





Risk management and sustainable underground solutions

12th - 13th May 2023

Athens, Greece

12th May - FRIDAY

Session 1: Risk management principles

08:30 - 09:00 Registration

09:00 - 09:10 Opening - Short Introduction

/Chrysothemis Paraskevopoulou/

09:10 - 09:50 How to handle risk in subsurface engineering

/Robert Galler/

09:50 - 10:30 Geological uncertainty, geotechnical investigations, and observational design within the

context of risk

/Mark Diederichs/

10:30 - 10:45 Coffee Break

10:45 - 11:25 Main risks associated to deep tunnels

/Gerard Seingre/

11:25 - 12:05 Risks in Planning, Design & Construction of Large Diameter Tunnels

/Sotirios Vardakos/

12:05 - 12:15 Q&A

12:15 - 13:30 Lunch

Session 2: Tendering & Implementation during construction

13:30 - 14:10 Monitoring for avoiding hazard situation during construction

/Klaus Rabensteiner/

14:10 - 14:50 Contractual practices and geotechnical baseline reports

/Matthias Neuenschwander/

14:50 - 15:05 Coffee Break

15:05 - 15:45 Conventional tunnelling cost assessment and benchmarking

/Chrysothemis Paraskevopoulou/

15:45 - 16:25 Examples of risk management in mechanized tunnelling

/Karin Bäppler/

16:25 - 16:35 Q&A

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13th May - SATURDAY

Session 1: Sustainability issues

09:10 - 09:50 Introduction to Sustainability Issues in Tunnelling - A look underground in delivering a sustainable future for our people and planet

/Arnold Dix & Antonia Cornaro/

09:50 - 10:30 Sustainability issues in tunnelling

/Giovanny Alvarado/

10:30 - 10:45 Coffee Break

10:45 - 11:25 Workshop with ITACUS team

/Marilu Melo/

11:25 - 12:05 Life cycle assessment and sustainability

/Panagiotis (Panos) Spyridis/

12:05 - 12:15 Q&A

12:15 - 13:30 Lunch

Session 2: Implementation during design, construction, and operation

13:30 - 14:10 Digitalization and numerical methods contributions towards sustainability

/Mike Mooney/

14:10 - 14:50 Holistic management of emergencies handling on road tunnels: The experience from safety drills

/Konstantinos Kirytopoulos/

14:50 - 15:05 Coffee Break

15:05 - 15:45 Example in CO₂ reduction in tunnel construction from a material technology point of view /Wolfgang Aldrian/

15:45 - 16:25 Examples for resilient tunnel evacuation

/Andreas Benardos/

16:25 - 16:35 Q&A

16:35 - 17:25 Panel discussion on the Future of Tunnelling (Round Table from Underground Experts from Greece)

/Sergios Lampropoulos, Ioannis Lefas, Nick Koronakis, Ilias Michalis/

17:25 - 17:30 Closing remarks