NBS EduWORLD - Project Education Learning Unit Template - DRAFT

Prepared by: Dr. Siobhan McQuaid, Horizon Nua & Trinity Business School - Last revision 8th November 2024

Learning Unit (LU) Planning Template - High Level Overview

Name of Learning Unit (LU) Topic					Measuring Impact for Nature-based Enterprise (PART I: TERMINOLOGY AND STRATEGY)		
NBS Context (e.g. urban rural, coastal)	NBS keywords **complete checklist at the end of the document**	Other Keywords (topics other than NBS) **add in Other below**	Linked or complementary concepts to NBS (to assist curriculum integration)	Prior learner knowledge of NBS (high, moderate, low/none)	Prior instructor knowledge/ skills/ competences of NBS or equivalent	Key EU NBS resources used (for instructor preparation) include link	Type of LU - lecture, workshop, field trip/site visit
any	NbE		Professional development	low	Low		Lecture
Target academic subject /	Target learners/ groups [age range of	Min/ Max # of learners	Sector (e,g, professional, higher	Prerequisites required of learners if	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-
Business Sustainability	Professional	n/a	Professional	None	EQF 6 - Irish NFQ 7/8 Ordinary/H	50 minutes	Online
Purpose	To learn about how Nature-based Enterprises can measure their impact						
LU Summary (2-3 sentences)	Measuring impact is important for all businesses in order to secure customers, financing and investment and to measure progress towards the companies mission and objectives. Nature-based enterprises identify measuring impact as a key priority but also a significant challenge. In this lesson, we explore the terminology around measuring impact, potential impact indicators, strategies and tools to measure impact. Participants will reflect and apply the learning to develop an impact measurement strategy for their own business.						
Learning Outcome 1	Understand the importance of measuring impact for NBEs, the challenges faced and the underlying terminology						
Learning Outcome 2	Explore the different steps of a framework for measuring impact						
Learning Outcome 3	Apply the framework for measuring impact to the learners own environment						

LU designer resources for writing learning outcomes (click Learning Outcomes - Using Taxonomies tab or pyramid here)

Activities and Elements of Learning

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

Time (duration of activity)	Aims - linked to NBS concepts or topics)	Link to Learning Outcome	Learning Activity [PPT Slide # - if applicable]	Teacher action/ activity (Learner action/activity)	Confirmation of learner's learning (assessment of learning)	Link to online NBS resources (and/or academic resources with DOI as relevant)	Offline resources and materials (e.g. post-its,)
00:20 (25 min)	Understand the importance of measuring impact for NBEs, the challenges faced and the underlying terminology	1	#3-16	Present context, challenges and key terminology	Learning asssessed through interactive activities described below.	See resources below.	
5 minutes - incorporated into timing above	Understand the importance of measuring impact for NBEs, the challenges faced and the underlying terminology	1	Online poll (#4) and discussion activities (#12)	Present context, challenges and key terminology	Use of online polls (#4) and discussion activities (#12) to assess learning.		Online polls & chat function
00:40 (20 min)	Explore the different steps of a framework for measuring impact	2	#17-29	Present a 5 step framework for measuring impact, illustrating key steps with examples and supporting tools	The final exercise applies the learning		
00:50 (10 minutes)	Apply the framework for measuring impact to the learners own environment	3	#30	Pair and share or group activity to apply learning	Apply the framework for measuring impact to the learners own environment		Break-out room function (online)

NBS- Application of Curriculum, Trends and Skills

Curriculum integration (how it may connect to curriculum)					
Teaching & Learning Trends employed **Highlight all that apply** (Source)	**Project-based learning**: e.g., students work in groups on a research project on greenhouses and the greenhouse effect, alternatives to waste management or investigate what are the views of their peers on climate change.	**Peer learning:** e.g., students work in groups, evaluate the work of their peers, or develop assessment questions to assess peers.	**Problem-based Learning**: e.g., students are introduced to a problem and challenged to find a solution together based on the information provided to them.	**Student-centred learning:** the learning scenarios are not based on classical instruction by the teacher, but they are expected to actively engage students in the lessons.	
21st Century Skills **Highlight all that apply** (Source)*	**Creativity:** e.g., students think of various solutions for promoting a better lifestyle in their communities or encourage greener solutions to their schools' issues.	**Information/ Media literacy:** students explore examples of NBS, research similar solutions in other communities.	**Collaboration:** e.g., students work in groups and engage in task division to produce outputs.	**Critical thinking:** e.g., students learn that a debate on deforestation or climate change does not consist of two opposing camps only but involves many stakeholders with different perspectives.	**Communication:** e.g., students present their work to the whole class and learn to put forth strong arguments based on facts.

GreenComp - European Sustainability Competency Framework **Highlight all that apply** (Source) 1-Embodying Sustainability Values and 2 - Embracing Complexity in Sustainability (see pp.13-14)	**1.1 Valuing Sustainability:** To reflect on personal values; identify and explain how values vary among people and over time, while critically evaluating how they align with sustainability values	**1.2 Support Fairness:** To support equity and justice for current and future generations and learn from previous generations for sustainability	**1.3 Promoting Nature:** To acknowledge that humans are part of nature; and to respect the needs and rights of other species and of nature itself in order to restore and regenerate healthy and resilient ecosystems	**2.1 Systems Thinking:** To approach a sustainability problem from all sides; to consider time, space and context in order to understand how elements interact within and between systems.	**2.2 Critical Thinking:** To assess information and arguments, identify assumptions, challenge the status quo, and reflect on how personal, social and cultural backgrounds influence thinking and conclusions.	**2.3 Problem Solving:** To formulate current or potential challenges as a sustainability problem in terms of difficulty, people involved, time and geographical scope, in order to identify suitable approaches to anticipating and preventing problems, and to mitigating and adapting to already existing problems
GreenComp - European Sustainability Competency Framework **Highlight all that apply** (Source) 3-Envisioning sustainable futures and 4 - Acting for Sustainabilty (see pp.13-14)	**3.1 Futures Literacy:** To envision alternative sustainable futures by imagining and developing alternative scenarios and identifying the steps needed to achieve a preferred sustainable future.	**3.2 Adaptability:** To manage transitions and challenges in complex sustainability situations and make decisions related to the future in the face of uncertainty, ambiguity and risk. generations and learn from previous generations for sustainability	**3.3 Exploratory Thinking:** To adopt a relational way of thinking by exploring and linking different disciplines, using creativity and experimentation with novel ideas or methods.	**4.1 Political Agency:** To navigate the political system, identify political responsibility and accountability for unsustainable behaviour, and demand effective policies for sustainability.	**4.2 Collective Action:** To act for change in collaboration with others.	**4.3 Individual Initiative:** To identify own potential for sustainability and to actively contribute to improving prospects for the community and the planet

Author and organisation to credit when using the LU	Centre for Social Innovation, Trinity Business School, Trinity College Dublin

Teacher Resources (If 'Notes' are used in the related PowerPoint presentation please indicate	**Learner Resources (e.g. academic articles or links) for**

NBS Keywords Checklist (tick here below)

x	*Forest Preservation*	CIPE (n.d.). *Logical framework for ev*
x	*Forest Restoration*	Amani Institute (2022). *Setting your s*
	Forest enhanced management for woodfuel harvest	Right There (n.d.). Accessed from: ht
	Forest Production	Social enterprise toolkit (n.d.). *Chapte*
	Grassland Preservation	Impact Europe (2024). How to do imp
	Grassland Restoration	Institute for Social Value (n.d.). *SROI*
	Grassland grazing management	European Commission: Directorate-G
x	*Coastal Preservation*	Gov.uk (n.d.). *Biodiversity Net Gain.*
x	*Coastal Restoration*	European Commission (2014). Propo
	Coastal maintenance of slope vegetation	
	Maintenance of coastal, floodplain and riverine vegetation	
x	*Agroforestry*	
x	*Reduce tillage and carbon restoration practices*	
	Agricultural intensificiation	
	Urban forests and green spaces	
x	*Urban green roofs*	
x	Climate-change adaptation and mitigation	
x	Sustainable cities/ sustainable communities	
x	Re-naturing cities/ re-naturing communities	
	Urban regeneration	
x	Coastal resilience	
	Multi-functional watershed management	
	Enhancing the insurance value of ecosystems	
	Sustainability of the use of matter and energy	
x	Sustainable development	
x	Innovating with nature	

x	Biodiversity	
x	Nature-based enterprises	
x	Nature-based enterpreneurship	
	NBS and new business and investment models	
x	Citizen participation, stakeholder/community consultation	
x	Disaster risk reduction	
x	Risk management and resilience	
x	NBS policy development and implementation	
x	NBS research	
x	Green infrastructure	
	Green finance / sustainable finance	
x	Ecosystem services and ecosystem-based approaches	
	Rural municipal/local authority/government planning	
	Coastal municipal/local authority/government planning	
	Urban municipal/local authority/government planning	
x	Improving well-being and quality of life	
x	NBS and new business and investment models	
	NBS and CCAM (Connected, Cooperative and Automated Mobility)	
	Other 1: (Please specify)	Restorative Ecology
	Other 2: (Please specify)	
	Other 3: (Please specify)	

aluation. Accessed from: https://ppd.cipe.org/tools/ppd-handbook/d-monitoring-and-evaluation-framework-for-ppd/d-6-eva

General for Research and Innovation, Evaluating the impact of nature-based solutions – A handbook for practitioners, Publi

sed Approaches to Social Impact Measurement. Accessed from: https://social-economy-gateway.ec.europa.eu/document/