

INFORMATION & ORGANISATION

NATURE BASED SOLUTIONS: PARIS CHALLENGE 2025

In the field of sustainability, Nature Based solutions (NBS) are gaining momentum as a mean to protect, to sustainably manage, and to restore natural or modified systems – as a complement or more and more as full alternative for more technics-based solutions.

Interdisciplinary in its essence, the NBS approach addresses societal challenges effectively and adaptively, simultaneously providing human well-being and biodiversity benefits, and should be considered as part of the answer to the biggest challenges of the 21st century, climate change, biodiversity loss, water management and fair living conditions.

This challenge takes place in two mandatory stages : one consisting of five remote masterclasses starting on Monday 3 November at 5pm (French time = UTC + 1), and the other taking place in person in Paris during the hackathon.



WELCOME TO THE NATURE BASED SOLUTIONS PARIS CHALLENGE 2025



Mines Paris-PSL has imagined an **international hackathon**, co-organised with other **European universities** from the **Eelisa network**. You form part of a selection of students from the Universities of Madrid, Erlangen-Nürnberg, Budapest, Bucharest and Istanbul, you are going to work together with French PSL students on opportunities offered by Nature Based Solutions.

The Nature Based Solutions Challenge is based on **5 compulsory online Masterclasses** ([distance learning, ask here for the Teams link](#)) and a 2,5 day Hackathon in the center of Paris by the end of November 2025. The challenge thus offers an innovative, blended learning program for EELISA students, emphasizing participation, and **international co-construction of solutions** (besides the acquisition of new competencies).



INTRODUCTION TO NBS : COMPULSORY MASTERCLASSES

French time = UTC + 1	3 November 5 - 7pm	6 November 5 - 6:30 pm	10 November 5 - 6:30 pm
Objectives / content	What are Nature Based Solutions ? Definitions, European policies, role of IUCN&other actors, basic ecological mentions on natural phenomena (ecology, hydrology,) and assessment tools.	NBS as a valuable solution againts heat islands in cities : financial and management issues and the role of the city council* Financial and management issues	Sustainable coast management to increase ecosystem's resilience from Climate change Stakeholder engagement
Professors	Dr Emmanuel GARBOLINO, Hanna SOTO VARGAS, Dr André EVETTE PSL France	Dr Attila Buzási UMB - Hungary	Dr. Sara Tessitore SSSA - Italy
Activity to be done by Contact	Mines Paris PSL Dr Jasha OOSTERBAAN	University Budapest Dr Attila Buzási	Scuola Superiore Santa Anna, Pisa Dr. Sara Tessitore



***Ask here for the link**

	13 November 5 - 6:30 pm	17 November 5 - 6:30 pm	24 November 5 - 6:30 pm
Objectives / content	Madrid's Metropolitan Forest as a solution for health and social positive impacts Tools to assess and to monitor, remote sensing & dynamics of the vegetation cover	Natural polymers-based membranes for water availability and management in context of climate changes and pollution Technical issues of NBS in watermanagement	Sustainable water management Scientific basis of water management
Professors	Dr Silvia MERINO DE MIGUEL & Dr Laura RECUERDO PAVON UPM - Spain	Pr Stefan Ioan VOICU Director of the Department of Analytical Chemistry and Environmental Engineering. UPB - Romania	Dr. Gabriele Chiogna FAU - Germany
Activity to be done by Contact	Universita Politecnica Madrid Dr Jasha OOSTERBAAN	University Bucarest Dr Elena Iuliana Biru	Friedrich Alexander University Nurnberg Dr. Anette REGELOUS





PARIS PROGRAMME START



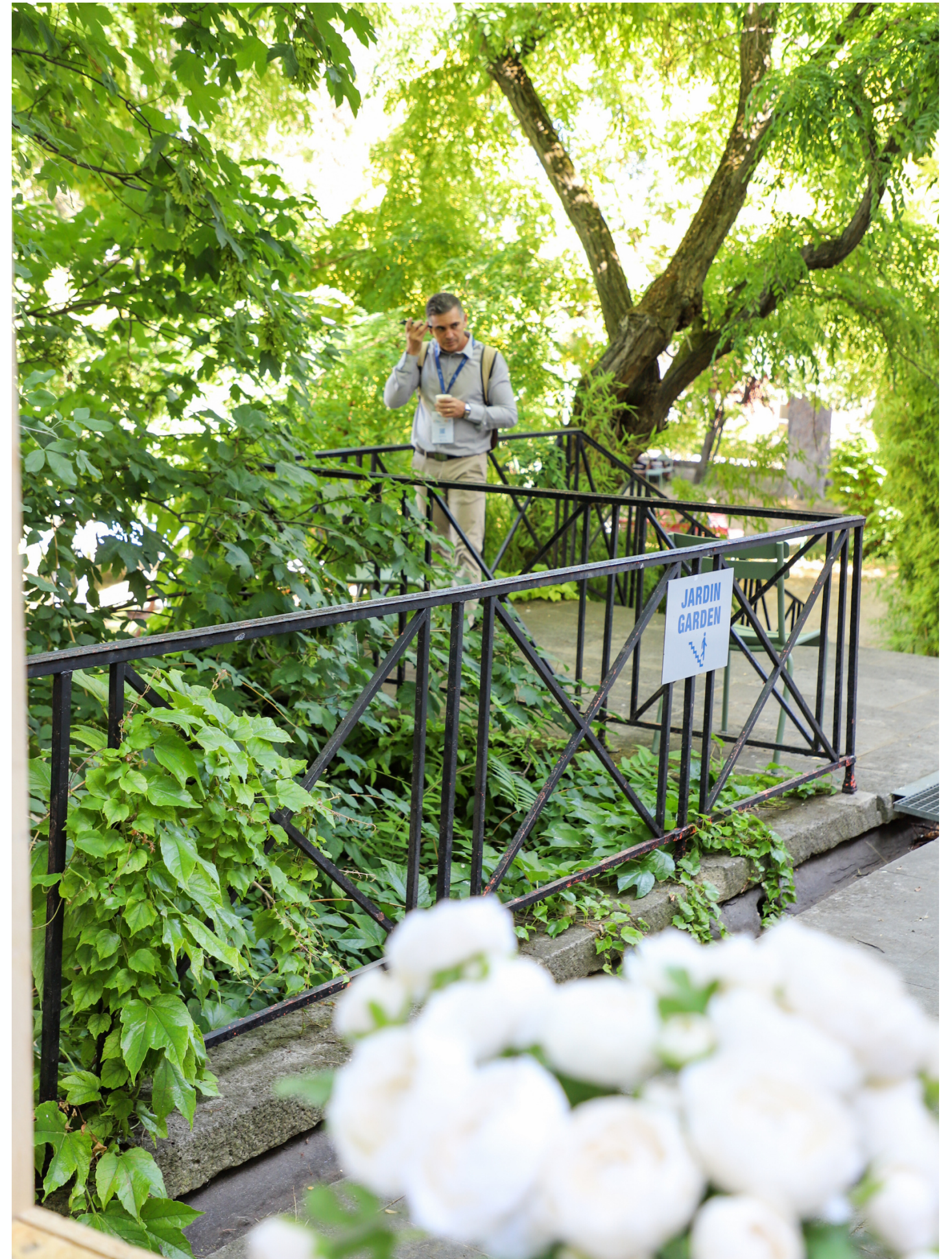
French time = UTC + 1	26 November 2 - 7:30 pm	27 November 9 - 6 pm	28 November 9 - 5 pm
	Objectives / content • 2 - 3h30 : Financing NBS - an international point of view - <i>Oxana MEGGLE, IFC (International Finance Corporation)</i> • 3h30 - 5 pm : How can NbS complement water traditional infrastructures in potable water and waste water treatment, to adapt to climate change ? <i>Grégoire DECAMPS, Véolia</i> • 5 - 7.30 pm : Get-together with international Eelisa students	Hackathon : definition topic, elaboration of solution, preliminary pitch Lunch buffet Problem definition, technical feasibility, social acceptance, cost of the solution, feasibility of maintenance and surveillance, impact analysis: coaching & feedback by associated teachers	9 am — 12 am : Hackathon : finalisation and preparation Lunch buffet 1 — 5pm : Pitch (presentation) of 6 teams Evaluation by a mixed jury, composed of professional members and professors from the partner universities.

Hybrid



Hackathon Coach

Nathalie Ferrant, Florence Roger,
Bruno Leroux, Marie Bonhomme,
Margot Waserman



TRANSPORT

You have to see with your local Eelisa Officer in order to organize your travel.



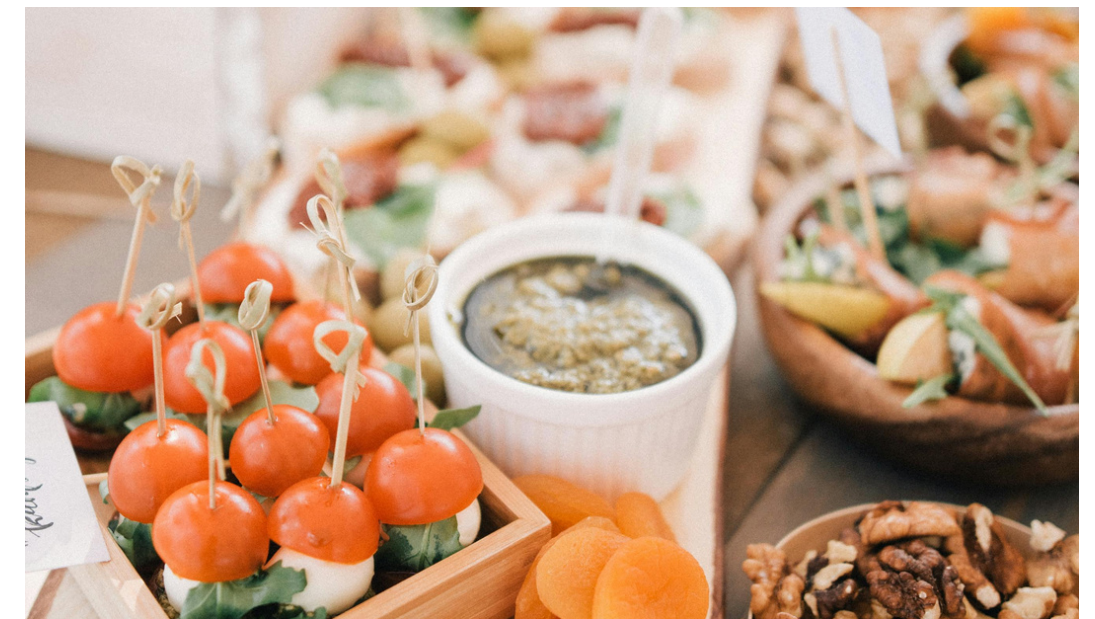
ACCOMMODATIONS

For your stay in Paris, [you will find here](#) a short list of affordable accommodations, for individuals or small groups.



MEALS

Welcome cocktail on Wednesday 6pm
Lunch buffet on Thursday and Friday
Breakfasts and dinners are not included



PRACTICAL DETAILS

LOCATION : MINES Paris-PSL — 60 Boulevard Saint-Michel, Paris 6
(RER Luxembourg)

ROOM : L312 (and Le Carreau for buffets)

CONTACTS

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