



IM-SAFE^{.EU}

November 5th
09:00-18:00
UTC+1 2021

Surveying technologies, data-informed safety evaluation and risk management for bridges and tunnels

From the needs to the standardization



SYMPOSIUM SCHEDULE

Morning Session Moderated by P. Darò (SACERTIS Ingegneria S.r.l., Italy)

09:00-09:15 Welcome and IM-SAFE project progress

09:15-10:15 Surveying technologies

Contributors: A. Sánchez Rodríguez ⁴, M. Longo ³, J. Zach ⁵, M. Solla ⁴ and J. Martínez ⁴

10:15-10:30 Coffee Break

10:30-11:30 Damage indicators and vulnerable elements

Contributors: B. Riveiro Rodríguez ⁴, A. Sánchez Rodríguez ⁴ and A. Strauss ²

11:45-12:45 Performance indicators

Contributors: A. Strauss ², K. Bergmeister ² and L. Ptacek ²

12:45-13:00 Conclusions and outlook

Afternoon Session Moderated by A.J. Bigaj-van Vliet (TNO, the Netherlands)

14:00-14:15 Welcome and IM-SAFE project progress

14:15-15:30 Data-informed structural performance assessment

Contributors: P. Darò ³, G. Mancini ³, A. Strauss ², D.L. Allaix ¹, A.J. Bigaj-van Vliet ¹

15:30-16:00 Coffee Break

16:00-17:30 Risk assessment and risk-based framework for maintenance management

Contributors: H. van Meerveld ¹, A.J. Bigaj-van Vliet ¹, B. Cerar ¹, A. Strauss ²

17:30-18:00 Conclusions and outlook

Symposium Organizers:

¹ TNO, Delft, the Netherlands

² University of Natural Resources and Life Sciences, Vienna, Austria

³ SACERTIS Ingegneria S.r.l., Turin, Italy

⁴ University of Vigo, Vigo, Spain

⁵ Mostostal, Warszawa, Poland

Register here!

free of charge



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SYMPOSIUM DETAILS



Morning Session details

09:15-10:15 Surveying Technologies

- State-of-the-practice of the most relevant surveying technologies for bridges and tunnels
- Fitness-for-purpose of surveying technologies
- State of standardization in data collection

10:30-11:30 Damage Indicators and vulnerable elements

- Damage Indicators for main damage processes for transport infrastructure
- Identification of vulnerable elements for bridges and tunnels
- Applicability of Damage Indicators and surveying technologies for vulnerable elements

11:45-12:45 Performance Indicators

- Concept of Performance Indicators
- Use of Performance Indicators in practice of the different EU countries
- Understanding importance of Performance Indicators for the Community of Practice

Afternoon Session details

14:15-15:30 Data-informed structural performance assessment

- Risk-based, reliability-based & semi-probabilistic assessment methods for existing structures
- Current and future use of monitoring data in the structural assessment
- Risk-based prioritization for assessment, maintenance, monitoring and remedial interventions

16:00-17:30 Risk assessment and risk-based framework for maintenance management

- Best practices in risk assessment
- Challenges of the implementation risk-based maintenance management and condition-based maintenance for bridges and tunnels
- Condition state classification and minimum maintenance levels for transport infrastructure

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