CERCOM

Circular Economy in Road Construction and Maintenance

CEDR Transnational Research Programme:

Call 2020 Resource Efficiency and the Circular Economy

Funded by:

- Denmark
- Ireland
- Netherlands
- Norway
- Sweden
- Switzerland
- United Kingdom

Project Duration:

September 2021 – August 2023

Partners:

- Research Driven Solutions Ltd. (RDS), Ireland
- Delft University of Technology (TUD), Netherlands
- ITEN, United Kingdom
- Danish Technological Institute (DTI), Denmark
- Hello My PA, United Kingdom

Project Summary

Implementation of CE has the potential to tackle the root causes of global challenges such as climate change, biodiversity loss and pollution whilst at the same time providing regenerative design for generations to come. Studies show that the circular economy can contribute towards tackling the remaining 45% of greenhouse gas emissions that cannot be resolved by transitioning to renewable energy alone. However, to achieve climate neutrality, synergies between CE and reduction of GHG need to be established in the context of highway infrastructure.

In the context of road construction and maintenance, several European NRAs are already engaged with the circular agenda but in order to address gaps and increase the pace at which NRAs transform their organisational culture and embed resource efficiency into their economic / business models and processes, a wide range of supporting activities are needed, to raise awareness, develop capability, and adopt new standards, assessment methods, innovative procurement practices and training (technical, operational and change in culture).

The CERCOM project will deliver an innovative risk based framework and management tool to facilitate a step change in the adoption of RE & CE principles in procurement and multilifecycle management by NRAs across Europe.

Work Packages:

- WP1 – Project Management
- WP2 – Developing Best Practice: Linear to Circular Economy
- WP3 - Risk-Based Analysis Framework
- WP4 - Case studies: Validation and demonstration of developed methodology
- WP5 - Deliver resource pack and training
- WP6 - Engagement and dissemination