



"Safe Tunnelling For The City and For The Environment"

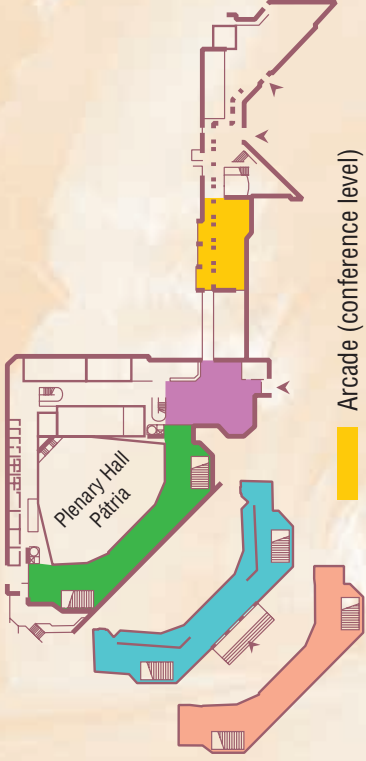
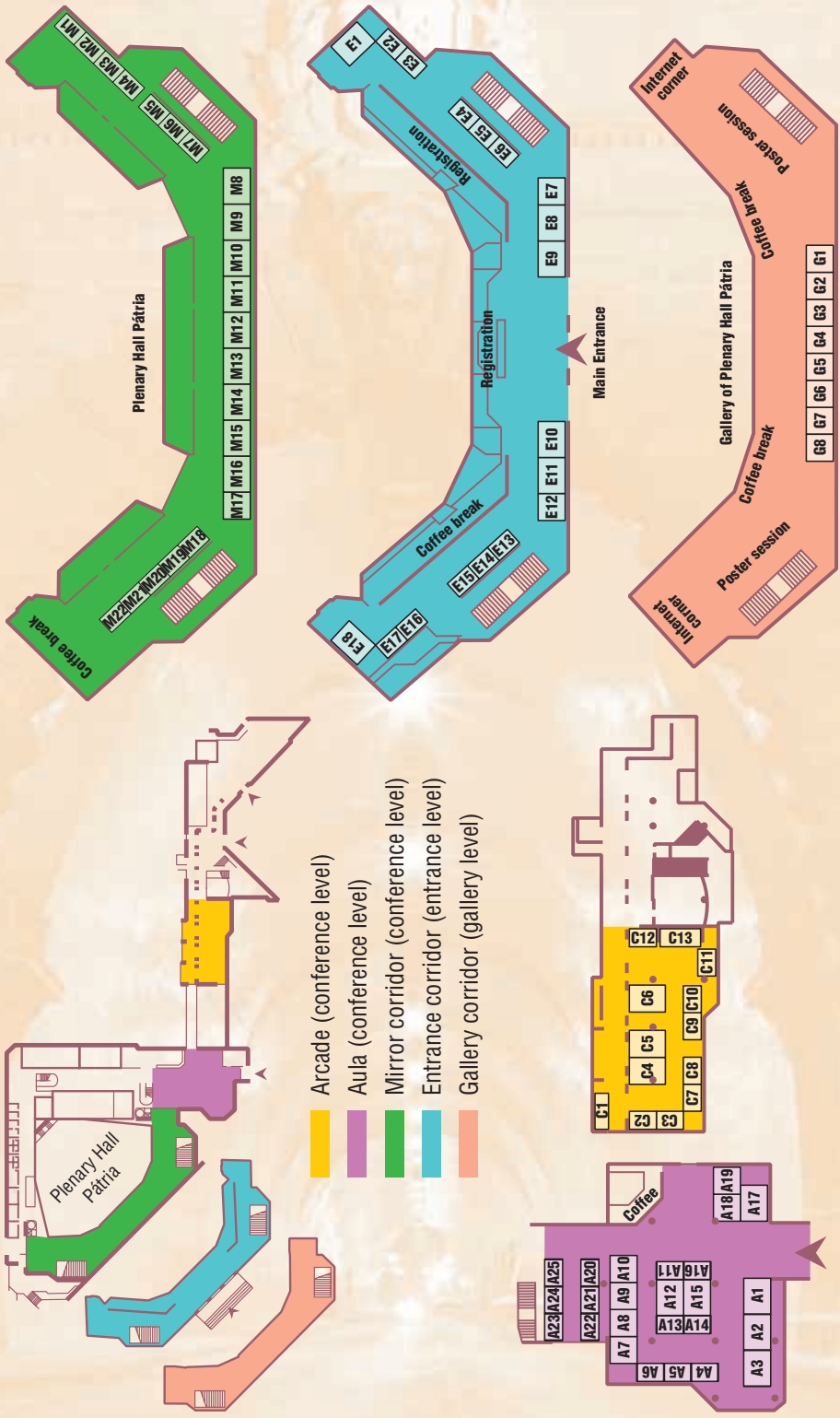
ITA-AITES WORLD TUNNEL CONGRESS 2009
and the
35th ITA-AITES General Assembly

Exhibition Catalogue

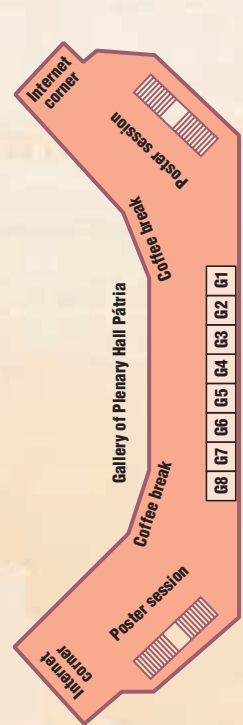
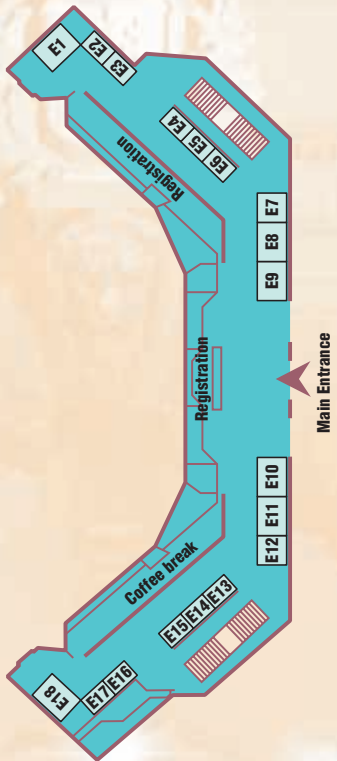
Budapest, Hungary
May 23-28, 2009



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AFTES Plant & Equipment Branch

C12-13

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Contact: François Valin
Contact no: +33 607 33 20 03
E-mail: francois.valin@wanadoo.fr
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Products Displayed: Materials & equipments for tunnels

The Branch Materials & Equipments assure the promotion of the AFTES (French Tunnelling and Underground Space Association) with the manufactures and suppliers of materials and equipments intended for tunnels.

Supplied with the opportunities of reflection and with communication.

Propose the creation of working groups specialized within the Technical Committee.

Amberg Engineering AG / Amberg Technologies AG

E16-17

Amberg Engineering AG
Address: Trockenloostrasse 21,
Postfach 27
CH 8105
Regensdorf-Watt,
Switzerland

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Fax: +41 44 870 06 20
E-mail: info@amberg.ch
Website: <http://www.amberg.ch>

Amberg Technologies AG
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Switzerland

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Tel.: +41 44 870 92 22
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E-mail: tunnel@amberg.ch
Website: <http://www.amberg.ch>

Amberg Engineering is a specialised engineer designer for underground structures. For more than 40 years, we have been developing solutions in the fields of underground railways and roads, caverns and infrastructure tunnels. We are one of the world's leading engineering companies in underground construction.

For over 25 years, Amberg Technologies has remained a leading provider of specialised system solutions for the georeferenced collection and refinement of civil infrastructure information. Thanks to solid knowledge and the steadfast focus of our company, the system solutions from Amberg Technologies enjoy an excellent reputation by experts worldwide.

ARCADIS**E18**

Address: Geologická 988/4,
152 00 Prague 5, Czech Republic

Contact: Ing. Vítězslav Herle,
International Relations Manager

Tel.: +420 234 654 111 (operator)

Fax: +420 234 654 112

E-mail: herle@arcadisgt.cz
info@arcadisgt.cz

Website: <http://www.arcadisgt.cz>
<http://www.arcadis-global.com>

ARCADIS is an international company providing consultancy, engineering and management services in infrastructure, environment and facilities, to enhance mobility, sustainability and quality of life. ARCADIS develops, designs, implements, maintains and operates projects for companies and governments. With more than 14,000 employees and over Euro 1.7 billion in gross revenue, the company has an extensive international network that is supported by strong local market positions.



Atlas Copco s.r.o. Construction and Mining Technique Division

M21-22

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102 00 Prague 10, Czech Republic
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Tel.: +420 225 434 220
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daniel.hrdina@cz.atlascopco.com
Website: <http://www.atlascopco.cz>

The Construction and Mining Technique business area develops, manufactures, and markets rock drilling tools, underground rock drilling rigs for tunnelling and mining applications, surface drilling rigs, loading equipment, exploration drilling equipment, and construction tools.

The business area has its principal product development and manufacturing units in Sweden and in the United States, with other units in Austria, Canada, China, Finland, Germany, India, Japan and South Africa.

In 2008, the business area had revenues of MSEK 31 660.

Customers/Applications

Construction and Mining Technique is a leading supplier to large infrastructure projects, including in particular power plant and transportation link construction projects, as well as global mining companies. Besides drilling rigs, Atlas Copco also manufactures rock drilling tools, such as drill bits, rods, DTH hammers and cutters. Light rock drills, breakers, crushers and pulverizers are used for demolition. Loading equipment is used in underground mining operations and construction projects.

Headquarters

The business area is headquartered in Sweden.

Divisions

The business area is divided into eight divisions; Underground Rock Excavation, Surface Drilling Equipment, Drilling Solutions, Secoroc, Construction Tools, Geotechnical Drilling and Exploration, Road Construction Equipment and Rocktec.

Babendererde Engineers GmbH

A5

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23611 Bad Schwartau, Germany
Tel.: +49 451 300 939 0
Fax: +49 451 300 939 29
E-mail: contact@babeng.com
Website: <http://www.bab-ing.com>

Tunnelling Experts – worldwide

Babendererde Engineers GmbH gives support in the implementation of all technologies in mechanised tunnelling. Through our international projects we are familiar with the state-of-the-art techniques and the different philosophies around the world.

Serving clients as often as contractors we understand the hardships and needs of both groups.

Our know-how in civil and mechanical engineering together with the experience from our projects gives us a detailed insight into the art of tunnelling.

TPC – Tunnelling Process Control

Successful introduction on numerous projects worldwide of the data management and visualisation software TPC.



UGC International – a Division of BASF Construction Chemicals Europe Ltd.

M8-9

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<http://www.ugc.basf.com>

BASF – The Chemical Company

BASF Construction Chemicals Europe AG, Registered Office: Zurich, Switzerland

Companies' Register: Handelsregister des Kantons Zürich no. CH-020.3.917.147-9

Board of Directors: Daniel Joseph Cronin, Olivier Homolle, Hugo Schubiger

UGC International, a Division of BASF Construction Chemicals Europe Ltd., is a leading supplier offering world-wide customized solutions through its unique blend of innovative product technology, specialized equipment and engineering knowledge. Our international tunnelling and mining specialists are working closely with contractors, design engineers and mining houses around the globe to permit the seamless transfer of our state-of-the-art MEYCO® technology and services. As such we strive to offer a complete package that enables you to overcome the underground engineering challenges you face in a safe, cost and time effective manner. Above all, UGC has been instrumental in bringing new methods to the tunnelling and mining industry: Expanding Horizons Underground.

Ceresola TLS AG

M20

Address: Brüelstrasse 26
CH-4312 Magden
Contact: Mr. Aldo R. Ceresola (CEO)
Tel.: +41 61 845 93 40
Fax: +41 61 845 93 41
E-mail: info@ceresola.com
Website: <http://www.ceresola.com>

The centre of excellence for tunnel lining systems

We are a team of experienced specialists for tunnel lining systems, offering the following products and services:

- Tunnel forming systems
- Segment moulds and pre-cast concrete segment production plants
- Steel support systems for excavations
- Canopy pipe systems

The constant development of our products is at the forefront of our being. The needs of our clients are our challenge, thereby measuring our joint success.

Consorzio TRE ESSE

E12

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Fax: +39 35 19951935
E-mail: alberto.balestrieri@consorziotreesse.it
Website: <http://www.consorziotreesse.com>

TRE ESSE Consortium, since 1997, is a consulting and services company specializing in the field of civil and environmental engineering. Main services provided are:

- Designing and execution of geognostic surveys
- Execution of environmental surveys
- Designing and execution of geophysical surveys, dynamic survey and Non-destructive controls
- Designing, realisation and management of topographic (Traditional, real-time automatic, GPS, Laser scanner), structural and geotechnical monitoring systems.
- Execution of environmental monitoring
- In situ tests for the physical and mechanical characterization of structures
- Piles and roadways, static and dynamic load testing for roads and railways

CRC Press/Balkema**E3**

Contact: Janjaap Blom
Senior Publisher
Tel.: +31 71 524 3083
E-mail: janjaap.blom@taylorandfrancis.com
Website: <http://www.balkema.nl>

CRC Press/Balkema, member of the Taylor & Francis Group – a leading international academic & professional publisher, specialises in publishing in Engineering, Earth and Water Sciences.

We have long-standing relations with leading international societies, e.g. *International Society for Rock Mechanics (ISRM)* and *Soil Mechanics and Geotechnical Engineering Society (ISSMGE)*. Our programme contains many books in Tunnelling and Underground Construction. Among our recent publications are the proceedings of the *World Tunnelling Conference 2007* of ITA-AITES.

See <http://www.crcpress.com> for a full listing of titles. Download our catalogue from <http://www.balkema.nl>

DENKA**E4**

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40211, Dusseldorf, GERMANY
Contact: Mr. Akihiro Hori
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Fax: +49 211 329 942
E-mail: hori@denkagermany.de
Website: <http://www.denka.co.jp>

DENKA is Japanese-origin material producer and provides wide range of production including cementitious materials for underground construction. Our materials can introduce special function and performance to cementitious composites as followings and have been used for lots of works all over the world.

DENKA NATMIC: powder accelerator for shotcrete (sprayed concrete) in tunneling.

DENKA ES: powder accelerator for injection milk (soil stabilizer).

DENKA SC-1: powder accelerator for general use.

DENKA PF Mortar: dry-mixed spraying fiber mortar for tunneling.

DENKA CSA: powder type expansive additive for shrinkage compensation in general use, fully different from gas-generation type expansive material.

DMT GmbH & Co. KG**E9**

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Contact: Norbert Benecke
Tel.: +49 201 172 2012
Fax: +49 201 172 1971
E-mail: exploration@dm.de
Website: <http://www.dmt.de>

DMT GmbH & Co. KG is Germany's leading company in geophysical exploration and surveying.

Tunnelling services:

- Gyroscope control survey
- Laser scanning
- Vibration monitoring
- Rockburst monitoring
- True Reflection Underground Seismic Technique (TRUST®)

Geo-equipment:

- SUMMIT II Monitoring
acquisition system for rockburst monitoring and tunnel exploration
- Borehole SHUTTLE
geophysical logging
- CoreScan II
portable drill core scanner
- GYROMAT 3000
the most accurate precisions-surveying gyroscope in the world

DYWIDAG-Systems International GmbH (DSI)**M5-6-7**

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4061 Pasching/Linz, Austria
Contact: Mr. Genshofer
Tel.: +43 7229 61 04 90
Fax: +43 7229 61 04 980
E-mail: alwag@dywidag-systems.at
Website: <http://www.alwag.com>

DYWIDAG-Systems International (DSI) is a global market leader in the development and application of high-quality systems for the construction and underground markets.

As market leader, DSI is present in all global tunneling and mining regions, delivering customized solutions to its clients worldwide – always in accordance with its slogan *“Local Presence – Global Competence”*.

DSI's underground product range is the most extensive product range available on the market and includes a wide variety of rock reinforcement and strata support systems.

EDILMAC of FRATELLI MACCABELLI S.r.l.**E1**

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general manager
Tel.: +39 035 661017
Fax: +39 035 662339
E-mail: edilmac@edilmac.com
Website: <http://www.edilmac.com>

Born in the late fifties has expanded over time, specializing particularly in the management of large quarries, and in the execution of tunnels and shafts. Since 1976 EDILMAC acquired equipment and technology *“RAISE BORER”*, with which is possible to do mechanically excavation of shafts, depth of hundreds of meters up to 6 meters in diameter.

Then EDILMAC developed its own equipment for the enlargement of shafts designed in a larger diameters up to 6 meters.

Encardio-rite Electronics Pvt. Ltd.**G6**

Address: A-7 Industrial Estate, Talkatora Road
Lucknow, UP-226011, India
Tel.: +91 522 2661044
Fax: +91 522 2661043
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Website: <http://www.encardio.com>

Encardio-rite, an ISO 9001:2000 certified, 42 years old company, is known Worldwide as leading manufacturer of quality geotechnical and structural engineering instrumentation. It has great expertise in instrumentation of tunnels, metros & underground cavities. Not only has it instrumenting several metros & tunnels, including Delhi Metro (Phase I and Phase II), Dubai Metro (Red Line and Green Line), Al Salam Street Tunnel, Konkan Railways on turnkey basis, Encardio-rite has also supplied several instrumentation for Athens Metro, Egnatia Motorway, Ankara Metro, Hong Kong Metro, etc. It also has instrumented a number of underground caverns, tunnels and underground powerhouses while executing instrumentation of more than 80% of hydro-electric projects in India.

Encardio-rite's well proven products have been accepted internationally. It exports regularly to over forty countries all over the World and worked with the best Consultants Worldwide. Encardio-rite also instruments bridges; airports & seaports; highways & high rise buildings, CNG tanks, landsides areas and other such construction projects.

FiReP International AG, Switzerland**A20**

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Fax: +41 58 596 50 05
E-mail: info@firep.ch
Website: <http://www.firep.com>

The FiReP Group is known for its FRP (fibre reinforced polymer) products for the construction industry. Many years of development resulted in the continuously threaded rock bolts and reinforcement bars. All FiReP products have a high ultimate load and due to their profile they offer a maximum bonding with all kinds of grout or concrete. Together with well known and highly qualified distributors the group offers worldwide presence and service on site.

FŐMTERV Civil Engineering Designer Ltd.**C2**

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Fax: +36 1 345 9550
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Website: <http://www.fomterv.hu>

FŐMTERV is one of the biggest civil engineering company in Hungary and Budapest since 1950. The company was transferred into private ownership in 1992. Since then, the company has retained it's involvement with the development of Budapest and has also played a major design role in the development of Hungary's national infrastructure. This has included: the motorway network, railways and infrastructure for major developments.

Geoconsult ZT GmbH, Consulting Engineers**E7**

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A-5071 Wals near Salzburg, Austria
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Business Development Coordinator
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Website: <http://www.geoconsult.at>

Geoconsult is a consulting engineering firm serving private enterprises and governments around the world in the fields of infrastructure and environment. As one of the leading tunnel specialist firms in the world, services have been provided for more than 2000 underground projects in over 50 countries. Our staff is experienced with conventional tunnelling, shield and TBM tunnels. Since 1973, Geoconsult has grown into a company with approx. 400 employees, with offices and/or representatives in Austria, the Slovak Republic, Romania, India, Singapore, Taiwan, USA, Mexico, Argentina and Chile.

Geodata Group

E10

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Geodata is a leading provider for geotechnical monitoring & surveying and offers flexible and customised solutions containing provision of hardware, software and services. The range of our services stretches from short-term training periods to assignments of experienced key personal or complete expert teams. Services provided: geotechnical instrumentation and structural monitoring, customised geotechnical monitoring programs, engineering geodesy and surveying systems, tunnel surveying and heading control, optical 3D displacement monitoring, control and network measurements, automatic data acquisition, tunnel information system, laser scanning and consulting services.

Geodata Geoengineering Consultants

E13

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Contact: Massimo Cellino
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Fax: +39 011 597440
E-mail: mci@geodata.it
Website: <http://www.geodata.it>

Geodata Geoengineering Consultants, a private company, founded in 1984 and with more than 140 specialists and 15 offices around the world, provides comprehensive engineering and management services for the development and operation of transport infrastructures and hydropower schemes that improve and sustain our everyday lives.

Market sectors served: metro & light railways, high speed and heavy railways, roads & highways, water, energy, hydropower, geohazards, project financing, complex buildings.

Services covered: planning, concept, feasibility, investigation, design, project & construction management, operation & safety, expert witness.

Geokon Inc. – NAM Zrt.**G4**

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2000 Szentendre, Hungary
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NAM Zrt.
Tel.: +36 30 3747 111
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E-mail: attilatakacs@yahoo.com
Website: <http://www.geokon.com>

Geokon Inc. – World leading instrumentation manufacturer specialised in vibrating wire instrumentation. Distribution, installation and instrumentation consulting worldwide.

NAM Zrt. – Hungarian tunneling company specialised in mechanised tunneling, tunnel des.

Goecke GmbH + Co. KG**E15**

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E-mail: info@goecke.de
Website: <http://www.goecke.de>

Goecke Schwelm is a leading manufacturer of special accessories for tunnel surveying in Europe. Bireflex targets, prisms, convergence bolts, consoles and pillar plates are part of the delivery program for example. Products of GOECKE are used worldwide with great success on many tunnel construction sites. Goecke offers a high degree of flexibility besides reasonable prices and fast delivery times in the production. Also one-off solutions can be realized fast, competently and cheaply.

Herco Kühltechnik GmbH**A18**

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Fax: +49 281 95277 26
E-mail: info@herco-gmbh.com
Website: <http://www.herco-gmbh.com>

Company info in summary: Project management and manufacturing of cooling systems for mining and tunnelling.

Herrenknecht AG**M12-13**

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77963 Schwanau, Germany
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Fax: +49 7824 3403
E-mail: info@herrenknecht.de
Website: <http://www.herrenknecht.com>

Herrenknecht AG located in Germany is a technology and market leader in mechanized tunnelling. As the only company worldwide, Herrenknecht delivers cutting-edge tunnel boring machines for all ground conditions and with all diameters – ranging from 0.10 to 19 meters. The Herrenknecht product range includes tailor-made machines for traffic and transport tunnels (Traffic Tunnelling) and supply and disposal tunnels (Utility Tunnelling). The company also provides state-of-the-art deep drilling rigs, to bore to a depth of 6,000 meters (Herrenknecht Vertical).

Hídépítő C. Ltd.

C3

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Fax: +36 1 465 2222
E-mail: info@hid.hu
Website: <http://www.hidepito.hu>

Hídépítő is one of the oldest Hungarian companies specializing in the building industry and considered a “flagship” of bridge construction in this country.

The company participated in the post-war reconstruction of the country, played an outstanding role in the construction of bridges, roads and in the implementation of other civil engineering works, industrial facilities and metro construction projects. It pioneered in the development and application of several new patented technologies.

The scope of its core activities has continuously expanded, including the construction and rehabilitation of riverine, road and railroad bridges, completion of industrial facilities, large-scale projects for the community and environment protection, various buildings & structures, water supply and waste water treatment plants, sewage networks, waste dumps and gas pipelines.

Hídépítő has become a company wholly owned by Hungarian investors in 2008. After a series of mergers and acquisitions, the purpose of establishing the HÍD (BRIDGE) Group was to improve the rate of economy of the activities and to get rid of all the non-core activities. Each member of the Group has, in itself, been making an important contribution to the success of the Hungarian construction industry.

INECO TIFSA

M17

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Ineco Tifsa has been at the forefront of national and international engineering activities for more than 40 years, providing leading edge technologies for the development of all kind of studies and projects related to transport. Thanks to its team of more than 2.800 professionals, the Group offers a global service approach that encompasses all modes of transport. Within the railway sector, the five main pillars of its activity are: planning, design, construction management, operation start-up and maintenance. Ineco Tifsa carries out informative studies, geological campaigns and geotechnical surveys in order to offer a complete basis for tunnel plans.

InnoTrans 2010 – Messe Berlin GmbH**A7**

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InnoTrans 2010, Berlin, 21–24. September 2010, International Trade Fair for Transport Technology, the world leading B2B-platform with segments Railway Technology – Interiors – Infrastructure – Public Transport – Tunnel Construction.

The segment Tunnel Construction creates synergies with Railway Infrastructure. For new tunnel construction as well as the interior finishing and maintenance of tunnels, this display features many kinds of construction products and materials, tunnel boring machines and systems, as well as engineering services.

itech – CESAR-LCPC**M19**

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Website: <http://www.itech-soft.com/>

itech, specialist in software for construction and civil engineering, increases its offer for underground structures.

C-Tunnel, software for the pre-design of tunnels, developed in collaboration with the CETU (French national research agency for road tunnels). C-Tunnel proposes a fast, flexible and secured solution for calculating (FEM) your parametric studies at the beginning of a project. It also includes the convergence-confinement method.

CESAR-LCPC finite element package is widely used in Europe on large scale projects by our customers (400 licenses) and is very appreciated for the extent of its capabilities and its user-friendly and powerful graphical user interface (2D & 3D).

Read more about us and our products: <http://www.cesar-lcpc.com>.

KrampeHarex FIBRIN GmbH**M18**

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E-mail: tunnel@krampefibrin.com
Website: <http://www.krampeharex.com>

KrampeHarex – specialist for steel and synthetic fibres for concrete – is offering steel fibres made from all kinds of base material: steel wire fibres, classically end hooked, straight or undulated as well as mill cut steel fibres and slit sheet fibres. The other part of the product range are polypropylene-fibres – fibrillated or monofilament – for sprayed concrete as well as for resistant concrete for inner linings, ceilings and drilled piles. For more information please have a look on the website: <http://www.krampeharex.com>

LANXESS**A4**

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LANXESS is a leader in specialty chemicals with sales in 2008 of EUR 6.58 billion and currently around 14,800 employees in 21 countries. The company is represented at 44 production sites worldwide. With its extensive portfolio, LANXESS focuses on premium products. Its core business comprises the development, manufacture and sale of high-tech plastics, high-performance rubber, specialty chemicals and intermediates.

LOVAT Inc.**A11-12-13-14-15-16**

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Marketing Coordinator
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Established in 1972, LOVAT is a world leader in the custom design and manufacture of Tunnel Boring Machines (TBM's), with over 40 TBM's currently operating in 10 countries.

To date, the company has built over 250 TBM's and performed over 150 full refurbishments for more than 700 tunnelling projects worldwide. LOVAT machines have excavated more than 2,000,000 metres of tunnel.

Maccaferri / Elas**C4-5**

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40123 Bologna, Italy
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Website: <http://www.maccaferri.com>

Founded in 1879, Maccaferri is worldwide leading specialist in advanced and engineered solutions in tunnelling for lining reinforcement and excavation process consolidation, with a wide product range for this sector, from fibres to geosynthetics.

Elas, for more than ten years now, has been supplying the construction market with exclusive, highly innovative and distinctive products for underground building works, from job start up until the end of the project.

MAPEI S.p.A. – Underground Technology Team**G1-2**

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MAPEI, founded in 1937 is located in Milan, Italy and counts o53 subsidiaries with 53 plants in 24 countries in five different continents. MAPEI is market leader in the development and application of chemical products for construction.

The “Underground Technology Team” (UTT) is the division of the MAPEI Group fully dedicated to Underground activity. Underground construction has a unique character, due primarily to the complexity and severity of conditions within this work environment. It is therefore necessary to apply an extremely high level of specialization and completely dedicated product systems achieved by constant investments in Research and high production capacity such as those provided by MAPEI. The range is wide and complete and includes products for usage in the following areas:

- Admixtures for concrete and sprayed concrete.
- Mechanised tunnelling by TBM.
- Injection and consolidation with chemical resins or cement-free binders.
- Waterproofing by means of synthetic membranes, chemical resins or cementitious products.
- Tunnel reparations using premixed mortars.
- Tunnel coating with paints, osmotic grouts or ceramic coating (adhesives and tile joints), etc.

Marioff Corporation Oy

A2

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Marioff is the leading developer and supplier of water mist fire protection systems. Marioff's HI-FOG[®] high-pressure water mist technology is based on rigorous full-scale fire testing, hundreds of patents and approvals by approval bodies. It ensures fast suppression or extinguishment of the fire, radiant heat blocking to prevent the fire from spreading, minimised water damage to buildings and equipment, and safety for people and the environment on sea and at land.



MATRICS Consult Ltd.**C8**

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E-mail: info@matricsconsult.com
Website: <http://www.matricsconsult.com>
Registered in England and Wales, Company No: 4165597

MATRICS, an acronym for the Management of Activities, Time and Resources for International Construction Solutions, was initially developed as an internationally user friendly database providing a unique Management Information System (MIS) particularly for complex underground construction works where the numerous contractual and logistical interfaces could facilitate the lack of standardization in the international arena.

MATRICS Consult Ltd. provides Project Management Control Services using this integrated approach which links ALL the requisite information systems such as geographical information, contract conditions, technical specifications, planning, claims and risk management, estimating and accounts as well as document management systems. The advantages are that MATRICS Consult Ltd. can provide TRANSPARENCY across the complete suite of contract documents, programmes and schedules from initial design to construction, commissioning and operation of underground facilities across national borders irrespective of local language or standards. MATRICS is also a Partner of Ingenionics software systems which provide real time project control information via RFID and satellite technology especially for the underground environment combined with GIS photogrammetry.

MATRICS Consult Ltd. is acting as expert consultants for the New Budapest Metro Line 4 presently under construction.

Mining Equipment Ltd.

G3

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Mining Equipment builds and supplies new and remanufactured rolling stock, locomotives, ventilation fans and other tunneling equipment. They design and build all types of muck cars, segments cars, flat cars, grout cars, concrete agitator cars, California Switches, rotary dumps and other specialty equipment. Mining Equipment has a huge inventory of used equipment including more than 250 locomotives, rubber tired equipment and shaft sinking equipment. Mining Equipment has been in business for almost 30 years and has worked on more than 250 projects on 6 continents.

Minova

C9-10

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Website: <http://www.minovainternational.com>

Minova has more than 35 years worldwide experience in water sealing, strata consolidation and rock bolting. Able to draw on a team of specialised engineers and as part of a worldwide sales and technical network, Minova is a leading supplier to mining, tunnelling, geotechnical, and civil engineering industries. We offer a most complete and versatile portfolio for:

- Bolting systems for tunnelling and civil engineering
- Resin systems for sealing, rock stabilisation and ground consolidation
- Accessories for bolting and injection work

NFM Technologies**A21-22**

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The French company NFM Technologies offers proven state-of the art technology for boring machines closely adapted to any kind of geology, without any boring limitation up to 16 metres: EPB, BENTON'AIR® Slurry machine, single or telescopic shield hard rock TBM, gripper type and dual mode machine.

To date, NFM Technologies has supplied more than 70 machines for worldwide infrastructure projects. Most of these machines have achieved world class production performances, including world records.

Normet International Ltd.**A8-9**

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Website: <http://www.normet.fi>

Normet provides demanding solutions for selected customer processes in underground mining and tunnelling. Normet develops manufactures and markets equipment and vehicles for mining and underground construction as well as provides a comprehensive range of life time care services around the equipment and the processes they are used for. Normet Group is the global market leader in its product areas.

Norwegian Tunnelling Society**A3**

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The Norwegian Tunnelling Society is an association having more than 1000 individual and company members. Over the last 7 years the Society has organised an exhibition at the ITA WT Congress for company members with special focus on export of Norwegian products and technology. At this years exhibition you can get first hand information about 12 different and highly skilled companies and organisations from Norway.

Rascor International Ltd.**M1**

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Website: <http://www.rascor.com>

RASCOR is specialized in system engineering for waterproof structures. The company looks back on more than 45 years of experience in the area of remedial and preventive structural waterproofing.

RASCOR's experience range of sealing shows in a vast variety of projects: different kinds of tunnels, metro stations, dams, hydro power plants, wastewater treatment plants, waste incineration plants, underground car parks, construction of business facilities, chemical factories and many more.

Rocksoil S.p.A.

E12

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Established in 1979, Rocksoil S.p.A. quickly grew into a leading company in civil engineering design for underground works, special foundations and stabilisation where excavation and landslides make stability an important design factor. Rocksoil's design and construction procedures now constitute new standards both in Italy and abroad where they are used to update norms and specifications (e.g. ADECO-RS approach).

Provided services: Design, Technical Assistance on Site, Monitoring and Direction of Works in the geoenvironmental field for: underground works, foundations and retaining works, environmental recovery and repair.

S&B Industrial Minerals GmbH

A19

S&B Industrial Minerals GmbH

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IBECO® – Bentonite

S&B Industrial Minerals GmbH is Europe's largest bentonite producer, operating major deposits and serving customers from an extensive network of processing facilities.

The IBECO® brand stands for a wide range of high-quality bentonites and finely ground clay products, mineral mixtures and additives.

S&B Industrial Minerals offers many years of practical experience combined with a comprehensive service capability, making it the ideal bentonite source and specialist for the construction industry.

Schauenburg MAB GmbH / Boenigk Consult GmbH **A10**

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Schauenburg MAB GmbH is a leading supplier of complete separation solutions for processing of bentonite suspensions.

MAB's standardised plants are operating successfully in tunnelling, micro-tunnelling, slurry trenching and horizontal directional drilling projects worldwide.

Boenigk and Hiller are specialised centrifuge-system manufacturer for various process applications in fines separation at successful tunnelling projects.

For these separation demands Boenigk develops and manufactures high tech decanter units for bentonit-dewatering, drilling-mud, Baryth-separation.

Schauenburg Tunnel-Ventilation GmbH **A18**

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Flexible ventilation ducting and assessories for tunnelling and mining

SELI S.p.A.**A1**

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S.E.L.I. S.p.A. is world wide leader in Tunnel Boring Machine tunnel excavations. SELI performs: Tunnel boring machine supply or rent, World wide Contractor for TBM works and projects, Technical service assistance to the TBM excavation, Subcontractor for TBM works and projects Study, Design and supply of special equipment for underground construction works, Technical and contractual assistance to the implementation of the civil engineer works, Co-operation in development, design and application of tunnel boring machines.

Sika Business Unit Concrete**M10-11**

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Sika AG is a globally active company supplying the specialty chemicals markets. It is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting loadbearing structures in construction and in industry. Sika's product lines feature high-quality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring and membranes. Sika more than 70 subsidiaries, approximately 12,900 employees and CHF 4.6 billion annual sales.

SolData

E8

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SolData offers a full range of services such as technical design, instrument procurement, installation and maintenance, data management, systems assessment and reporting.

SolData is involved during the construction of new tunnels and for the construction of existing tunnels: amongst others, we monitor deformations, measure convergence, ground stress and pressure, we collect and display TBM parameters, and carry out geophysical exploration, drilling deviation control measurements and other tests.

Solexperts AG

E14

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Solexperts AG rests on a firm foundation with over 30 years experience of highly qualified personnel providing support in geotechnical and hydrogeological projects with proven measurement concepts, globally recognised measuring systems, instrumentation, monitoring and field testing methods.

Since 2004 Solexperts has produced hiDCon[®] elements; high deformable concrete for tunnelling in squeezing and swelling geological formations. hiDCon[®] elements can be deformed up to 50 % with constant load resistance.

Spelsberg, Günther, GmbH + Co. KG**A25**

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Website: <http://www.spelsberg.de>

With its more than 400 co-workers Europe-wide Günther Spelsberg GmbH + Co. KG is offering you fire protection boxes with real functional maintenance in the classes.

E 30 to E 90 according to DIN 4102, part 12: high degree of safety – flexible cable entries – complete range of accessories.

Günther Spelsberg GmbH + Co. KG presents as the latest products for tunnel installations: WKE 54 and S-Box!

STRABAG-MML**Building and Civil Engineering Construction Ltd.****E2**

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<http://www.strabag.com>

STRABAG-MML Ltd. belongs to STRABAG Societas Europea Group and is working on main and general contracting of building and civil engineering projects.

The Division JC is especially responsible for civil engineering projects.

Reconstruction of Budapest METRO Line No. 2 was a success as well as the participation in the construction of Budapest METRO Line No. 4.

Profile of the JC Division:

- bridges,
- deep foundations,
- sewage treatment plants, sewage mains,
- energy related and environmental projects.

SWIETELSKY Magyarország Kft.**M14-15-16**

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Website: <http://www.swietelsky.hu>

The activities of SWIETELSKY cover all aspects of construction work: railroad construction, road construction, civil and underground engineering, bridge building, tunneling and structural engineering. Within tunneling makes up classic railway tunneling and road tunneling the largest part of SWIETELSKY's tunneling turnover. Besides the New Austrian Tunneling Method (NÖT) with drill and blast, road header or soft ground tunneling, mechanized tunneling has recently been gaining in importance as well. On the construction works of the Hungarian subway line Metro 4 has SWIETELSKY Magyarország Kft. the biggest part with 3 stations and the interior works all of the stations.



Swiss Tunnelling Society

C7

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The STS is actively involved in all questions related to underground constructions. Activities are:

- Swiss Tunnel Congress
- Special topic seminars
- Excursions, Training
- New generation advancement
- Internships, practical training
- Engineering standards
- Research and Innovation
- Swiss Tunnel Database
- Interational partnerships
- Contact to ITA-AITES (AG, WG)
- Contact to Associations
- Books, Proceedings
- General Assembly
- Networking

The STS endeavours to make known at national and international level the knowledge and experience of the Swiss tunnel construction industry.

Systemair GmbH

E5-6

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Key Account Manager
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Systemair is a leading ventilation company comprising 50 companies in 38 countries in Europe, North America, Asia, the Middle East, South Africa and Australia. The company has a broad range of fan types: Duct fans, Roof fans, Axial fans, Smoke extract fans, Thermo fans, Fire protection fans, EC-fans, Domestic and radial fans, Air handling units, Air terminal devices, Air curtains and MRT-fans (metro and Road Tunnel). The company had sales of just over MEUR 331 in the preceding financial year and more than 1,950 employees.

The Robbins Company

G7-8

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With more than 50 years of experience, The Robbins Company is the world's foremost supplier of advanced, mechanized tunneling machinery. Since inventing the first hard rock tunnel boring machine in 1952, Robbins has continued to bring innovation to the tunnelling industry. Recently, Robbins has ventured into the soft ground tunneling market to supply Earth Pressure Balance Machines worldwide, in addition to hard rock machines. Robbins EPBs will be working on projects in the U.S., China, Mexico, India and Azerbaijan throughout 2009. To find out more about these projects and other recent product developments, visit our booth G7/G8.

TIWO Kft.**A24**

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TIWO Kft. was established as a Hungarian subsidiary of the Austrian TIWO GMBH in June, 2007. However, we already started our business activity earlier under TIWO GmbH and, later, Baunit Kft. in 1997. We offer a wide range of products needed for special underground civil engineering. Our main products: types of dry, injected concrete, injection materials, fill-up materials and bentonites. Additionally, we provide machinery to work in the materials if needed (concrete injection machines, silo tanks, spiral conveyors, etc.). The quality control of our products is carried out by our company's professionals. The main objective of our company is to always provide our customers with environmental-friendly products in excellent quality. In addition to Hungary, TIWO Kft's products are used at many construction sites in Romania and Serbia, too.

TNO DIANA B.V.**A6**

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TNO DIANA B.V. was established in 2003 from the Computational Mechanics department of TNO's Building and Construction Research Institute in the Netherlands. TNO is one of Europe's largest independent research organizations.

Currently TNO DIANA has offices in the Netherlands, United Kingdom, and the United States. Our core expertise is numerical Analysis applied to Civil and Geotechnical Engineering. Analysis of concrete, composite and masonry structures and the interaction between these structures and the soil have become our specializations.

Tunnels & Tunnelling International

C1

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First published in 1969, Tunnels & Tunnelling International celebrates its 40th Anniversary this year and continues to hold the highest reputation of any magazine in the field of tunnelling. That experience and knowledge means we can offer you an unrivalled and totally dedicated magazine that publishes a comprehensive record of what's new, what's in the planning stage, what's ready to bid and what's in construction; keeping today's tunnelling professional informed and ahead. 40 years on T&T is found on construction sites all around the world and is one of the few journals that is archived for future reference. Come and see us and pick up your FREE copy from stand C1.

UVATERV Engineering Consultants C. C. Ltd.

M2

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H-1117 Budapest, Hungary
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1537 Budapest, Hungary
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UVATERV Engineering Consultants C. C. Ltd., one of the largest consultancy firms of Hungary, celebrated its 60th anniversary in autumn 2008. The activity of the company comprises a very large variety of engineering services: tunnels, metro networks, motorways, roads, airports, railway lines, bridges, inland ports, buildings, vehicle depots, garages, multi-storey car parks, telecommunication towers have been realized on the basis of the designs of the company, both in Hungary and abroad. The major part of our multi-disciplinary design tasks have been performed by our own designers, owing from the one hand to our excellent experts staff and specialists representing every design sector, and from the other to our advanced technical and technological system.

VMT GmbH**A23**

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International Sales manager
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Website: <http://www.vmt-gmbh.de>

VMT is dedicated to the supply of goods and services for the machine bored and conventional tunnelling industry. It specializes in Guidance systems for segmentally lined tunnels, extended distance or curved pipe jacking applications and in conventional tunnels excavated by Roadheaders. Guidance for rock bolting rigs has not been added to our range. Industrial measurement with regard to the dimensional accuracy of formwork and moulds as well as the ongoing check of the dimensional accuracy of segments is also offered. Database integration for the Tunnel Construction Information System (CBP) is yet another service of VMT.

**WBI – Prof. Dr.-Ing. W. Wittke Consulting Engineers
for Foundation and Rock Engineering GmbH****M3-4**

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WBI is a worldwide operating engineering company. We are covering the complete field of geotechnical, foundation, soil and rock engineering.

Focus areas: tunneling (NATM/TBM; > 250 km of tunnels during last 10 years), dam engineering, slope stabilization, special problems of structures in soil and rock.

Clients: owners, review authorities and contractors.

Services offered: exploration, ground/tunneling expertises, design all stages, tender, site supervision, independent review engineer, project management in tunneling, consultancy, research and development, etc.

Special knowledge: interaction ground-structure, NATM-/TBM-tunneling in rock, Finite element analyses (self-developed computer codes), swelling rock, karstic rock, squeezing rock, vibration, etc.

WTC 2011 Helsinki, Finland**C11**

Time: May 21–26, 2011
Website: <http://www.wtc11.org>

Finnish Association of Civil Engineers RIL and Finnish Tunnelling Association FTA are pleased to invite you to Helsinki on May 21–26 2011 For WTC 2011. Please visit our website <http://www.wtc11.org> for more info. Sale of exhibition booths has now started.

Xella Trockenbau-Systeme GmbH**G5**

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Website: <http://www.xella.de>

The universal fire-resistant board – a new-generation building material!

- Consisting of glass-fibre reinforced light-weight concrete, produced by the sandwich-board method
- Fire-resistant boards for underground transport systems
- AESTUVER fire-resistant boards for structures tested for compliance with DIN 4102
- Pre-fabricated fire-resistant cable ducts designed to safely isolate fire loads in escape and rescue routes and to maintain the integrity of electric installations

Advantages

- Non combustible
- High compressive strength
- High flexural strength
- High abrasion resistance
- Water resistance
- Frost resistance
- Cleanability
- Easy application

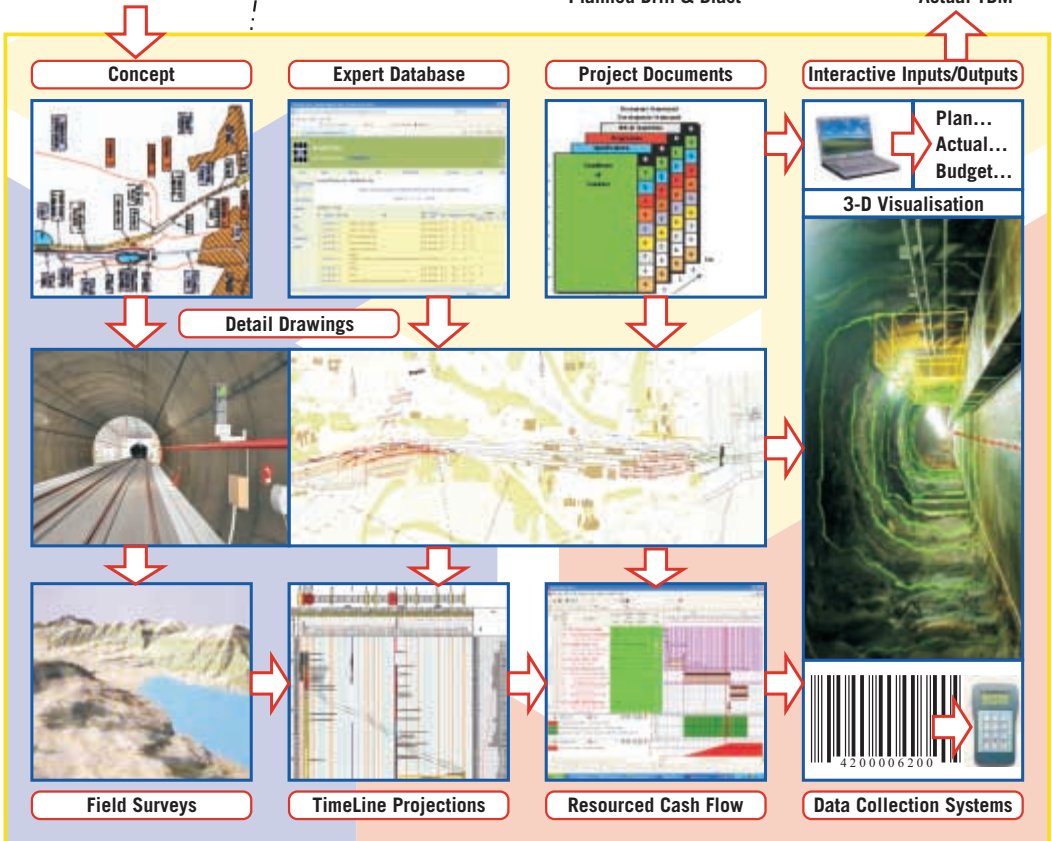
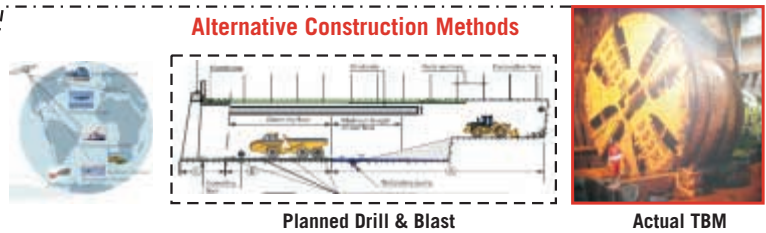
Notes

Ingenionics is your answer to managing and controlling the vast number of issues from **one source** in a user friendly adaptable environment. **Real time management** using state of the art techniques for data collection, transmission and real time analysis of cost sensitive information to update your designs, contract documentation and construction methods.

Ingenionics Software Systems is a Partnership of **Artescan, Assion Electronic, MATRICS** and **SoftXS** providing real time project control information. **Ingenionics**

employs satellite and RFID technology, especially for the underground environment positioning and object/person identification, combined with GIS and “as built” structure 3D/2D modelling laser scanning and photogrammetry. **Ingenionics** provides a direct link from design development to actual 3-D space modelling and progress at site enabling real time production feedback to the master project control **continuous updating of planned vs actual methods of construction, programmes and budgets.**

- Document Control
- Contract Documentation
- Resources Control
- Cost Control
- Productivity Control
- Change Management
- Risk Management
- Master Planning
- Time Line Management



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