



ITA, the International Tunnelling and Underground Space Association, organizes the first ever Tunnelling Week from 20 to 24 September 2021.

These 5 days of online conferences and debates dedicated to the underground construction industry, will be the occasion to give an annual overview of the global tunnelling activity, present key figures, and future projects all over the world.

Thanks to our digital platform, each session include live or prerecorded presentations as well as a live debate with the panelists. Participants are able to access an exhibition hall, a viewing room with different videos of projects, ITA library with many publications and a chat to exchange with other participants. The event is available free of charge after registration.

PROGRAMME\*

## Monday September 20<sup>th</sup>

**10:30 CEST** **Opening ceremony**

**11:00 - 13:00 CEST** **Session 1**  
**Presentation of the following projects**

- Central Interceptor (New Zealand)
- World's first spiral excavation using H&V shield method - Rainwater Discharge Pipe under Tachiaigawa (Japan)
- Advanced analytics for early damage detection in TBM/EPB's cutting wheel and excavation tools (Spain)
- City Rail Link (New Zealand)
- Excavating mixed rock where risk of landslide is high - North construction site of Yoshinomoto tunnel, Higashikyushu Expressway (Japan)
- Overview of tunnelling in Thomson Line - from design to completion (Singapore)

**17:00 - 19:00 CEST** **Session 2**  
**Presentation of the work from WGs and Committees**

- Shafts (WG23)
- TBM services guidelines (ITAtch)
- Health and safety planning guide (WG5)

**Permanent sprayed concrete linings (WG12/ITAtch)**

- Presentation of the guideline
- Panel discussion

## Tuesday September 21<sup>st</sup>

**13:00 - 15:00 CEST** **Session 3**  
**Tunnel refurbishment - ITACET Lunchtime Series**

- An overview on developments of tunnel refurbishment in Europe
- A case history on tunnel refurbishments in Wellington (New-Zealand)
- Challenges for asset managers in Belgium facing aging tunnels in full operability

**17:00 - 19:00 CEST** **Session 4**  
**Presentation of the following projects:**

- Tunnels in Greece hereafter - upcoming planned underground project in Greece
- The « CNIT La Défense » railway station in Paris: From the temporary to the permanent large-scale underpinning (France)
- Saint-Denis-Pleyel, an emblematic station in any points of view (France)
- The tunnel market and opportunities in Brazil
- The construction of the tunnels of the Américo Vespucio Oriente 1 project in Santiago de Chile (Chile)

## Wednesday September 22<sup>nd</sup>

**12:00 - 14:00 CEST** **Session 5**  
**Underground space in environmental planning. Full session ITACUS**

- AG urban sustainability
- AG Think Deep National Action Programme
- AG Young Professional Think Deep Programme (YPTDP)
- Multi-Dimensional Planning Approach (MDPA)
- Underground space development in Hong-Kong (China)
- Underground space development in Singapore

**17:00 - 19:00 CEST** **Session 6**  
**Presentation of the following projects:**

- MBHLS - Geological risks mitigation - Variable density TBM slurries development - Lyon Metro B (France)
- Upgrade of ancient Madrid Metro Tribunal Station by modelling with modern 3D models (Spain)
- Tunnelling market in Poland
- Turkey's longest highway tunnel: new Zigana Tunnel
- Ovit Tunnel (Turkey)
- EPB TBM 10 km subsea tunnel for drainage works (India)
- E16 - Vossebanen (Norway)

**12:00 - 14:00 CEST** **Session 7**  
**Beyond tunnelling - views from the new generation tunnellers**

- Sessions organized by the ITA YM with 6 presentations
- Towards resilient infrastructures with digital transformation and predictive maintenance
- Integrating environmental sustainability with tunnel planning and designs
- Young engineers leading innovation in tunnel design
- Believe in the light at the end of the tunnel
- Young tunneller challenges in micro-tunnelling
- A Swiss engineer in the French metropolis: a first international team experience

## Thursday September 23<sup>rd</sup>

**12:00 - 14:00 CEST** **Session 7**  
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- Integrating environmental sustainability with tunnel planning and designs
- Young engineers leading innovation in tunnel design
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16:00 - 18:00 CEST

**Session 8**  
**Structural use of fiber reinforced concrete in precast segments**

- Lessons from 20 years of application
- Design procedure for precast fibre reinforced concrete
- Example of the design of FRC segments
- FRC product aspect
- Grand Paris Linéa 16.1: Case studies
- Tunnelling tomorrow

## Friday September 24<sup>th</sup>

12:00 - 14:00 CEST

**Session 9**  
**Presentation of the following projects: Tunnelling in China**

- Outline of tunnelling in China
- Challenges and countermeasures of big TBM projects in China
- Challenges and countermeasures of the largest immersed tunnel under construction in China
- Design and construction badaling underground HSR Station on Beijing-Zhangjiakou High Speed Railway (China)
- A cloud based intelligent system for fully automated realtime design of tunnel supporting system (China)

16:00 - 18:00 CEST

**Session 10**  
**Contracts and Insurance**

- FIDIC Emerald book
- ITIG

**Closing ceremony**

- Announcement of ITA Awards Finalists

PROGRAMME\*

\* Subject to change