

Sustainability in underground design – practical implementations

2nd – 3^d September 2022

Copenhagen, Denmark

02 September 2022

Session 1: Sustainability

08:30 – 09:30: Registration
09:30 – 09:45: Opening (DFTU-ITA)
09:45 – 10:30: Introduction to sustainability
10:30 – 11:15 Carbon costing – a worked example

11:15 – 11:45: Coffee Break

11:45 – 12:30: Reduce the footprint – contractor's viewpoint
12:30 – 13:15: A clients perspective
13:15 – 13:30: Q&A

13:30 – 14:30: Lunch

Session 2: Innovative use of underground space

14:30 – 15:15: Advantages of underground space regarding sustainability issues
15:15 – 15:45: Helsinki - a case study in underground urban planning

15:45 – 16:15: Coffee break

16:15 – 17:45: Workshop for underground space planning
17:45 – 18:00: Q&A

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Session 3: Immersed tunnelling

09:00 – 09:45: Historic challenges addressed by innovations in immersed tunnel technology

09:45 – 10:30: Design topic

10:30 – 11:00: *Coffee break*

11:00 – 11:45: Immersion techniques

11:45 – 12:30: Case study

12:30 – 12:45 Q&A

12:45 – 14:00: *Lunch*

Session 4: Mechanized tunnelling

14:00 – 14:45: Historic challenges addressed by innovations in technology

14:45 – 15:30: Choice of the TBM

15:30 – 16:00: *Coffee break*

16:00 – 16:45 Real-time monitoring and simulations and the role of a digital twin as central source of data and information

16:45 – 17:30: Use of steel fiber

17:30 – 18:00: Q&A - Closing remarks