Social Proofing of Circular Solutions Workshop

Workshop overview

The third and last workshop of the Social Experiment on Circular Economy in Construction and Buildings, entitled *Social Proofing of Circular Solutions* was successfully hosted on the 1st of March 2024.

During the workshop our partners and stakeholders had the opportunity through an interactive process to discuss in detail, assess from many different angles and provide feedback for the 3 value propositions (Public digital registry for construction and demolition waste, Outsourced Market Surveillance and Compliance Assessment Process on Circular Projects, Digital Circular construction tool kit for the design of circular construction projects), drafted during the 2nd workshop.

The 3 suggested solutions were drafted to support overcoming constraints and barriers, as well as incentivizing or facilitating the aspects of collaboration, legislation/policy, and market.



Workshop elements and structure

The 3rd workshop began with an overview of the 1st and 2nd workshop, to align all participants, regardless if they took part or not in the previous sessions, and connect the outcomes of the previous workshops to the 3rd workshop.

The 3 value propositions were presented to a wide audience of Circular Economy and Sustainability experts as well as all stakeholders who took part in the drafting process during the previous workshops.

In particular, the 3 value propositions which have been proposed were:

- 1. Public digital registry for construction and demolition waste
- 2. Outsourced Market Surveillance and Compliance Assessment Process on Circular Projects
- 3. Digital Circular construction tool kit for the design of circular construction projects

To extract feedback from different perspectives, Bono's hats method was used. Through open discussions and brainstorming both the positives as well as the negatives of each solution were addressed. Furthermore, the participants were asked to think beyond the proposed solutions and generate creative ideas, for possible alternatives and additions that could improve the solutions.

Following the Bono's hats process, a digital survey was conducted for each solution, whereas attendees were asked to assess the solutions against 5 criteria: Innovation, Circularity/ Sustainability, Feasibility, Inclusiveness and Collaboration.



Workshop outputs

Value proposition 1:

Public digital registry for construction and demolition waste

Customer Profile: A construction company which needs to manage construction and demolition waste at source.



Our value proposition...

Our	Publicly available Digital registry for construction
	and demolition waste
Helps	construction and demolition companies
Who want to	efficiently segregate at source and manage their
	construction and demolition waste
Ву	providing easy access to information and secondary
	materials, improving trust and reducing cost
And	Creating added value to secondary materials,
	supporting economies of scale, improving waste
	quality and thus market value.

Social sciences & Humanities for Achieving a Responsible, Equitable and Desirable GREEN DEAL

SHARED GREEN DEAL



	Can create new revenue streams for contractors and waste
	management operators.
Yellow hat	Offers an opportunity to reduce landfilling.
	Can support structured inventorying of waste.
	A starting point for trust and leadership
	A starting point for culture change
Positives, plus points; why	Promotes collaboration between stakeholders of the
an idea is useful.	construction industry and also cross sector collaboration.
	Can reduce costs in waste management.
	Can save energy related to the transportation of waste at
	management facilities.
	Can support the reduction of use of virgin material.
	Can improve the environmental profile of construction
	industry, the country and support the transition to CE.
	Can create new business and job opportunities.
	Can create a new market of secondary material.
	Can create research and development opportunities for
	academia.
	Can contribute to the reduction of waste and GHGs.
	Can reduce costs by taking out mediators and by creating
	economies of scale.
Green hat	Include photos for materials.



Ideas, alternative, possibilities; solutions to

BH problems

Create a support call centre.

Offer online booking of the materials.

Ensure Liability of the platform.

Required by regulations or Procurement processes.

Provide wate statistical data.

Capacity to serve small scale construction projects

Provide quality control results by laboratory testing.

Consider Tax incentives benefits.

Make segregation at the source mandatory to promote the use of the platform.

Connection of registry with existing regulatory framework related to the management of the construction waste.

Connection with the regulatory framework for urban planning permission.

Create a mobile application.

Set time limits on availability.

Option to get notifications matching requests.

Set minimum material entry requirements.

Sort input materials by category, classification & potential applications.

Create a modular tool with a narrow scope at the beginning and expand in the future.

Possible connection with the electronic record of demolition quantities (required by law).

Make use of the platform mandatory.
Use AI tools for visual recognition and segregation.

Assessment-Analysis for Value proposition 1











Value proposition 2:

Outsourced Market Surveillance and Compliance Assessment Process on Circular Projects

Customer Profile: An industry that wants to build/set up a circular asphalt factory in a community in Cyprus.



Our value proposition...



					DLAL
Our			Outsourced Market Surveillance and Compliance Assessment Process on Circular Projects		
	Helps		The Government & Competent Authorities	Industry stakeholders	
	Who	want to	ensure legal compliance & effective market surveillance on circular projects	promote circular practices and invest in improving their final products	
	Ву		enforcing a regular inspection/assessment program	increasing their trust and motivation	
	And		ensuring compliance with relevant legislation.	helping them gain a competitive advantage against non-complain industry players.	t
			Social sciences & Humanities for Achieving a Res	sponsible Equitable and Desirable GREEN DEAL	

	Investments Opportunities for verifiers
	Supports optimisation of legal framework
	Promotion of circular national products
	Circular development to be part of regulatory framework for
	urban planning permission.
	Compliance through a standardised procedure
Green hat	Create Experts Registry
	Steering Committee Audit for transparency and integrity
	Creation of relevant supporting/establishing Regulatory
	framework
Ideas, alternative,	Accreditation of professional qualifications of verifiers
possibilities; solutions to	Governance committee members profiles through
BH problems	Stakeholder engagement/open public consultation

Assessment-Analysis for Value proposition 2





Integrates sustainable and circular practices.

Maximizes resource efficiency.

Maximizes reuse and repurposing.

Minimizes the use of virgin materials.

Envisages waste reduction.









Value proposition 3:

Digital Circular construction tool kit for the design of circular construction projects

Customer Profile: A Business (Designers of construction projects/products) that wants to design a competitive construction circular product/circular building or infrastructure project.



Social sciences & Humanities for Achieving a Responsible, Equitable and Desirable GREEN DEAL

SHARED

GREEN

Our value proposition...

		DEAI	
Our	Digital Circular construction toolkit		
Helps	Businesses during the design phase		
Who want to	design a competitive circular construction product/project.		
Ву	Supporting structured circular design process		
And	Thus, facilitating the development of circular construction projects		

Social sciences & Humanities for Achieving a Responsible, Equitable and Desirable GREEN DEAL

Black hat	Difficult to access the level of circularity and have
	comparable results between projects.
Difficulties, weaknesses, dangers; spotting the	The scope of the toolkit is too wide. Risk of Misconception and Greenwashing Risk of increasing project embedded costs (e.g. design for durability) High cost of investment for the development and
risks.	maintenance of the toolkit
	Lack of material availability data, circularity data and benchmark Lack of knowhow regarding circular design by majority of designers/ engineers Requires significant training for toolkit users. Unspecified how to compare new products/ Lots of assumptions

Yellow hat	Minimises the use of virgin material.
	Promotes Circular practices/strategies.
	Value adding for secondary materials.
	Supports access to financing.
	Supports Net-Zero buildings.
Positives, plus points; why	Helps minimise carbon taxes.
an idea is useful.	Supports the Market for circular products/projects.
	Help achieve national targets regarding CE
Green hat	Define a specific scope of the toolkit.
	Enable feedback collection from users.
	Include financial data for project budgeting.
	Provide levels of circularity for suggested materials/ products
Ideas, alternative, possibilities; solutions to	Include more design aspects for e.g. modularity/
BH problems	disassembly/ decommissioning.
	Connect toolkit with government subsidy schemes and
	incentives e.g. lower VAT or interest rates.
	Make the tool applicable for renovation and refurbishment
	of buildings.
	Include criteria for Certification for circular projects/ products.
	Connection with the digital registry for construction and
	demolition waste (group collaboration value proposition)

Design Requirements to be clearly defined (standards or
code) to quantified parameters.
To help you design multi-functional spaces.

Assessment-Analysis for Value proposition 3



How circular and sustainable is the solution:





How Inclusive is the solution:





Overall Assessment of Value Propositions

	Innovative	Circular & sustainable	Collaboration	Inclusive	Feasible
VP 1	63.53%	75.29%	70.59%	38.75%	54.41%
VP 2	53.85%	33.33%	78.85%	38.00%	50.00%
VP 3	70.00%	70.00%	67.86%	41.54%	48.21%

A report will be drafted for each value proposition elaborating on the key aspects of each one. Based on the results of workshop 3 the three value propositions will be awarded according to their most high scoring attitudes

