

CENTS: A Research Network
for the Sustainable Transport
Community

Circular Economy Network+ in Transportation Systems



Cents
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in Transportation Systems



**British
Geological Survey**
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CAMBRIDGE**



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SURREY**



**Engineering and
Physical Sciences
Research Council**



What is the Circular Economy Network+ in Transportation Systems?

Objectives

The Circular Economy Network+ in Transportation Systems (CENTS) is a research network for the sustainable transport community, with a focus on the informed design and utilisation of more environmentally friendly, renewable and/or recyclable materials to enable **regenerative resource cycles**.

CENTS will focus on transport platforms where circular economy (CE) principles have not been well embedded from the outset, in order to identify synergies between different supply chains and to optimise certain practices, such as improved end of life recovery, recycling rates, energy and material efficiency. It will also be 'forward looking' in terms of developing future designs, business models and manufacturing approaches so that emergent transport systems are inherently circular.

In order to deliver novel and effective solutions, CENTS will link academic creativity with industry insight. This will be achieved through a programme of network activities (horizon scanning, workshops, conferences) and funding opportunities.

Leadership Team

CENTS is funded by the [EPSRC](#) and led by WMG at the University of Warwick ([Prof Kerry Kirwan](#); Sustainable Materials), Cranfield University ([Prof Mark Jolly](#); Sustainable Manufacturing), the British Geological Survey ([Dr Evi Petavratzi](#); Mineral Commodities), the University of Surrey ([Prof Richard Murphy](#); Life Cycle Assessment) and the University of Cambridge ([Prof Steve Evans](#); Industrial Sustainability).

Get involved

A Network is only as good as its members so your involvement is critical to its success.

We would like to invite anyone with a professional interest in using research to reduce the environmental burden of transportation systems during their lifetime to join our network.

Joining the CENTS network will enable you to receive updates on events and funding via our newsletter. If you wish to do so, you will also be able to log your research interests and expertise, which will help us further develop the network and deliver tailored activities.

If you would like to play a more active role, you could be involved in numerous additional ways, including sitting on our advisory board, reviewing proposals, mentoring Early Career Researchers, hosting or attending network events, proposing projects and providing secondment opportunities.

Connect with us on [LinkedIn](#) and Twitter [@CE4Transport](#)
For any queries, please email circulartransport@warwick.ac.uk
www.circulartransport.com



CENTS Research Strands



1. MATERIAL STOCKS AND FLOWS IN TRANSPORTATION



4. CIRCULAR ECONOMY TRANSITIONS



2. WHOLE LIFE DESIGN



5. DIGITAL CIRCULARITY



3. CIRCULAR ECONOMY DECISIONS

Material stocks and flows in transportation

Research into materials (eg. industrial/technology metals, plastics, glass etc.)

Whole life design

End-of-Life recycling, reuse and recovery processes

Circular Economy Decisions

Social, economic, political, financial and logistical barriers to make improved Circular Economy decisions

Circular Economy Transitions

Delivery of Circular Economy at a sector level, using coordinated action by separate economic and civil entities

Digital Circularity

Potential roles of data in the Circular Economy (eg. Big Data, Blockchain technologies connecting transport supply chains, building trust and facilitating data exchange.)