



WG 2 – RESEARCH

Animateur:

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Tutor:

Eric Leca



13. Working Groups and Committees

Working Group 2 - Research

Animateur: Chungsik Yoo (Korea)

Vice-Animateur: Elena Chiriotti (France)

Tutor: Eric Leca (France)



13. Working Groups and Committees

Working Group 2 - Research

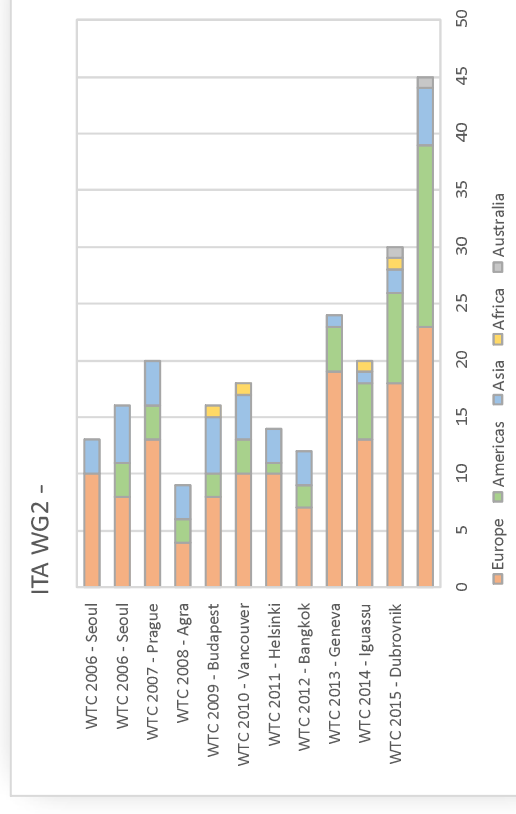
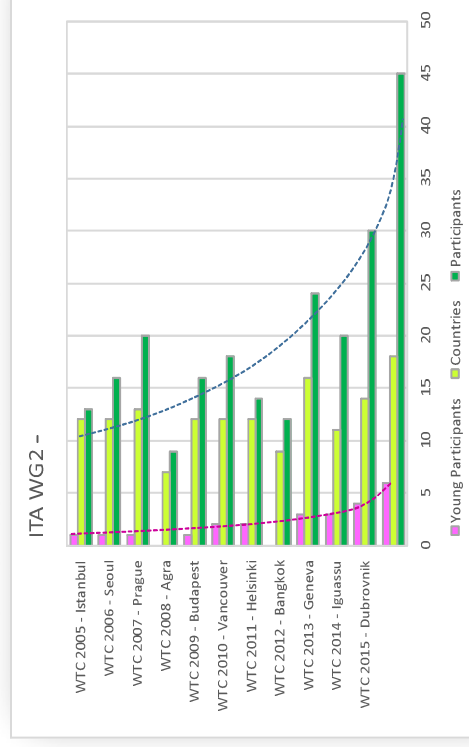
- ❑ Two meetings held in San Francisco April 24th & 25th
- ❑ 45 participants from 16 countries: Australia (3), Austria (2), Belgium (2), Brazil (2), China (1), Colombia (1), Korea (2), Spain (1), France (3), Germany (2), Italy (3), Japan (1), Malaysia (1), Sweden (2), UK (3), USA (14)

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Participants

- Constant interest in WG2 activities → benefits for broad topics
- Historic core group facilitating the continuity of the activity
- Pick of participation in USA
- Increasing number of Youngers



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On-going Activities

- Face Support Pressure Calculation in Shield Tunnelling
- Risk Assessment (Application Guide)
- In-Situ Stress Measurements
- Design of Segment Lining
- Tunnelling-induced Utility Damage
- Damages of Segmental Lining
- Selection Criteria for Geophysical Exploration Methods for Tunnelling

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Progress at WTC 2016

ONGOING ACTIVITIES	Task Team	Content settled	Proposed structure	1st draft	Final draft	Internal reviewers	Internal review
Face Support Pressure Calculation in Shield Tunnelling							
Risk Assessment (Application Guide)							
In-Situ Stress Measurements							
Design of Segment Lining							
Tunnelling-induced Utility Damage							
Damages of Segmental Lining							
Selection Criteria for Geophysical Exploration Methods for Tunnelling							

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Expected progress at WTC 2017 – on going activities

ONGOING ACTIVITIES	Task Team	Content settled	Proposed structure	1st draft	Final draft	Internal reviewers	Internal review
Face Support Pressure Calculation in Shield Tunnelling (*)							
Risk Assessment (Application Guide)			ON-LINE QUESTIONNAIRE				
In-Situ Stress Measurements							
Design of Segment Lining (*)							
Tunnelling-induced Utility Damage							
Damages of Segmental Lining			ON-LINE SURVEY				
Selection Criteria for Geophysical Exploration Methods for Tunnelling							

(*) READY FOR ITA REVIEW BEFORE WTC 2017



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Two additional subjects identified during WTC 2016

- Longitudinal joints design for fibre reinforced segmental tunnel linings
- Tunnelling-induced settlement and damage to buildings
[ON-LINE QUESTIONNAIRE](#)

HOW DO WE DO ?



We continue to **keep the motivated attitude of members**
by encouraging the contribution of individuals
through **small Task-Teams within the WG**,
each having objectives to achieve and to share with the WG

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Expected progress at WTC 2017 – new activities

ONGOING ACTIVITIES	Task Team	Content settled	Proposed structure	1st draft	Final draft	Internal reviewers	Internal review
Longitudinal joints design for fibre reinforced segmental tunnel linings							
Tunnelling-induced settlement and damage to building		REQUEST FOR FUNDS →	DATABASE of VOLUME LOSS				

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Working Group 2 - Research

GOING FORWARD

- **Remain a dynamic WG:** needs participants, ideas, dynamism, time and passion
- Continue to **keep the motivated attitude of members** by encouraging the contribution of individuals
- **Encourage the exchange on RESEARCH among continents and cultures**
- Share our achievements: **increase the cooperation with ITA-CET**
- Listen to the needs of the ITA Community: **your suggestions are precious to us!**
- Encourage the Youngers to work with us: **needs new points of view!**