

COUNCIL OF EUROPE



CONSEIL DE L'EUROPE

EUROPEAN LANDSCAPE CONVENTION
21st MEETING OF THE WORKSHOPS FOR THE
IMPLEMENTATION
OF THE EUROPE LANDSCAPE CONVENTION

LANDSCAPE WORKSHOPS AND HANDS-ON ACTIVITIES AS EDUCATIONAL APPROACHES

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Politecnico di Milano, Italy



DIPARTIMENTO DI
ARCHITETTURA, INGEGNERIA DELLE
COSTRUZIONI E AMBIENTE COSTRUITO

ABC

POLITECNICO DI MILANO

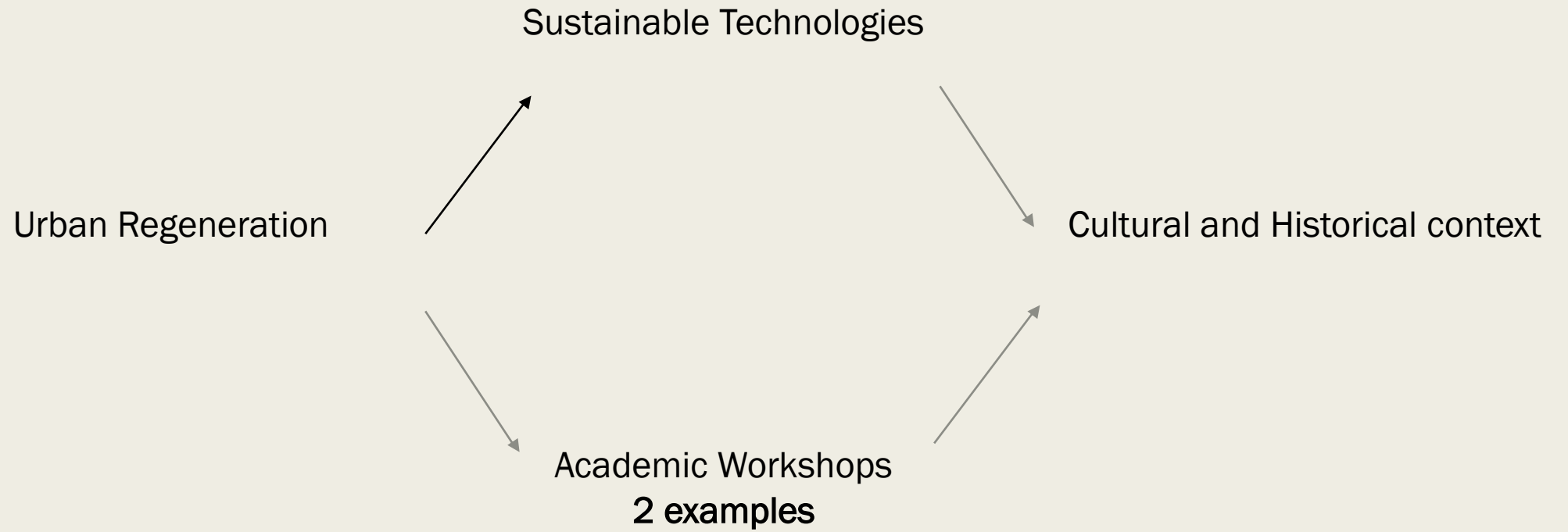
Thematic axis

- **Intensive Workshops and Design-build landscape architecture studio** projects have been receiving much **attention from both the professions and academia** in recent years, and are acquiring a gradually compelling role in landscape architectural curricula.
- **They serve as integrative approaches to the design process** presenting an alternative to the studio-based culture of learning.
- **Emphasis is placed on students' learning through 'reflection-in-action'** where students work **with actual problems** to acquire knowledge and techniques into their design schemes.

Contents

- Topic introduction
- Project description
- Thematic lectures
- Studio works from the students

Topic introduction



Landscape courses Politecnico di Milano

- **Master in Landscape Architecture. Land Landscape Heritage**
(Laurea Magistrale)
- **Master in Sustainable Architecture and Landscape Design**
(Laurea Magistrale)

Project description

Master in Sustainable Architecture and Landscape Design
(Laurea Magistrale)

- Annual “Special Topics in Landscape” workshop in Politecnico di Milano – Sede di Piacenza (one week)
- 80 students from 22 different countries
(Europe, USA, South America, Asia, Australia, New Zealand)
- Groups of 5 students
- Lectures
- Design works



Politecnico di Milano – Sede di Piacenza



Piacenza Location



Vertical/roof garden and

Landscape Architecture:

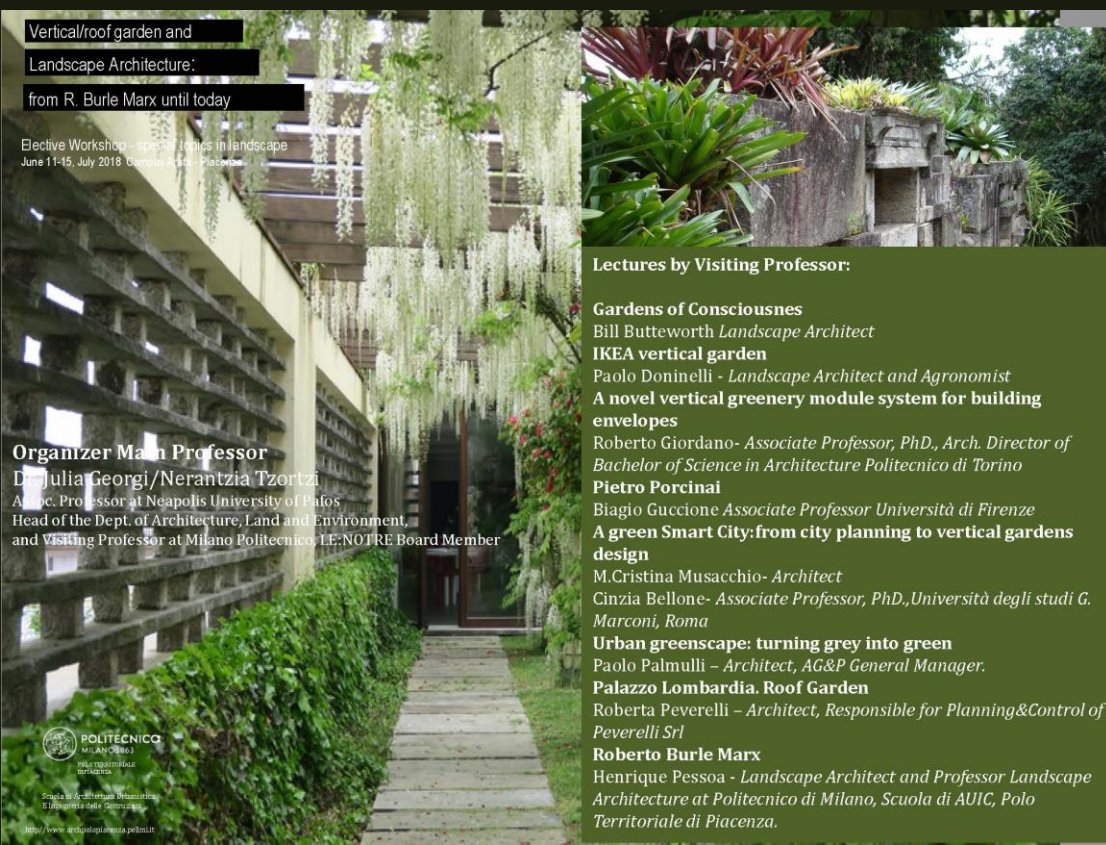
from R. Burle Marx until today

*Elective Workshop - special topics in landscape
June 11-15, July 2018 Campus Arata - Piacenza*

Special Topics in Landscape

Lectures by Visiting Professors and practitioners:

- **Gardens of Consciousness** Bill Butteworth *Landscape Architect*
- **IKEA vertical garden** Paolo Doninelli - *Landscape Architect and Agronomist*
- **A novel vertical greenery module system for building envelopes** Roberto Giordano- *Associate Professor, PhD., Arch. Director of Bachelor of Science in Architecture Politecnico di Torino* **Pietro Porcinai** Biagio Guccione *Associate Professor Università di Firenze*
- **A green Smart City: from city planning to vertical gardens design**, M.Cristina Musacchio- *Architect* Cinzia Bellone- *Associate Professor, PhD.,Università degli studi G. Marconi, Roma*
- **Urban greenscape: turning grey into green** Paolo Palmulli – *Architect, AG&P General Manager*
- **Palazzo Lombardia. Roof Garden** Roberta Peverelli – *Architect, Responsible for Planning&Control of Peverelli Srl* **Roberto Burle Marx** Henrique Pessoa - *Landscape Architect and Professor Landscape Architecture at Politecnico di Milano, Scuola di AUIC, Polo Territoriale di Piacenza.*



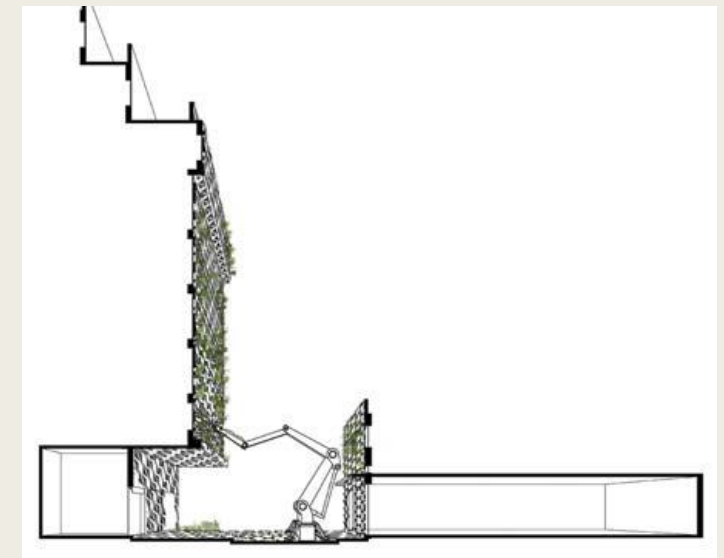


STUDENT WORKS

SPECIAL TOPIC IN LANDSCAPE: LANDSCAPE WORKSHOP IN VERTICAL GARDENS

Study sites

4 different sites in Piacenza to develop: vertical and horizontal green space



Sophia Vyzoviti (2015) Urban Poche Reloaded
<http://parapoesis.tumblr.com/tagged/Urban-Poche-Reloaded>

Work process



Group 1

L'ORTICELLO DEL PALAZZO

Location: Vicolo Bartolomeo Perestrello (Piazza Cavalli)

Students: Fontana, A. Foroni, C. Marhendra, L. Parizzi,

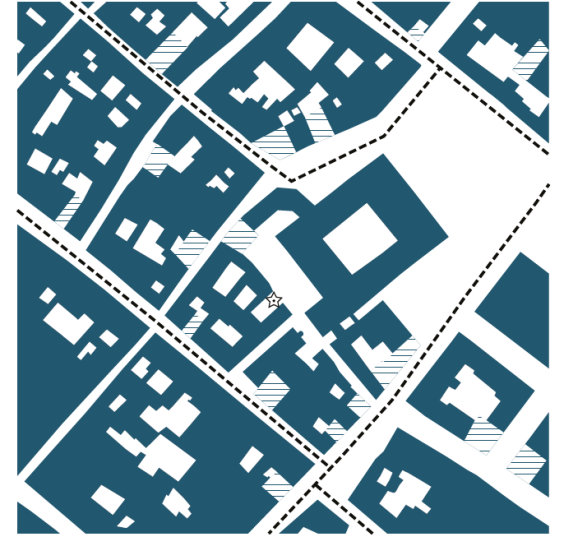
V. Ranza, Wusihala.

_AREA



_Vicolo Bartolomeo Perestrello

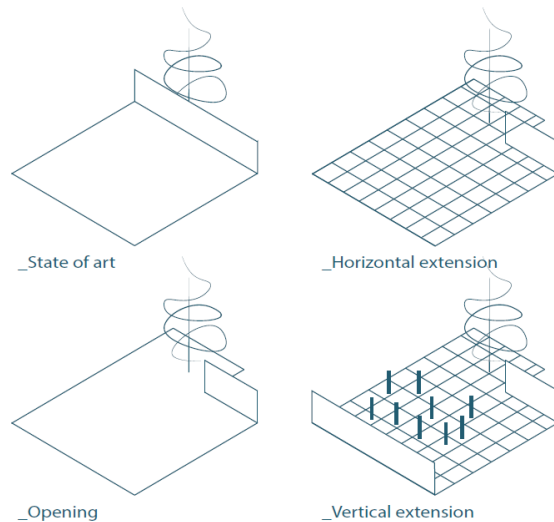
_SITE



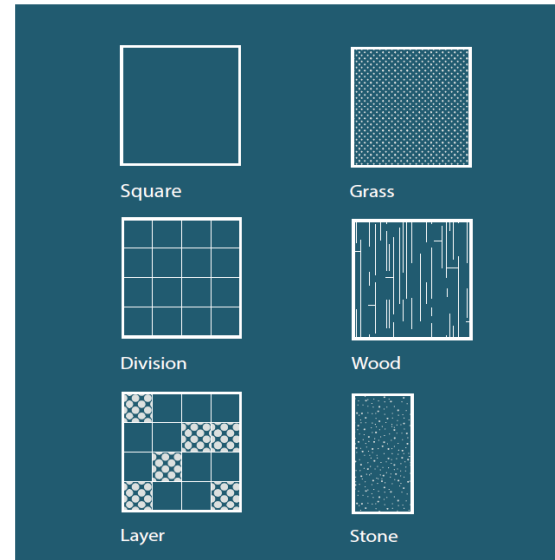
_STRATEGY



_COMPOSITION



_MODULE



_COLOR CYCLE

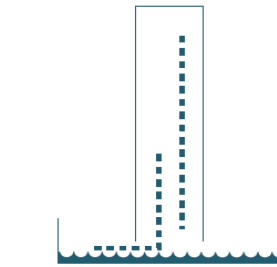
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Broccoli												
Brussel sprout												
Cabbage												
Carrot												
Cauliflower												
Garlic												
Lettuce												
Onion												
Potato												
Pumpkin												
Radish												
Shallot												
Turnip												
Asparagus												
Peas												
Beetroot												
Courgette												
Pepper												
Tomato												
Celery												
Strawberry												



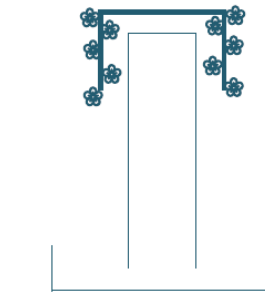
_MASTERPLAN



_WORKING DIAGRAM



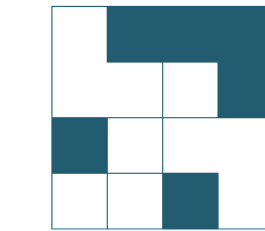
_Vapor column



_Flower barrier



_Soil collection



_Modularity

_BENEFITS



ENVIRONMENT

- Low pollution
- Better air quality
- Biodiversity



HEALTH

- Seasonal food
- Physical wellbeing
- Mental wellbeing



KM ZERO

- Long term investment
- Economic re-evaluation of site
- Enhancement of local products



SOCIALIZATION

- Tourism development
- Interaction
- Psychological development

BEFORE



BEFORE



AFTER



AFTER



BEFORE



AFTER



SPECIAL TOPIC IN LANDSCAPE: LANDSCAPE WORKSHOP IN VERTICAL GARDENS

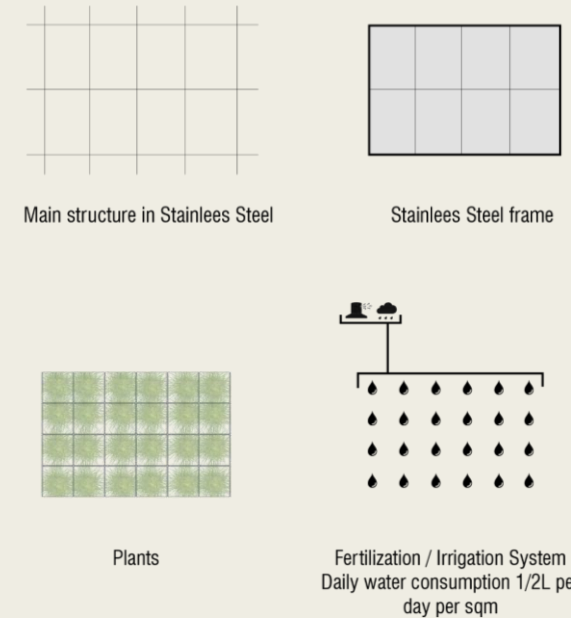
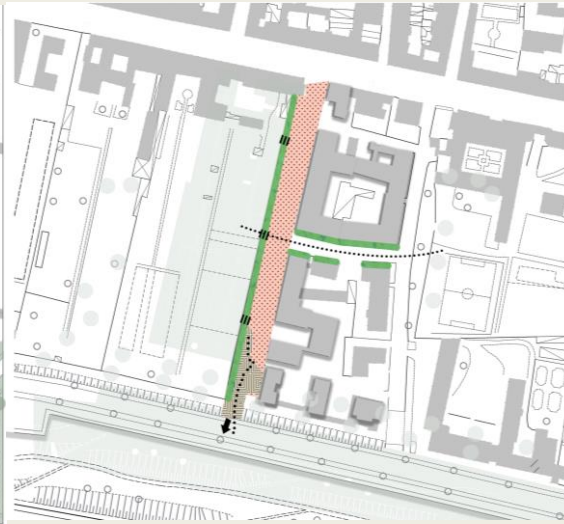
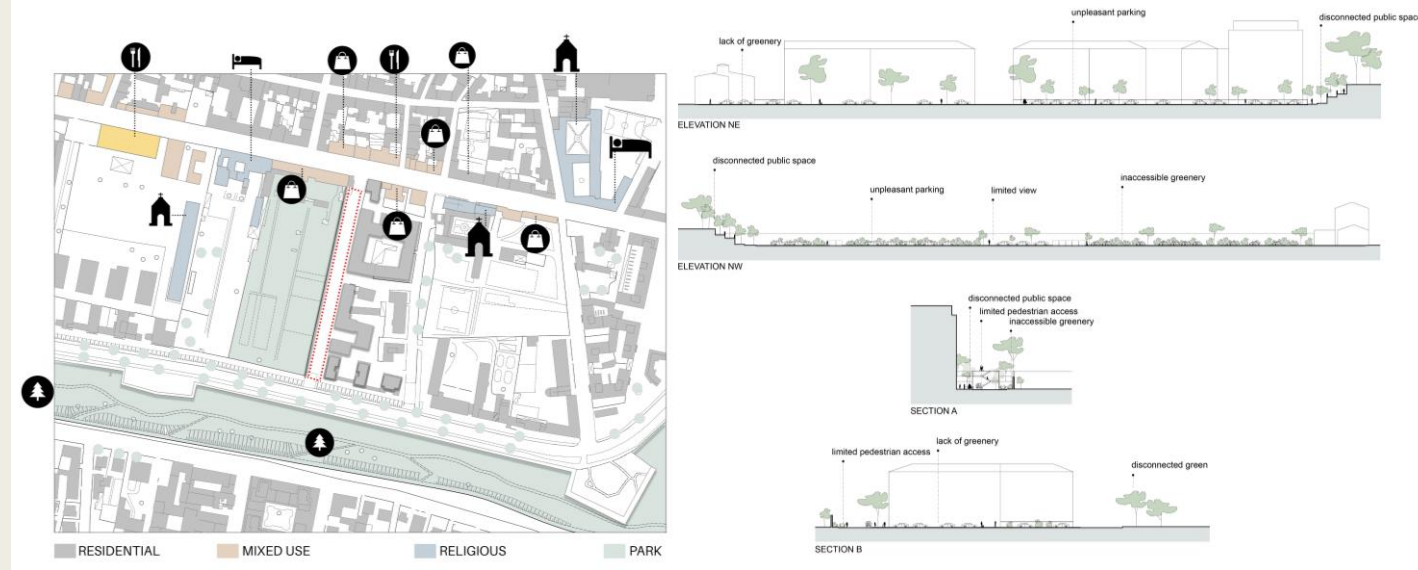
Group 2

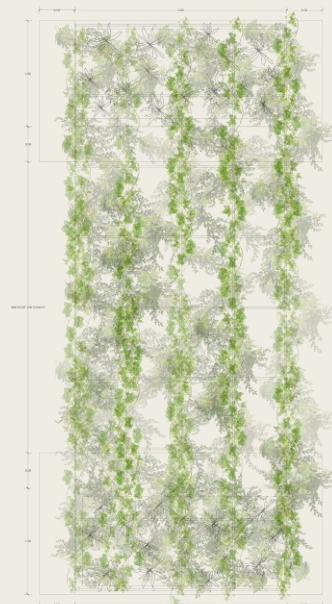
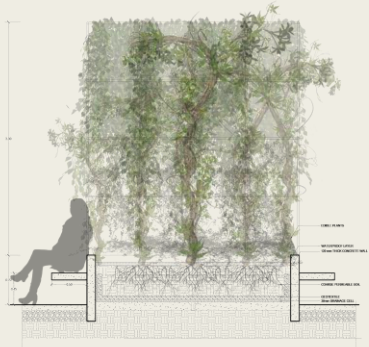
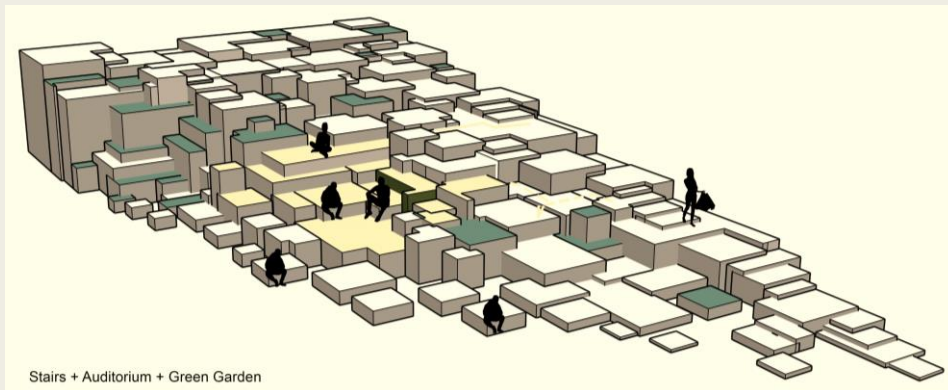
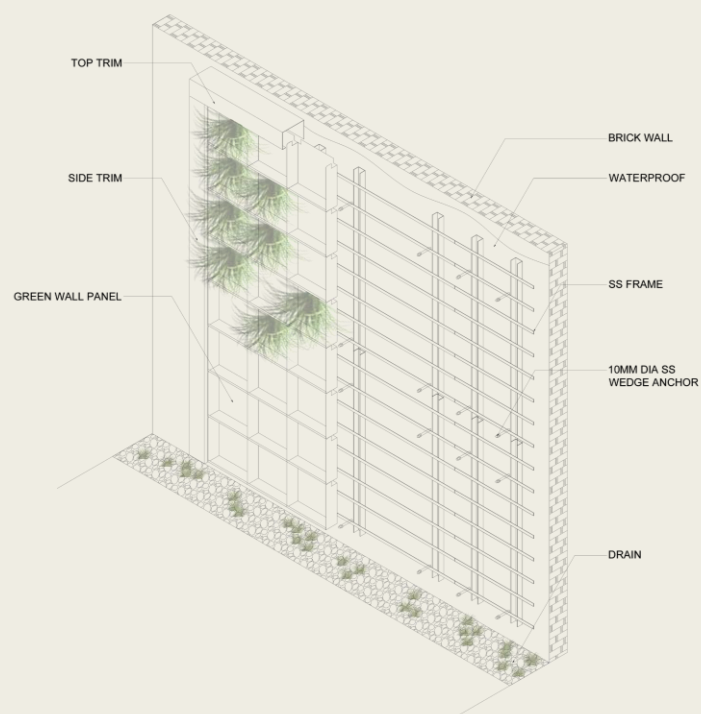
LIVING WALL

Location: Via Dasangallo (Publio Passegio)

Students: Bahrami Elmira, Loya Vishakha, Lutukurthi Sravya,

Meta Bardha, Mohammadrezaei Hossein, Silaharoglu Yasemin, Tirupathi Sneha





SPECIAL TOPIC IN LANDSCAPE: LANDSCAPE WORKSHOP IN VERTICAL GARDENS

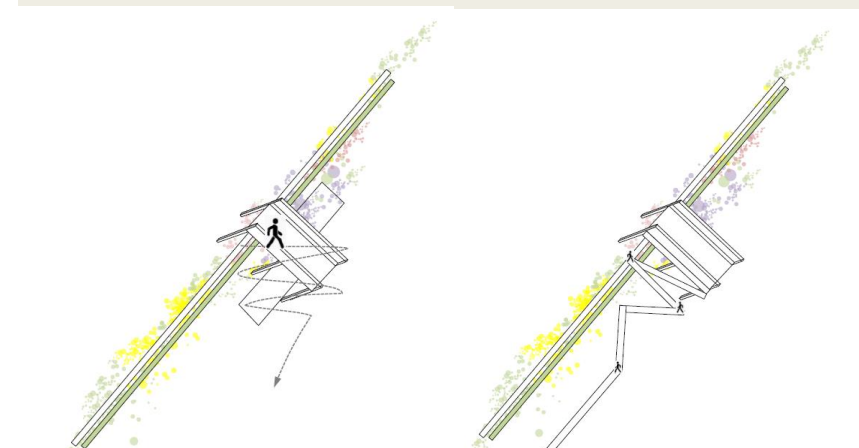
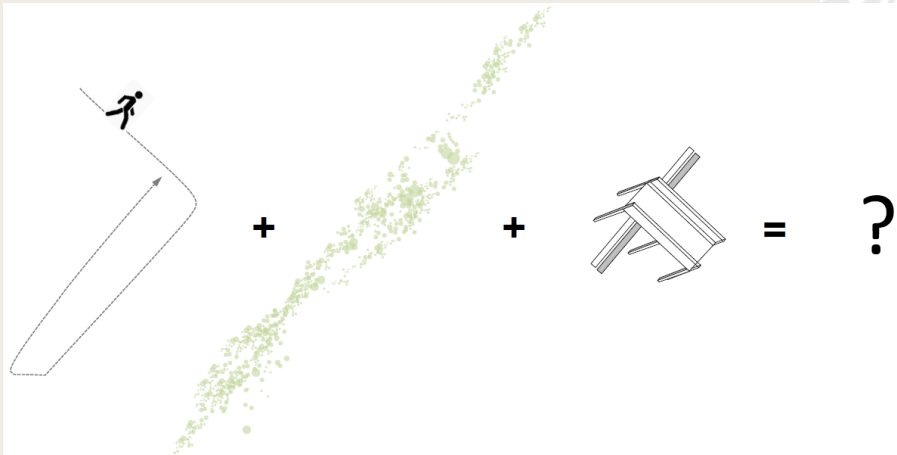
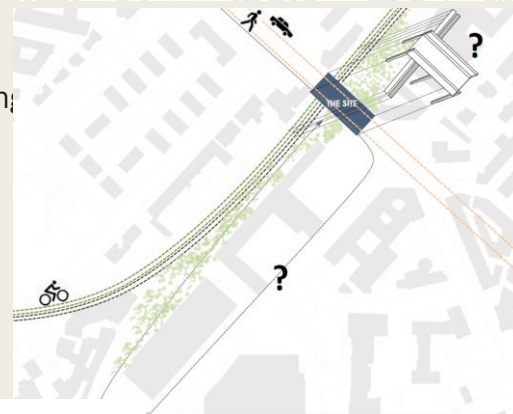


Group 3

ABANDONED RAILWAY RENOVATION &
GREEN CORRIDOR INTERVENTION (Group 7)

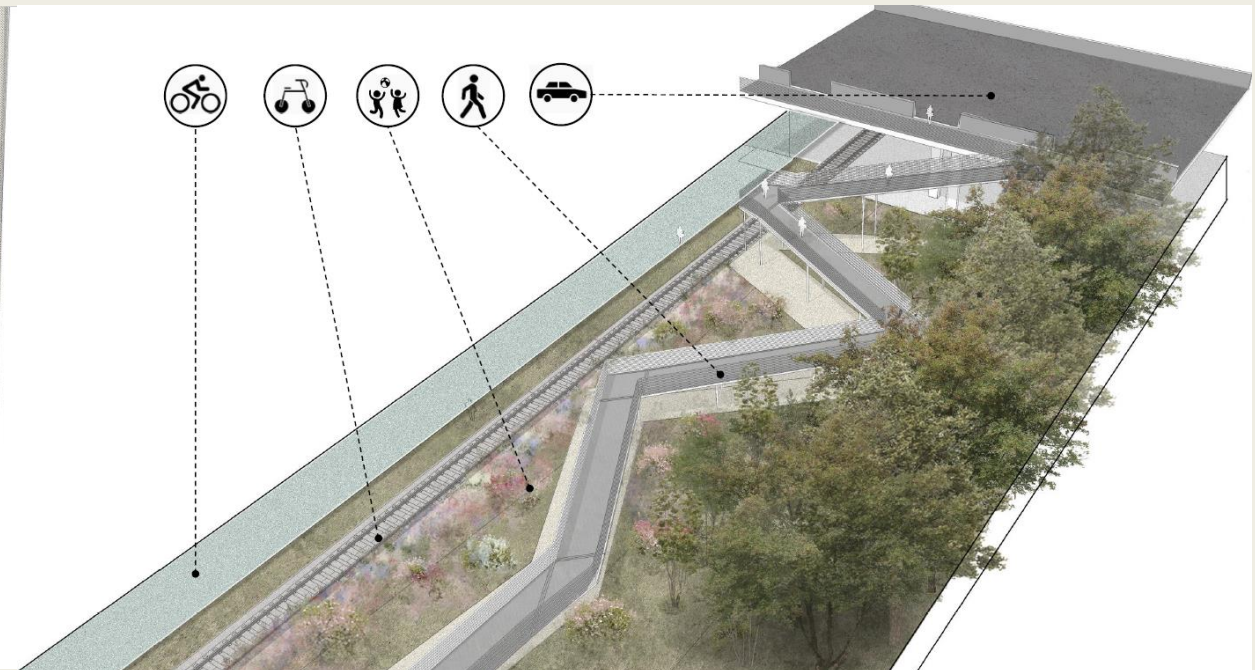
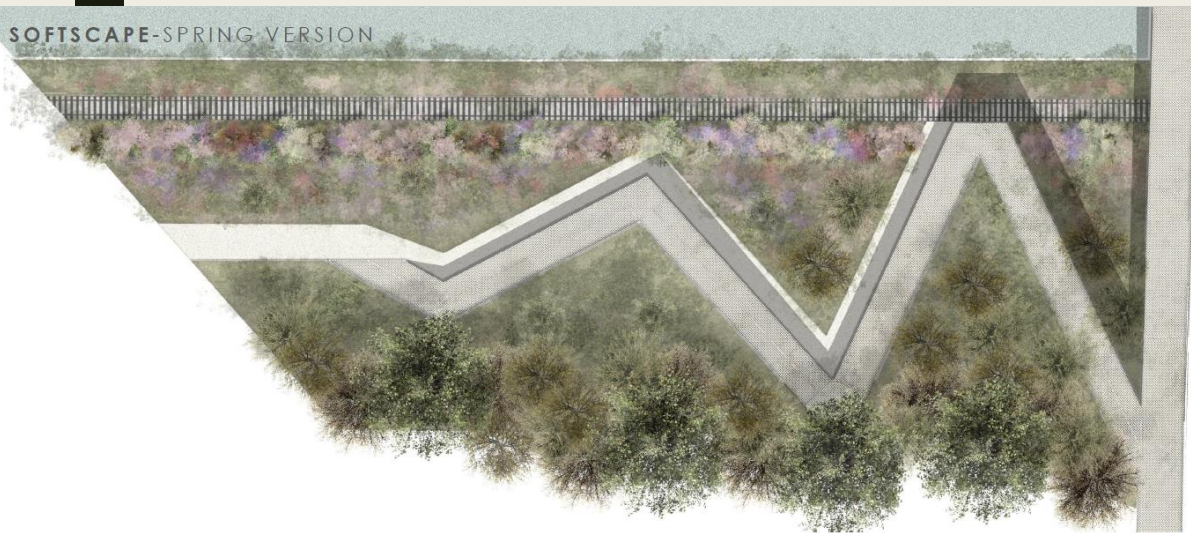
Location: Piacenza Railway Station

Students: Sylvia Akro, Naveen Kumar Battina,
Ambereen Zahid Khan, Jiawei Pang, Eleonora Vaccari, Qiong

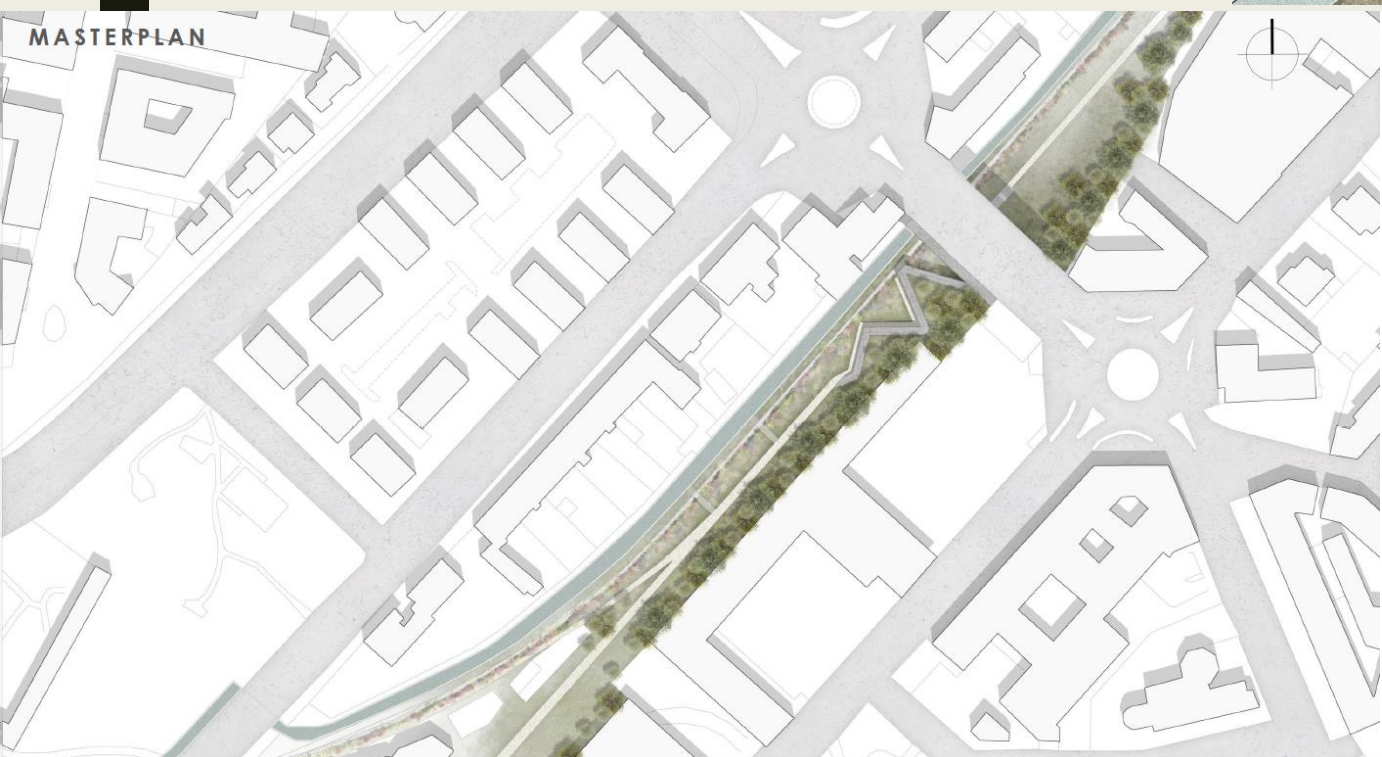


SPECIAL TOPIC IN LANDSCAPE: LANDSCAPE WORKSHOP IN VERTICAL GARDENS

SOFTSCAPE-SPRING VERSION



MASTERPLAN



ECOLOGICAL ASPECT



















meadow



brush

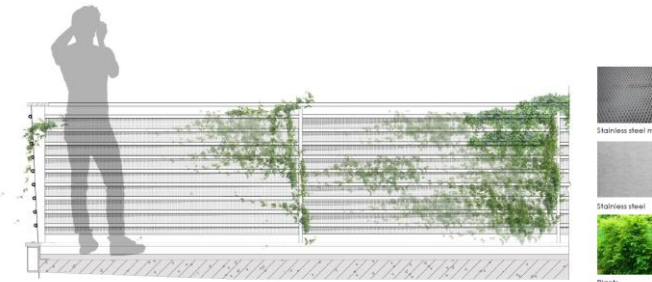


trees

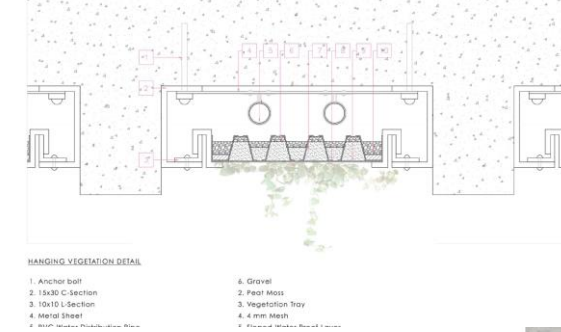
on site	 <i>Peperium hybridum</i>	 <i>Taraxacum officinale</i>	 <i>Valeriana officinalis</i>	 <i>Hypericum</i>
locals	 <i>Campanula medium</i>	 <i>Petrohagia saxifraga</i>	 <i>Anacamptis pyramidalis</i>	 <i>Thymus pulegi</i>
on site	 <i>Corylus avellana</i>	 <i>Viburnum lantana</i>	 <i>Cornus sanguinea</i>	 <i>Frangula alnifolia</i>
on site	 <i>Fraxinus ornus</i>	 <i>Acer campestre</i>	 <i>Ostrya carpinifolia</i>	 <i>Robinia pseudoacacia</i>



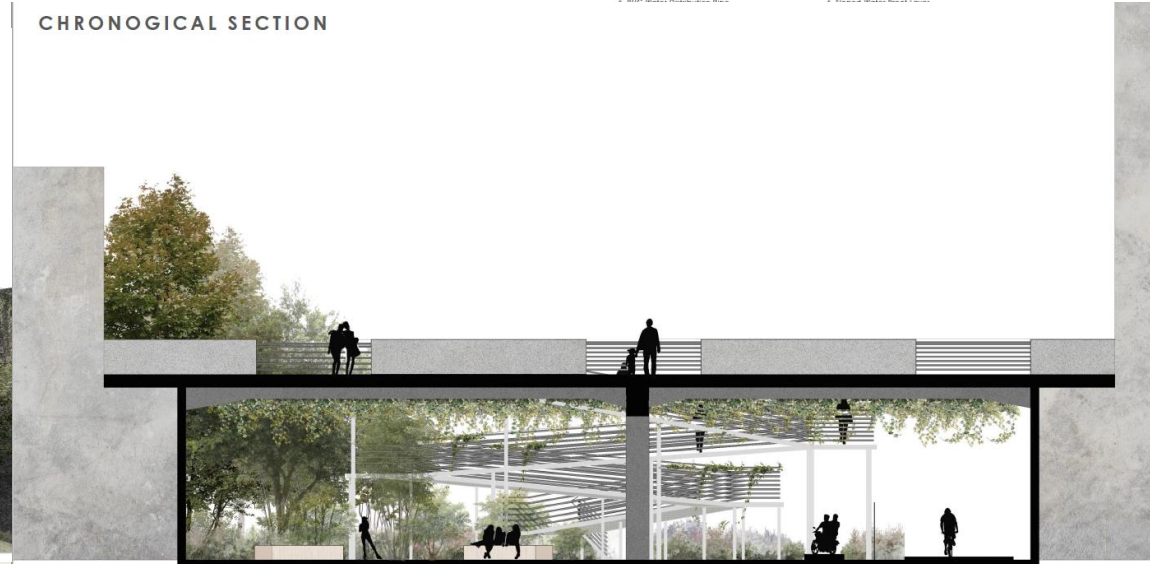
DETAIL- RAMP HANDRAIL



DETAIL- UNDERBRIDGE GARDEN



CHRONOLOGICAL SECTION





| SPECIAL TOPIC IN LANDSCAPE: LANDSCAPE WORKSHOP IN VERTICAL GARDENS

Project description

- Annual “Landscape Workshop” workshop in Neapolis University of Pafos, Cyprus
- 20 students from **Master of Landscape Architecture** and Architecture Programme
- Groups of 5 people.
- Lectures
- Design and implementation works



Neapolis University of Pafos–Cyprus



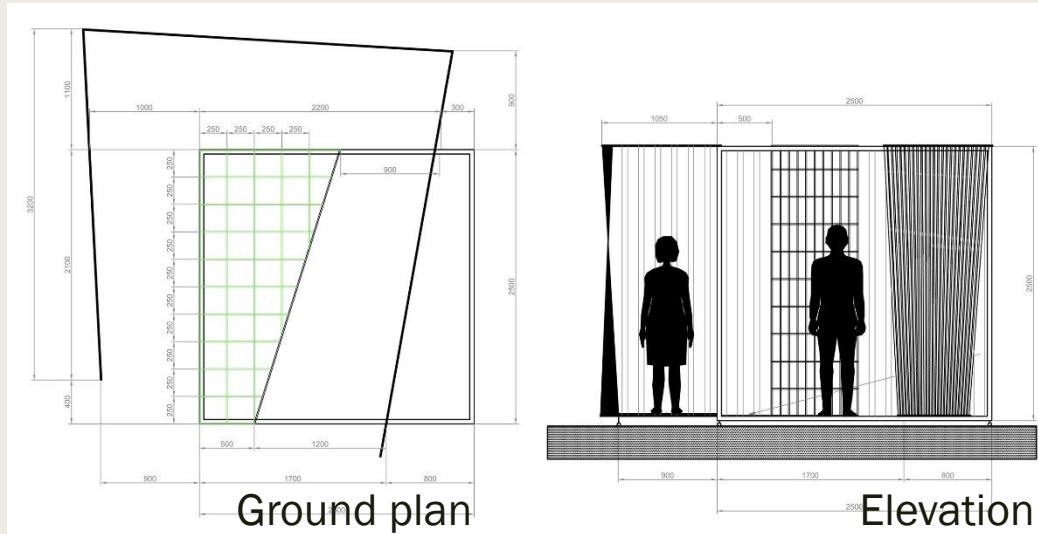
Pafos- Location

*Following an invitation for **an open-air art and architecture exhibition**, students and teachers constructed a small-scale installation in the historical centre of Limassol, Cyprus, as a collaboration among undergraduate students in the Programme of Architecture and postgraduate students in the Programme of Landscape Architecture.*

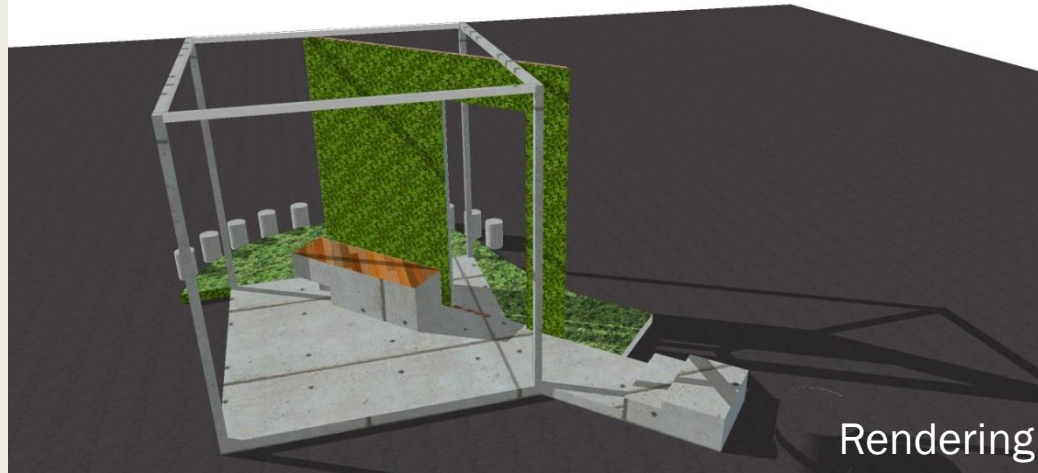


A three-dimensional cubic frame (2.5x2.5x2.5 meters) as a starting point.

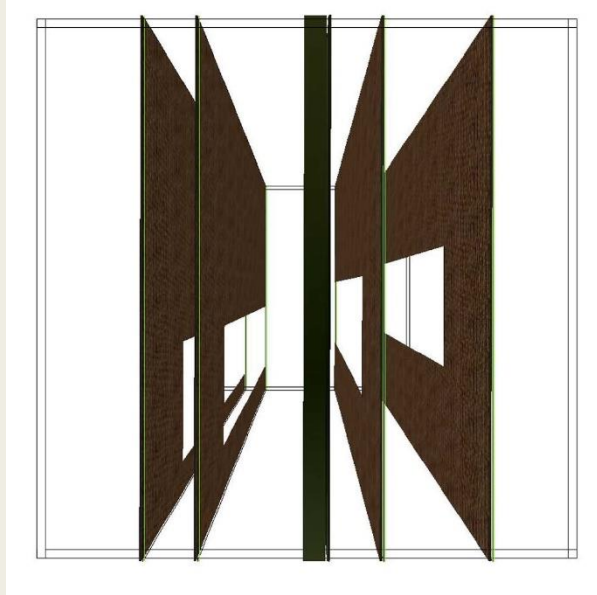
Use of cheap materials: ropes, wire, metal mesh, plywood, tubing, canvas, etc.



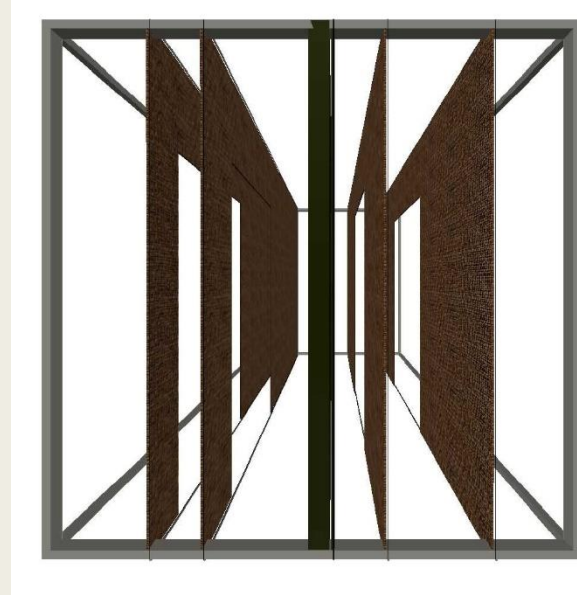
Preliminary ideas



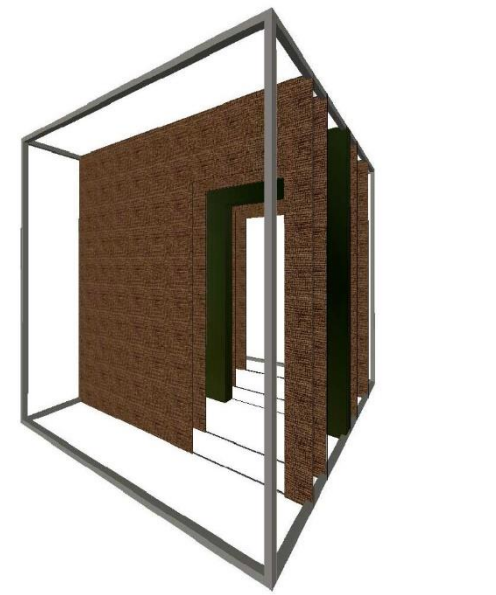
Rendering



perspective plan



elevation



view

The Plan(t)ed Cube



*The Plan(t)ed Cube emerged as a response to the urban character of the site **and the ephemeral nature of the installation.....***

The Plan(t)ed Cube during construction

THE PLAN(T)ED CUBE: A HANDS-ON EDUCATIONAL APPROACH



.....with recycled materials and durable plants

The Plan(t)ed Cube during construction

THE PLAN(T)ED CUBE: A HANDS-ON EDUCATIONAL APPROACH



*More than a public art installation, the **Plan(t)ed Cube** became:*

- *an intensive course on teamwork,*
- *on-site decision-making*
- *last-minute adjustments, and*
- *community interaction.*

after construction

THE PLAN(T)ED CUBE: A HANDS-ON EDUCATIONAL APPROACH



The students **had the rare opportunity:**

- *to bring a design to life,*
- *shape a space that is experienced by them and other people, and*
- *discuss those experiences.*

More than a temporary urban folly, the **Plan(t)ed Cube is an example of:**

- **student collaboration** beyond the traditional classroom experience and
- **a valuable educational addition in the design-build toolkit.**

after construction

RESULTS

Learning outcomes

Construction knowledge, skills and values:

- Development of construction skills
- Familiarisation with new and non-conventional **building materials** and developed ideas concerning their uses.

Implementation of the project:

- **Working in real scale** as a unique experience for students and one of the few opportunities during their education.
- As students **went back-and-forth between design and construction**, they began to understand how design and construction interrelate.

Project Management skills: Planning, Communication, and Problem-solving

- The design session, delegation of tasks, preparation and organisation of the workshop **became lessons in planning and management**.
- Faced with **'real-world' practical limitations**, students were challenged and learned the importance of adapting to changes and unexpected circumstances.

WORKSHOPS & DESIGN-BUILD PROJECTS

**can significantly improve a
student's understanding of:**

- Taking a project from the drafting board to design+ implementation.
- Pre-construction preparation.
- Handling materials and construction techniques.
- Communicating with colleagues, co-workers and clients.
- On-site problem solving.

contribute to:

- Personal development as a designer, as a member of a team, and as a valuable member of a wider community.
- Sense of gratification.
- Sense of pride.
- Feelings of solidarity and trust among team members.
- Fun.

Conclusions

- According to the research, design works and hands on activities of the student groups, **the use of green sustainable technologies** could become **an important tool** for urban and historical regeneration.
- **The interviews with the locals**, the case studies on urban spaces show that people are **attracted towards greenery in public spaces**. The same approach could be used in retrofitting historical sites as modern public spaces.
- **The use of intensive design workshops and hands on activities** as think-tanks for **urban planning and sustainability** could become a part of a strategic proposal for historic city center
- **The combined input of international students** and specific inquiries on sustainability practices would create an all-encompassing method of sustainable urban regeneration and engaging public spaces.

Thank you !
Grazie !