



2nd European Forum of Road Tunnel Safety Officers
Brussels, 18 January 2012

Welcome from ITA COSUF

the **C**ommittee on **O**perational **S**afety
in **U**nderground **F**acilities

of the **I**nternational **T**unnelling and
Underground Space **A**ssociation

ITA COSUF Mission Statement

ITA COSUF aims to be the **Centre of Excellence** for **world-wide exchange** of information and know-how regarding **safety** and **security** of underground facilities



ITA COSUF Scope and Objectives

➤ Scope

- **safety** and **security**
- **in operation** (*construction is excluded*)
- **in all kinds of** tunnels (road, rail, metro)
and other **underground facilities**

➤ Objectives

- Maintain / develop a **network**
(to exchange knowledge & build teams)
- Enhance **R&D** activities and foster **innovation**
- **Promote** underground safety and security,
(incl. by supporting improved regulations)



What is ITA COSUF?

- A committee of ITA, the International Tunnelling and Underground Space Association (64 Member Nations, 310 Affiliate Members)
- Also supported by PIARC, the World Road Association (118 Member Governments, members in 142 countries)



Origins of ITA COSUF

- 8 European research projects / thematic networks funded under the 5th & 6th Framework Programmes

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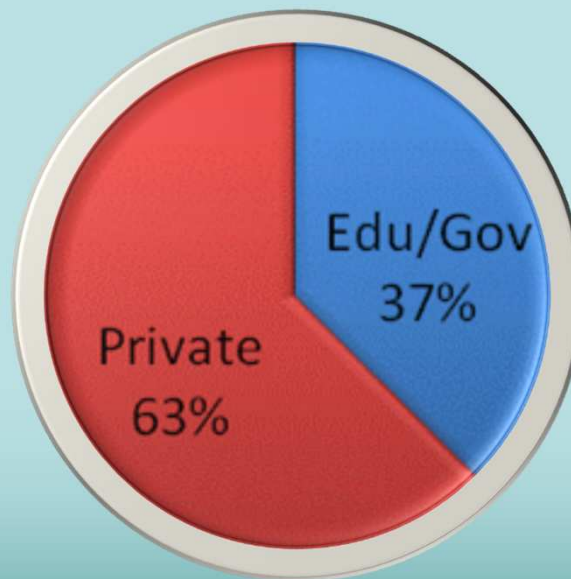


which wished to continue co-operation and were established an ITA committee in 2005



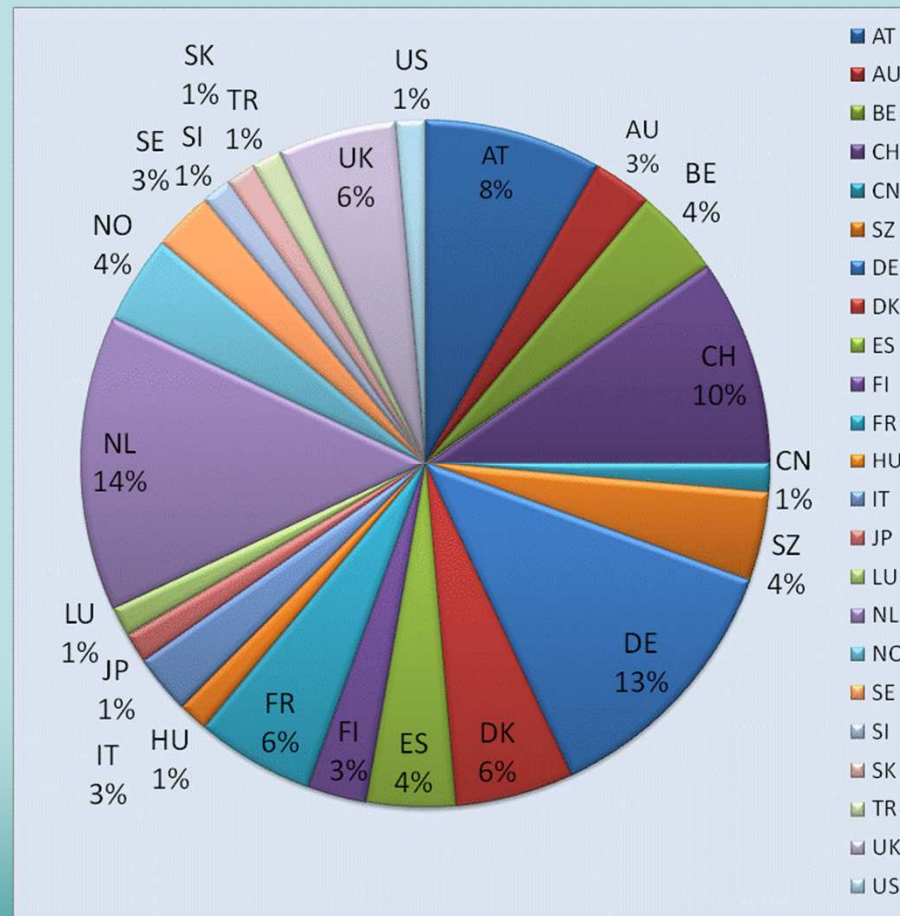
Membership

- Open to corporate and individual membership (currently more than 70 corporate members)
- Annual fee (250€: public/education & individuals; 500€: others)



Membership

- 23 countries from 4 continents are represented



Activity Groups

- 4 AGs open to all ITA COSUF members (and only them)
- Each AG meets twice a year, together with ITA COSUF workshops



Activity Groups

- AG1: Interaction with European and international activities
(Leader: Ben van den Horn, NL)
- AG2: Regulations and best practice
(Leaders: Stig Ravn, UK & Peter Reinke, CH)
- AG3: Research and new findings
(Leader: Götz Vollman, DE)
- AG4: Road Tunnel Safety Officers
*(Current leader: Alain Picard, FR
Future leader: Johann Bosch, NL)*



ITA COSUF Workshops

- One open workshop every year (reduced fee for members)
- 24 May 2011 = Helsinki
Designing Underground Safety: How far to go?



2nd European Forum of Road Tunnel Sa



ITA-COSUF Workshop and General Assembly

24. May 2011, Helsinki, Finlandia Hall

Designing Underground Safety – How far to go?

Location:	Finlandia Hall, Mannerheimintie 13 e, FI-00100 Helsinki Room: Elissa
23. May 2011	Welcome Reception jointly with WTC 2011 <i>Details on venue, time etc. will be provided at registration.</i>
24. May 2011	Workshop
08'30 – 09'00	Registration
09'00 – 10'00	General Assembly of ITA-COSUF (for ITA-COSUF members only!)
10'00 – 10'15	Coffee Break
10'15 – 11'30	Session 1: Hazardous Incidents – Impacts and Loads
1.1 10'15 – 10'35	Explosive Impacts – Local and Global Damages <i>Alexander Stolz, Fraunhofer-Institute for High-Speed Dynamics, EMI, Germany</i>
1.2 10'35 – 10'55	Design Loads and Methods for Explosive Impacts <i>Dr. Markus Noeldgen, Schuessler-Plan Consultants, Germany</i>
1.3 10'55 – 11'15	Design Fires for Road Tunnels – State-of-the art by PIARC <i>Arnold Dix, Australia</i>
1.4 11'15 – 11'30	Discussion <i>Chaired by Goetz Vollman, Leader of AG 3 of ITA-COSUF</i>
11'30 – 13'00	Lunch break
13'00 – 13'30	Opening session
0.1 13'00 – 13'05	Welcome on behalf of ITA-COSUF <i>Felix Amberg, ITA-COSUF Chairman</i>
0.2 13'05 – 13'30	How far to go? <i>Prof. Ira Helsloot, Free University of Amsterdam, The Netherlands</i>
13'30 – 14'45	Session 2: Simulation, Validation and Mitigation Measures
2.1 13'30 – 13'50	Friendly Fires and Elephant Fires – Simulation, Validation and Mitigation <i>Prof Dr Haukur Ingason, SP, Sweden</i>
2.2 13'50 – 14'10	Simulation and Validation of Explosions in Confined Spaces <i>Christoph Roller, Fraunhofer-Institute for High-Speed Dynamics, EMI, Germany</i>
2.3 14'10 – 14'30	Optimizing the Extend of Safety Measures for the Femern Belt Subsea Tunnel <i>Jørn Trelldal, Ramboll, Denmark</i>
2.4 14'30 – 14'45	Discussion <i>Chaired by Niels Hoj, Member of the Steering Board of ITA-COSUF</i>
14'45 – 15'00	Coffee break
15'00 – 16'35	Session 3: Experienced gained when Putting into Reality
3.1 15'00 – 15'20	Citybanan, CEVA, Durchmesserlinie – Similar projects but different safety measures <i>Anders Silver, Trafikverket, Sweden; Peter Reinke, HBI, Switzerland</i>
3.2 15'20 – 15'40	SOLIT ² Research Project – FFFS in Tunnels: Compensation and Integration <i>MSc Stefan Kratzmeir, Institute for Applied Fire Safety Research (IFAB GmbH), Germany</i>
3.3 15'40 – 16'00	Prescriptive Guidelines vs. Performance Oriented Approach <i>Dr. Frank Heimbecher, Federal Highway Research Institute (BAST), Germany</i>
3.4 16'00 – 16'20	Safety Measures and Regulations in the Context of the Law <i>Marleen Elenbaas, LL.M, Boekel-DeNeree Amsterdam, The Netherlands</i>
3.5 16'20 – 16'35	Discussion <i>Chaired by Dirk Sprakel, Member of the Steering Board ITA-COSUF</i>
16'40 – 16'50	ITA-COSUF Award 2010 <i>F. Amberg, ITA-COSUF Chairman</i>
16'50 – 17'00	Conclusions and closing remarks <i>F. Amberg, ITA-COSUF Chairman</i>

For further details, application, prices etc: Please refer to www.wtc11.org.
One-day registration (for Tuesday, 24 May only), € 350,-

ITA COSUF Workshops

- One open workshop every year (reduced fee for members)
 - 24 May 2011 = Helsinki
Designing Underground Safety: How far to go?
 - **22 June 2012 = Rome**
Safety vs Economic Crisis: Cost-Efficiency of Tunnel Safety Measures

***Reserve the date
in your diary!***



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ITA COSUF Workshops

- One private workshop every year (reserved for members)
 - 14 Nov. 2011 = Amsterdam Metro/rail/road underground projects



ITA COSUF Workshops

- One private workshop every year (reserved for members)
 - 14 Nov. 2011 = Amsterdam
Metro/rail/road underground projects
 - Autumn 2012 = Madrid



Various other ITA COSUF products

- ITA COSUF Award for young researchers
(Every year - 2012 deadline = 29 February)
- Worldwide survey of road tunnel regulations & recommendations
(data from 27 countries – available on website)
- Newsletter (3 per year)
- Website: cosuf.ita-aites.org
- And of course: **Today's Forum !**





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Thank you for your attention!