ICONHIC 2026

THEMED SESSION

Prioritising climate adaptation for resilient infrastructure networks

29 June – 2 July 2026 | Chania, Greece

ORGANIZERS

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Deltares, Netherlands

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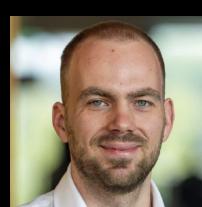VU Amsterdam,
Netherlands

DESCRIPTION

This session invites researchers working on climate risk, systems modelling, and adaptation planning to explore emerging approaches for quantifying cascading impacts across infrastructure networks and informing prioritisation strategies. As climate hazards increasingly trigger cross-sectoral and multi-scale effects, there is a growing need for robust analytical frameworks that capture intra- and interdependencies. In the context of increasing multi-hazard risks, it is essential to understand how compound events (e.g., simultaneous heatwaves and droughts), cascading impacts (e.g., flood-induced transport disruptions affecting supply chains), and consecutive events (e.g., repeated storms weakening infrastructure resilience) interact across sectors and scales.

The session will showcase recent advances in modelling techniques, data integration, and decision-support tools that enable researchers to assess systemic risks and identify adaptation planning. Submissions showcasing real-world case-studies and their relevance to climate adaptation decision-making are encouraged.
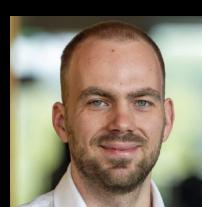
Topics include:
• Quantification of cascading climate impacts across systems
• Adaptation modelling at different scales: from asset-level to network performance
• Prioritisation of climate adaptation planning at multi-sectoral level
• Prioritisation frameworks for adaptation under uncertainty
• Translating research into actionable policy insights

The session aims to advance the field on cross-sectoral climate adaptation strategies to support evidence-based climate adaptation planning.

**EXTENDED ABSTRACT
SUBMISSION DEADLINE
31 March 2026**

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