



### Poster presented at

## **COST Action CA17133 Circular City**

# Implementing nature-based solutions for creating a resourceful circular city

Final event

18+19 September 2022

VIA University College Campus Aarhus C Ceresbyen 24, 8000 Aarhus Denmark



Bring ideas to life VIA University College













no	Poster	page
1	Circular City	4
2	AUTOMATED MODELLING AND DESIGN OF URBAN STORMWATER CONTROL MEASURES	6
3	Biochar in City Tree Substrates	8
4	Eco-friendly Built Environment	10
5	Emerging Organic Contaminants Removal by Constructed Wetlands: Comprehensive Meta-analysis and Development of Decision Support Tools	12
6	From Chlorine to Biodiversity – Transforming Urban Ponds	14
7	HOUSEFUL - Innovative circular solutions and services for new business opportunities in the EU housing sector	16
8	ICWMOM: Investigation of Circular Water Management Opportunities on Multisectoral (Urban, Industry and Agriculture) Scale: Küçük Menderes River Basin Case Study	18
9	KREIS-Haus – Experiencing circular systems from lab to field	20
10	Land Restoration as a NBS to reduce the flood and drought risk	22
11	ModULar Tools for Integrating enhanced natural treatment SOlutions in URban water CycIEs	24
12	Nature-based solutions for a cleaner and safer Macao	26
13	Novel Pathways to Achieving Agreement in the Transformation of Urban Spaces for Water Management and Climate Adaptation	28
14	Porto Fifth Facade Project	30
15	SantUrbLab – Implementing nature-based solutions in "Santuario" Neighborhood	32
16	Stormwater Management Beyond Design Rain Events and Standard Operating Conditions	34
17	UniNEtZ and SDG 6 in Austria	36
18	Urban Vertical Green 2.0	38



Enhancing Socially Responsible action and Approach to Nature-Based Solutions in Architectural Education within the framework of the Project:

## Eco-friendly Built Environment

project team member participating in Aarhus COST Event: Dr. Jelena Ristić Traiković

other team members: Dr. Ana Nikezić, Dr. Budimir Sudimac, Dr. Vladan Đokić, Aleksandra Milovanović, Dr. Aleksandra Đorđević, Dr. Mladen Pešić

#### Framework

The ECOBUILT project responds to an increasing national and Europe-wide demand for professionals with a focus on sustainability who can manage the complexities of the planning process in various

fields and at different scales. The project involves three universities from various European regions and thus introduces the transnational dimension: Riga Technical University (coordinator), University of Genoa (Italy) and University of Belgrade (Serbia).

#### Objectives

To design an integrated joint Master's programme in Eco-friendly Built Environment. The programme will be designed in cooperation with associate partners and will be practice-oriented on the one hand and flexible in terms of individualized learning paths, while on the other hand

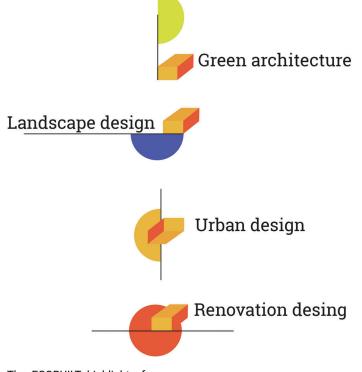
To develop common integrated regulations and rules concerning admission, selection, student performance, and degree awarding; To ensure QA of the programme with regard to current European Standards of QA:

Standards of QA;

To develop a promotion strategy to recruit talented students from around the world.

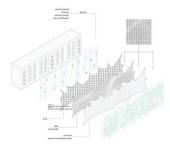
#### Outcomes

The concept of the project is to develop an integrated Master's programme in Eco-friendly Built Environment aimed at training highly qualified professionals who will be able to design and restore buildings qualified professionals who will be able to design and restore buildings and landscapes in urban and rural settings with minimal impact on human well-being and the environment. The graduates, while having acquired basic/comprehensive knowledge and competences in Ecofriendly built environment (engineering module, circular economy module, sustainability module) will gain more specific skills in one of the programme concentration tracks: green architecture, urban design, landscape design, and renovation design.



The ECOBUILT highlights four conectration tracks: Green Landscape architecture, design design, Urban and Renovation design.

#### Examples of good practice at UB-FA





Riga

Extracurricular activity for architectural students of bachelor and master level / Student Workshop "Challenges of COVID-19: Architecture of Pandemic"

Extracurricular activity motivated by the COVID 19 crisis and which is based on the recognition of the importance of proactive approach and the effective search for appropriate reactions in a state of emergency as one of the leading challenges in light of the COVID-19 pandemic that the global population is facing. is facing

Integrated single-cycle-5-year studies in architecture (IASA) / Design Studio Architecture and Nature

Compulsory studio design aimed at understanding the complexity and layering of the mutual influence of man and the environment, and reflecting on the potential of the relationship between man and nature through the disciplinary framework of architecture and especially the design process.

Educational initiative / "MY FIRST GARDEN - educational and didactic kit "

Implemented as a synergetic connection in-between Implemented as a synergetic connection in-between two elective courses - cooperation between artistic and scientific disciplines: (1) course Urban Oasis in the field of Architectural Technologies (led by prof. B. Sudimac) and (2) course Art forms in the field of Visual Arts (led by prof. Br. Pavic). "MY FIRST GARDEN - educational and didactic kit" is a set of collapsible elements for assembling a mobile garden according to the "do it yourself" principle

principle



Università degli Studi di Genova, Italy Genova University of Belgrade - Faculty of Architecture, Serbia Belarade

Riga Technical University, Latvia