WORKSHOP 1

Climate Resilient Transport Infrastructure

28–29 September 2026
@Orto botanico, Sala Lanza

DAY 1 · 28 September

14:30–18:30 – Alternative Paving Materials by RILEM TC APS (WG2 – WG5) Live & online · Chairs: R. Kleizyene (VTU), M. De Rose (UNIPA)

- Welcome & Registration
- Intro: RILEM Technical Committe APS for more sustainable pavements – **D.Lo Presti,** Univ. of Palermo
- Waste upcycling technologies to manufacture road materials for a post-oil society – **D.Lesueur,** Western Research Institute
- Life Cycle Sustainability Assessment for Alternative Paving Mater. – **A. Jimenez Del Barco Carrion,** University of Granada
- Recyclability of APMs – **K.Vasconcelos,** Univ. of Sao Paolo
- Ecotoxicity of APMa – **C.Sangiorgi,** Univ. of Bologna
- Interactive session with panel discussion

DAY 2 · 29 September

*09:00–13:00 – **Session 1: Climate Change and Resilient Road Infrastructure** (WG1 – WG5) Live & online · Chairs: J.Olivera does Santos (UTWENTE), D.Ciriminna (UNIPA)*

- Climate change, but how much? – **Kucaj,** Univ. of Albania
- Road and climate models – **Arvidsson (VTI)**
- Implementing resilience in road pavements – **J.Sias (UNH)**

- Climate-resilient roads PROJECTS:
  - Electric Road Systems – **H.Wang,** Rutgers University
  - UNIPA's projects **: D.Ciriminna, G.Tarantino, G. Di Mino,**
  - OCTOPUS DN**, R. Texeira,** Univ. College Dublin
- Interactive session with panel discussion

*14:30–18:30 – **Session 2: Decarbonisation through Digitalisation** (WG1 – WG5) Live & online · Chairs: D.Hernando (UAW), M. Tumminello (UNIPA)*

- Green Road Materials in an Industry 4.0 – **M.Diekmann** and **L. Pirozzolo** WIRTGEN
- Gravel management and optimisation system - **J.Rath** RED GMS
- LCA for sustainable pavements - **R. de Montagnac** ORIS
- SPIM - **D. Randazzo Mignacca** UNIPA, **S.Biancardo** UNINA
- Connected vehicles for sustainable roads **M.Pettinari** NIRA
- Digital Urban road manag. – **D. Lo Presti** smartPMS
- Interactive session with panel discussion

Organization: J. Olivera dos Santos, J. Sias, M. De Rose, D. Lo Presti

WORKSHOP 2

Sustainable Transport Infrastructure

30 September – 2 October 2026
@University main campus, building 7

DAY 1 · 30 September

08:30–13:00 – Morning session (WG1 – WG5) Live & online · Chairs: D. Lo Presti (UNIPA), C.Celauro (UNIPA)

- 08:30–09:00 – Opening from CRIPI and ROADLCA leaders/chairs (institutional greetings, Conference chairs , CRIPI Coordinator)
- 09:00–09:45– **Keynote**: Sustainable Development and Climate Change – **F.Butera**, Politenico di Milano
- 09:45–11:15 – **Government and Academic Session**: ROADLCA best Practices, Barriers and implementation challenges Worldwide
  - IT: **S.Saporetti**, Ministry of Environment, Energy safety
  - IT: **S.Padulosi,** Italian National Road Authority, ANAS
  - IT/GLOBAL: **G.Cossale**, PIARC Italia
  - USA: **G. Flintchs**, Virginia Tech
  - CANADA: **Jieying Jane Zhang**, National Research Council
- 11:30–13:00 – **Industry Session**: Decarbonizing bitumen and Sustainability Assessement debate
  - Centralizing EPD in US and AUS – **A.Mukherjee,** NAPA
  - Decarbonizing Bitumen Industry, **B. Delaporte,** Eurobitume
  - Standardisation of sustainable procurement at EU level, **L.Porot,** Pavipedia
  - **Interactive Debate**: Are we on the right path for a more sustainable road industry? – moderator: **T.Parry**, Atkins, **A.Jimenez Del Barco Carrion** (UGR)
    - Academia and Road operators perspective
    - Construction and materials industry
    - Live feedback and interaction with participants

14:00 –17:30 – Afternoon session (WG1 – WG5) Live & online · Chairs: D.Lo Presti (UNIPA), A.Jimenez Del Barco Carrion (UGR),

- 14:00–14:45 – Afternoon Session: Keynote: almost 20 years of PavementLCA **John Harvey,** UC Davis
- 15:30–17:30 – CRIPI Core Group (CG) Hybrid Meeting

Organization: A. Jimenez Del Barco Carrion, M. De Rose, W. Van Den Bergh, Judita Škultecké, K. Konieczna, S.R. Omranian, D. Lo Presti

WORKSHOP 2 — continued

Sustainable Transport Infrastructure

30 September – 2 October 2026
@University main campus, building 7

DAY 2 · 1 October

08:30–12:45 – Morning session (WG1 – WG5) Live & online · Chairs: A.Graná (UNIPA), W.Van Den Bergh (UAW)

- 08:30–09:15 – Keynote:Resilient and Sustainable Pavements for Safe Future Mobility – **I.Al-Qadi,** University of Illinois
- 09:15–12:45 – CRIPi group work: breakout groups, CRIPI roadmap development

13:45–15:30 – Afternoon session (WG1 – WG5) Live & online · Chairs: M.Cellura & S. Longo (UNIPA, CSTE)

- 13:45–15:30 – Keynote: Life Cycle Sustainability Assessment – **M.Traverso** (RWTH Aachen)

DAY 3 · 2 October

09:00–18:00 – Morning Session (WG1 – WG5) Live & online · Chairs: G. Di Mino (UNIPA), S.R. Omranian (UAW)

- 09:00–09:45 – Keynote: Ecotoxicity of Bituminous Materials – **S.Magni,** Univ. of Milano
- 10:00–13:00 – Group work: CRIPI roadmap development
- 13:15 – 14:15 Closure:
  - Presentation of CRIPI Roadmap & Policy Recommendations for Climate Resilient and Sustainable Transport Infrastructure - **CRIPI Trainee**
  - Panel Discussion: "ROADLCA what's next?" with **J.Harvey, I.Al-Qadi, G.Flintchs, D. Lo Presti**:

- 14:45–16:00 – Management Committee (MC) Hybrid Meeting
- 16:00–18:00 – Joint Annual Hybrid Meeting of Young Researchers and Innovators (YRI) and Resilient Pavement Association (RPA) Session Across CRIPI

REGISTRATION INFO for invited-only CRIPI training participants:

URL:
https://roadlca2026.unipa.it/cripi-training-school/

VENUE: University of Palermo

Workshop 1: Orto botanico, Sala Lanza
Via Lincoln, 2, 90123 Palermo PA

Workshop 2: University main campus, building 7
Edificio 7, Viale delle Scienze, 90128 Palermo PA

Fee includes:

- Access to Workshop 1 and Workshop 2
- Coffee Breaks

ADDITIONAL OPPORTUNITY

Conference: ROADLCA2026
Venue: Ed.19, University of Palermo, Palermo, Italy
Website: roadlca2026.unipa.it

CRIPI Trainee Special Fee: 350 €

Fee includes:

- Conference Sessions at building 19
- Lunches
- Welcome reception
- Gala dinner (up to maximum capacity)

How to reach Palermo:

By air — Falcone Borsellino Airport (PMO)

By sea — Palermo Port ferry connections

Local Organiser: *Circular srl , smartPMS s.r.l*
Centre for Sustainability and Ecological Transition UNIPA

WHY ATTEND?

Two flagship workshops bringing together academia, industry and public bodies to build a shared, science-based roadmap for climate-resilient and net-zero road infrastructure.

- Two international workshops:
  - Climate Resilient Transport Infrastructure & Sustainable Transport Infrastructure
  - Keynotes from leading academics and industry experts
- Hands-on breakout group work
- Government, academic & industry perspectives side by side
- Young Researchers session & networking
- Development of “The Palermo Declaration”

CRIPI

Climatic Resilience Initiative for Pavement Infrastructure, COST Action C24141

http://cripica.com

Università degli Studi di Palermo · dipartimento di ingegneria unipa · SMARTI lab Smart solutions for Sustainable Transport Infrastructure · Centro di Sostenibilità e Transizione Ecologica

cost
EUROPEAN COOPERATION IN SCIENCE & TECHNOLOGY

CRIPI
Training school

Life Cycle Thinking for Climate-Resilient and Net-Zero Transport Infrastructure

CRIPI



28 September – 2 October 2026
Palermo, Italy

Organization: UNIPA. D. Lo Presti · M. Cellura (Director, CSTE UniPa) · L. Fratini (Director, Dept. of Engineering, UniPa)