

cities. This holistic model will have







thus create new opportu- es to businesses wishing



To assemble the con- To help businesses and Scale struction sector around builders develop and inte- To propose circular circular building and urban development projects. grate circular processes. To establish value chain projects in the Region. To identify barriers and collaborations to deliver To match circular solutions opportunities that must be circular building solutions. with building and urban addressed to accelerate To develop new circular development projects

To integrate companies construction sector. through collaboration and To offer introductory cours-



circular construction. business models for the throughout the region.

2. Innovate 3. Initiate and

major positive impacts on many

layers in the region.

nities for growth. to transition to circular

recommended to be intro-



2. Resource Recovery



3. Life Extension







5. Product as Service

models for sharing, accessibility, and ownership.



ways to develop and

grow a business while

creating savings, and

Responsible material

choices. The business

comprehensive life-cycle approach and seek to forge new productive

construction value

chain. One way to

models are based on a

improving planning,











processes to recover reusable materials from the buildings we renovate or demolish, and integrate these into new construction.

materials and flexible construction methods that value chains.

and recycle whole buildings. to work within construction

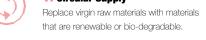
models that promote circular construction and form new

cornerstone of the circular economy. It allows resources to fit into looping material cycles, where they can be reused, reassembled, and recycled at similar or higher value. In the built environ-

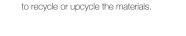
components during design phases, consideration of

the differing life-cycles of construction elements. Designing for disassembly in this way increases the possibilities for effective reuse of building components

models generate new





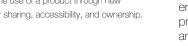














to forge robust busi-ness partnerships.

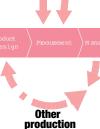




New materials and methods Establishing value chains We address systems and We develop clean building We implement business make it simpler to take apart collaborative partnerships

ment, this requires a strategic approach to building

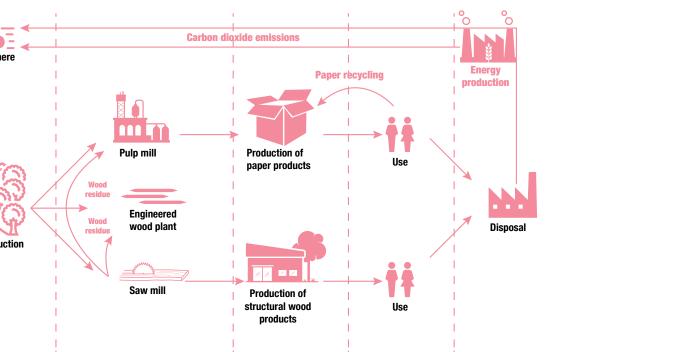
and materials, as well as the possibilities for integrating reused elements from former buildings or other industries in construction





Why CLT (Cross Laminated Timber)?

Generic Supply Chain and Related Environmental & Social Impacts

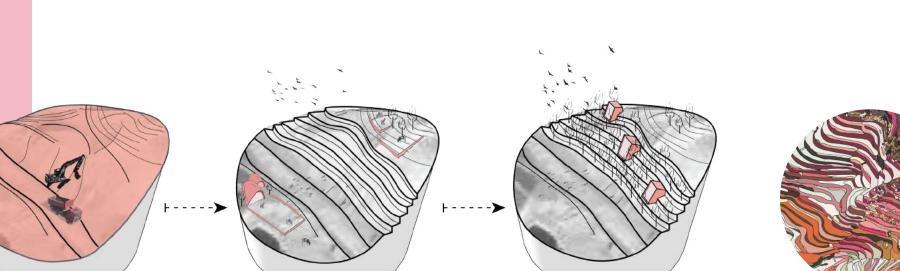


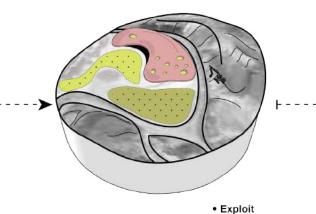
tion processes and rejuvenation of the quarry.

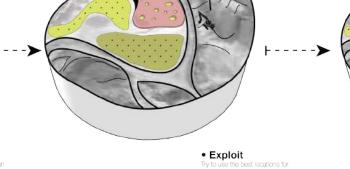
Since the scale of the site is large, there is a need to create an urban vision with guidance prototypes or a manual which could be implemented on phases in the site based on foresta-The guides are based on vernacular and local expertise in terrain correction, and addresses

all the features regarding the quarries gradual closing in time/space phases reaching to a new

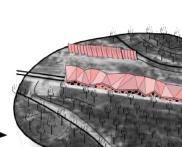
circular micro climates that are based on resilient building material production.









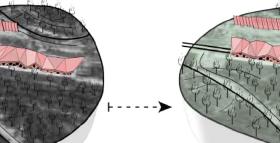


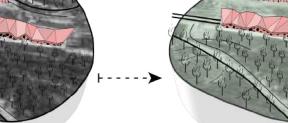
Introducing Alternative Enhancing Estate Quality Host/Nestling

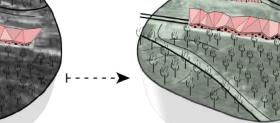
evitalizing Vernacular Agriculture

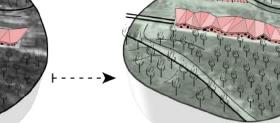
Restoring Seafront

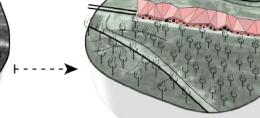
Reclaiming Land

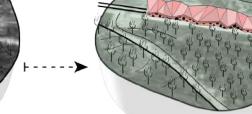




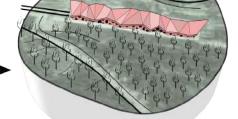


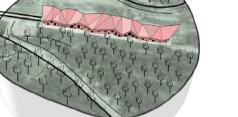


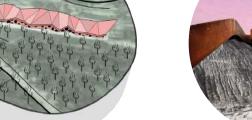
































Vernacular Architecture





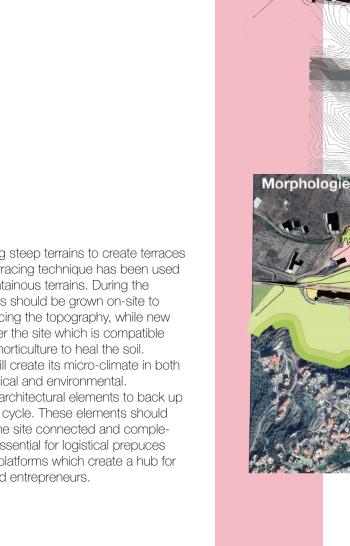




The design was derived from quantitative and qualita- and mine by sculpting steep terrains to create terraces tive research on the quarry and its surrounding, and for plantation. The terracing technique has been used the negative impact it had produced. The urgency to since history in mountainous terrains. During the close an illegal fully function quarry and cement factory that has been polluting for around 90 years.

A strategical support of the digital produced. The digital produced in the dideal produced in the digital produced in the digital produced ind A strategy is superimposed to gradually close the functions start to enter the site which is compatible factory and the mine during time/space intervals. This with agricultural and horticulture to heal the soil. procedure will ensure to absorb the shock which will In the end, the site will create its micro-climate in both affect the mining business industry and its parasites to dimensions, economical and environmental. reach a healed environment and revitalize old abandon That process needs architectural elements to back up agriculture and at the same time introduce wood as a the whole forestation cycle. These elements should new building material which would be part of a national be well arranged in the site connected and compleplan to close all building industry-related mines and mentary. Some are essential for logistical prepuces substitute it by forests. The phases start within two years during the closing startups business and entrepreneurs. process of the mine, while maintaining the production

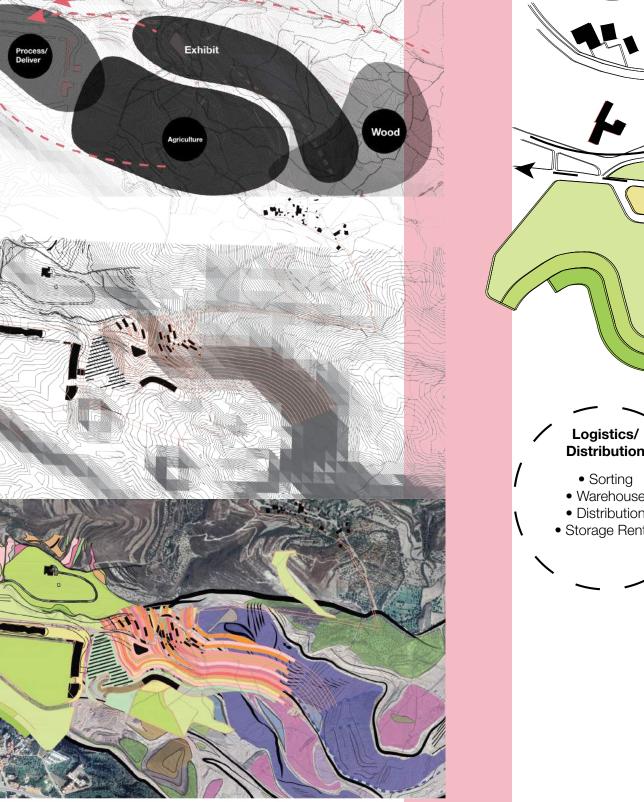
while others are just platforms which create a hub for

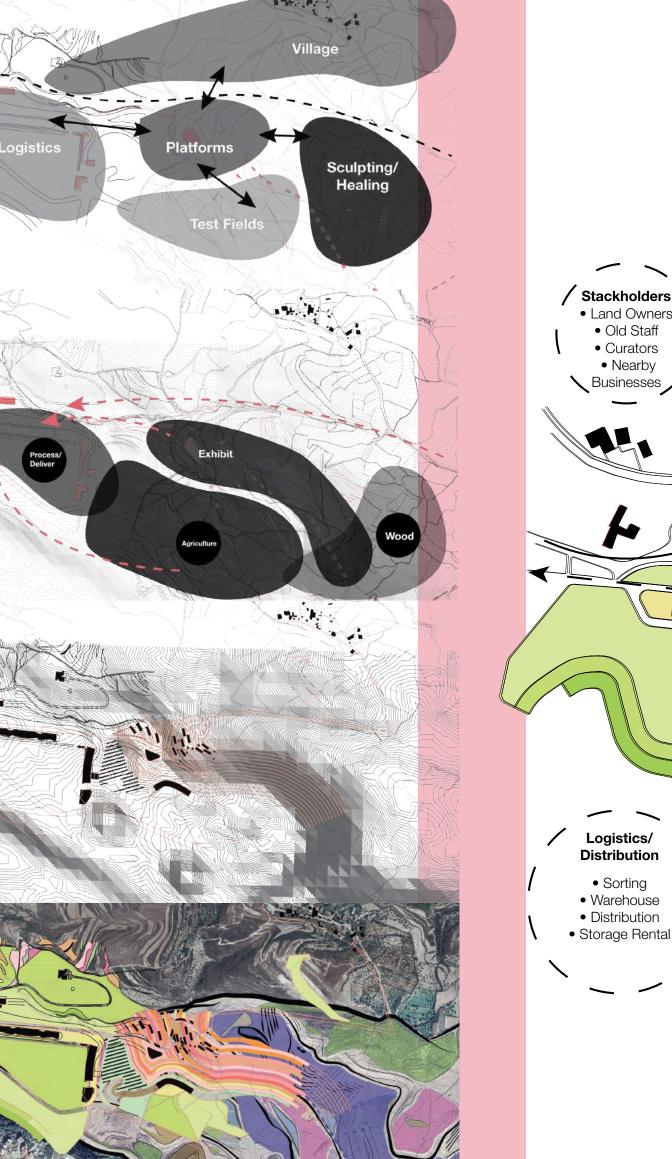




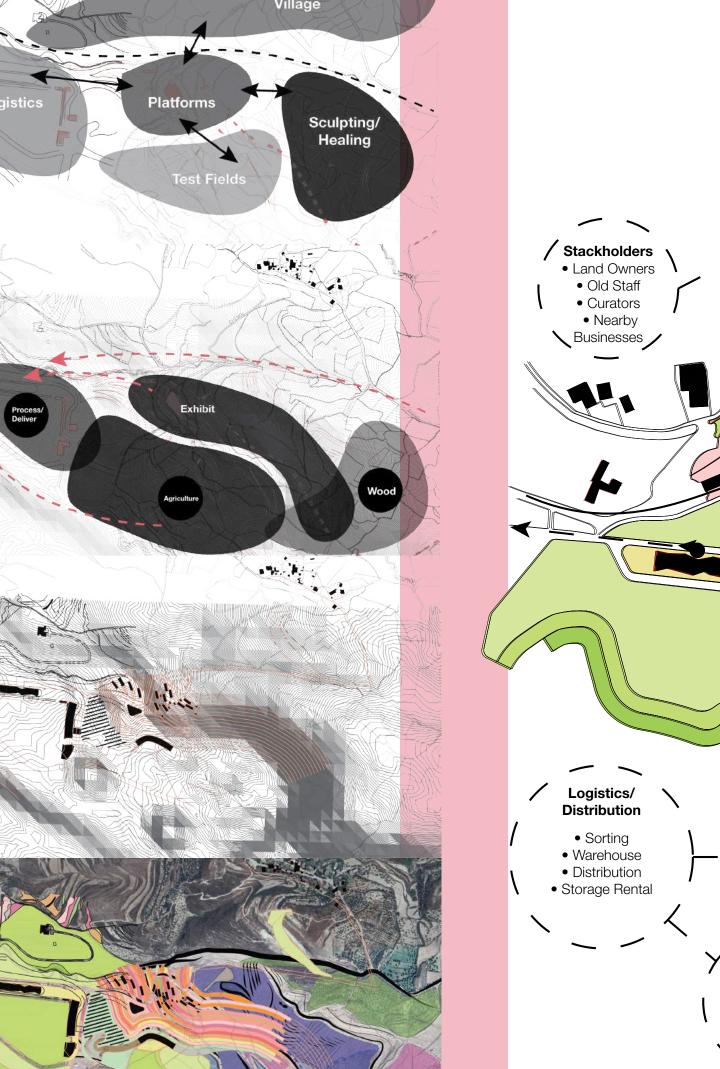


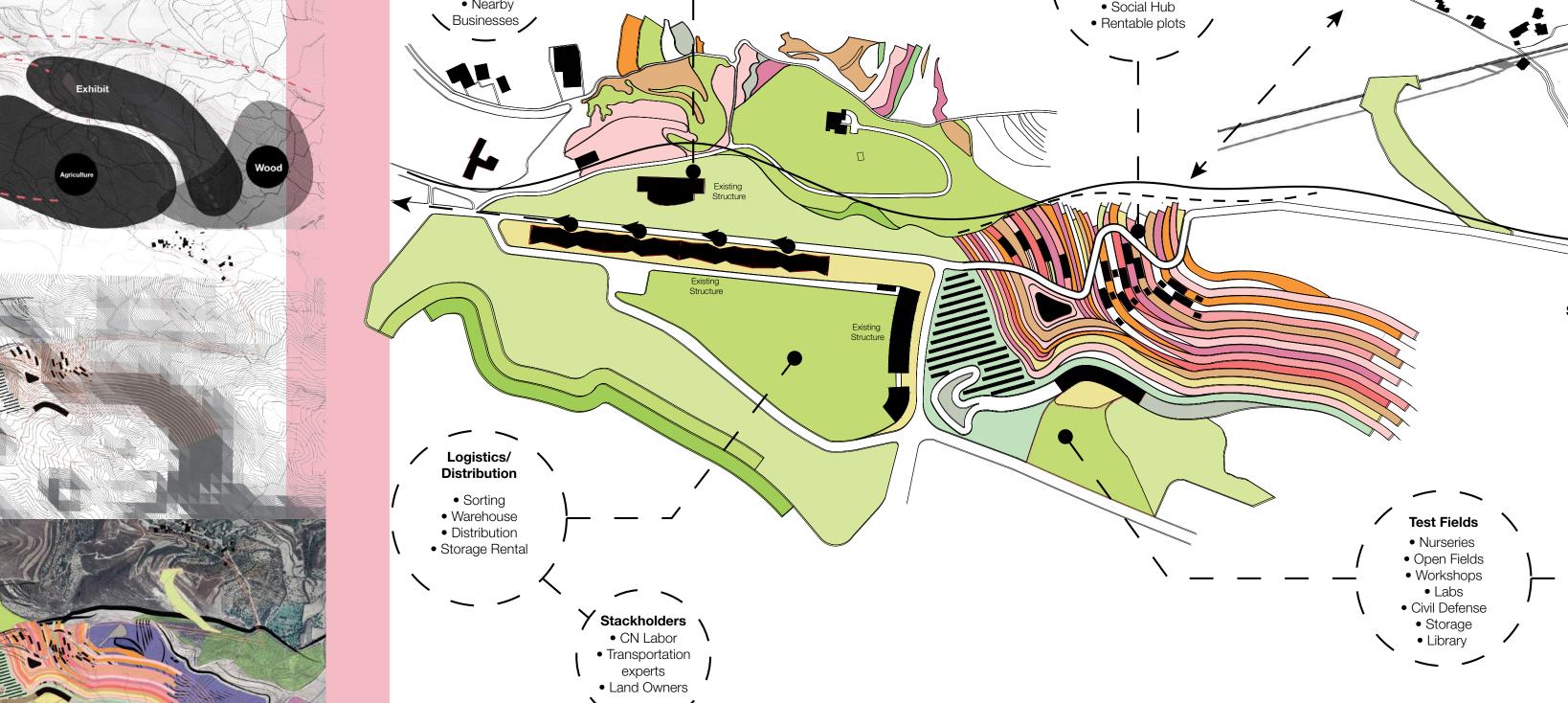


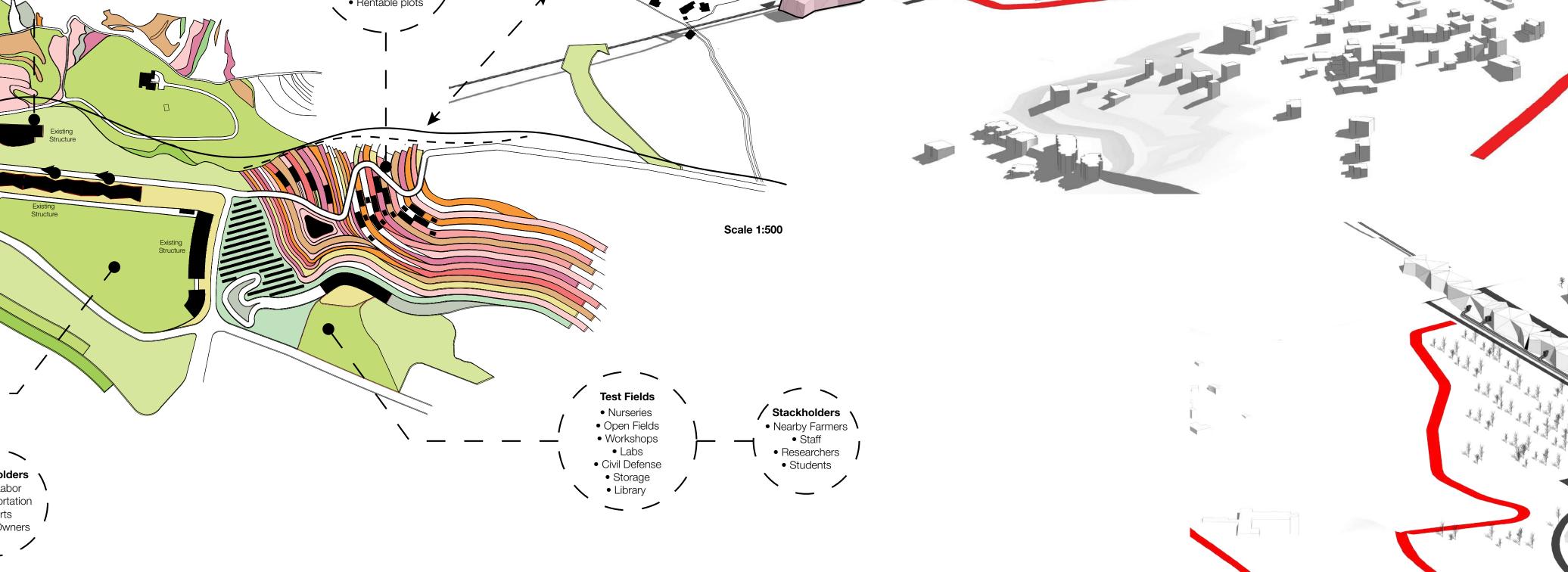






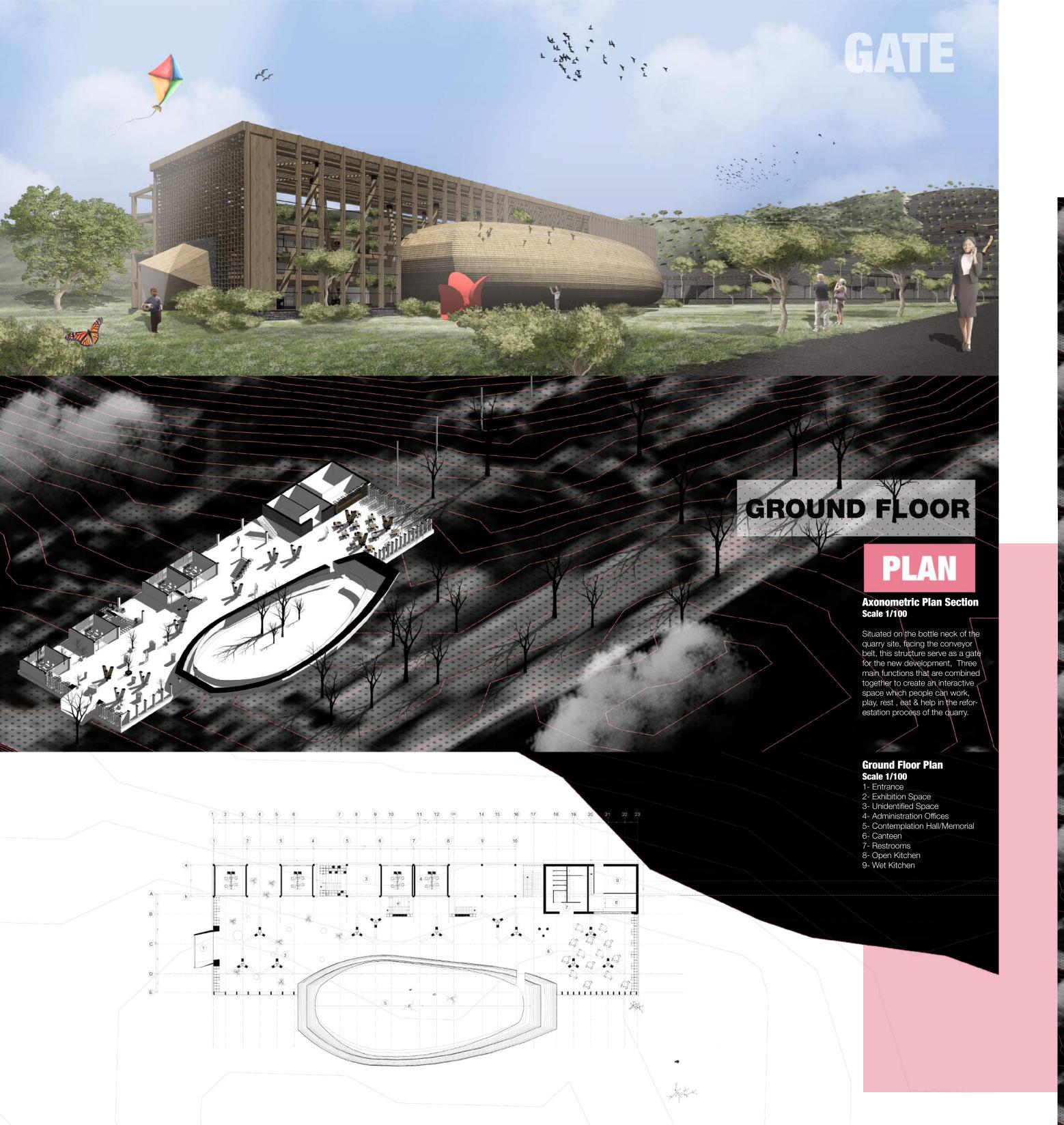




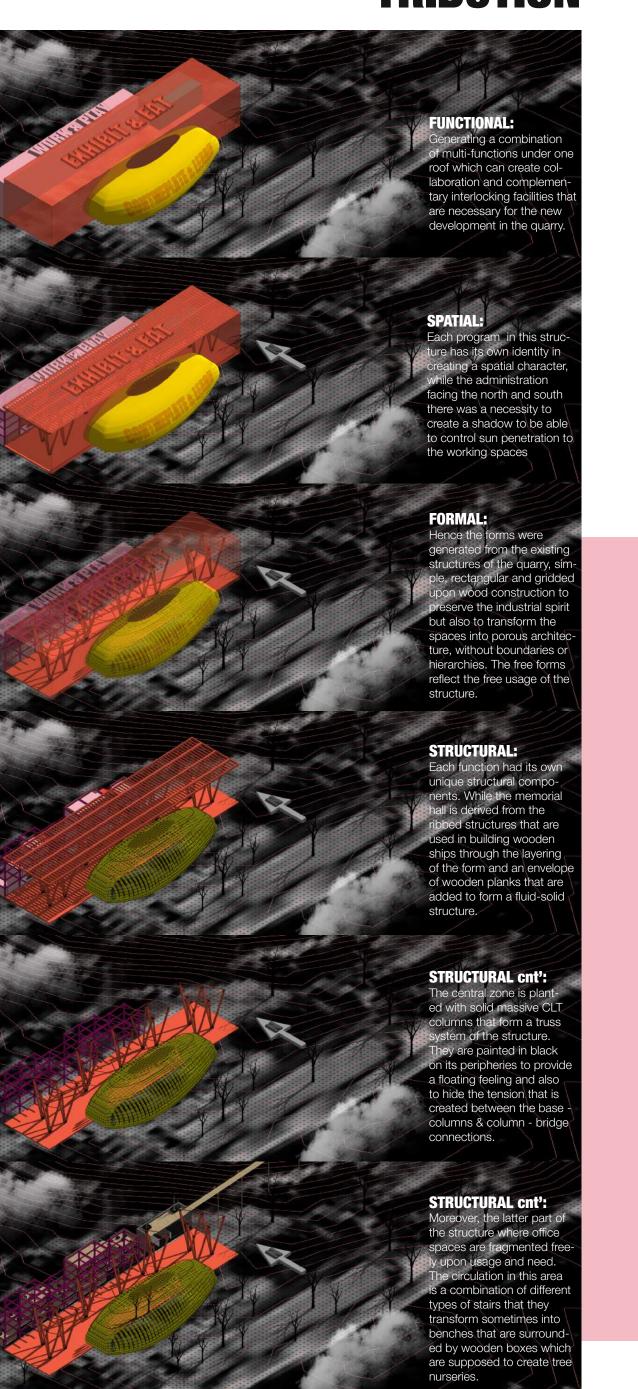


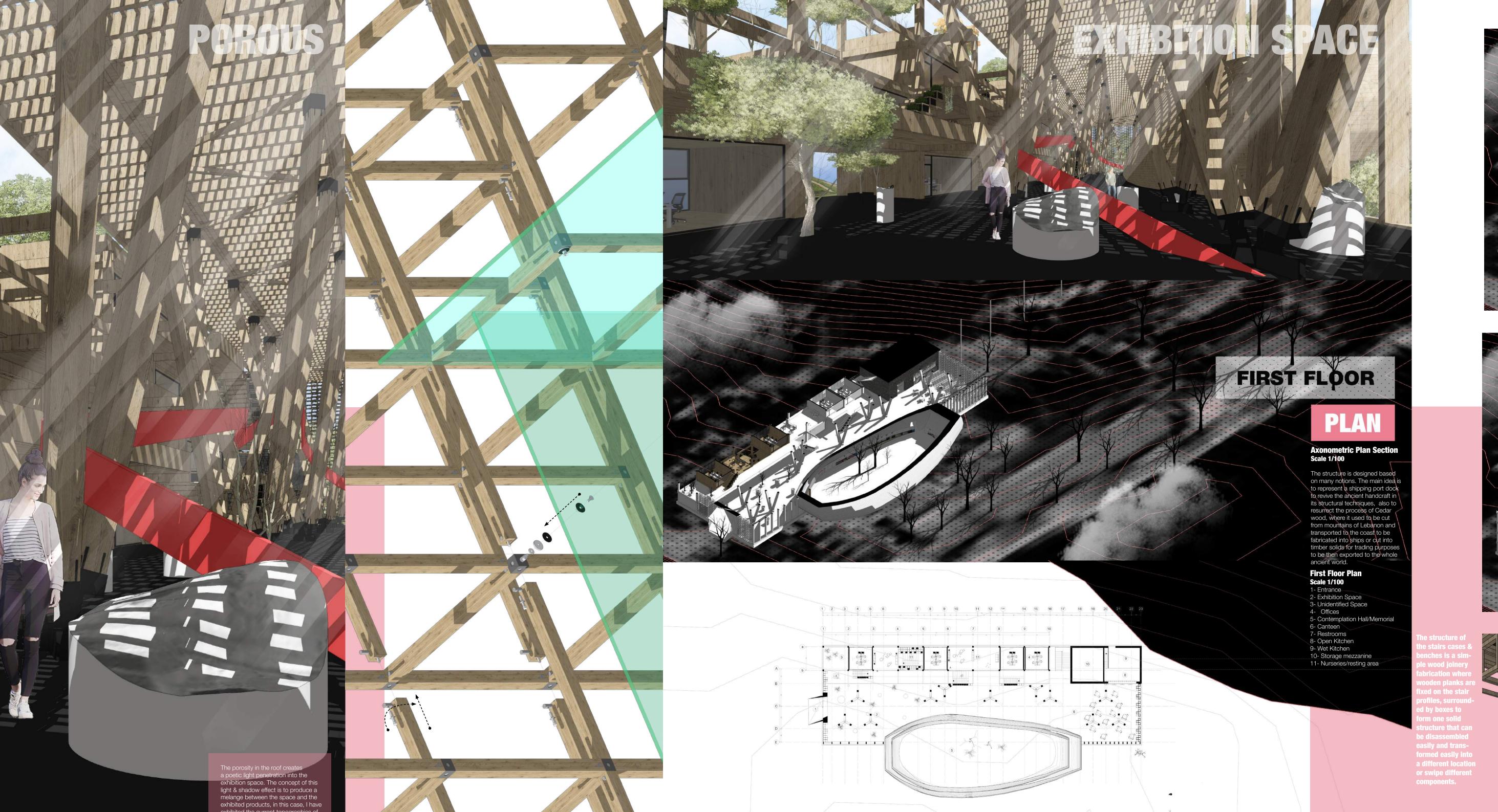
 Entrepreneurs CN Labors

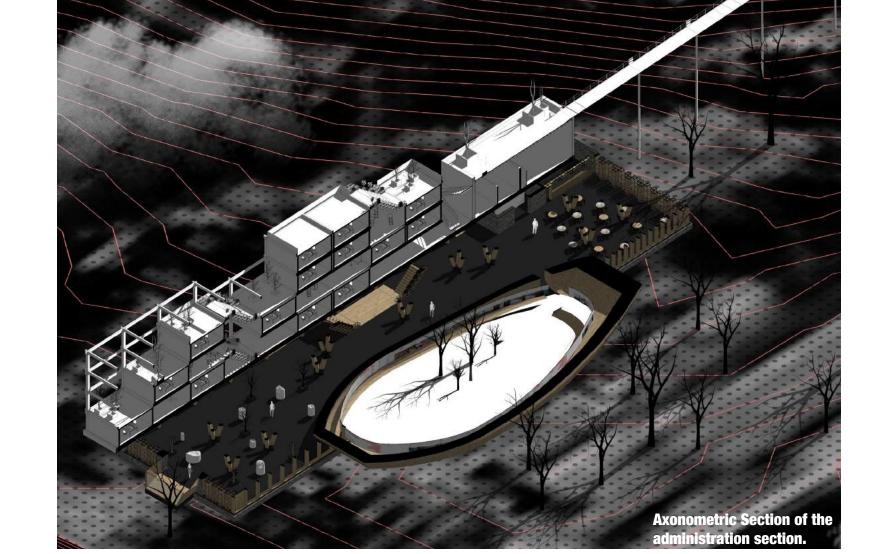




FUNCTIONAL & SPATIAL DIS-TRIBUTION



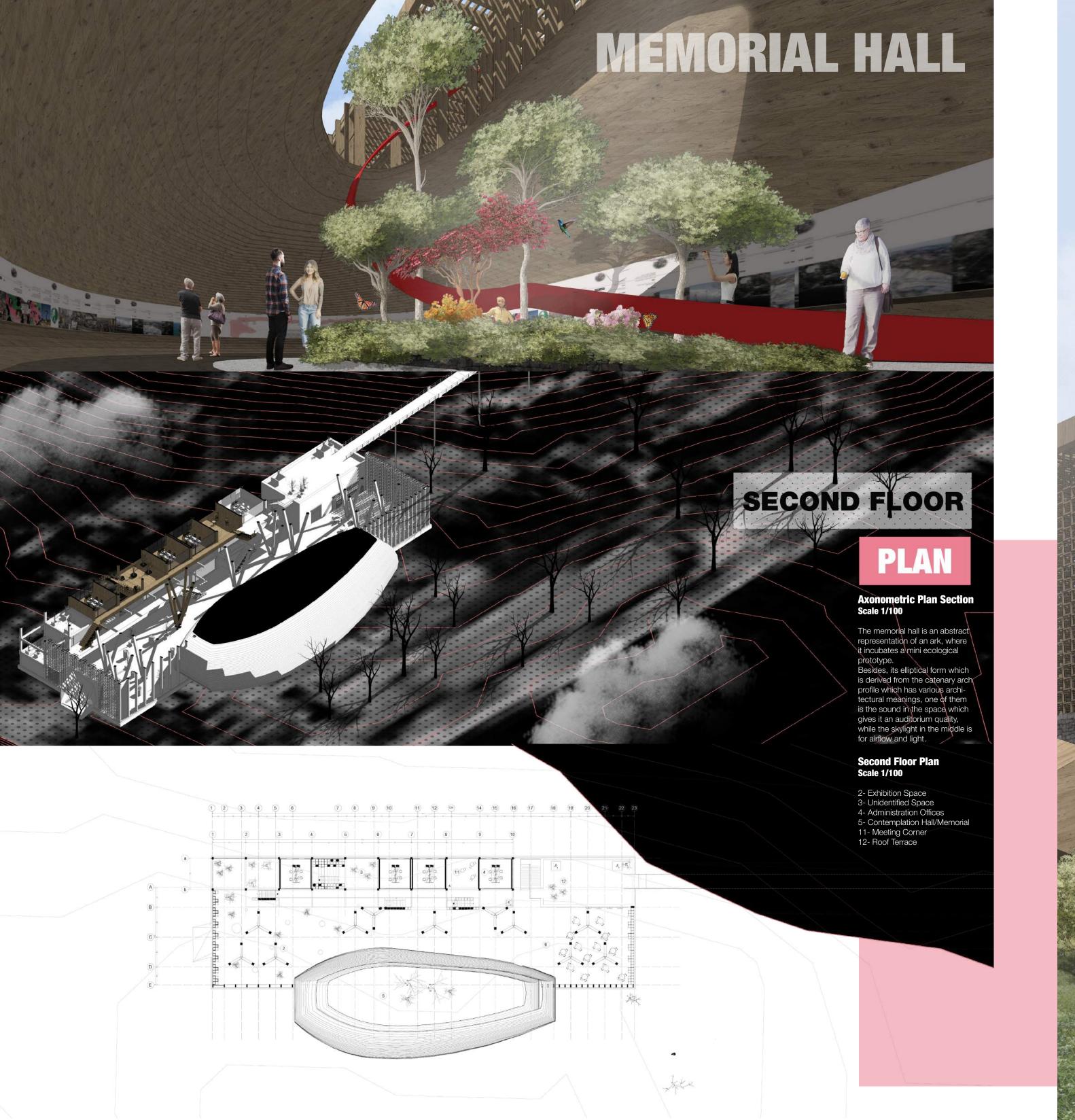




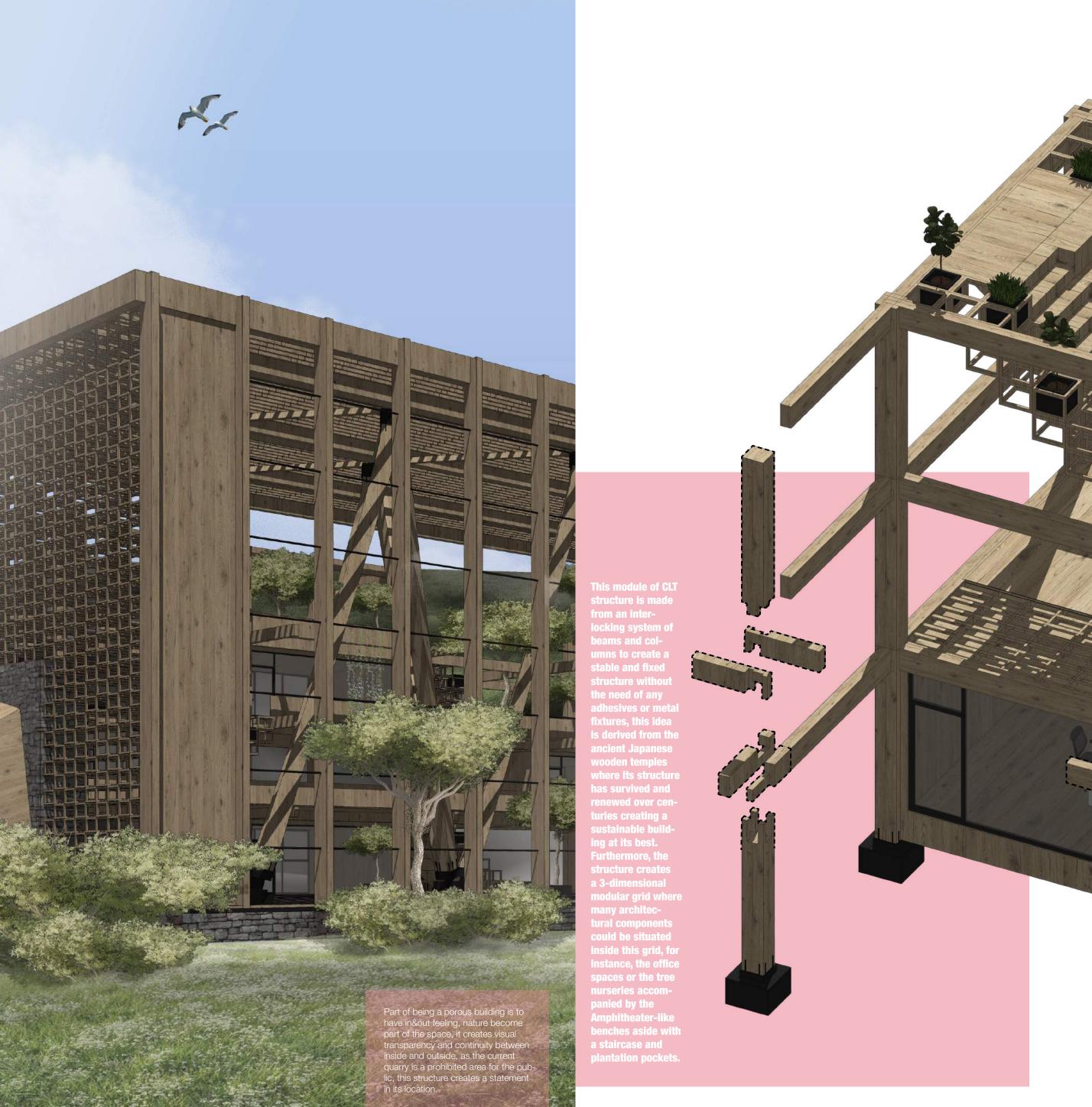


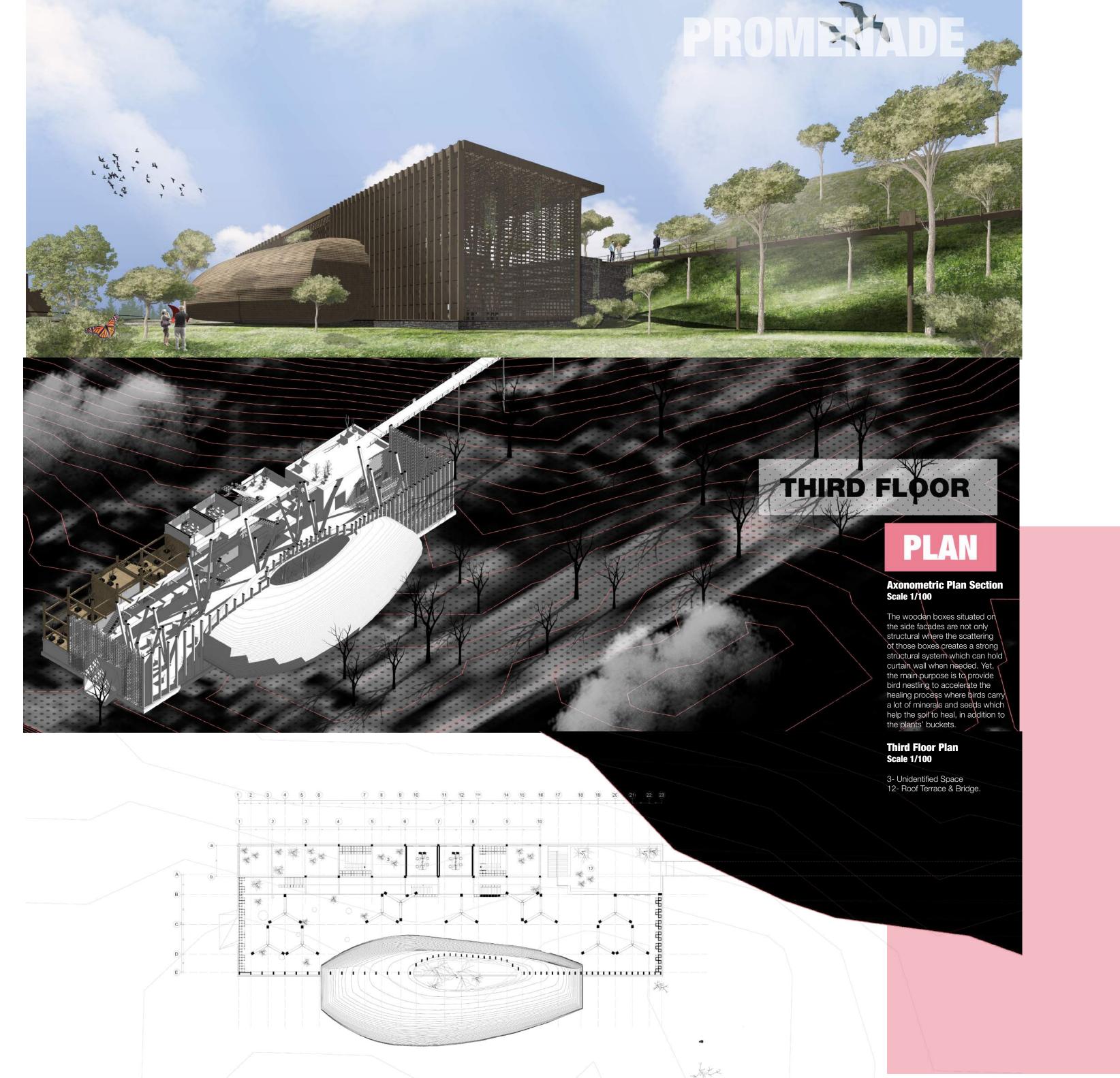


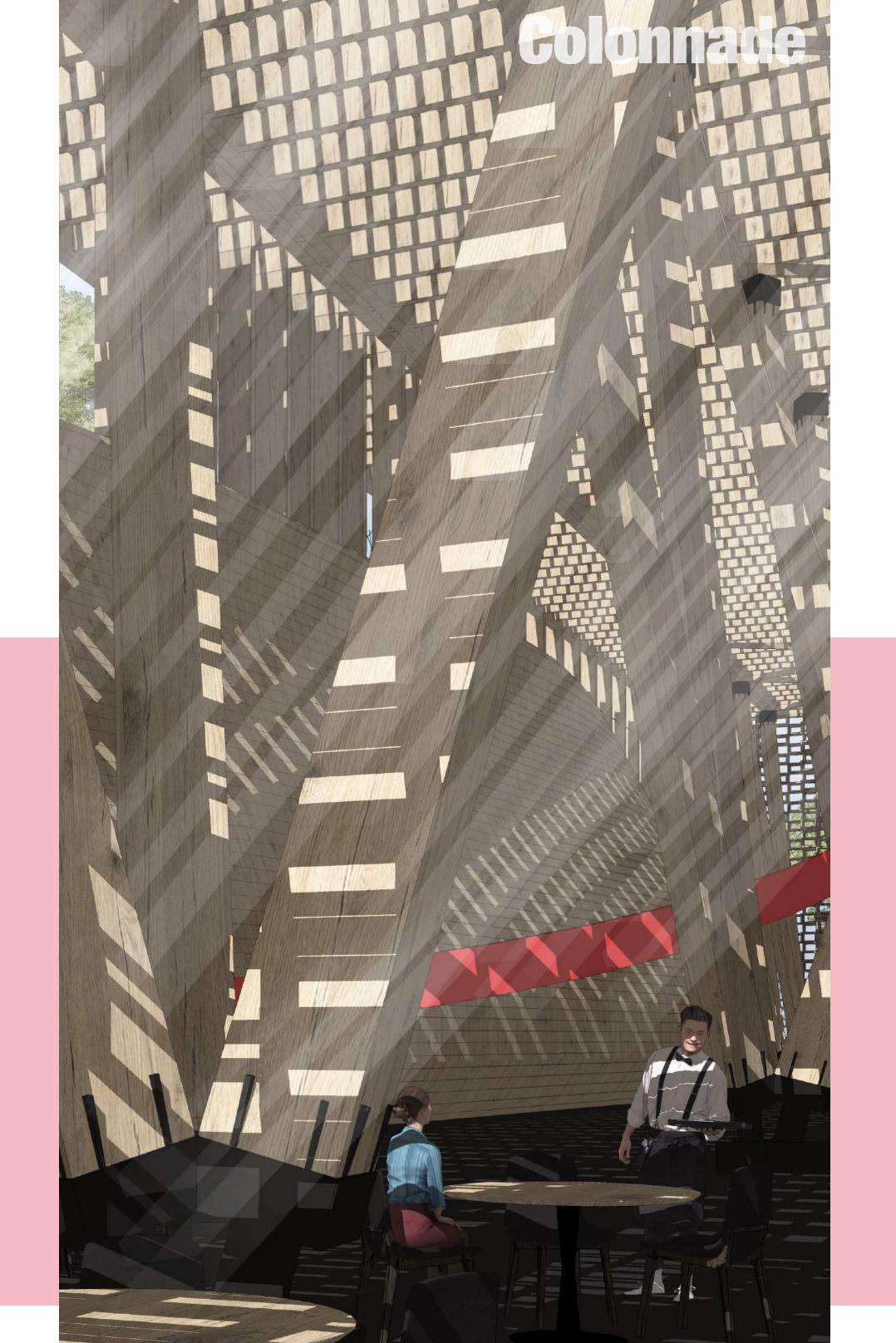


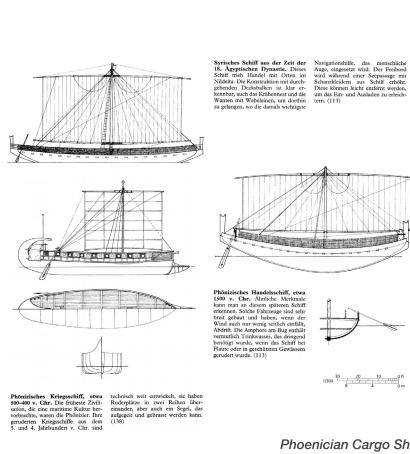


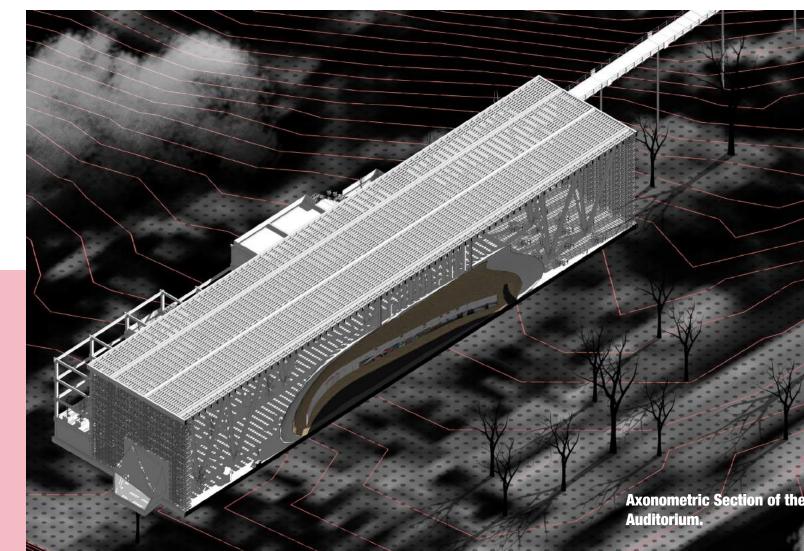




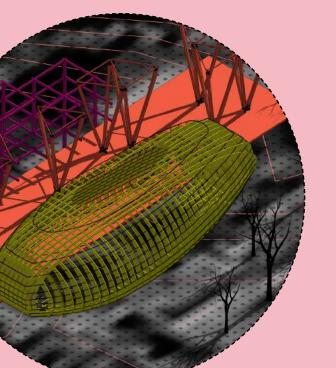












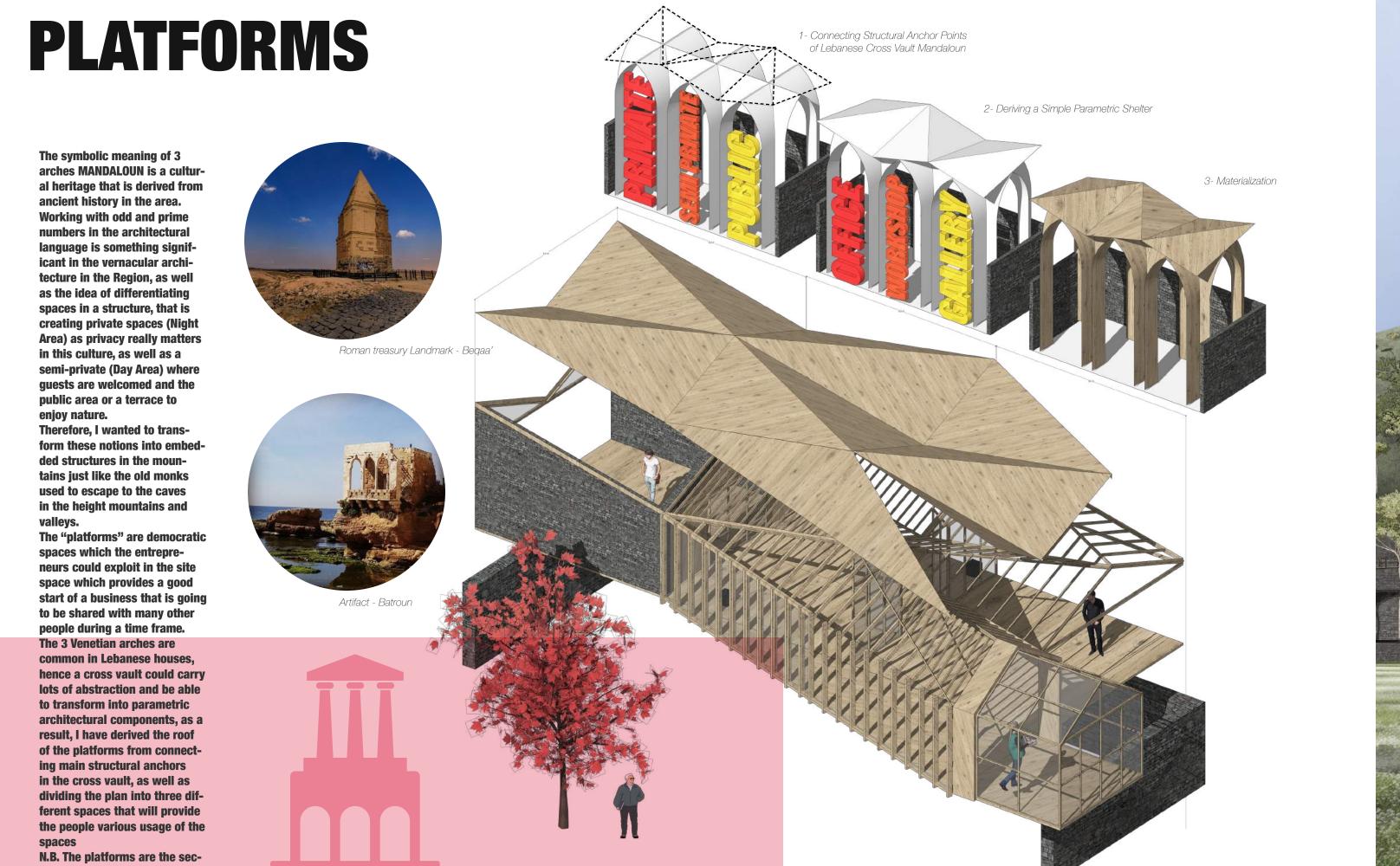






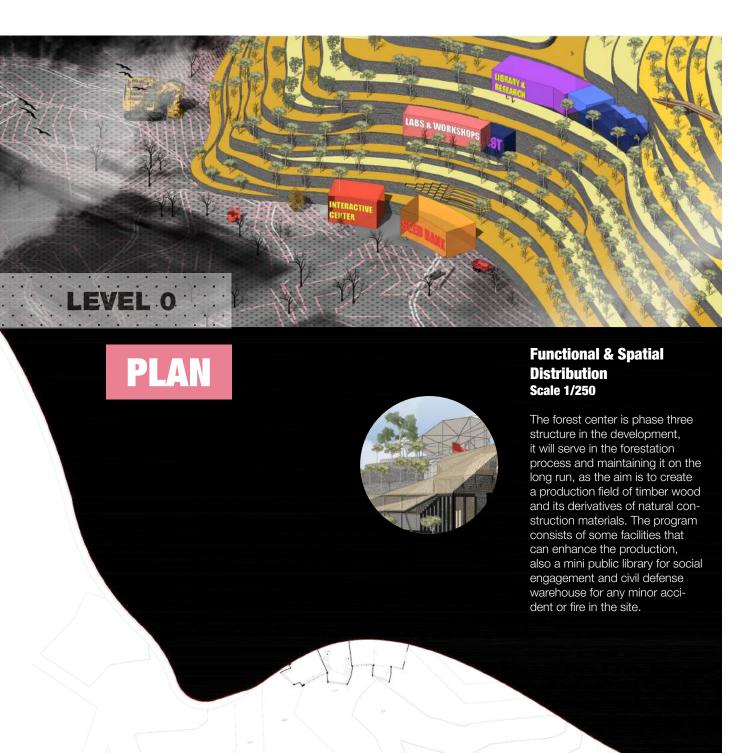
ond phase of the development.



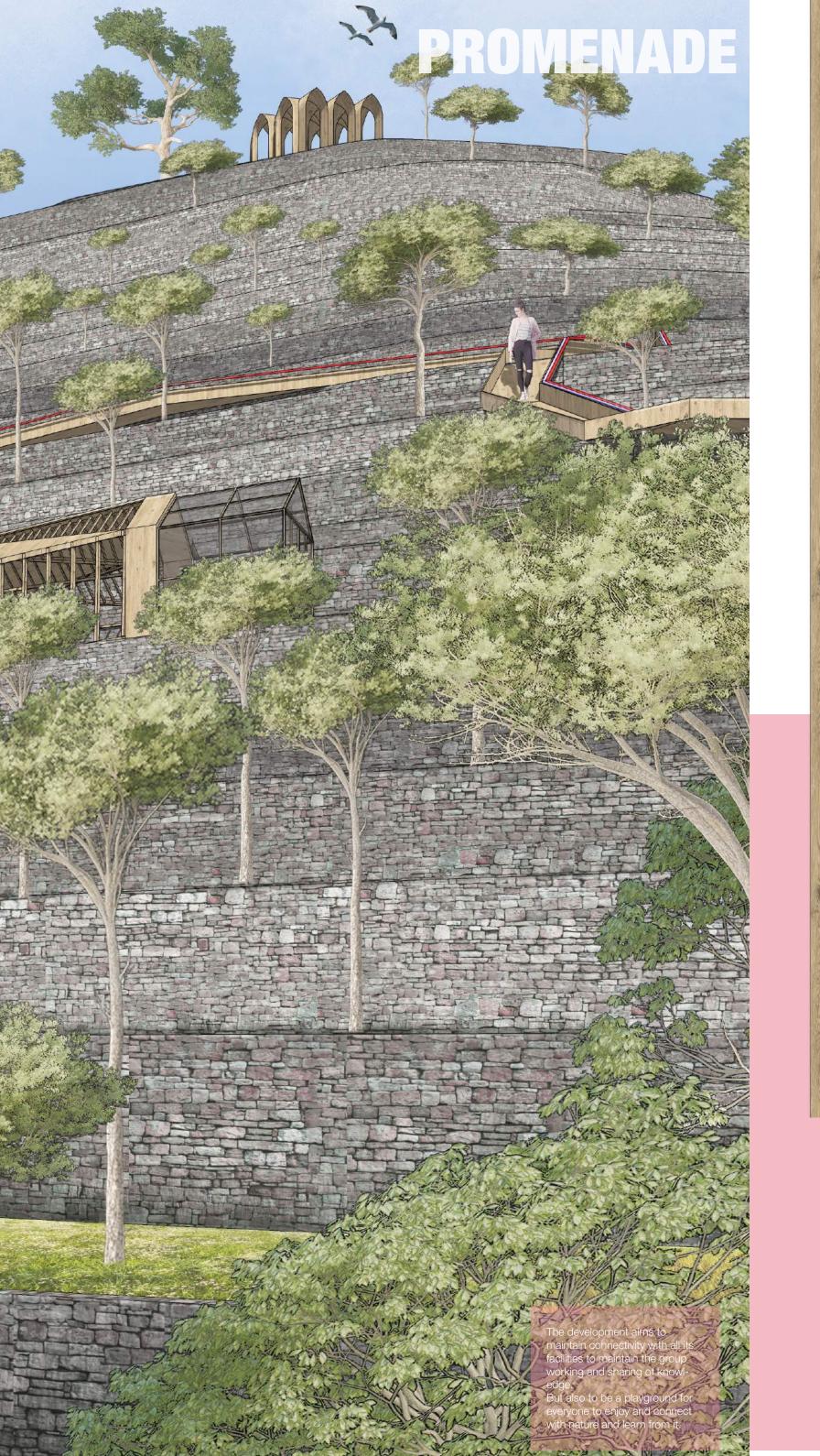


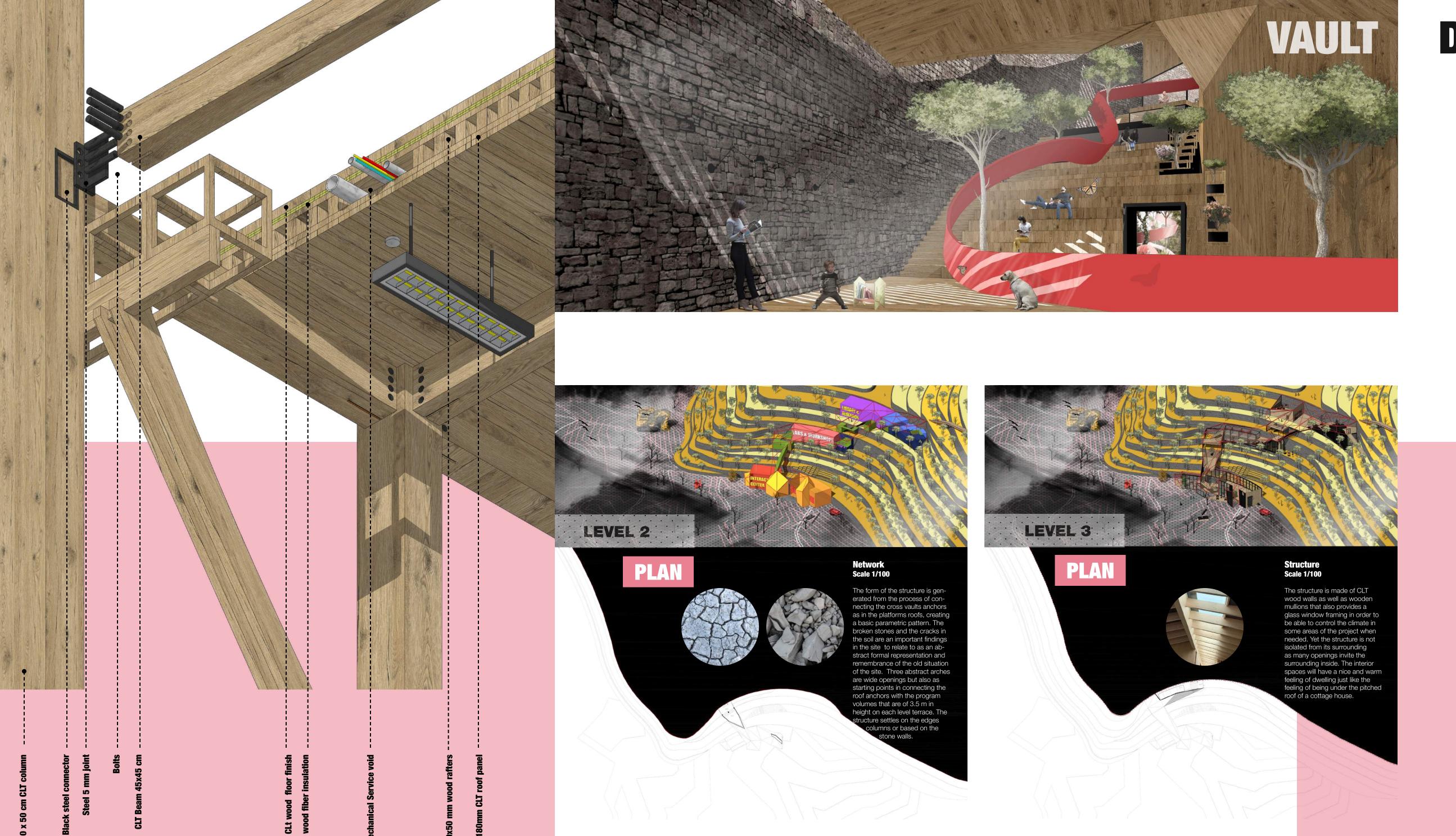


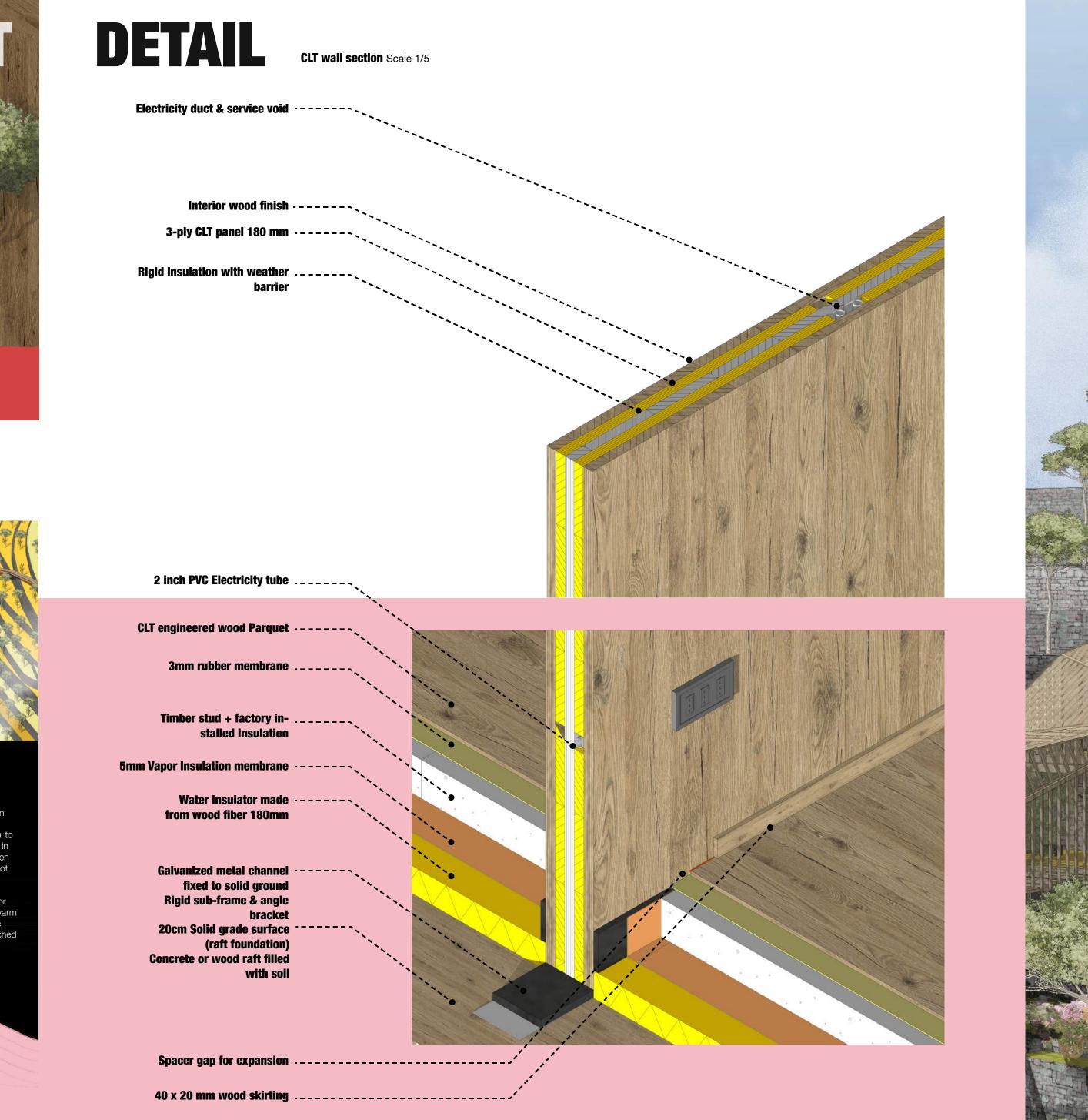


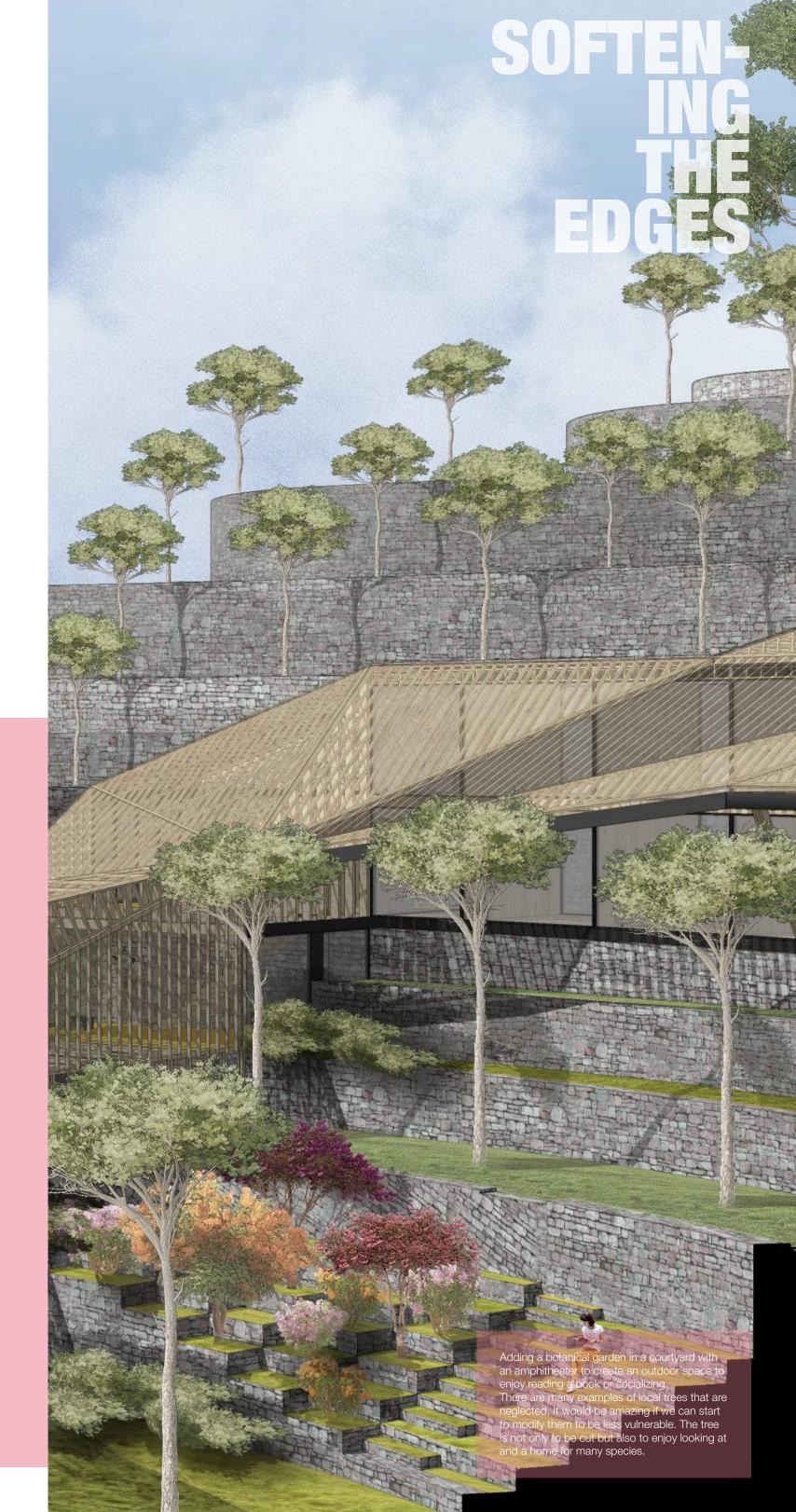






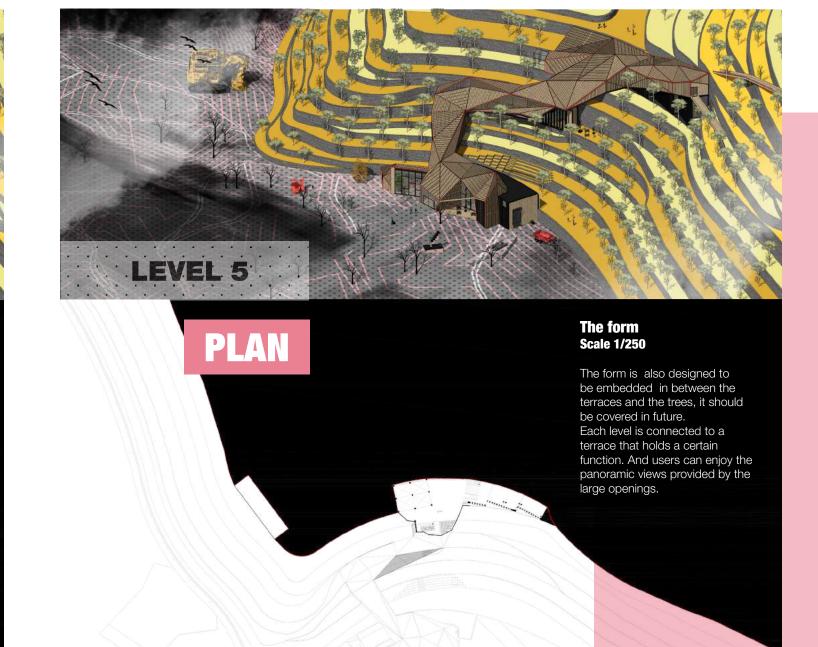


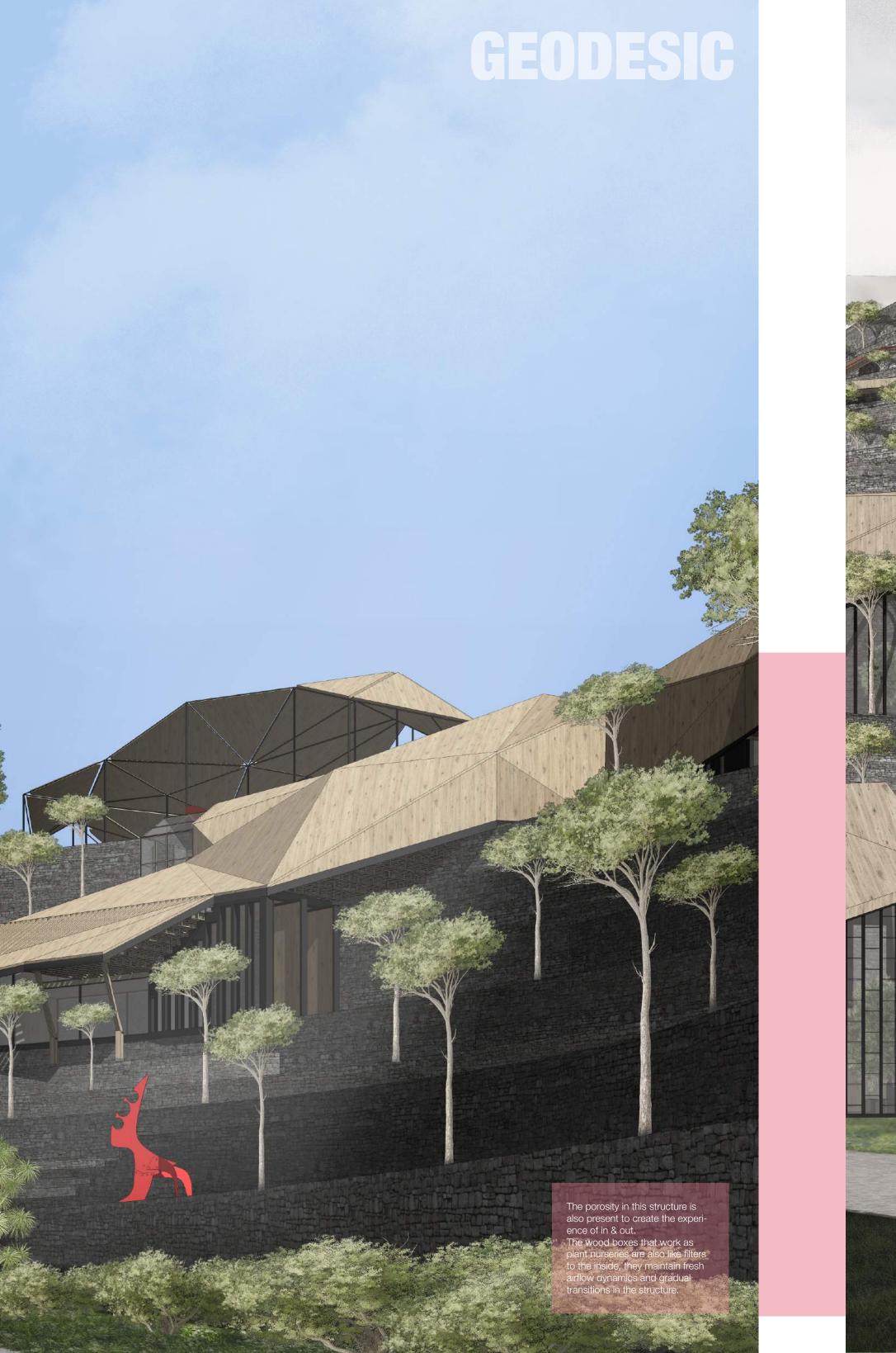










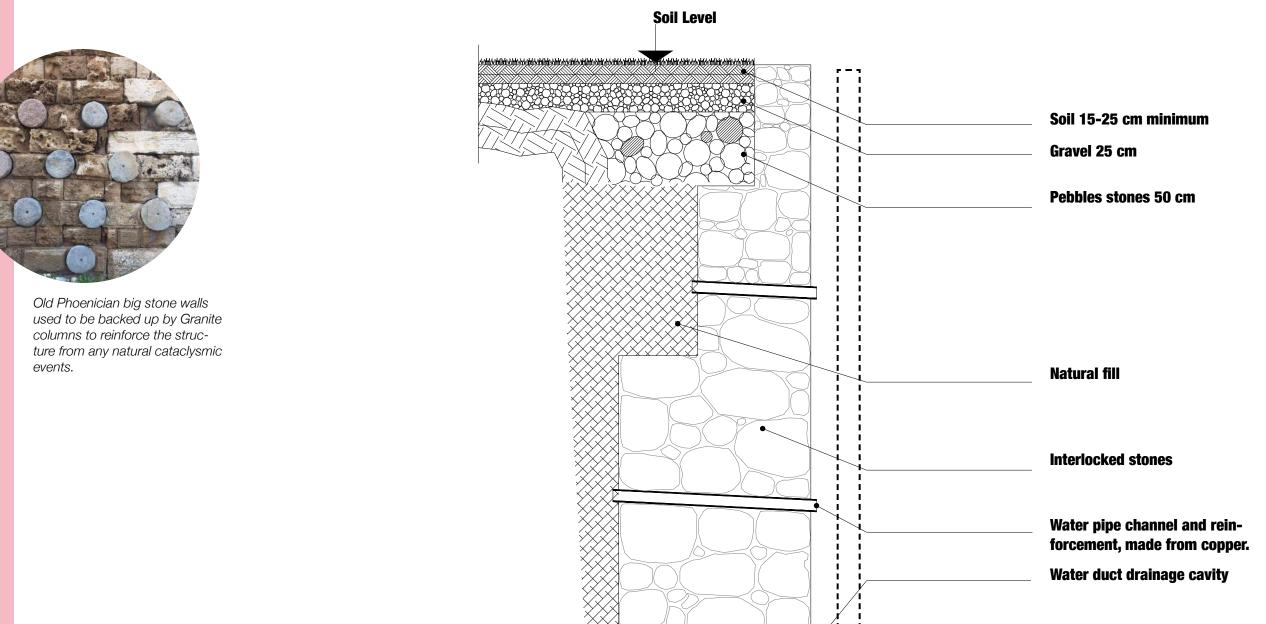












Thank you!