

Scope of the Session: NBS in different scales

The scope of this Session is to collect information about the NBS infrastructure focusing on buildings at district and city level. Specifically, the case studies should be highlighted, emphasizing in the advantages and barriers resulting from the development of NBS. It should also be made clear how the NBS affected the human health and wellbeing and the global working potential. This session will focus on green-blue infrastructure and new materials for NBS. Three discussion exercises will be performed.

Steam Cooker



Agenda

10:10-10:25	<p>Presentation by Anna Levonmaa, Landscape Architect, UNALAB, Tampere City Planning Department</p> <p><i>Hiedanranta future city as NBS platform.</i></p>
10:25-10:40	<p>Presentation by Maria Rosario Chan, Sustainable Development, Senior Manager, Lafarge Holcim</p> <p><i>NBS case study examples at district and city level.</i></p>
10:40-10:55	<p>Presentation by Dr. Christian Artelt, Senior Manager Sustainable Construction, ECTP</p> <p><i>Concrete solutions for NBS in buildings, infrastructure, districts and at city level.</i></p>
10:55-11:10	<p>Exercise 1: Brainstorm innovative NBS techniques for sustainable urbanization in building, district & city level</p>
11:10-11:25	<p>Exercise 2: Assessment of Innovation Potential and Market Impact</p>
11:25-11:40	<p>Exercise 3: EC policy and R&I priorities</p>

Nature Based Solutions



Green Roofs
Green Walls-Green Facades
Private Gardens
Green Corridors-Street plants & Trees
Urban farms, allotments or community gardens
Urban Forests–Woodlands-Parks

Rivers or streams, including re-meandering, re-opening-Blue corridors
Sustainable Urban Drainage Systems-
Permeable Pavements

Bio-waste based Growing Materials, including mycelium

Exercise 1: Brainstorm innovative NBS techniques for sustainable urbanization

Green Infrastructure				
NBS	Environmental Goods & Services	Impact of NBS:		
		High	Medium	Low
E.g. Green Roofs Green Walls-Green Facades Private Gardens Green Corridors-Street plants & Trees Urban farms, allotments or community gardens Urban Forests–Woodlands-Parks	Air Quality			
	Reduced Energy Needs			
	Urban Heat Island Reduction			
	Public Health & Well Being			
	Economic Opportunities			
Blue Infrastructure				
NBS	Environmental Goods & Services	Impact of NBS:		
		High	Medium	Low
E.g. Rivers or streams, including re-meandering, re-opening- Blue corridors Sustainable Urban Drainage Systems-Permeable Pavements	Reduced Energy Needs			
	Urban Heat Island Reduction			
	Public Health & Well Being			
	Economic Opportunities			
Materials				
NBS	Environmental Goods & Services	Impact of NBS:		
		High	Medium	Low
E.g. Bio-waste based Growing Materials, including mycelium	Reduced Energy Needs			
	Urban Heat Island Reduction			
	Public Health & Well Being			
	Economic Opportunities			

Exercise 2: Assessment of Innovation Potential and Market Impact

	Technology Readiness Level (standard design and build, not yet widely used, unproven)			
Scale of Potential Impact (financial, geographical, disruption)		Standard Practice	Needs wider testing	Proof-of-Concept Needed
	Global, mainstream, multiple benefits etc.			
	European, common practice, etc.			
	Local, Regional, targeted, etc.			

Exercise 3: EC policy and R&I priorities

Policy barriers to mainstreaming	
Standard Practice	Needs wider testing
R&I opportunities to accelerate high impact, low-readiness techniques	
Needs wider testing	Proof-of-Concept Needed