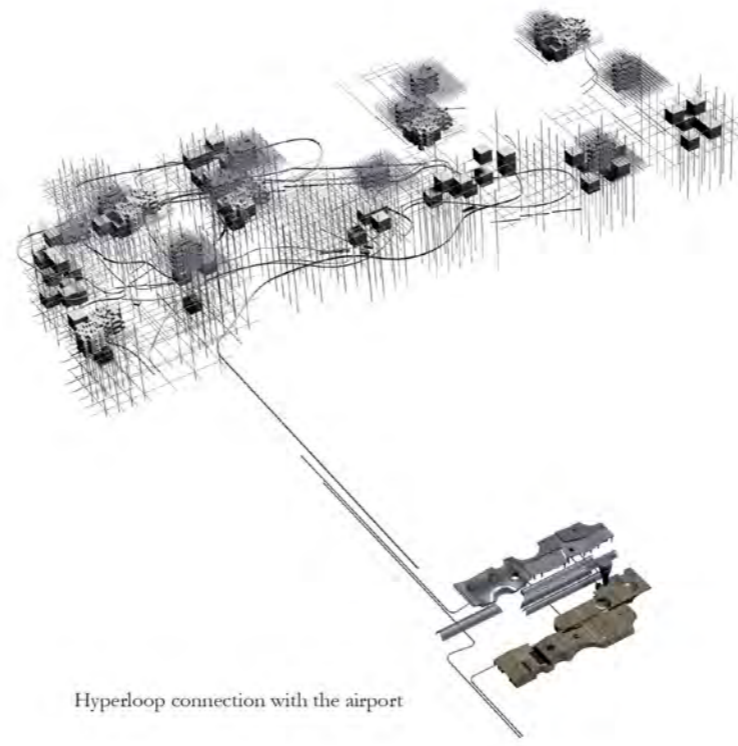
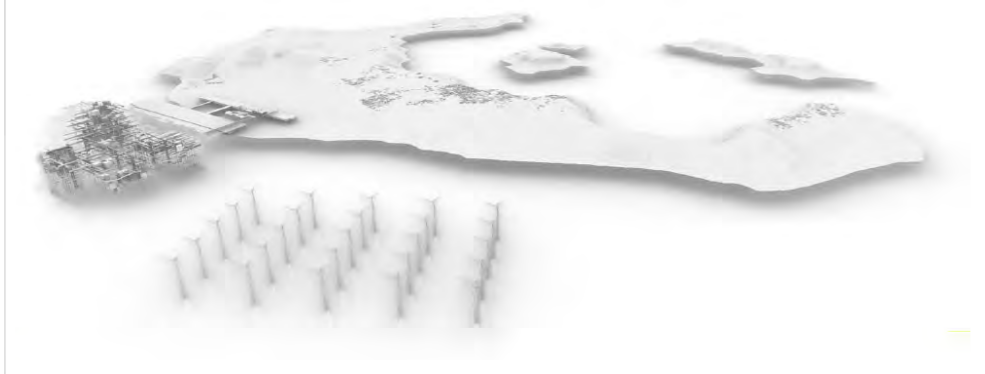


The evolution of Santorini





The installation of alternative energy sources



Hyperloop connection with the airport



construction



Units organization system



Section of typical floors



public and private space relation



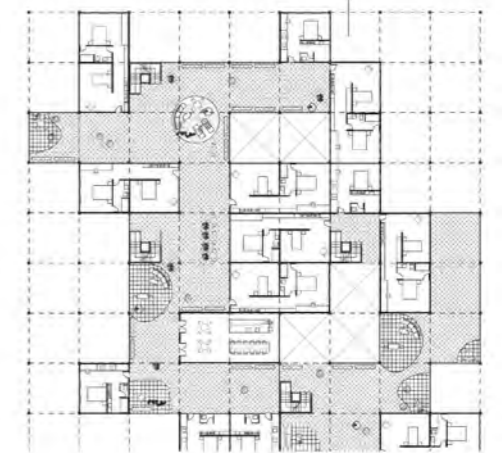
3d grid



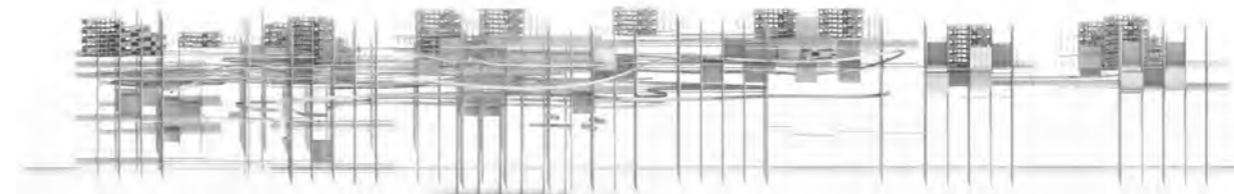
Housing units



Type A

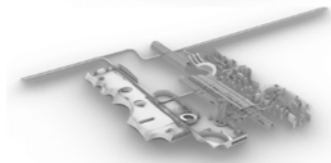
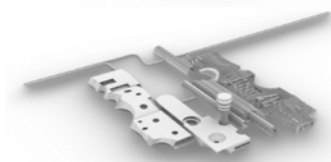
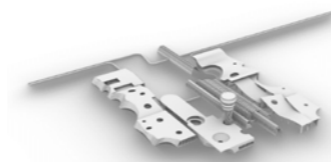
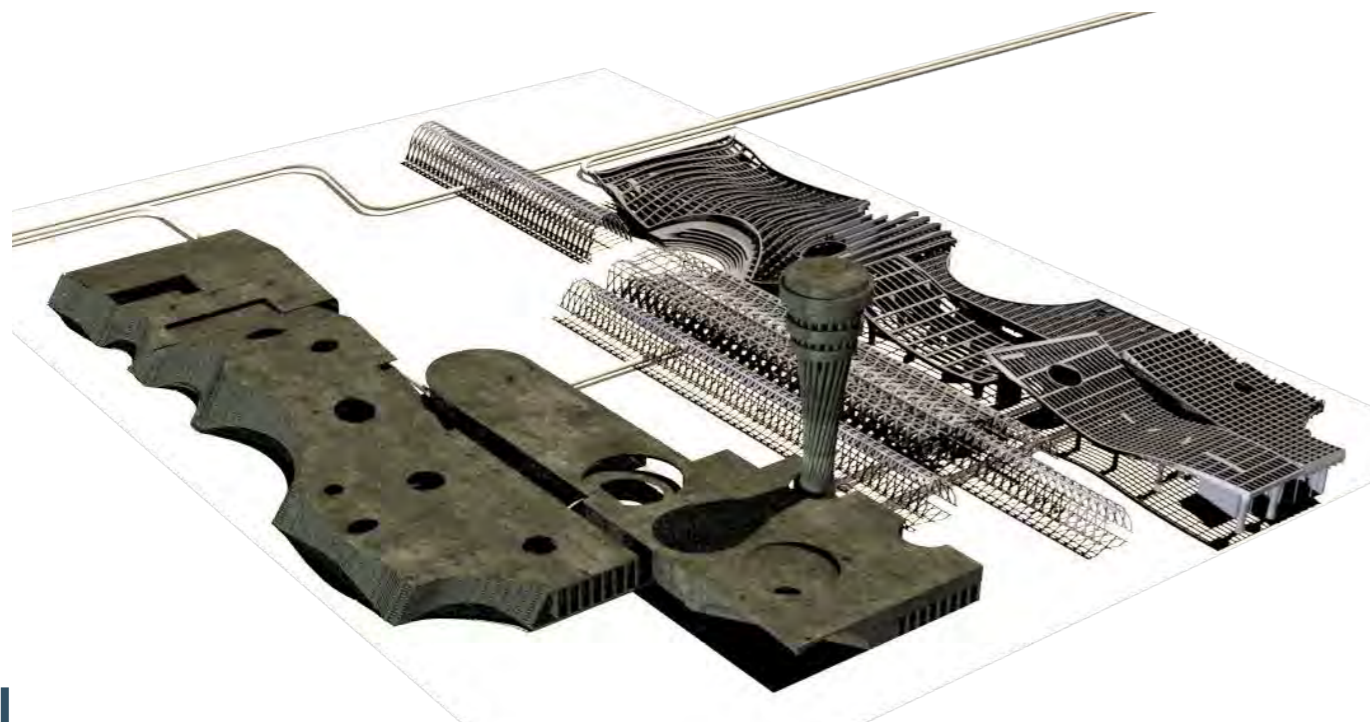
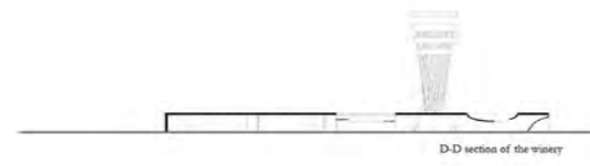
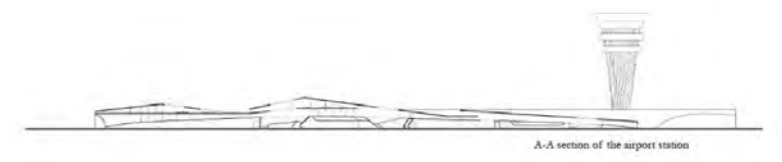
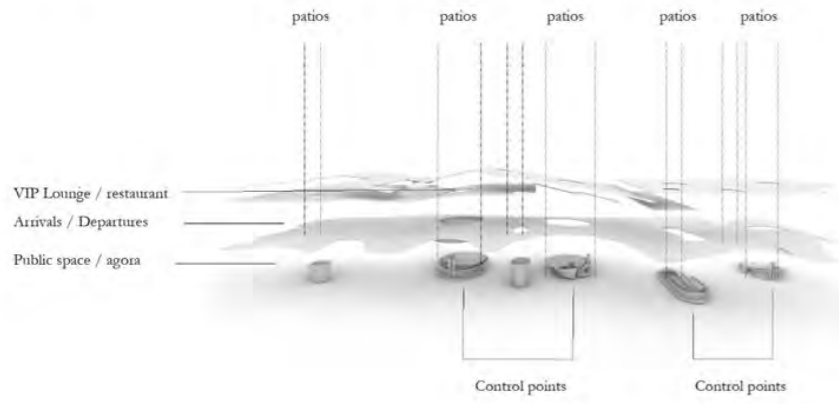
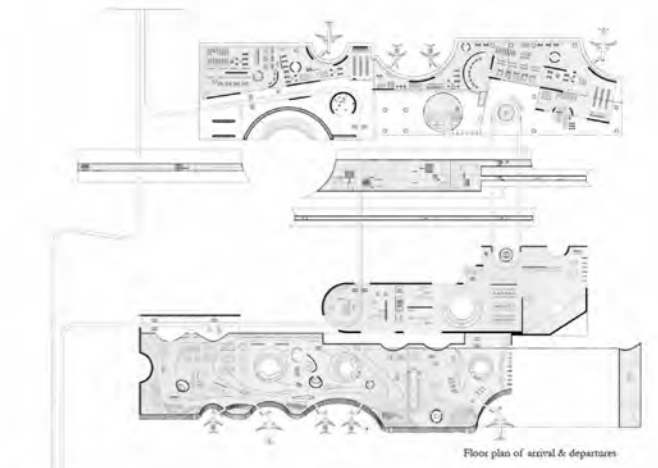
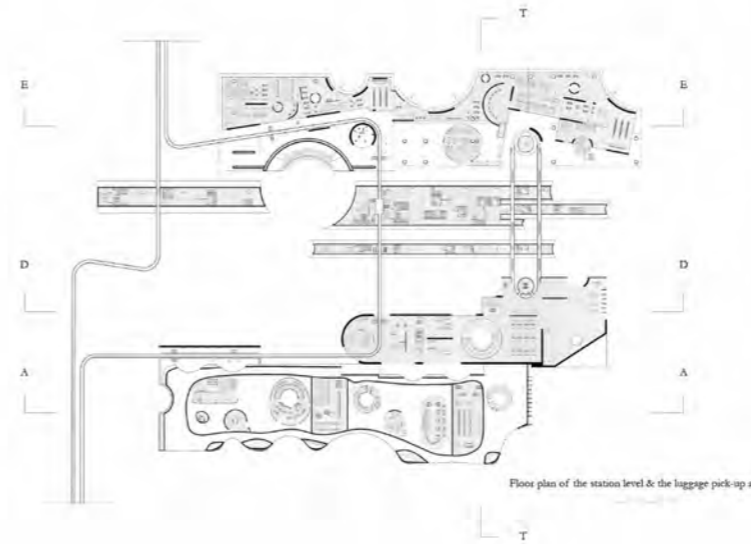
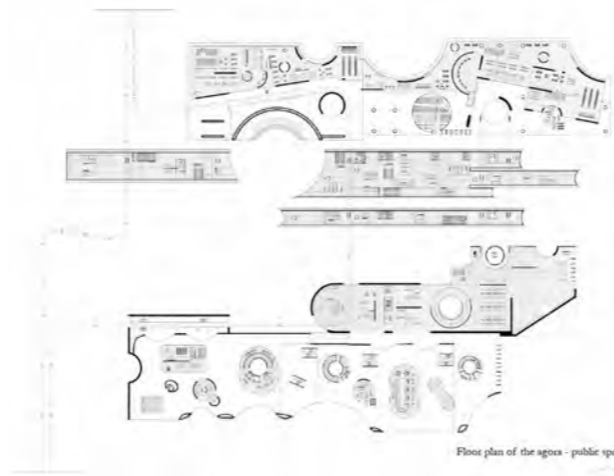
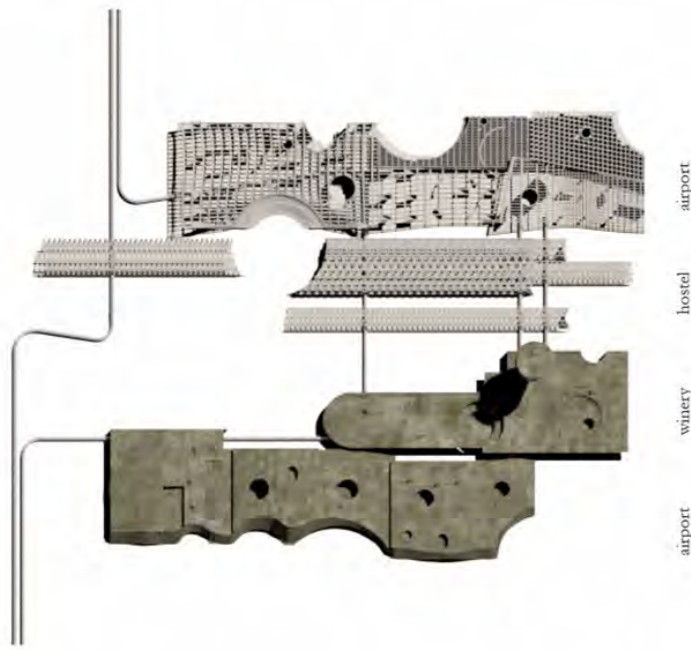


Type B



Elevation





hostel