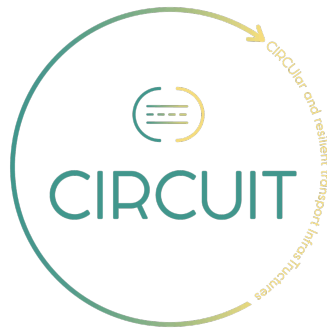




CIRCUIT 4th Newsletter: Validating Results on the Ground

CIRCUIT's momentum was formally recognised last month, as the project successfully passed its 2nd periodic review meeting with **CINEA** in Brussels on July 16. All pilot and work package leaders presented their progress to the European Commission's executive agency, confirming that the project remains firmly on track against its KPIs and deliverables, a strong endorsement as **CIRCUIT** moves further into implementation.

This issue reflects that progress in detail. We present the outcomes of a full-scale industrial trial of RFID-based Digital Product Passports for concrete traceability, and introduce **five new briefing papers** summarising key project deliverables. We also report on **CIRCUIT**'s recent presence at major sector events, including the **Transport Research Arena** in Budapest and the project's **7th General Assembly** in Santander, alongside a feature on how the Italian pilot is redefining road lighting as an active, energy-generating component of transport infrastructure.

These achievements reflect the sustained commitment of all **CIRCUIT** partners. We thank you for your continued interest in the project and hope this update provides a useful overview of our recent progress.

CIRCUIT project updates

CIRCUIT passes its 2nd review meeting with CINEA

CIRCUIT 2nd Review Meeting, Brussels, July 16th



On July 16, the **CIRCUIT** consortium met with **CINEA**, the European Climate, Infrastructure and Environment Executive Agency, in Brussels, for the project's 2nd periodic review meeting. All pilot and work package leaders presented their progress to date and outlined the next steps towards a more sustainable, innovative and circular road construction sector.

The meeting confirmed that **CIRCUIT** remains firmly on track against all its KPIs and deliverables, a strong signal of the project's momentum as it moves further into its implementation phase.

Italian pilot featured in Strade & Autostrade



Lighting pole with hybrid power generation

CIRCUIT's Italian pilot was recently featured in an article published in *Strade & Autostrade* (issue 4-2026), authored by project partners Anas and Algorab. The piece looks at how road lighting, long seen as an unavoidable energy cost, can instead become part of a smarter, responsive infrastructure system.

On the A90 and A91 motorways and the SS63 near Casina, **CIRCUIT** has deployed Full Adaptive Installation (FAI) systems that adjust lighting levels in real time based on traffic, luminance and weather data, alongside hybrid lighting poles combining solar and micro-wind generation. At the A90 "La Rustica" junction, eleven hybrid-powered lighting units now produce more renewable energy than they consume, a positive annual balance of around 404 kWh, cutting an estimated 1.06 tonnes of CO₂ per year. An intelligent, data-driven ventilation system for tunnels rounds out the pilot, optimising airflow according to actual demand rather than fixed thresholds.

The article frames these results within **CIRCUIT**'s broader life-cycle approach: efficiency is not just about the energy a system consumes while running, but about rethinking material choices, design and end-of-life management across an asset's whole life.

[MORE INFO](#)

New video: tracking concrete with Digital Product Passports



Recycling old concrete sounds simple, but before a slab can be reused, how do we know where it came from, what it contains, or how it was produced? A secure Digital Product Passport, embedded via a small RFID tag, gives each slab a unique digital identity that can be scanned throughout its lifecycle.

In April 2026, **CIRCUIT** partners **IECA** and **Infra Plan** put this solution to the test under real industrial conditions at the **Beton Lučko** precast concrete factory in Zagreb, Croatia. A full-scale reinforced concrete slab (approx. 4 × 2.1 × 0.22 m), destined for the Slovenian demonstration bridge, was fitted with RFID tags: some attached to the steel reinforcement, others embedded during mixing. Readings were taken at production stage and again after 7, 14 and 29 days of curing.

The trial confirmed that RFID technology can be reliably integrated into full-scale precast concrete components, paving the way for easier identification, tracking, reuse and recycling of construction materials.

5 new briefing papers now available

We have just finalised five briefing papers distilling the latest CIRCUIT deliverables, each a quick, visual read on where the project stands:

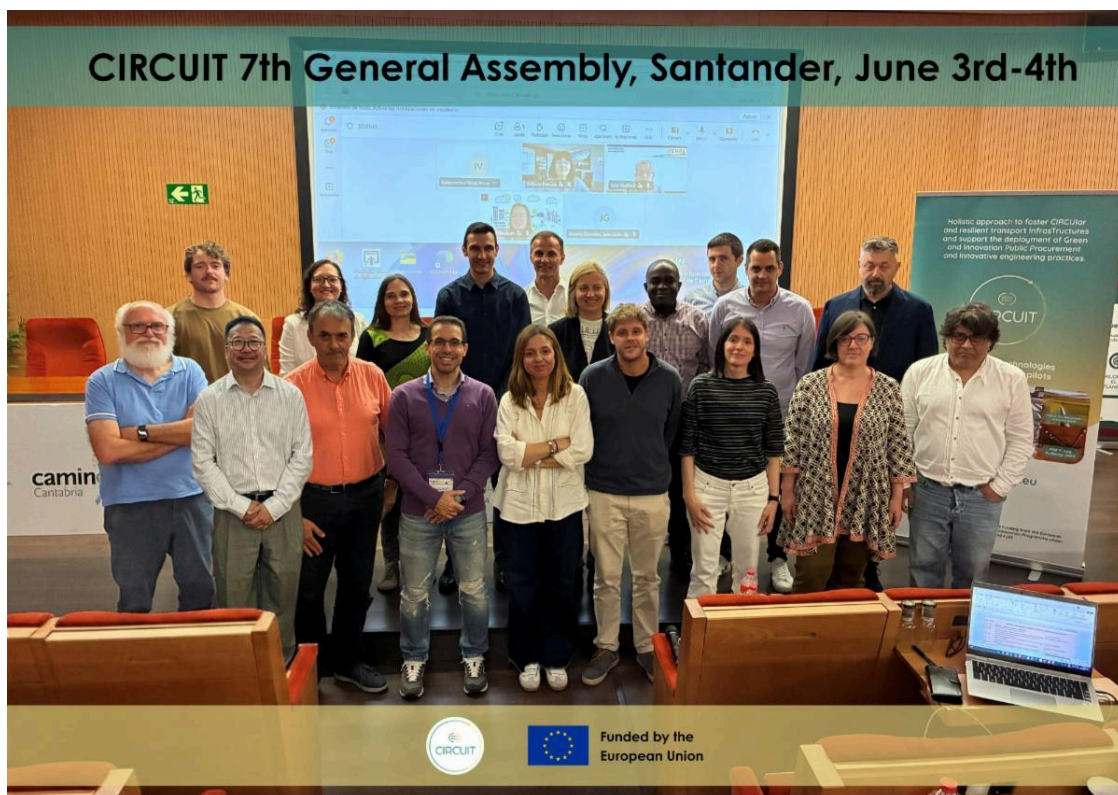
- D1.1 – Holistic Circularity Framework: the project's four-pillar framework (Reuse, Recyclability, Energy efficiency, Digitalisation) and cross-dimensional KPIs, tested across five pilot countries.
- D1.2 – Up-stream & Down-stream Supply Chain Actors' Needs: 47 barriers to circularity mapped across the value chain, with public institutions identified as the key lever for change.

- D1.3 – Circularity Analytics Tool (CAT): a new software tool that calculates circularity scores directly from BIM/IFC models, at system, component and material level.
- D2.4 – Real-Time Traffic Management on Smart Mobility Systems: a state of the art on ITS and connected mobility, featuring a wrong-way vehicle detection case study on Spain's A-8 motorway.
- D4.1 – Manual for a Successful Deployment of Green Public Procurement (GPP): a mapping of GPP practice, barriers and recommendations across the five CIRCUIT pilot countries.

[ACCESS THE BRIEFING PAPERS](#)

EVENTS & PROJECT OUTREACH

7th CIRCUIT General Assembly, Santander



On June 3 and 4, the **CIRCUIT** consortium met in Santander, Spain, for its 7th General Assembly, hosted by the University of Cantabria. Coming right after the close of the second reporting period, the meeting was an opportunity to take stock of recent progress: a major update to the **CIRCUIT** digital platform, advances on the governance and Green Public Procurement guidelines (feeding into deliverable D4.2), and progress reports from all five pilots, from tunnel digitalisation in Croatia to the 3D-printed safety wall in Slovenia and the adaptive lighting systems in Italy.

[MORE INFO](#)

CIRCUIT at the LIAISON final event



On June 4, several **CIRCUIT** partners took part in the final event of sister project LIAISON, held during the Innovation Industry Construction Congress (IC2). Consortium members presented **CIRCUIT** work spanning bio-binders and reclaimed asphalt, smart precast geopolymer pavements, modular low-carbon bridge slabs, the **CIRCUIT** digital platform, and hybrid energy generators for lighting poles. **CIRCUIT** coordinator Thierry Goger (**FEHRL**) also moderated part of the discussion on how Green and Innovation Public Procurement can boost sustainability across the transport sector.

[MORE INFO](#)

CIRCUIT at TRA 2026, Budapest



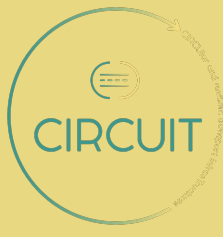
On May 25, **CIRCUIT** was present at the **Transport Research Arena 2026**, one of Europe's major transport research events. **FEHRL**'s Adewole Adesiyun presented the project's holistic approach to circular and resilient infrastructure in the Sustainable & Resilient Pavements session. Alongside the technical presentation, the **CIRCUIT** Road educational game, developed by **We Right Click**, was showcased at the **FEHRL** stand, giving conference visitors a hands-on way to explore the trade-offs involved in building more circular transport infrastructure.

[MORE INFO](#)

Want to stay closer to CIRCUIT's progress between newsletters?

Follow us on LinkedIn for pilot updates, event highlights, and behind-the-scenes looks at circular and resilient transport infrastructure in the making.





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