

FRIDAY 27TH NOVEMBER 2020 • FULLY DIGITAL • FREE PARTICIPATION

THE SECOND EUROPEAN CONFERENCE ON TUNNEL RENOVATION

[WWW.BEYONDATUNNELVISION.EU/
REGISTER](http://WWW.BEYONDATUNNELVISION.EU/REGISTER)

13.00 PLENARY BROADCAST

13.00 Opening

13.10 Strategic round table discussion

In a round table set-up decision makers from public infrastructure managers will engage in a dialogue with representatives from the EC, industry and supporting research organisations on setting the direction for innovation collaboration over the next ten to twenty years. Common issues to be addressed include:

- **Resolving the many current knowledge gaps** in order to transit from reacting to unexpected incidents to predictive maintenance and renovation from a lifecycle, risk-based approach.
- **Harvesting benefits from digitalisation** in order to reinforce resilience and sustainability of tunnels
- **Reinforcing professional competence development** across the delivery chain in anticipation of changing societal needs and demands, such as smart mobility and cybersecurity.

At the table:

- **Jürg Röthlisberger**, CEDR president, ASTRA/FEDRO, Switzerland
Representing the common perspective from the Swiss situation as director of the Federal Roads Agency as well as the 29 national road authorities in the Conference of European Directors of Roads.
- **Jan Slager**, programme director Rijkswaterstaat, The Netherlands
Representing the perspective from the Dutch national programme for infrastructure replacement and renewal.
- **Michael Ebbesen**, director of operations and maintenance, and **Gert Didriksen von der Ahé**, director of technology, Denmark
Representing the Danish Road Directorate and the administrative authority for the Fehmarnbelt tunnel consortium.
- **Stefan Maurhofer**, president of the EUTF, Switzerland
Nine countries collaborating on a joined action plan/research agenda for tunnel innovation (both rail and road).
- **Robert Missen**, head of unit, research and innovation, DG Mobility and Transport, European Commission
Representing the European Commission DG MOVE.



Similar to 2018, your hosts on the main stage will be Karin de Haas (COB) and Steve Phillips (CEDR)

13.30 BREAK

13.35 **THEME Asset management**

Trond Michael Andersen, deputy director manager at the department of technology, operation and maintenance at the NPRA shares his views on predictable maintenance, life cycle thinking, the changed role of the tunnel manager, etc.

13.40 **THEME Predictive maintenance**

The first results of the tunnel programme 2030 are introduced. This joined effort by The Netherlands and Flanders lets 22 tunnels get a structural health analysis to bring more focus in the renovation task and close structural knowledge gaps. A virtual practice environment is presented by **Willy Peelen** (TNO/Deltares). **Tom Roelants** (DG Flanders) responds to the demonstration.

13.55 **THEME Tunnel safety**

ITA Cosuf and the PIARC committee on road tunnel operation have worked on a joined vision paper. After a short introduction the highlights are discussed with **Ingo Kaundinya**, chair of PIARC TC 4.4 'Tunnels', and **Max Wietek**, president of ITA COSUF. **Jürg Röthlisberger** responds on behalf of CEDR.

14.05 BREAK

14.10 **THEME Lessons learned**

Monitoring and inspection have to be brought to a higher level considering the huge renovation task. How does the Italian tunnelling community cope with this challenge? Interview with **Andrea Pigorini**, president of the Italian Tunnelling Society and Italferr (part of the Italian State Railways Group).

14.15 **THEME Adding value in tunnel renovations**

Interview with **René List**, project leader renovation of 54 tunnels by ASFINAG/ASECAP (Austria). The renovations were combined with implementing cutting edge innovations in sustainability. He will discuss with **Jan Slager** from Rijkswaterstaat the national investment programmes for renewal and renovation. **Robert Missen** responds on behalf of DG MOVE.

14.25 **Wrap-up: Bring your own tunnel**

Back to the beginning: launching the European network. The process for a 2021-2022 working programme for CEDR will be explained as well as the alignments of national programmes to a European programme. There will be a ceremonial signing of a (renewed) MOU between CEDR and PIARC by **Jürg Röthlisberger** (president CEDR) and **Claude Van Rooten** (president PIARC).

14.40 BREAK

15.00 PARALLEL SESSIONS

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15.00 PARALLEL SESSIONS

Seven countries are hosting a parallel programme consisting of four sessions with 15 minutes presentation and 5 minutes discussion, and an overall wrap-up with all speakers.

- 15.00 Round 1
- 15.20 Round 2
- 15.40 Round 3
- 16.00 Round 4
- 16.20 Wrap-up

CONFIRMED TOPICS:

More is yet to come! Check out the website www.beyondatunnelvision.eu/programme

The Netherlands

THEME Toolbox for the tunnel owner

- Structural health analysis (SHA): getting a grip on the actual residual lifespan of civil structure of tunnels.
- Knowledge system and other tools for the SHA.

Belgium

THEME Challenges for infrastructure asset management

- A strategic asset management framework for improving transport infrastructure.
- Cost-benefit analysis for fire, life safety and business continuity.
- Cross-asset, reliability-based life cycle management of tunnels.

France

THEME Sustainability

- Innovation in energy savings: lighting the way!
- Sustainable checklist for tunnel renovation.

Norway

THEME Digitalisation

- Capacity boost - tunnel safety and digitalisation.
- Tunnel digitalization center - digital services for tunnel maintenance.
- Digital transformation of tunnel renovations. Case: Koningstunnel The Hague.
- How to exploit rapid digital innovation in safety-critical application areas.

Germany

THEME New refurbishment techniques

- Renovation tunnels Schiphol - practical lessons.
- Sprayable geopolymer concrete for improvement of fire resistance and upgrading.
- Temporary ventilation and measures to assure air-quality during refurbishment works.
- Refurbishment with a water mist system for the Hugh L. Carey Tunnel in New York City.

Austria

THEME Tunnel safety and security

- Joint workshop ITA COSUF and PIARC, towards a holistic approach on tunnel safety.
- From regulation to innovation.
- New energy carriers.

Italy

THEME Inspection investigation monitoring during service life

- Reflection on Bologna conference Tunnelling 4.0.
- Lessons learnt from recent experiences.
- Analysis of tunnel monitoring data: interpretation of observed behaviours.
- Structural and geotechnical monitoring for infrastructural asset management: new perspective.

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