

## INVITATIONAL *ON-LINE* EVENT

### ARC2020: Achieving Resilient Cities & Communities

*Friday 13<sup>th</sup> and 20<sup>th</sup> November 2020*

#### Event Program Day 1: Friday 13<sup>th</sup> November

**\*Schedule for Central European Time (CET). Participants from Portugal and Ireland = CET-1h**

	START	END
<b>Opening remarks, Joan García, UPC, Chair</b>	9:00	9:05
<b>#1. Achieving Resilient Cities and Communities</b> <i>Sean O’Hogain and Liam McCarton, TU Dublin</i> <i>Liam and Sean will present an outline of the tools and resources developed within the EU project Build Solid Ground. These tools enable users to analyse the vulnerability of their community to shocks and stresses. They also facilitate users to adopt Nature Based Solutions (NBS) to reduce Vulnerability, increase Diversity and increase Resilience within their community.</i>	9:05	9:30
<b>#2. Urban Nature-Based Solutions: Theory and Multi-functionality</b> <i>Victor Beumer, Consultant on Nature-based solutions, Utrecht</i> <i>Victor will give an overview of terminology and will explain the basics of nature-based solutions, green infrastructure and hybrid solutions. What are the principles to take into account when implementing these solutions in your cities and how can you involve multiple stakeholders and achieve a working business case based on multiple benefits and the desires of multiple stakeholders.</i>	9:30	9:55
<b>Breakout sessions #1 and #2</b>	9:55	10:15
<b>Summary #1 and #2</b>	10:15	10:25
<b>Coffee break</b>	<b>10:25</b>	<b>10:40</b>
<b>#3. Nature-Based Solutions and Smart Urban Water Grids</b> <i>Albert Jansen, Water Innovation Consulting, Utrecht</i> <i>Albert will present a series of case studies, that illustrate how the concept of Smart Urban Water Grids, which reuse and recycle water across a number of users can provide a sustainable solution for water stress in cities.</i>	10:40	11:05
<b>#4. Green Streets in Barcelona</b> <i>Roberto Soto, IMU, Barcelona</i> <i>Roberto will present the use of nature based solutions for sustainable drainage in Barcelona.</i>	11:05	11:30
<b>Breakout sessions #3 and #4</b>	11:30	11:50
<b>Summary #3 and #4. Closing</b>	11:50	12:00

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#### Event Program Day 2: Friday 20<sup>th</sup> November

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	START	END
<b>Opening remarks, Joan García (UPC), Nazaré Couto and Diana Henriques (CEMOWAS2 Project) Chairs</b>	9:00	9:05
<b>#5. Nature-Based Solutions Online Toolkit</b> <i>Pat Kennedy, eTownz, Dublin; Liam McCarton and Sean O'Hogain, TU Dublin</i> <i>Pat will discuss his experience in creating smart NBS communities around Europe. The team will then present the NBS online platform which facilitates communities to prioritise their own sustainable community development infrastructure plans.</i>	9:05	9:30
<b>#6. Nature-based solutions in Granollers (Barcelona) and Cemowas2 project: circular economy for cities and communities</b> <i>Xavier Romero, Ajuntament de Granollers and CEMOWAS2 project officer, Granollers</i> <i>Diana Henriques, Lisboa e-Nova Agencia de Energia e Ambiente de Lisboa and CEMOWAS2 project officer, Lisboa</i> <i>Xavier will present a successful study case of how nature based solutions based on water reuse benefits ecosystems restoration, the recovery of social use and citizen awareness. Diana will present CEMOWAS2 project contributions to circular economy in southwestern Europe cities and regions.</i>	9:30	9:55
<b>Breakout sessions #5 and #6</b>	9:55	10:15
<b>Summary #5 and #6</b>	10:15	10:25
<b>Coffee break</b>	<b>10:25</b>	<b>10:40</b>
<b>#7. Nature-Based Solutions for Buildings</b> <i>Declan Alcock, Engineers Without Borders, Dublin</i> <i>Declan will present a series of case studies which will illustrate the benefits of adopting a Green Infrastructure strategy for buildings. Some of these benefits include noise reduction, reducing heat island effects, improved air quality and enhanced urban biodiversity.</i>	10:40	11:05
<b>#8. Public perceptions on coastal renaturalization projects</b> <i>Elisabet Roca, Laboratory of Social Studies of Civil Engineering, UPC, Barcelona</i> <i>Elisabet will discuss on moving beyond the traditional "hard" paradigm to allow for more adaptive coastal protection alternatives in the context of climate change and urban pressures.</i>	11:05	11:20
<b>#9. Wetland-based solutions</b> <i>Enrica Uggetti, Group of Environmental Engineering and Microbiology, UPC, Barcelona</i> <i>Wetlands are aquatic ecosystems highly productive and with great cycling capacity. Wetlands can be artificially reproduced and used for treatment of waters, flow regulation, and other multiple purposes. Enrica will show practical examples on wetland systems.</i>	11:20	11:35
<b>Breakout sessions #7, #8 and #9</b>	11:35	11:50
<b>Summary #7, #8 and #9. Closing</b>	11:50	12:00

## **INVITATIONAL *ON-LINE* EVENT**

### **ARC2020: Achieving Resilient Cities & Communities**

***Friday 13<sup>th</sup> and 20<sup>th</sup> November 2020***

#### **Conference development**

The Conference will be fully online. Speakers will present their topics to all participants, and in the breakouts participants will be split in small groups for discussion. A summary of the discussions will be presented by the moderator of each room.

#### **Event Summary**

Universitat Politècnica de Catalunya, in association with the Technological University Dublin, will host a conference on Friday 13<sup>th</sup> and 20<sup>th</sup> November 2020 exploring how Nature Based Solutions can be integrated with conventional engineered infrastructure to create more sustainable cities and communities.

**Achieving Resilient Cities and Communities (ARC2020)** will focus on Nature Based Solutions (NBS) which are both natural and constructed systems using physical, chemical and microbiological treatment processes. The event will feature keynote speeches from several international experts who will present NBS case studies from across Europe.

The emphasis in ARC2020 will be on active learning and we want everyone who attends to leave with a toolkit which will help them to promote the inclusion of NBS technologies in their day-to-day work. All cities are facing huge challenges due to climate change, with increasing demands on water and energy supplies and these technologies provide the most sustainable and cost-effective solutions.

This event is part of the European Union (EU) development education and awareness raising (DEAR) program (EuropeAid/151103/DH/ACT/Multi) and the Build Solid Ground Campaign which aims to inform and actively engage EU citizens in actions towards achieving Sustainable Development Goal 11: Sustainable Cities and Communities.

#### **Registration**

Free. Limited seats just by invitation. Registrations will be on a first-come-first-served basis. Please send a confirmation mail to [joan.garcia@upc.edu](mailto:joan.garcia@upc.edu).

#### **Language**

English