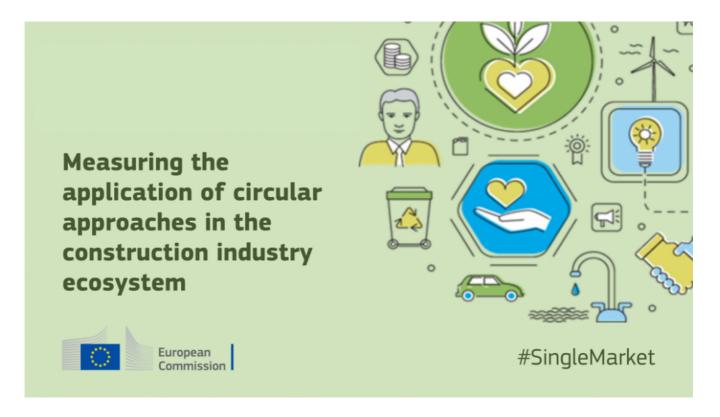
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Date: 31/03/2023 15:21:41

Targeted survey | Study on measuring the application of circular approaches in the construction industry ecosystem

Fields marked with * are mandatory.



Targeted survey | Study on measuring the application of circular approaches in the construction industry ecosystem

Did you know that 36% of the total waste generation in the EU comes from construction waste? And that waste generation is predicted to increase by 70% by 2050 compared to current levels? Yet, it's difficult to measure what the construction ecosystem is doing to address this problem. In order to fully reap the benefits of circular economy, we need a good view of the application of different circular economy approaches and indicators by different stakeholders across the value chain.

To address this challenge, we are working on a Study on measuring the

application of circular approaches in the construction industry ecosystem (https://eismea.ec.europa.eu/news/study-measuring-application-circularapproaches-construction-industry-ecosystem-2022-07-19_en) for the European Commission.

As part of the study, we are carrying out the second survey, targeted at each

stakeholder type of the ecosystem.			
The survey will be open until 31 March.			
Thank you very much for your support!			
All the information obtained from the respondents in this survey will be kept strictly confidential.			
*Please provide your name and surname			
Alessio Rimoldi/Edwin Vermeulen			
*What is the name of your organisation?			
Concrete Europe			
*Which country is your organisation based in? Austria Belgium Bulgaria Croatia Cyprus Czechia Denmark Estonia Finland France Germany			
Greece Hungary Ireland Italy Latvia Lithuania Luxembourg Malta Netherlands Poland			

Portugal

	Romania
	Slovak Republic
	Slovenia
	Spain
	Sweden
	Outside of EU
*What	is the size of your organisation?
	Less than 10 employees (micro-enterprise)
	Between 10-49 employees (small enterprise)
	Between 50-249 employees (medium-sized enterprise)
	More than 250 employees (large enterprise)
*Which	stakeholder group applies to you/your organisation?
	Investor
	Public & Private sector client
	Manufacturer/ supplier of construction products and materials
	Main contractor
	Sub-contractor
	Resource manager
	Demolition contractor
	City, regional, central government representative
	Architect/designer/ structural engineer
	Consultant and surveyor
	Other type of engineer
	Construction permit and control authority
	Facilities/building manager
	Representative of European and national trade associations
	Distributor/ logistics
	Insurer
	Other

Which circularity approaches are you implementing/addressing? Please tick all that apply

	Apply
Product as service, new business models	✓
Designing for future disassembly and reuse	✓
Designing for flexibility and adaptability	✓
Improving material efficiency/intensity/mass of materials used	✓
Improving durability, lifespan, repairability of construction works	✓
Increasing recycled and secondary content of construction products and materials	✓
Increasing direct reuse of products and materials	✓
Increasing reuse/recycling of waste from construction works	~

Increasing reuse/recycling of waste from demolition works	✓
Reducing waste/wastage rates/waste generation from construction activities	✓
Life time extension e.g. through retaining and refurbishing	~
Other	

We are interested in the **circularity indicators** you are currently measuring/addressing or considering. Please tick all that apply:

	Measuring/ addressing	Consid ering
PRODUCT or MATERIAL level		
Reused product i.e. used again for same or different purpose without altering the form of it. Measured as Yes/No		✓
Remanufactured/reused content i.e. mass (kg/tonnes) and % of product which has been remanufactured or from a reused source.	✓	
Recycled/secondary content i.e. mass (kg/tonnes) and % of product that is from a recycled or secondary (other industrial processes) content		
Design for disassembly and circularity i.e Product is design to be disassembled to aid future use; measured as Yes/No		✓
Wastage rate i.e. the amount of product/material delivered but not used (measured as quantity and %)		
Predicted service life Estimated period of service in use, measured in years	V	
Hazardous waste Mass (kg/tonnes) of hazardous waste the product may generate		
Realistic end of life scenarios developed i.e. the reuse, recycling, recovery and disposal routes at end of life identified (measured as Yes/No)		✓
Residual value per unit product/material at end-of-life i.e. the financial value of the product at the end of life (in Euros)		
Part of an Extended Producer Responsibility system i.e. take-back system		✓
BUILDING or ASSET level		
At Concept stage comparison of asset life cycle costs Costs of asset over life cycle. E.g. m2/Euro/year	V	
At Concept stage comparison of asset life cycle assessment Assessment of the whole life carbon of the asset e.g. kgCO2e/m2	V	
At Design stage - Material intensity/ dematerialisation The relative amount of material used e.g. kg/m2		

At Design stage - reused content The proportion of the asset that is designed with reused products /materials (%, tonnes)	✓	
At Design stage - recycled content The proportion of the asset that is designed with recycled content (%/tonnes)	✓	
Designed for adaptability and flexibility Measurement of the adaptability/flexibility of the asset in use	✓	
Designed for disassembly/ deconstruction e.g. proportion of the asset that can be disassembled at end of life		V
Construction Waste generated on and off site Resulting from the installation of products and materials; Measured in kg/tonnes		V
Hazardous Waste generated during construction Resulting from the installation of products and materials; Measured in kg/tonnes		
Construction Waste reused, recycled, recovered, landfilled Resulting from the installation of products and materials; Measured in kg/tonnes and % reused, recycled, recovered, landfilled		✓
Construction related waste generated through in-use/ refurbishment cycles Amount of waste (kg/tonnes) generated from the installation and removal of products/materials during maintenance, repair, refurbishment etc		
Effective utilisation of building (e.g. levels of occupancy) or asset; Intensiveness of use For example how much the asset is in productive use/how much of the asset is being used (e.g. floor area)		
At end of use of building/asset - Proportion of building/asset retained (mass) for further use e.g. the mass of the asset retained for future reuse (adaptive reuse)	<	
Demolition waste generated Resulting from the deconstruction/demolition of the asset Measured in kg/tonnes		✓
Hazardous waste generated at Demolition Resulting from the deconstruction/demolition of the asset Measured in kg/tonnes		
Demolition Waste reused, recycled, recovered, landfilled Resulting from the deconstruction/demolition of the asset. Measured in kg/tonnes and % reused, recycled, recovered, landfilled		✓
ORGANISATION or PROCESS level		
Refurbishment/Transformation rate of buildings/assets portfolio For example, % of assets upgraded/refurnished over a given timeframe		
Predicted service life of buildings/assets More relevant to those who have multiple assets; for example, years of life remaining per asset/ average service life remaining	✓	

Average reused and recycled content in new buildings/assets (circular inputs) The average proportion of a reused and recycled content in new assets/measured as % and in kg/tonnes	▽
Non hazardous waste arisings Resulting from the installation of products/materials, refurbishment and deconstruction/demolition of buildings/assets; Measured in kg/tonnes	✓
Hazardous Waste Resulting from the installation of products/materials, refurbishment and deconstruction/demolition of buildings/assets; Measured in kg/tonnes	
Waste management routes Resulting from the installation of products/materials, refurbishment and deconstruction/demolition of buildings/assets; Measured in kg/tonnes for reuse, recycling, recovery and disposal	
Requirements set for specification of circular economy approaches including recycled + reused products and materials i.e., the number of projects/assets that have these type of requirements/initiatives	
Requirements set for pre-demolition audits and subsequent implementation The number of projects/assets where pre-demolition audits are required/implemented	
URBAN level (city/region/national)	
Demolition waste generated Resulting from the installation of products/materials, refurbishment and deconstruction/demolition of buildings/assets; Measured in kg/tonnes	
Recycling/recovery rate of Construction and Demolition Waste Resulting from the installation of products/materials, refurbishment and deconstruction/demolition of buildings/assets; Measured in kg/tonnes for recycling/recovery of materials	
Refurbishment and transformation rate relative to new construction The number of buildings/assets refurbished versus the number built new over a given timeframe	
Demolition rate The number of buildings demolished over a given timeframe	
Average age at demolition The average age of assets/buildings when demolished (in years)	
Other	

Please detail the circularity data you are collecting/using

As association we are not collecting data, but we are supporting initiatives aimed at increasing the uptake of circular economy in construction based on the following:

- Reference service life, including reuse of structures
- Life cycle cost/life cycle assessment
- Use of reclaimed materials
- Use of recycled materials

3/31/23, 3:21 PM

EUSurvey - Survey What are the main drivers for you to collect data and measure indicators related to circularity? Please provide specific examples where possible. What are the main barriers that you face in collecting data and measuring indicators related to circularity? Please provide specific examples where possible As association we are not collecting data, but we are facing the following - focus on recycled content only within the supply chain of concrete (with minimum recycled content), without considering relevant alternatives for the use of secondary aggregates *Data protection I have read the Data Protection Notice and agree that my personal data is processed for the purposes described herein. I agree to be contacted via email, by the European Commission staff and the contractor in charge of this survey to provide me with information and updates about this survey. Data Protection Notice (DPN) Data Protection Notice.pdf *I give my consent to be contacted for (you can select both interview and workshop, only one or none)*: at least 1 choice(s) a follow-up interview a follow-up virtual workshop none of the above purposes Please provide your email address to be contacted info@concrete-europe.eu **Contact** Contact Form (/eusurvey/runner/contactform/ab9fa725-6ce2-cbed-09a1-9861f39e95fb)