

# OUR OBJECTIVES

1

Collect and harmonise results to tailor guidelines towards the actual implementation of sustainability practices in National Road Authorities with a focus on **LIFE CYCLE MANAGEMENT**

2

To act as a platform for interactive transfer of knowledge on sustainability assessment and National Road Authorities sustainability best practices

3

To produce the **PAVEMENT LCM** package of tools, guidelines, datasets, road-maps and recommendations to effectively use life cycle management for decision making

[www.pavementlcm.eu](http://www.pavementlcm.eu)

PavementLCM is a 2 year international project aiming at supporting European National Road Authorities to introduce sustainability at the core of their practices by providing training on Life Cycle Management techniques and a user-friendly package to support their widespread implementation.



Conference of European Directors of Roads  
[www.cedr.eu](http://www.cedr.eu)



[www.pavementlcm.eu](http://www.pavementlcm.eu)

## Contact Us

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## LIFE CYCLE MANAGEMENT OF GREEN ASPHALT MIXTURES AND ROAD PAVEMENT

CEDR Transnational Road Research Programme  
CEDR Call 2017: New Materials



Conference of European Directors of Roads

## PROGRAMME

The **CEDR Transnational Research Programme** was launched by the **Conference of European Directors of Roads (CEDR)**. CEDR is the **Road Directors' platform for cooperation and promotion of improvements to the road system and its infrastructure, as an integral part of a sustainable transport system in Europe**. Its members represent their respective **National Road Authorities (NRA)** or equivalents and provide support and advice on decisions concerning the road transport system that are taken at national or international level.

The participating **NRAs** in the **CEDR Call 2017: New Materials** are **Austria, Belgium-Flanders, Denmark, Germany, Netherlands, Norway, Slovenia, Sweden and the United Kingdom**.

As in previous collaborative research programmes, the participating members have established a **Programme Executive Board (PEB)** made up of experts in the topics to be covered. The research budget is jointly provided by the NRAs as listed above.

## PROJECT FACTS

**Duration:** 01/10/2018 – 30/09/2020

**Budget:** EUR 562.689

**Coordinator:**

Davide Lo Presti, UNOTT (UK), UNIPA (IT)

**Partners (main contact):**

Elisabeth Keijzer, TNO (NL)

Bjorn Kalman, VTI (SE)

## EXPECTED RESULTS

To **create a general LCM framework** with templates and case studies to carry out harmonised sustainability assessments of both asphalt mixtures and road pavements and to transfer the knowledge with a training tailored to NRAs. – **WP2**

To create the **PavementLCM lookup tool** as a user-friendly tool to help members of NRAs to find out most appropriate datasets, methodologies and results of previous LCM studies for a specific situation – **WP5**

To **produce datasets** of sustainability data and durability data of identified Green Asphalts for selected case studies, based on existing sustainability datasets and novel durability testing. – **WP3, WP4**

To **provide NRAs with a methodology** and recommendations for coping with uncertainty of datasets of LCM exercises, both inputs and results, as well as road-maps towards data harmonization at EU level - **WP2, WP3, WP4, WP5**

To **produce guidelines** and recommendations towards using LCM results within a multi-criteria sustainability assessment according to CWA 17089, EN15804 & EN15643-5. – **WP5**

**(BONUS WP)** - PavementLCM it will provide NRAs with a glimpse of LCM methodological challenges and NRAs' best practices leading towards a circular economy – **WP6**

## WORK PACKAGES

**WP1: Management and Communication**

**Davide Lo Presti**, Ana Jimenez Del Barco Carrion

**WP2: LCM knowledge transfer**

**Ana Jimenez Del Barco Carrion**,

Davide Lo Presti, Tony Parry, Luis Neves

**WP3: Sustainability data collection & analysis**

**Elisabeth Keijzer**, Diana Godoi Bizarro, Suzanne

De Vos-Effting, Tony Parry, Luis Neves

**WP4: Durability data collection & analysis**

**Björn Kalman**, Ehsan Ghafoori,

Gaetano Di Mino, Rita Kleizienė, Tony Parry, Luis

Neves

**WP5: PavementLCM package**

**Davide Lo Presti**, Suzanne De Vos-Effting,

Elisabeth Keijzer

**WP6: Towards a Circular Economy**

**Konstantinos Mantalovas**, Gaetano Di Mino,

Davide Lo Presti

**Project Officers:**

Arash Khojinian & Matthew Wayman

(Highways England)

Robert Ingerman

(Trafikverket)

## SUPPORTERS

