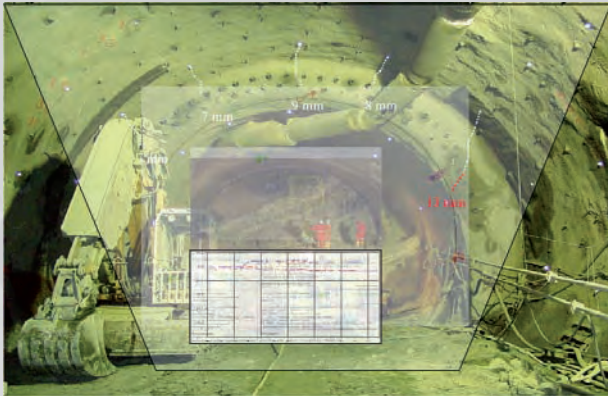


Tunconstruct is an European intergrated project which brings together 41 partners (clients, construction industry, SMEs, research organisations and universities) from 11 member states. With the number of partners involved and the allocated budget (25 million Euros over 4 years) a considerable and tangible progress in research and development associated with the design, construction and service of tunnels is achieved. The aim of the project is to develop innovative solutions for underground facilities that will result in decreased risk, cost and environmental impact, while increasing durability. All aspects of the underground construction life-cycle are considered, from planning to maintenance.



The workshop aims at highlighting some of the major achievements of this project. The presentations will cover innovations in computational methods for the design and construction of tunnels, new excavation technologies and support materials and advanced methods for monitoring, inspection, maintenance and repair. In addition to the oral presentations posters of selected achievements will be presented. Participation is free of charge.



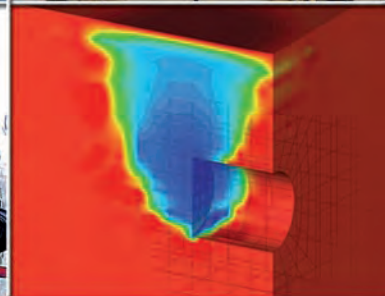
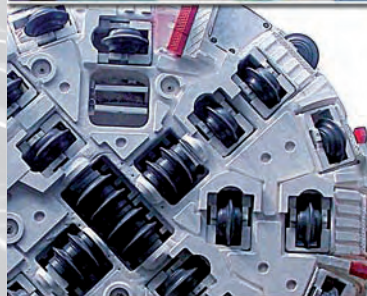
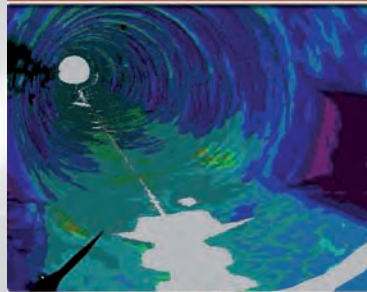
Contact

For more information on Tunconstruct please consult www.tunconstruct.org

For information on the workshop contact guenther.meschke@rub.de

TUNCONSTRUCT

WORKSHOP ON TECHNOLOGY INNOVATION IN UNDERGROUND CONSTRUCTION



ITA - AITES
WORLD TUNNEL CONGRESS 2009
BUDAPEST CONGRESS AND
WORLD TRADE CENTER

26. MAY 2009, 14:00-19:00

MOZART HALL
JAGELLÓ ÚT 1-3,
1124 BUDAPEST, HUNGARY

14:00-14:10 **Introductory remarks** (G. Beer, Graz University of Technology, Austria)

14:10-15:50 **Design and Construction Processes in Tunnelling**

Structured Design Processes in Tunnel Engineering, W. Schubert, N. Radonic (Graz University of Technology, Austria)

Advances in Computational Simulation in Mechanized Tunnelling, G. Meschke, F. Nagel, J. Stascheit (Ruhr-University Bochum, Germany), G. Exadaktylos (TU Crete, Greece), A. Gens (TU Catalunya, Spain)

IOPT: A Novel Design Support System for Integrated and Structured Tunnel Design, D. Hartmann, K. Lehner, I. Mittrup, K. Oberste-Ufer (Ruhr-University Bochum, Germany)

New Developments in Real-time Monitoring of Ground Settlements, M. de Broissia (Bouygues, France), V. Dewynter-Marty (CEA-LIST, France), C. Canepa (ACOME, France)

Integrated Assistance and Control System for TBM Drives in Soft Ground Conditions, K. Oberste-Ufer (Ruhr-University Bochum, Germany), M. Pfeiffer (HOCHTIEF Construction AG, Germany), D. Kessler (STUVA, Germany)

New Developments in Tunnel Information Management, K. Chmelina (GEODATA, Austria), G. Armijo (GEOCISA, Spain)

15:50-16.20 **Coffee Break**

16:20-18:00 **Tunnel Technologies, Maintenance and Repair**

New Developments in TBMs, F. Köppl (Herrenknecht AG, Germany)

New Developments in Segmented Linings, H. Otremba (HOCHTIEF Construction AG, Germany)

New Developments in Roadheaders, E. Lammer (Sandvik, Austria)

Application of Life-Cycle-Cost Models for the Optimization of Maintenance Costs in Tunnels, R. Leucker (STUVA, Germany)

Robotics for Inspection and Repair in Tunnels, E. Martin (Dragados, Spain)

Durability Modeling and Testing of Reinforcement Corrosion in Tunnel Linings, C. Andrade (Instituto Torroja, Spain)

18:00-19:00 **Panel Discussion and Closing Remarks**

M. Knights (President ITA, UK), C. Dumoulin, (Coordinator European Construction Technology Platform, France), G. Beer (Coordinator TUNCONSTRUCT, Austria)

