

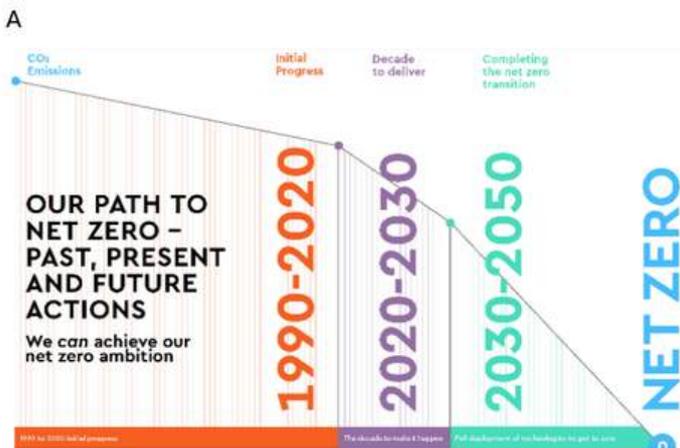


Carbon-negative compression dominant structures for decarbonized and deconstructable concrete buildings

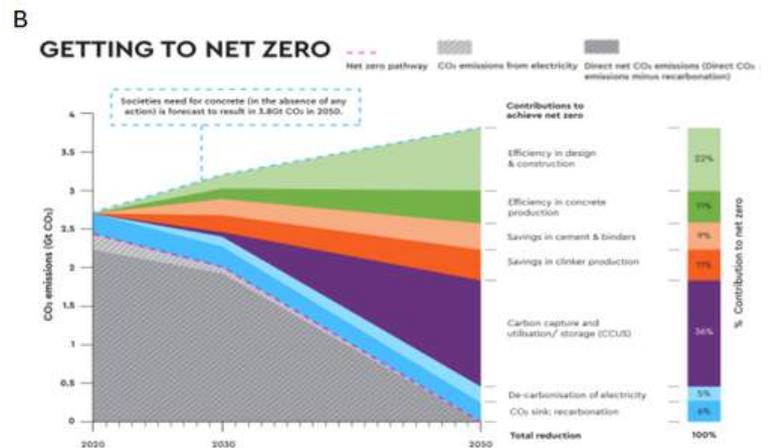
ONGOING ACTIVITIES IN THE SECOND YEAR OF CARBCOMN

**GREEN PAPER LAUNCHED!
WE WOULD LIKE TO RECEIVE YOUR FEEDBACK!**

A **Green Paper** on Compression Dominant Carbon Curing Concrete Structures has been prepared! Download it at the following link: [10.5281/zenodo.17277986](https://doi.org/10.5281/zenodo.17277986)



Path towards net-zero CO2 emissions



Getting towards a net zero concrete construction sector

The intention is to stimulate discussion on the topic of compression dominant carbon curing concrete structures as one of the key pathways to move towards a net zero concrete construction sector. The objective is not only to communicate towards, but also to **consult potential stakeholders to identify key concerns, incorporate diverse perspectives and create consensus on prior research goals**: we need to put more focus on ‘Efficiency in design & construction’ through compression dominant structures and ‘Carbon capture and utilisation/storage (CCUS)’ through carbon curing concrete structures, is deemed to be very beneficial in order to identify opportunities for innovation, risk mitigation and value creation.

**CALL FOR ACTION
YOUR FEEDBACK ON OUR CARBCOMN GREEN PAPER IS MOST WELCOME
[LINK TO QUESTIONNAIRE](#)**

THAT'S A WRAP ON OUR 2ND ANNUAL MEETING

On September 30th and October 1st
Mario Cucinella Architects partner hosted the
2nd Annual Meeting in the beautiful city of Bologna at Filla Center!



CARBCOMN team came together for the end of our first project year. It was a fantastic couple of days reflecting on our achievements, discussing our next steps, and setting our goals for the future.



SATELLITE EVENTS

WORKSHOP BY ZAHA HADID ARCHITECTS



During the Annual Meeting a brilliant keynote “Research and Technological Infusions in Practice” given by Vishu Bhooshan was attended by Consotrium partners, architects and engineers.



PORTFOLIO: DIGITRIO NEWS

Advancing the DigiTrio Portfolio! On December 2025, Enzo Martinelli (*TESIS*), Stijn Matthys (*Ghent University*) and Ganga Warrier (*TU Darmstadt*) joined the inspiring meeting in Copenhagen, hosted by the RAW project at CITA (*Centre for Information Technology and Architecture*).

As a key member of the DigiTrio Portfolio, CARBCOMN is collaborating with fellow EIC projects to drive digital transformation across the Architecture, Engineering, and Construction (AEC) sector.

Exchange technical insights, Foster new synergies, Scale European innovation for the built environment: Proud to work alongside such visionary partners to build a stronger, more connected innovation ecosystem in Europe!



PROJECT ACTIVITIES

MOBILE CARBONATION CHAMBER

In November and December 2025 the mobile carbonation chamber of ORBIX was located at one of the campuses of Ghent University: a testing campaign was set up involving both Ghent University and ORBIX to define the best curing conditions for small scale and block level 3D printed elements.



3D PRINTING MIX - VIDEO

The CARBCOMN team has been busy testing the **3D printing mix** again, and we're excited to share the progress. This time, it wasn't just about if we could print- it was about how well we could print and what happens after.

In our latest **YouTube video**, we dive deep as we further assess:

- **Printability:** How does our reference mix behave? Is it stable, consistent, and accurate?
- **Transportability:** Can the freshly printed blocks be moved without crumbling?

This is key for practical use on-site!



See the printer in action and find out how our blocks performed.

Watch the full update on our YouTube channel!

<https://www.youtube.com/watch?v=oTNFgu6mlfQ>

STAY TUNED

For more information about CARBCOMN visit our webpage and follow us on social media for updates. To get directly in touch you can reach us at: info@carbcomn.eu.



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This issue of the newsletter is brought to you by Alessandro Dell'Endice, Carmine Lima, Denis Ayena Lorika, Kim Van Tittelboom, Neven Ukrainczyk, Saim Raza, Stijn Matthys, Think Nguyen and Yi Zhang.

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