
Fundación Torcuato Di Tella, Delta Alliance Argentinean Wing, Delft University of Technology (TUDelft) and the International Forum on Urbanism (IFOU) have organized a series of webinars on Nature-Based Solutions (NbS), under the auspices of the Embassy of the Netherlands in Buenos Aires. They have been developed during the month of November 2020, in three weekly meetings. The activity also had the participation of the Central Society of Architects (SCA) and the Professional Council of Architecture and Urbanism (CPAU).

The themes of the webinars were the following:

Webinar November 11, Nature-based Solutions.
Webinar November 18, NbS: Design, planning and governance.
Webinar November 25, NbS: Circular economy and financing.

In the first webinar, Dr Emmanuelle Cohen-Shacham (IUCN) presented the definition of NbS and the “Global standards for NbS”, which were launched this year by the IUCN. Dr Niki Frantzeskaki (Swinburne University of Technology, Australia) presented her perspective of NbS in relation to the urban context, showing the position of the European Comission and exploring the concept of “Sustainable Transitions”. Then, Em.prof.dr.ir. Han Meyer and Attila Katona presented cases from the Netherlands (Room for the River) and Singapore-Beijing (Tianjin Eco-Valley) respectively.

In the second webinar, Dr Mark Scott (Univ. Dublin) and Dr Chris Zevenbergen (IHE-TUDelft) presented NbS from the perspective of governance, design and planning. Then the case of Water Funds in Latin America (Ana Beccar Varela and Jaime Camacho, The Nature Conservacy), and an Argentine case of participatory wetland restoration in Cuyo (Heber Sosa, Wetlands International) were presented.

In the third webinar, Dr Helen Toxopeus (Naturvation, NL) delved into the different business models for financing NbS, and Msc. David Alvarez (Ecoacsa, Spain) spoke about circularity and water. Finally, two illustrative cases of the theme were presented: “Resilience by Design Metropolitan Region Amsterdam” (Anne Loes Nillesen, Defacto) and “Cascading Semarang” (Mónica Altamirano, Deltares).

Each webinar had a short introduction given by professionals in the fields of NbS, design, planning, governance and economics: Dr Verónica Zagare, Kim van Nieuwall, Dr Fransje Hooimeijer, Dr Cynthia Goytía and Lic. Hernán Carlino. We also counted wth the presence of representatives of the Climate Change Adaptation Coordination team, of the National Direction of Climate Change under the Ministry of Environment and Sustainable Development.
Although each webinar was structured around the presentations of theories and cases, a space for discussion was set up in which the participants met in small groups and shared their views on the topics presented in each meeting. Each discussion table was moderated by professionals on the subject, in various languages (Spanish, English and Chinese). The conclusions were then shared with the entire audience.

Nature-Based Solutions have the potential to address the social, environmental and economic challenges of our cities, towards a sustainable transition. The webinars created a space for internationally renowned experts to share their knowledge and experiences in the field. Likewise, attendees were able to share their views on the lessons learned and future challenges.
Webinar Series: Nature-based Solutions

Webinar 1: NbS

Dr Verónica Zagare
Fundación Torcuato Di Tella - Delta Alliance Arg.
Delft University of Technology- TUDelft

Dr Emmanuelle Cohen-Shacham
Thematic Group Lead, IUCN Commission on Ecosystem Management (CEM)

Nature-based Solutions: from definition to implementation
Emmanuelle Cohen-Shacham, PhD
IUCN CEM Nature-based Solutions Thematic Group Lead
**Dr Nikki Frantzezkkaki**  
Centre for Urban Transitions, Swinburne University of Technology, Melbourne, Australia.

**NATURE-BASED SOLUTIONS**

- Sand-dunes motor  
  Den Haag/Rotterdam  
- Wildlife restoration  
  in flood buffer in Gothenburg  
- Green wall in Paris  
- Boffa’s Water-City Forest  
  Building in Aalst  
- Floating urbanisation  
  Rotterdam  
- Living-with-water  
  The Netherlands  
- Appropacology in Amsterdam

Nature-based solutions are inspired by nature, use nature and/or are supported by nature. Specifically, nature-based solutions have been defined as living solutions underpinned by natural processes and structures that are designed to address various environmental challenges while simultaneously providing multiple benefits to economy, society and ecological systems (European Commission, 2016).


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**Em. Prof.dr.ir. V.J. (Han) Meyer**  
Delft University of Technology (TUDelft),  
DELTASTAD

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**Room for the river**

Recovery of the delta as a dynamic and resilient system

The delta is alive and moves; van by Maartje van den Broek, 10-08, 2028
Attila Katona
Central European University, Researcher
NATURVATION Project

„Eco-Valley“ - Sino-Singapore Tianjin Eco-City

• 1 Axis – 3 Centres – 4 Districts“ - 1 axis refers to ‘Eco-Valley’
• Cuts across the Eco-City as an ‘S’-shaped green infrastructure spine with a fishbone structure.
• 50-100 meter wide, 11 km long, now 180,000 m²
• Sponge City disciplines & Park Connector Concept
• 22 KPIs (12 m² green space per capita, 70% native species, etc.)
Webinar Series: Nature-based Solutions

Webinar 2: Design, Planning and Governance

Dr Fransje Hooimeijer
Delta Urbanism / Intelligent SUBsurface
Delft University of Technology - TUDelft

Dr Mark Scott
University College Dublin,

Delivering NBS through urban planning:

- A compelling evidence base
- Translating knowledge to action?
Dr Chris Zevenbergen
Water Engineering Department of IHE Delft, The Netherlands

Nature Based Solutions require a paradigm shift

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Traditional approaches</th>
<th>Emergent approaches</th>
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</thead>
<tbody>
<tr>
<td>Rationale(s)</td>
<td>Economic efficiency (and social equity)</td>
<td>Unlocking economic potential (e.g. multiple benefits)</td>
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<tr>
<td>Focus</td>
<td>Individual infrastructure items (e.g. roads, bridges)</td>
<td>Infrastructure systems, interdependencies (e.g. urban resilience)</td>
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<tr>
<td>Timescale</td>
<td>Short(er) 5-20 years</td>
<td>Long(er) &gt; 30 years</td>
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<tr>
<td>Organisation</td>
<td>Projects</td>
<td>Packages of projects (programs)</td>
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<tr>
<td>Planning process</td>
<td>Robust (risk-based) approach</td>
<td>Adaptive (resilient-based) approach</td>
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Eng. Ana Beccar Varela
The Nature Conservancy

Jaime Camacho
The Nature Conservancy

WATER FUNDS IN LATIN AMERICA

26 Water Funds created
9 Countries of Latin America

Results as of October 2020

95,571 families participating in projects
305,335 ha (natural infrastructure)
+300 public and private partners
USD$219.7 M pooled resources
Prof. Heber Sosa Fabre
Wetlands International, Argentina

antes

después

Prof. Heber Sosa Fabre: sosafabre@yahoo.com.ar
Webinar Series: Nature-based Solutions

Webinar 3: Business models and circular economy

Dr Helen Toxopeus
H2020 NATURVATION
Utrecht School of Economics and the Sustainable Finance Lab at Utrecht University

8 business model types identified

- Risk reduction model
  - Sea plan, Munich
  - Atlantic Water Fund/Phil. Cape Town
- Green development model
  - Park, Marooona, Kenya
- Local ownership models
  - Mozambique, Capertown
- Urban offsetting models
  - Urban Forest Fund, Melbourne

MSc David Álvarez García
CEO of Ecoacsa Reserva de Biodiversidad
EU Business @ Biodiversity Platform Advisory

An opportunity to finance nature: some background

Natural capital: Capturing the value

<table>
<thead>
<tr>
<th>STOCKS</th>
<th>FLOWS</th>
<th>VALUE</th>
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<tbody>
<tr>
<td>Natural capital</td>
<td></td>
<td></td>
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<tr>
<td>Ecosystem and abiotic services</td>
<td></td>
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<tr>
<td>Benefits to business and to society</td>
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Dr Mónica Altamirano
Deltareas

TOWARDS INVESTABLE NBS PROPOSITIONS
Lessons learned Semarang - Water as Leverage

Mónica A. Altamirano, PhD
Specialist in Public-Private Partnerships
Water Resources and Delta Management

NAIAD project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 779467

MSc Anne Loes Nillesen
Defacto and Urbanism, Rotterdam

Amsterdam Forest
Landmarks should also adapt!
- Enormous capital (ca 150.000 trees value of € 3,000 to € 35,000)
- Are essential during urban heat
- Important ecological area