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Survey on application of circular approaches in the construction industry ecosystem

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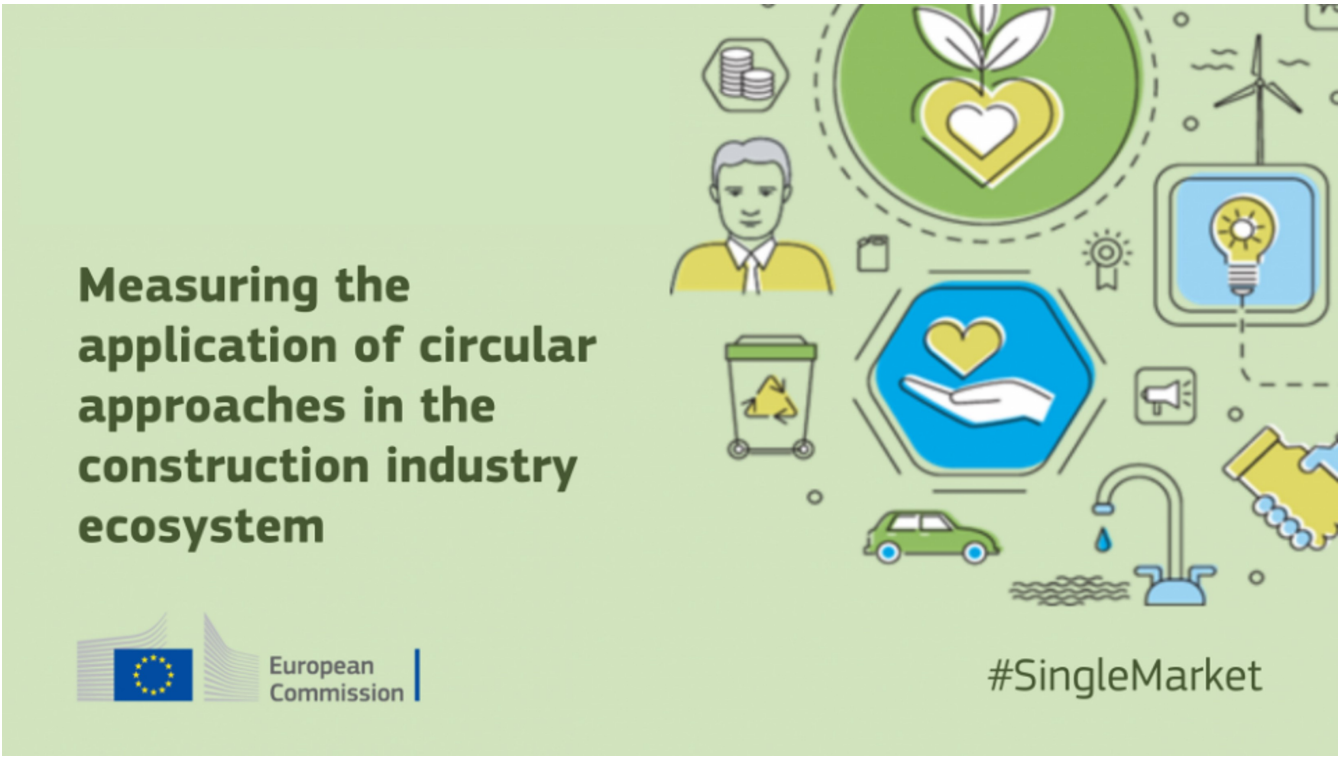

Survey | Study on measuring the application of circular approaches in the construction industry ecosystem

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 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-circular-approaches-construction-industry-ecosystem-2022-07-19_en) for the European Commission.

As part of it, we are carrying out a **10-minute survey** aiming at gathering feedback on **how and to what extent different actors in the construction industry ecosystem are considering and applying circular approaches.**

Thank you very much for your support!

**Please note the survey will be open until 14 October 2022.*

All the information obtained from the respondents in this survey will be kept strictly confidential.

Introductory questions

1. On a scale from 1 to 5, (1 being unaware and 5 being fully aware), what **level of awareness** do you have in circularity approaches for construction?

	1 *(Unaware)*	2	3	4	5 *(Fully aware)*
*.	○	○	○	○	◉

*2. What **parts of the construction life cycle** feature most prominently in your work generally?

Multiple answers are possible.

- [x] Concept
- [x] Procurement
- [x] Design (incl. for deconstruction)
- [x] Manufacture
- [ ] Demolition (of existing assets)
- [x] Construction
- [ ] Handover/use/asset management
- [x] Refurbishment/ adaptive reuse/ renovation/ maintenance/ repair
- [x] End of life/ deconstruction (future assets)

*3. What **organisation** do you represent?

- ○ Public sector
- ◉ Private sector
- ○ NGO/ third sector/ academic

What is the name of your organisation?

BIBM

*Please specify what your organisation does:

Trade association for the European precast concrete industry

*Is your organisation based in the EU?

- (●) Yes
- ( ) No

*What country is your organisation from?

Belgium

*4. What **size** is the organisation you represent?

- (●) Less than 10 employees
- ( ) Between 10-49 employees
- ( ) Between 50-249 employees
- ( ) More than 250 employees

5. What **level of priority** does your organisation place on implementing **circularity approaches**?

	No priority	Low priority	Medium priority (e.g. promoting circularity is mentioned in corporate communications and procedures)	High priority (e.g. targets have been set at an organisational level)	Very high priority (e.g. fundamental part of the organisation's work)	Do not know
*.	( )	( )	( )	(●)	( )	( )

Circular approaches questions

6. How **frequently** does your **organisation** carry out the following types of **circularity approaches**?

	Never/rarely	Occasionally	Frequently	Always or almost always	Relevant to my organisation but not doing this currently	Do not know

* Product as a Service (PaaS), new circular business models	○	○	○	○	◉	○
* Designing for Future disassembly/re use	○	○	◉	○	○	○
* (Designing for) flexibility and adaptability	○	○	○	◉	○	○
* Improving material efficiency/inten sity/ reducing mass of materials used	○	○	○	◉	○	○
* Improving durability/lifesp an/repair ability of construction works	○	○	○	◉	○	○
* Increasing recycled/secon dary content of construction products/mater ials	○	○	◉	○	○	○
* Increasing direct reuse of products and materials	○	○	◉	○	○	○
* Increasing reuse/recycling of waste from construction works	○	○	◉	○	○	○
* Increasing reuse/recycling of waste from demolition activity	○	○	◉	○	○	○

* Reducing waste/wastage rates/levels of waste generation from construction related activities	○	○	○	◉	○	○
* Lifetime extension, e.g. through retaining and refurbishing	○	○	○	◉	○	○
* Other	○	○	○	○	○	◉

7. Please tick any of the following circular approaches that you/your organisation is **measuring** in construction work projects.

	Never considered measuring	Have considered measuring but too difficult	Considered measuring and would be feasible to measure	Starting to measure	Actively measuring	Do not know
* Designing for future disassembly/reuse	○	○	○	◉	○	○
* Improving material efficiency/ intensity/ reducing mass of materials used	○	○	○	◉	○	○
* Improving durability/ lifespan/ reparability of construction works	○	○	○	○	◉	○

* Improving recyclability and reusability of products	○	○	○	◉	○	○
* Increasing reuse/ recycling of waste from constructio n works	○	○	○	◉	○	○
* Increasing reuse/ recycling of waste from demolition activity	○	○	○	◉	○	○
* Reducing waste/ wastage rates/ levels of waste generation from constructio n-related activities	○	○	○	○	◉	○
* Reducing whole life carbon via circular approaches	○	○	○	◉	○	○

8. Does your organisation use any **circularity indicators to measure** its circularity performance (e.g. share of recycled materials used for a product/ construction work, material efficiency performance indicators, etc.)?

- ○ Yes
- ◉ No

Data questions

* 9. **Do you currently collect, report and/or analyse data** to support circularity approaches, such as measuring performance, of your organisation or your projects through circularity indicators?

- ○ Yes
- ◉ No

*10. Do you have any **suggestions** in terms of **standardisation of data/ measurement** to support circularity approaches?

- ◉ Yes
- ○ No

*Please specify:

Standardisation in CEN/TC 350/SC 1 to provide a common framework

*11. Do you have any **suggestions** in terms of other **data improvements** to support circularity approaches (for example creation of tools, databases etc.)?

- ◉ Yes
- ○ No

*Please specify:

Possibility to reuse the full structure or single elements should be assessed. The reference service life of components could also be monitored

*12. Please provide details of any **guidance, tools, frameworks, studies or other activities** your organisation has undertaken to **improve data and/or measurement** of circular approaches *(or state 'Not applicable' if you do not have any)*:

Not applicable

Barriers and closing questions

13. What are the **most important barriers** that hinder your organisation's increased involvement in a circular approach to construction? Please choose up to 3 barriers.

	Choose up to 3
Insufficient regulatory approach to data/ fragmentation of data sources/ access restrictions to open data due to legal issues	○
Unclear data ownership	○
Technical uncertainty associated with circular economy practices and what needs to be achieved	◉
Potential impact on business competitiveness from data sharing	○
High cost associated with the collection, reporting or delivering the data	○
Inadequate communication between stakeholders who could provide data	○

Difficulties to create harmonised values for the indicators at an international level	◉
Difficulty to track origin of products and their constituent materials	◉
Other	○

14. What do you feel could **incentivise** your organisation **to collect data** that measures a circular economy in construction? Please choose up to 3

	Choose up to 3
Requirements set by project investors and clients	○
More consistent data formats along the supply chain	◉
Internal targets of my organisation e.g. science-based targets	○
Business opportunities of a circular economy	◉
New legislation requiring the collection of data and related indicators	○
Development of national support programmes that promote and facilitate voluntary data collection	○
Development of better digital tools and platforms for easier data handling	○
Other	○

*15. Please provide details of **any other aspects of circularity in construction** you feel are particularly relevant to your organisation (with respect to better data and/or measurement of circularity):

Measurement of circularity: "recycling" is easy to measure, but it is not the full picture of CE. How to measure impacts of "reduce" (longer life cycle, easiness to repair) and "reuse"?

*16. We are organising a **stakeholder workshop** and **follow up (short) interviews** as part of this project during 2022. Would you agree to be contacted about this?

- ◉ Yes
- ○ No

*Please provide your contact details (e.g. email address):

ar@bibm.eu

Contact

Contact Form (/eusurvey/runner/contactform/Survey_Circularity_in_construction_industry)