

NBS EduWORLD - Project Education Learning Unit Overview

Prepared by: Prof. Gemma Donnelly-Cox, Dr Conor Dowling, Dr Maria Gallo - Trinity Business School Learning Unit (LU) Planning Template - High Level Overview

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Name of Lear	ning Unit (LU)						
Topic	imig omit (20)	Pocket Parks (2250				
ТОРІС		Other	Jase I		T		1
	NBS keywords complete	Keywords	Linked or complementary	Prior learner		Key EU NBS	Type of LU -
NBS Context (e.g. urban	the end of the document	(topics other than NBS) add in Other	concepts to NBS (to assist curriculum	knowledge of NBS (high, moderate,	Prior instructor knowledge/ skills/ competences of NBS or	resources used (for instructor preparation)	lecture, workshop, field trip/site
rural, coastal)		<u>below</u>	integration)	low/none)	equivalent	include link	visit
any				moderate	moderate		Lecture
Target academic subject / discipline / professional area or group	Target learners/ groups [age range of learners] if applicable	Min/ Max # of learners (if applicable)	Sector (e,g, professional, higher education, community)	Prerequisites required of learners if applicable (education)	EQF (European Qualifications Framework) level (or Irish NFQ) indicative only	Time for LU (aim is 50 minutes per learning unit	Course delivery format (e.g. in- person, hybrid, online)
General	Undergraduate	n/a	professional or higher education		EQF 6 - Irish NFQ 7/8 Ordinary/H	50 minutes	Hybrid
Overall Purpose			ks as a Nature-Ba	,	S) to enhance urban sustainability. f green space. The session empha		
LU Summary (2-3 sentences)	Pocket parks are small, accessible green spaces integrated into urban environments that provide critical environmental, social, and health benefits. This session will explore how EU-funded projects contribute to the creation of pocket parks, the role of community stewardship, and the best practices for ensuring the long-term success and sustainability of these spaces.						
Learning Outcome 1	Understand the concept of pocket parks and their benefits for urban sustainability, climate adaptation, and social well-being.						
Learning Outcome 2	Identify and analyze EU-funded projects that focus on creating and maintaining pocket parks in urban areas.						
Learning Outcome 3		Evaluate the challenges and opportunities of implementing pocket parks and the role of community engagement and stewardship in their long-term success.					
Learning Outcome 4							

Activities and Elements of Learning

Aim that each learning unit include at least 4 activities for an interactive learning experience

							Offline
						Link to online NBS	resources
	Aims - linked		Learning	Teacher action/		resources (and/or	and
	to NBS	Link to	Activity	activity	Confirmation of learner's	academic	materials
Time (duration	concepts or	Learning	[PPT Slide # -	(Learner	learning (assessment of	resources with	(e.g. post-
of activity)	topics)	Outcome	if applicable]	action/activity)	learning)	DOI as relevant)	its,)
15 minutes	Introduce	1	Introduction to	Define pocket	In class discussion are designed		Post-it notes
	pocket parks as		pocket parks	parks and	to engage students; Learners		for a
	a Nature-Based		and their role in	explain their role	respond to the questions and the		brainstormin
	Solution (NBS)		•	in reducing	teacher will determine		g exercise on
	and explain		[Slides 3-5].	urban heat	understanding from their		NBS
	their			islands,	responses		concepts and
	environmental			enhancing			how they
	and social			biodiversity, and			might apply to
	benefits.			improving mental			local urban
				well-being.			challenges.
				Discuss how			
				pocket parks			
				create spaces			
				for recreation,			
				social			
				interaction, and			
				community			
				engagement in			
				urban areas.			

15 minutes	Explore EU- funded projects focusing on pocket parks and their integration into urban areas.	2	EU-funded projects like Urban GreenUP, Go Green Routes, and Green4CITIES [Slides 6-10].	creation and management of pocket parks in urban environments. Discuss how these projects incorporate green spaces	Group exercise where students are tasked with analyzing one of the presented EU projects and discussing its impact on climate resilience and urban sustainability designed to engage students; Learners respond to the questions and the teacher will determine understanding from their responses	Post-it notes for a brainstorming exercise on NBS concepts and how they might apply to local urban challenges.
				into cities for biodiversity, public health, and community engagement.		
15 minutes	Analyze the challenges and opportunities of creating and maintaining pocket parks in urban areas.	3	of pocket parks [Slides 11-14].	Lead a SWOT analysis (Strengths, Weaknesses, Opportunities, Threats) on the implementation of pocket parks, focusing on factors like space constraints, funding, and community buyin. Discuss how public-private partnerships, community engagement, and EU funding can overcome challenges and promote successful implementation.	In class discussion are designed to engage students; Learners respond to the questions and the teacher will determine understanding from their responses	Post-it notes for a brainstorming exercise on NBS concepts and how they might apply to local urban challenges.

5 minutes	Wrap up the	1, 2, 3	Open	Open the floor	Teacher will ask follow-up	NA
	session and		Discussion	for questions and	questions based on students'	
	ensure that all			provide	responses to ensure key learning	
	key learning			clarifications on	outcomes have been achieved.	
	points have			the challenges,	Give instant feedback on	
	been			opportunities,	students' ability to connect NBS	
	understood.			and benefits of	concepts with real-world	
				pocket parks.	applications.	
				Encourage		
				students to		
				reflect on how		
				pocket parks can		
				contribute to		
				urban		
				sustainability and		
				community well-		
				being.		

NBS- Application of Curriculum, Trends and Skills

Curriculum				
integration (how				
it may connect				
to curriculum)				
	Drainet hand			
	Project-based			
	learning: e.g.,			
	students work			
	in groups on a			
	research			
	project on			Student-
	greenhouses		Problem-based	
	and the	Peer	Learning : e.g.,	learning: the
	greenhouse	learning: e.g.,	students are	learning
Teaching &	effect,	students work	introduced to a	scenarios are not
<u>Learning</u>	alternatives to	in groups,	problem and	based on
<u>Trends</u>	waste	evaluate the	challenged to	classical
employed	management or	work of their	find a solution	instruction by the
		peers, or	together based	teacher, but they
Highlight all	what are the	develop	on the	are expected to
that apply	views of their	assessment	information	actively engage
	peers on	questions to	provided to	students in the
(Source)	climate change.		them.	lessons.

	Creativity: e.g.,			Critical	
	students think of various	Information/		thinking: e.g., students learn	
	solutions for promoting a	Media literacy:		that a debate on deforestation or	
21st Century Skills	better lifestyle	students explore	Collaboration: e.g., students	climate change does not consist	
	communities or	examples of	work in groups	of two opposing	
Highlight all that apply	encourage greener		and engage in task division to	camps only but involves many	Communication: e.g., students
	solutions to their schools'	solutions in other	produce outputs.	stakeholders with different	present their work to the whole class and learn to put forth strong
(Source)*	issues.	communities.		perspectives.	arguments based on facts.

*Gras-Velázquez, À., Mulvik, I. B., Campodonio, A., Nada, C. & Pocze, B. (2020) Nature-Based Solutions in education - Validation report, European Commission, August 2020 [accessed on 25/03/2024 https://files.eun.org/NBS/NBS-pilot-validation-report-final.pdf] p.8.

						2.2 Droblem
						2.3 Problem
						Solving: To
			1.3 Promoting			formulate current or
GreenComp -			Nature: To			potential challenges
European	1.1 Valuing		acknowledge	2.1 Systems		as a
Sustainability	Sustainability:		that humans are	Thinking: To		sustainability
Competency	To reflect on		part of nature;	approach a		problem in terms of
Framework	personal	1.2 Support	and	sustainability		difficulty, people
Highlight all	values; identify	Fairness: To	to respect the	problem from all		involved, time and
that apply	and explain	support equity	needs and	sides; to		geographical scope,
	how values vary	and justice for	rights of other	consider time,	2.2 Critical Thinking: To assess	in order to
(Source) 1-	among people	current and	species and	space and	information and arguments,	identify suitable
Embodying	and over time,	future	of nature itself	context in order	identify	approaches to
Sustainability	while	generations	in order to	to understand	assumptions, challenge the	anticipating and
Values and 2 -	critically	and learn from	restore and	how elements	status quo, and reflect	preventing problems,
Embracing	evaluating how	previous	regenerate	interact within	on how personal, social and	and to mitigating and
Complexity in	they align with	generations	healthy and	and	cultural backgrounds	adapting
Sustainability	sustainability	for	resilient	between	influence thinking and	to already existing
(see pp.13-14)	values	sustainability	ecosystems	systems.	conclusions.	problems

	l					
		3.2				
		Adaptability:				
		To manage				
		transitions and				
		challenges in				
	3.1 Futures	complex				
GreenComp -		sustainability situations and				
European	Literacy: To envision	make	3.3 Exploratory			
Sustainability	alternative	decisions	Thinking: To			
Competency	sustainable	related	adopt a	4.1 Political		
Framework	futures by		relational way of			
Highlight all	imagining and	the face of	thinking by	navigate the		
that apply	developing	uncertainty,	exploring	political system,		
ши ирр.у	alternative	ambiguity	and linking	identify political		4.3 Individual
(Source) 3-	scenarios and	and risk.	different	responsibility and		Initiative: To identify
Envisioning	identifying the	generations	disciplines,	accountability for		own potential for
sustainable	steps needed to	0		unsustainable		sustainability and to
futures and 4 -	achieve a	previous	and	behaviour, and		actively contribute to
Acting for	preferred	generations	experimentation	demand effective	4.2 Collective Action: To act for	improving prospects
Sustainabilty	sustainable	for	with novel ideas	policies for	change in collaboration with	for the community
(see pp.13-14)	future.	sustainability	or methods.	sustainability.	others.	and the planet
	Centre for Socia	I Innovation - Tr	inity Business Sc	hool, Trinity Colleg	e Dublin	
Author and						
organisation to						
credit when						
using the LU						

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NBS Keywords
Checklist (tick
here helow)

<u> </u>	
	Forest Preservation
	Forest Restoration

	Learner
	Resources
	(e.g.
	academic
	articles or
Teacher Resources	links) for
(If 'Notes' are used	advanced
in the related	reading or
PowerPoint	review
presentation	(citation in
please indicate	individual
here)	cells)
	NBS

Faivre et al (2017) NBS and the

	Forest enhanced management for woodfuel harvest
	Forest Production
	Grassland Preservation
	Grassland Restoration
	Grassland grazing management
	Coastal Preservation
	Coastal Restoration
	Coastal maintenance of slope vegetation
	Maintenance of coastal, floodplain and riverine vegetation
	Agroforestry
	Reduce tillage and carbon restoration practices
	Agricultural intensificiation
	Urban forests and green spaces
	Urban green roofs
Х	Climate-change adaptation and mitigation
Х	Sustainable cities/ sustainable communities
Х	Re-naturing cities/ re-naturing communities
х	Urban regeneration
х	Coastal resilience
	Multi-functional watershed management
	Enhancing the insurance value of ecosystems
	Sustainability of the use of matter and energy
Х	Sustainable development
Х	Innovating with nature
Х	Biodiversity
Х	Nature-based enterprises
Х	Nature-based enterpreneurship
Х	NBS and new business and investment models
Х	Citizen participation, stakeholder/community consultation
Х	Disaster risk reduction
	Risk management and resilience
х	NBS policy development and implementation
	NBS research
	Green infrastructure
	Green finance / sustainable finance
X	Ecosystem services and ecosystem-based approaches

	Rural municipal/local authority/	Rural municipal/local authority/government planning			
Х	Coastal municipal/local authori	Coastal municipal/local authority/government planning			
х	Urban municipal/local authority	Urban municipal/local authority/government planning			
	Improving well-being and quali	Improving well-being and quality of life			
х	NBS and new business and inv	NBS and new business and investment models			
	NBS and CCAM (Connected, 0	NBS and CCAM (Connected, Cooperative and Automated Mobility)			
	Other 1: (Please specify)	nature-inspired innovations			
	Other 2: (Please specify)				
	Other 3: (Please specify)	Other 3: (Please specify)			

Keywords Source 1: United Nations Environment Programme (2020). The Economics of Nature-based Solutions: Current Status and Future Priorities. United Nations Environment Programme Nairobi., p.5. (keywords above in italics)

Keywords Source 2: Faivre N, Fritz M, Freitas T, de Boissezon B, Vandewoestijne S. (2017)'Nature-Based Solutions in the EU: Innovating with nature to address social, economic and environmental challenges.' Environ Res. 2017 Nov;159:509-518. doi: 10.1016/j.envres.2017.08.032. Epub 2017 Sep 8. PMID: 28886502.

Keywords Source 3: European Commission (2015). Towards an EU Research and Innovation policy agenda for Nature-Based Solutions & Re-Naturing Cities: Final Report of the Horizon 2020 Expert Group on 'Nature-Based Solutions and Re-Naturing Cities' Full Version. Luxembourg: Publications Office.