



NATURE 4 CITIES

Be Part of the Green Transition

NBS virtual forum

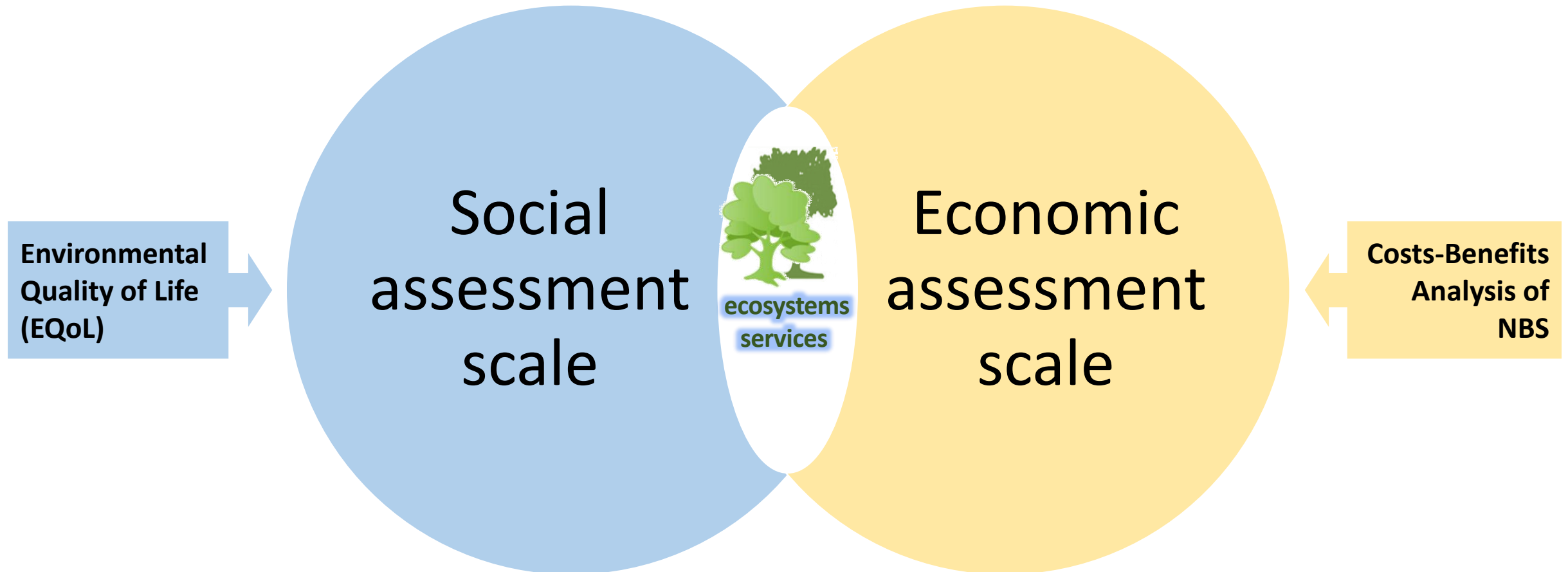


How to guarantee a project with positive financial and human impact? Nature4Cities Socio-economic assessment tools

May 20th 2020, Session 3 - Assess your NBS project



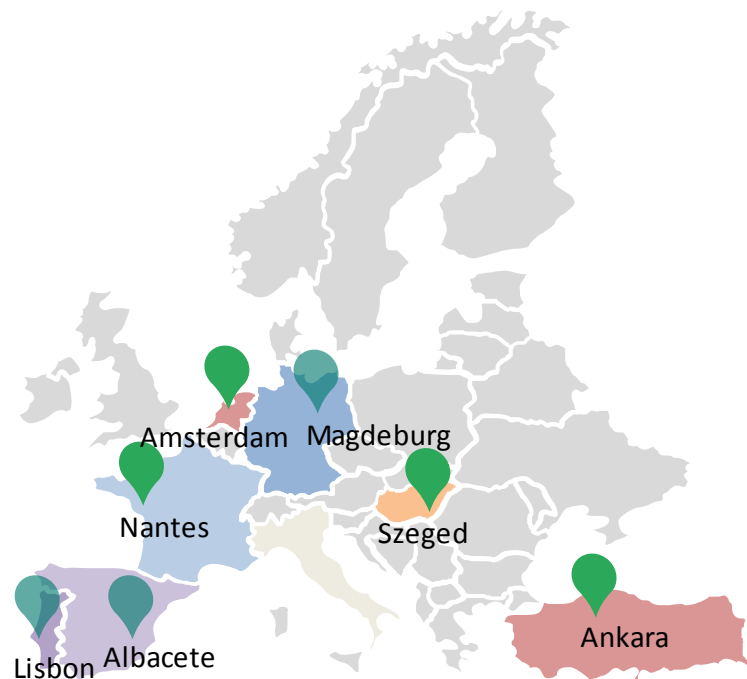
Framework for socioeconomic assessment of NBS projects





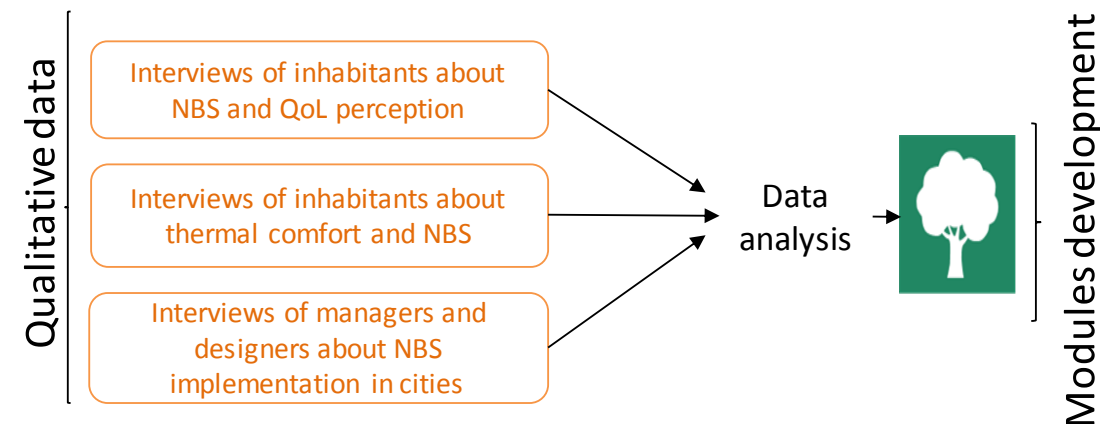
Part 1: Social Assessment (1/2)

Environmental quality of life (EQoL) is a multidimensional concept that considers the benefits of environment on physical, psychological and social dimensions of the QoL (WHO, 1998), as well as multiple aspects of the interaction between individuals and their environment (thermal comfort, noise, air quality, ambience, etc.)

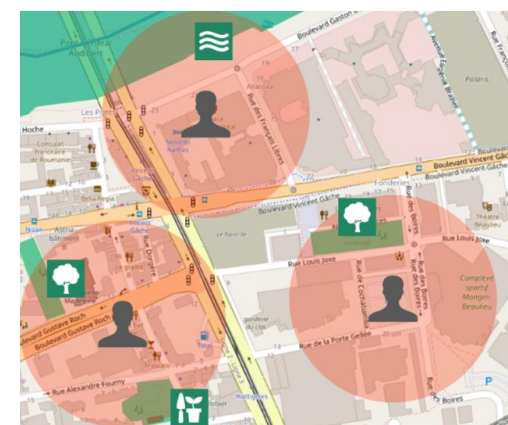


More than **1200 individual** data collected for the validation of the scale in **7 different countries**

Verification of statistic indicators of reliability and validity



Overview of the conception process of the EQoL scale

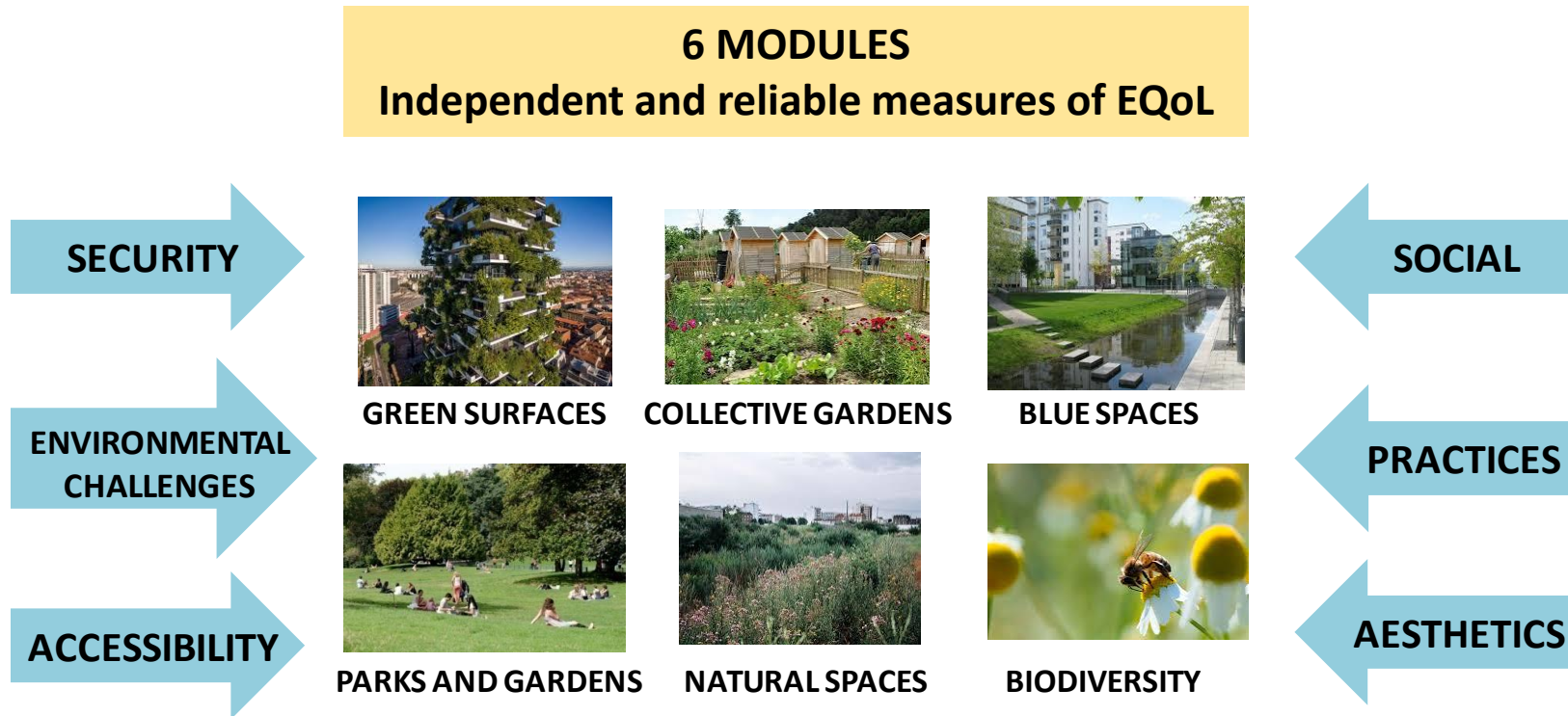


Implementation scenarios of the EQoL scale were tested in Nantes, for public parks and gardens and blue spaces independently



Part 1: Social Assessment (2/2)

EQoL is an operational tool dedicated to the **assessment of perceived benefits of NBS** in terms of **environmental quality of life**. It can deliver a global score of environmental quality of life or independent scores for each of the modules



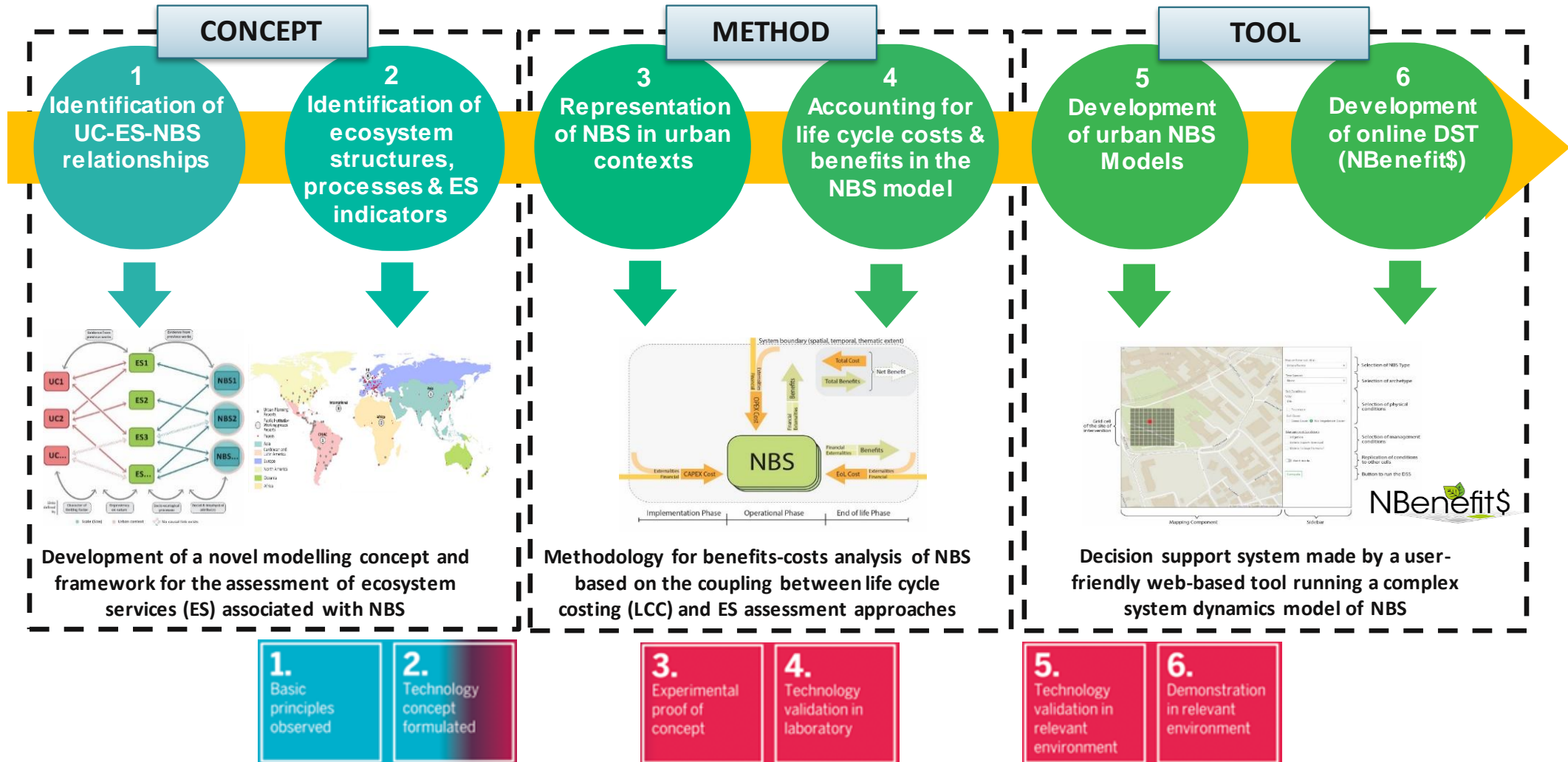
A diagnostic tool :

- ✓ To **assess the overall satisfaction** of individuals regarding their environment or existing NBS in their environment
- ✓ To **assess users' satisfaction** if a given NBS is targeted

An assessment tool :

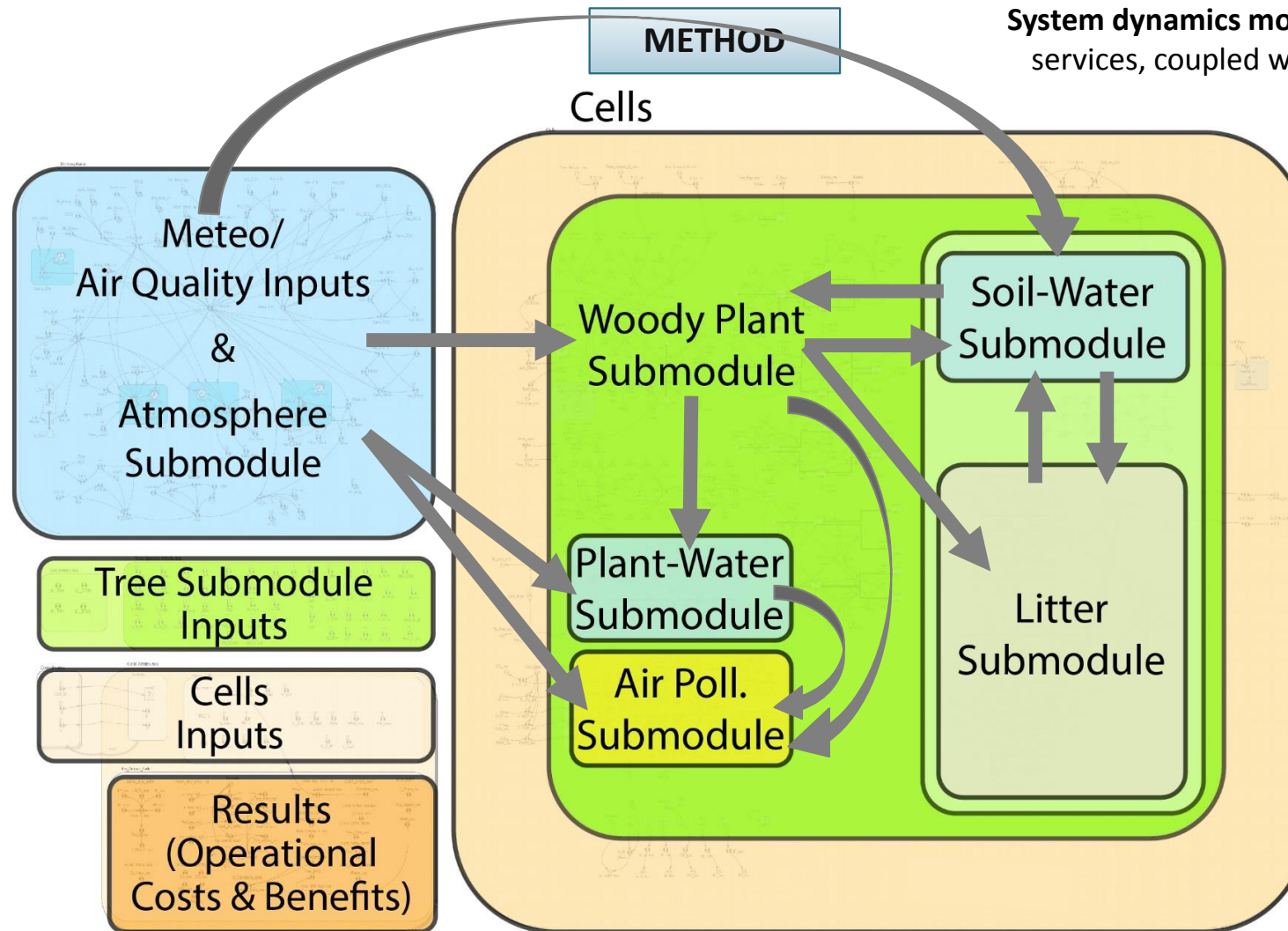
- ✓ To **measure the efficiency of an NBS** after its implementation by comparison with environmental quality of life before the NBS implementation

Part 2: Economic Assessment (1/3)





Part 2: Economic Assessment (2/3)



System dynamics modelling framework to assess ecosystem services, coupled with a **life cycle costs analysis** of the NBS





Part 2: Economic Assessment (3/3)

Decision support system to enable predictive simulations and visualisation of economic impacts associated with NBS

TOOL



[**<< Live Prototype Demo >>**](#)





Take-home message

- **Environmental Quality of Life (EQoL) scale:** survey-based solution for community and individuals well-being assessment at urban level
- **NBenefit\$:** stand-alone software solution and integrated tool within the nature4cities platform: costs-benefits assessment



How to guarantee a project with positive financial and human impact? Nature4Cities

Socio-economic assessment tools

May 20th 2020, Session 3 - Assess your NBS project



Be Part of the Green Transition

NBS virtual forum



Thanks for your attention!



Ghozlane
FLEURY



Colin
LEMÉE



Benedetto
RUGANI*



Javier
BABÍ ALMENAR



Claudio
PETUCCO



Laurent
CHION



Tomás
NAVARRETE

University of Nantes (FR)

Luxembourg Institute of Science and Technology (LU)

*Contact point: benedetto.rugani@list.lu

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730468

