



Eivind Grøv
Vice President of ITA
Research Manager SINTEF

ITA • International Tunnelling and Underground Space Association • Association Internationale des Tunnels et de l'Espace Souterrain • AITES

The vision of ITA

INTERNATIONAL TUNNELLING AND UNDERGROUND SPACE ASSOCIATION
ASSOCIATION INTERNATIONALE DES TUNNELS ET DE L'ESPACE SOUTERRAIN

The vision of ITA
(from Strategy 2000) is
to be:

« the unquestioned
leader in the use of
subsurface space »

Why Go Underground ?

Central Artery- Boston (USA)

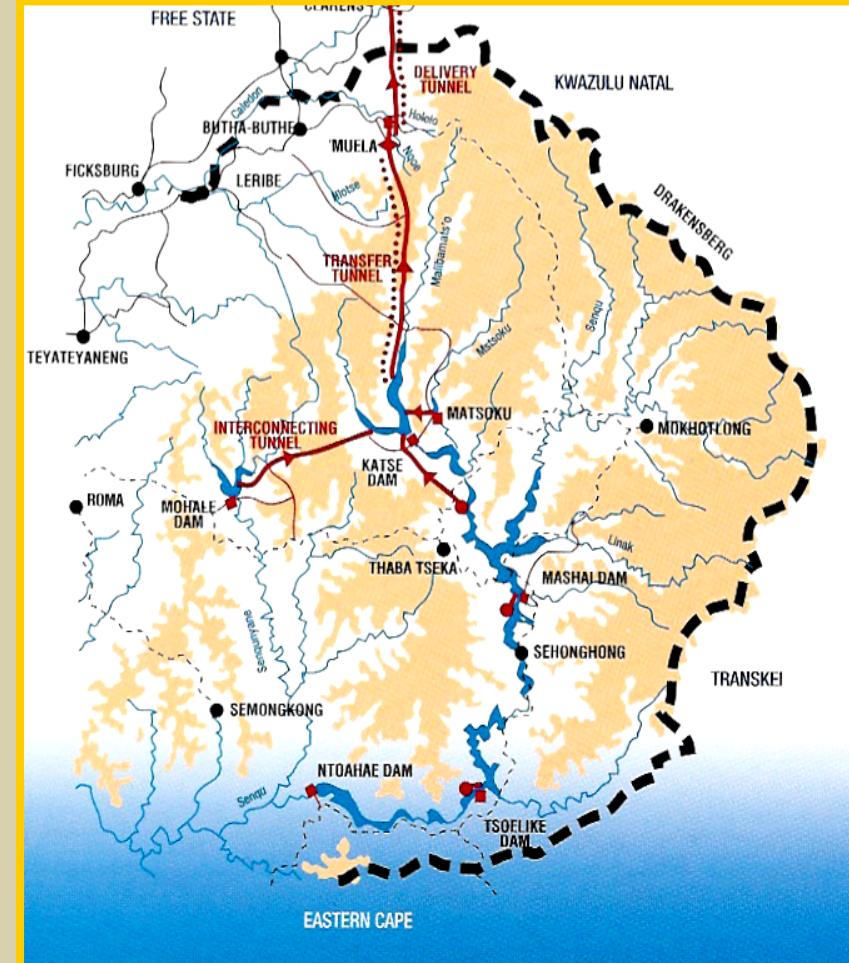
« City traffic tunnels clear vehicles from surface streets, traffic noise is reduced, air becomes less polluted and the surface street areas may partially be used for other purposes »



Why Go Underground ?

The Lesotho Highlands Water Project

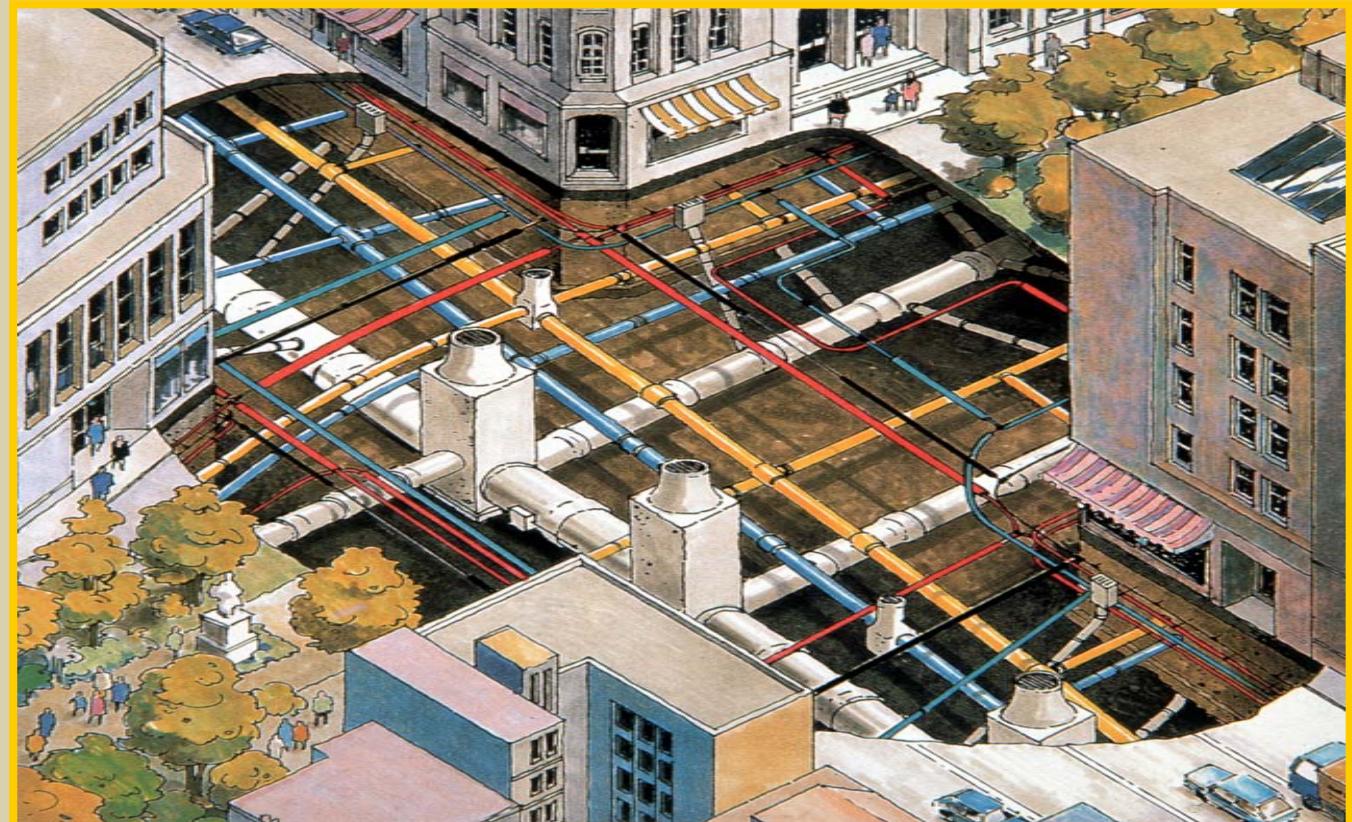
« Tunnels play a vital environmental role by conveying clean water to and by conveying wastewater out from urban areas »



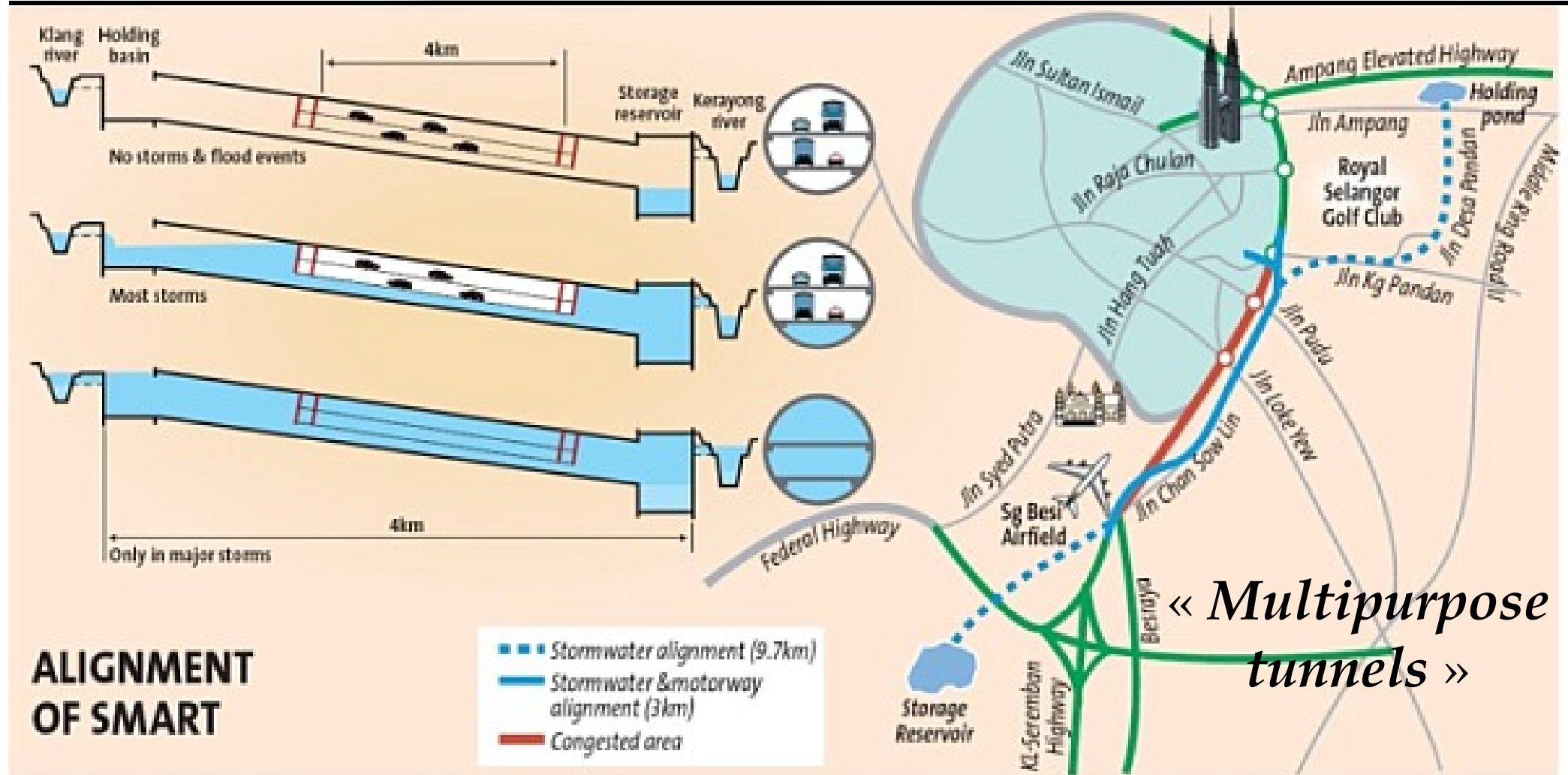
Why Go Underground ?

Variety of the underground infrastructure in a city

*« Utility tunnels
to take care of
underground
infrastructure
facilities »*



Why Go Underground ?



Why Go Underground ?

Car park at the square Estienne d'Orves in Marseilles (France)

« Situation «before» and «after» the construction of the underground car park »

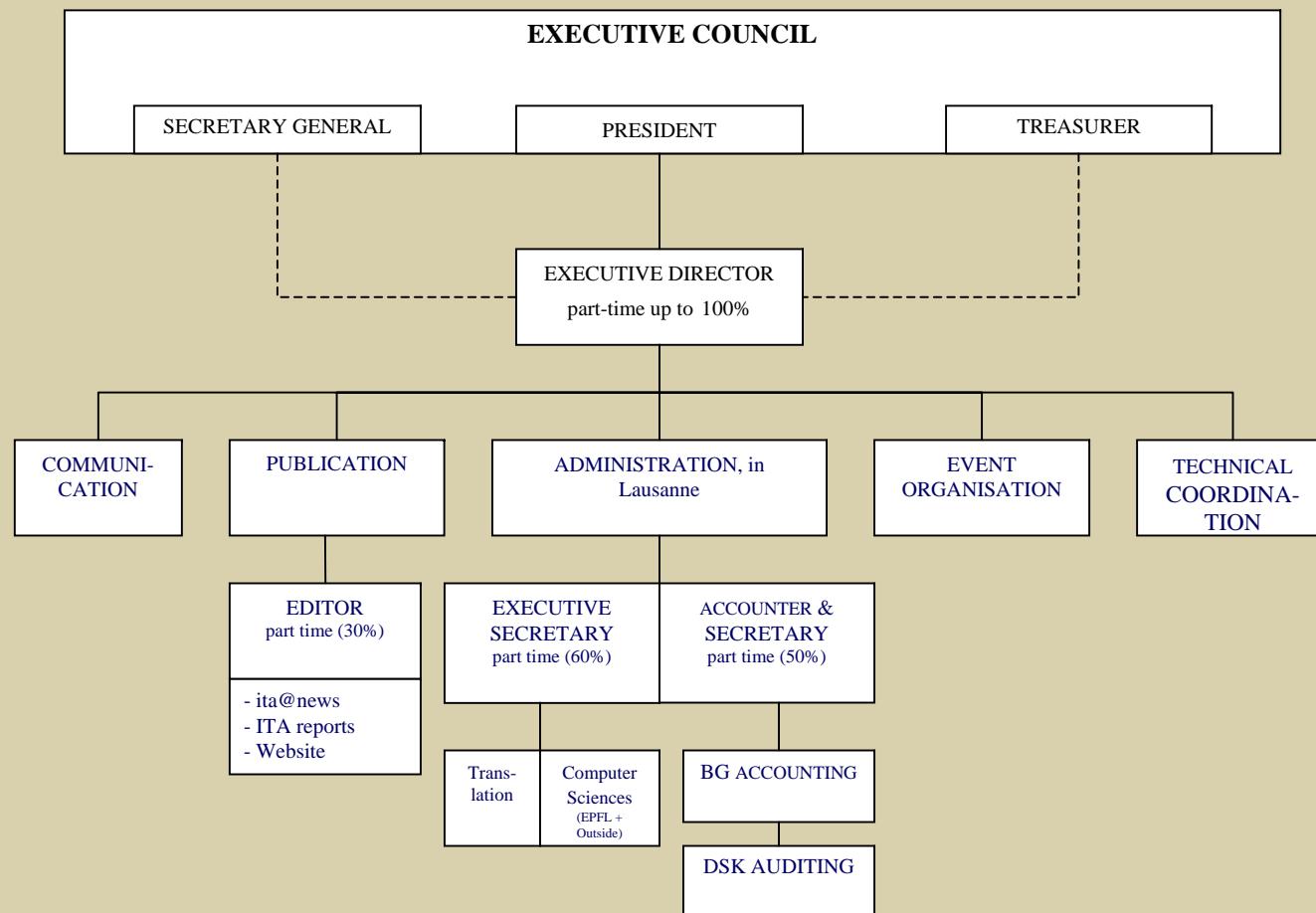


Foundation & Development

WHAT IS ITA??

- Non-Profit and Non-Governmental Organization
- Founded in 1974, in Oslo
- Federation of Member nations: 54 (in 2008)
- Bi-lingual (English and French)
- Other nations represented by affiliate members: 10 (in 2007)
- Corporate affiliate members: 140 (in 2007)
- Individual affiliate members: 144 (in 2007)
- 13 Prime Sponsors and 4 Supporters (in 2007)
- Potential of 20.000 individuals around the world
- Budget ca. 450' Euro, the rest is work "free of charge" e.g. participation in the Executive Council, "Heder og Ære"

ORGANISATION CHART



Circle of activities



Aims of the Association

- To encourage the use of the subsurface for benefit of the:
 - Public
 - Environment
 - Sustainable Development
- To promote advances in:
 - the preparatory investigations for tunnels
 - the design, construction, maintenance and safety of tunnels and underground space
- Oppfordre til bruk av undergrunnen til fordel for:
 - Publikum/storsamfunnet
 - Miljøet
 - Bærekraftig utvikling
- Promotere forbedringer innen:
 - De forberedende undersøkelser for tunnel og underjordprosjekter
 - Planlegging og prosjektering, bygging, vedlikehold og sikkerhet i tunneler og underjordsanlegg

Goals and Challenges

- Increasing the awareness of public and of the decision-makers of the unique benefits of the underground, especially social and environmental benefits
- Managing and minimizing risk and assuring safety and security in all Tunnelling activities
- Embrace Sustainable Development
- Øke publikums og beslutningstakeres (planleggeres) forståelse og kunnskap om de unike fordelene som er knyttet til bruk av undergrunnen, spesielt sosiale og miljøfordeler
- Håndtere og minimalisere risiko og sikre trygghet og sikkerhet ved alle underjordsaktiviteter
- Sikre bærekraftig utvikling

1 - To reaffirm the Vision of the Association: “*ITA, the unquestioned Leader in Tunnelling and Underground Space*” which in actions means:

- To enlarge the geographical representation of ITA by increasing the number of its Member Nations, and also:
 - » Increase number of prime sponsors
 - » Increase number of corporate members and supporters
- To improve the relationship with International Organisations (EU, UN, World Bank etc) and Decision Makers especially those contributing to the Sustainable Development by the use of Underground Structures Worldwide (UWW)
- To improve the communication inside and outside of the Association
- To improve the Scientific, Technical and Training actions of the Association

STRATEGY 2007 - 2010

2 - To approve the following plan of priority actions for 2007 - 2010:

- To improve the visibility of ITA-AITES by amending the name:
 - *International Tunnelling and Underground Space Association !!!!*
- To consolidate the Secretariat:
 - To employ a full time Executive Director !!!!
 - To employ an Editor for Communication means
 - To secure the necessary financial resources
- To continuously improve the ITA website (www.aites-ita.org): !!!
 - To upgrade it regarding the existing and future documentation (virtual library)
 - To implement the section of "*Underground Structures Worldwide*" focusing on the information for the general public and decision makers
 - To implement a dedicated section to ITA Members (code-based access)
- To improve Communication between:
 - The Executive Council and Member Nations, in organising joint actions (seminars, forums, publications, website pages) and notably in developing the *ita@news*
 - ITA and International Associations and Organisations by promoting joint actions
 - ITA and the General Public, especially in participating in specific events
- To improve the dissemination (electronic and paper) of contributions by the WG and Committees, especially in the fields of Environment, Risk Management, Safety and Use of Underground Space.
- To increase the Training programme by ITA Committee on Training and Education (*ITA University Network*) !!!!

MEMBER NATIONS

- One representative body or society per Nation,
- Has the right to participate and vote in the GA,
- Has the right to have a seat in the Executive Council,
- Nominates representatives to GA, WG.



MEMBER NATIONS LIST

- SOUTH AFRICA • South African National Council on Tunnelling -
- ALGERIA • Ministère des Travaux Publics -
- GERMANY • Deutscher Ausschuss für Unterirdisches Bauen
- SAUDI ARABIA • Ministry of Communications,
- AUSTRALIA • Australian Underground Construction & Tunnelling Association
- AUSTRIA • Austrian National Committee OIAV
- BELGIUM • Association Belge des Techniques et de l'Urbanisme Souterrain
- BRAZIL • Brazilian Tunnelling Committee,
- BULGARIA • Geotechnim-SVS,
- CANADA • Tunnelling Association of Canada,
- CHILE • Sociedad Chilena de geotecnia
- CHINA • China Civil Engineering Society
- COLOMBIA • Comité Colombiano de Túneles,
- KOREA • Korean Tunnelling Association,
- CROATIA • Croatian Tunnelling Association
- DENMARK • Danish Society for Tunnels & Underground Works
- EGYPT • National Authority for Tunnels,
- SPAIN • Asociación Española de Túneles y Obras Subterráneas,
- USA • American Underground Construction Association
- FINLAND • Finnish Tunnelling Association,
- FRANCE • Association Française des Travaux en Souterrain,
- GREECE • Greek Tunnelling Society,
- HUNGARY • Association for Utilization of the Subsurface Space,
- INDIA • Central Board of Irrigation and Power,
- INDONESIA
- IRAN • Iran Tunnelling Association,
- ICELAND • Icelandic Tunnelling Society,
- ISRAEL •
- ITALY • Società Italiana Gallerie
- JAPAN • Japan Tunnelling Society,

MEMBER NATIONS LIST

- LESOTHO • Lesotho Tunnelling Society,
- MALAYSIA •
- MOROCCO • Association Marocaine des Travaux en Souterrain,
- MEXICO • Asociación Mexicana de Ingeniería de Túneles y Obras Subterráneas,
- NORWAY • Norsk Forening for Fjellsprengningsteknikk (NFF),
- NETHERLANDS • Tunnelling and Underground Works Division of Kivi,
- POLAND • Podkomitet Budownictwa Podziemnego,
- PORTUGAL • Sociedade Portuguesa de Geotecnica,
- CZECH REPUBLIC • Czech Tunnelling Committee,
- ROMANIA • Association Roumaine des Tunnels,
- UNITED KINGDOM: British Tunnelling Society
- RUSSIA • Russian Tunnelling Association,
- SINGAPORE • Tunnelling and Underground Construction Society,
- SLOVAKIA • Slovak Tunnelling Committee,
- SLOVENIA • Slovenian National Committee on Tunnel Construction and Underground Structures,
- SWEDEN • BK Swedish Rock Construction Committee,
- SWITZERLAND • Groupe Spécialisé pour les Travaux Souterrains,
- THAILAND • ITA Thai Nation Member,
- TURKEY • Turkish Road Association Erer SA,
- UKRAINE • Interbudtunnel Corporations,
- VENEZUELA • Socvenos,
- VIETNAM
- PERU (2008)
- KASAKHSTAN (2008)

AFFILIATE MEMBERS

- Corporation, societies, in special cases individuals (to be apporved by the GA)
- Receive a membership diploma
- Have the rights to:
 - » participate in the general assemblies, conferences, symposia, workshops etc.
 - » participate in the working groups
 - » use the reference "ITA Member"
- Receive free of charge the publications supported by ITA: ITA Reports, TUST, TRIBUNE, ita@news,
- Have free access to the ITA Website

Diversity of Membership

- Owners, Public and Private
- Owner's engineering agencies
- Private and governmental Townplanners
- Architects
- Engineering designers & consultants
- Academia & Researchers
- Heavy construction contractors
- Specialty contractors (microtunnelling, shotcreting, freezing,...)
- Material & Equipment Suppliers
- Lawyers
- Politicians
- Economists
- Financiers
- Mine owners and mining operators



Prime Sponsors

INTERNATIONAL TUNNELLING AND UNDERGROUND SPACE ASSOCIATION
ASSOCIATION INTERNATIONALE DES TUNNELS ET DE L'ESPACE SOUTERRAIN

- Significant Contribution for 5 year period
- Special Relationship with ITA
- Invited to Inform ITA Regularly on:
 - Choice & Organization of Events
 - Important Issues to the Prime Sponsor
- Added Exposure & Promotion
 - Direct Link on ITA Home Page to their Website
 - Promotional Opportunities at ITA events



INTERNATIONAL TUNNELLING AND UNDERGROUND SPACE ASSOCIATION

ASSOCIATION INTERNATIONALE DES TUNNELS ET DE L'ESPACE SOUTERRAIN

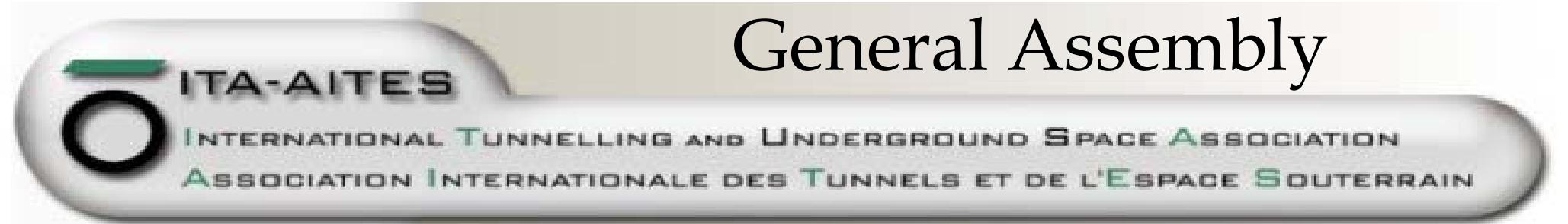
Supporters

- Year-by-Year Contribution
- Web Link from ITA Advertising Pages

ACTIVITIES

- AITES-ITA annual World Tunnel Congresses
- ITA General Assembly/Open session
- Training for Young professionals
- Organising international studies and experiments,
- ITA Master Courses
- Publication of proceedings, reports, documents...
- Organizing Workshops, short courses and Colloquia
- Website
- Journal & Newsletter
- Communication with the Decision Makers





General Assembly



ITA • International Tunnelling and Underground Space Association • Association Internationale des Tunnels et de l'Espace Souterrain • AITES

GENERAL ASSEMBLIES

1974 • OSLO
1975 • MUNICH
1976 • LONDON
1977 • STOCKHOLM
1978 • TOKYO
1979 • ATLANTA
1980 • BRUSSELS
1981 • NICE
1982 • BRIGHTON
1983 • WARSAW
1984 • CARACAS
1985 • PRAGUE
1986 • FLORENCE

1987 • MELBOURNE
1988 • MADRID
1989 • TORONTO
1990 • CHENGDU
1991 • LONDON
1992 • ACAPULCO
1993 • AMSTERDAM
1994 • CAIRO
1995 • STUTTGART
1996 • WASHINGTON
1997 • VIENNA
1998 • SAO PAULO
1999 • OSLO

2000 • DURBAN
2001 • MILAN
2002 • SYDNEY
2003 • AMSTERDAM
2004 • SINGAPORE
2005 • ISTANBUL
2006 • SEOUL
2007 • PRAGUE
2008 • AGRA
2009 • BUDAPEST
2010 • VANCOUVER
2011 • HELSINKI

OPEN SESSIONS

- Held at World Tunnel Conference every year since 1974
- Specific recent Topics of importance to Tunnelling:
 - 1995 : Mechanisation of excavation - New technologies and financial aspects
 - 1997: Choice of Tunnelling Methods
 - 2003: Immersed Tunnels
 - 2006: Risk Management
 - 2007: New Financing trends and Consequences on Tunnelling contracts
 - 2009: Planning of Modern Tunnel Projects

OPEN SESSIONS

- 1977 : Safety in service
- 1978 : To go underground : Right or wrong?
- 1979 : Member Nation addresses during RETC
- 1980 : Safe practices in tunnelling
- 1981 : Use of subsurface in developing countries
- 1982 : The subsurface : contributions to energy savings
- 1983 : Urban Contracting and the environment
- 1984 : Seismic effects on underground works
- 1985 : Underground Works in Urban Areas
- 1986 : Approaching the XXI st century. Expectations and perspectives
- 1987 : Subsurface developments in the urban community
- 1988 : Minitunnels
- 1989 : Future of mechanised tunnelling
- 1990 : Management of underground works
- 1991 : Utility tunnels
- 1992 : Towards new worlds in tunnelling

OPEN SESSIONS

- 1993 : At or below ground level
- 1994 : Straits of Gibraltar
- 1995 : Mechanisation of excavation - New technologies and financial aspects
- 1996 : Tunnelling and underground space toward sustainable urban development
- 1997 : Choice of tunnelling methods
- 1998 : Contribution of small sized tunnels to the development of metropolises
- 1999 : Past, present and future of tunnelling
- 2000 : Mining and tunnelling : shaft construction
- 2001 : Project financing
- 2002 : Fire & Life safety
- 2003 : Immersed Tunnels
- 2004 : Underground Space for Sustainable Urban Development
- 2005 : Underground Space Use – Analysis of the Past and Lessons for the Future
- 2006 : Risk Management of Tunnel Projects
- 2007 : New financing trends and consequences on Tunnelling contracts

3 Committees and 12 Working Groups

- Committee on Operational Safety of Underground Facilities
 - Research
 - Contractual practices
 - Health & safety in works
 - Maintenance & repair
 - Immersed & floating tunnels
 - Use of shotcrete
 - Mechanised tunnelling
 - Underground works & environment
 - Long tunnels at great depth
 - Training
 - Conventional Tunnelling
 - Urban problems, Underground solutions
- Committee on Education and Training
- Committee on Underground Space



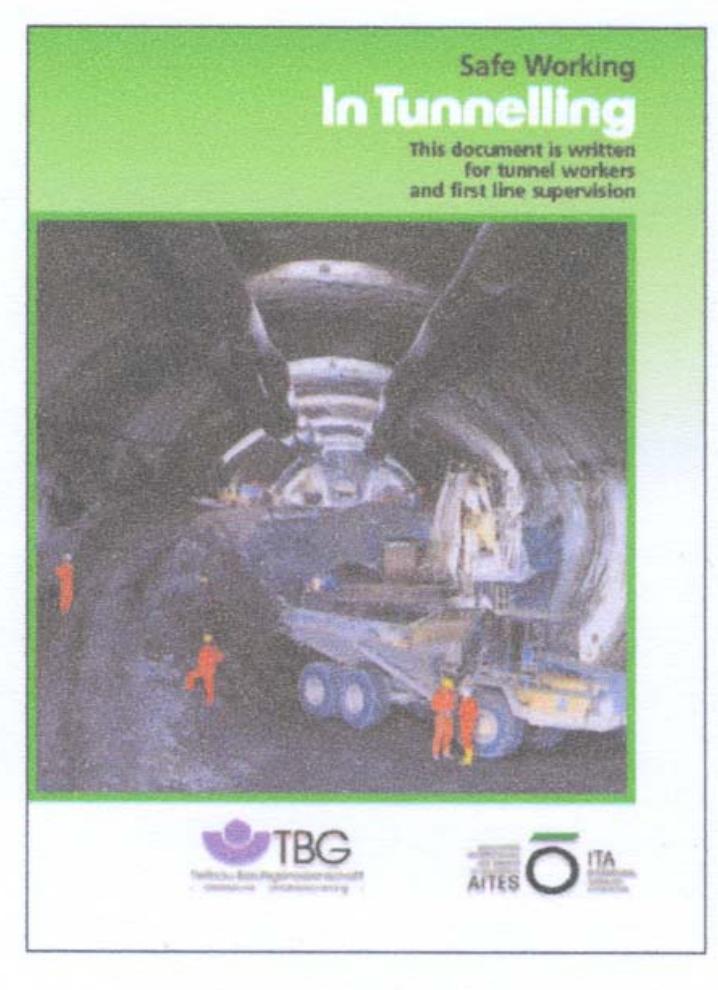
INTERNATIONAL TUNNELLING AND UNDERGROUND SPACE ASSOCIATION

ASSOCIATION INTERNATIONALE DES TUNNELS ET DE L'ESPACE SOUTERRAIN

Working Groups



- Fire Protection Engineering for New and Existing Tunnels (WG12 and COSUF-2006)
- Shotcrete: State of the art (WG12 - 2006)
- Booklet Safe Working in Tunnelling (WG5 - 2005)
- Settlements in Soft Grounds (WG2 - 2007)
- Standards and Manuals in Mechanized Tunnelling (WG14 - 2007)
- Training Course “Tunnelling in Urban Areas” (WG18 - 2007)

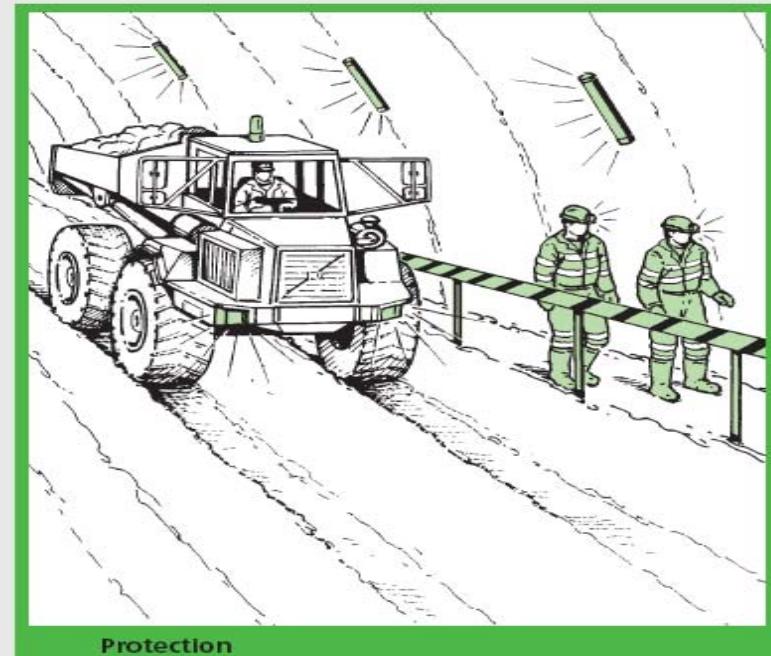


Example page: ITA Safety Book

3.1



Walkways with Non-rail Operation





ITA - COSUF

ITA - COSUF Committee on Operational Safety of Underground Facilities

founded 11.05.2005 WTC Istanbul

Headed by F. Amberg

ITA + PIARC

7 + 1 projects out of 5th and 6th
EU Frame-Research-Programme

open for all interested parties dealing
with design, construction, operation, use, and
research





ITA - CET

ITA-CET Committee on Education and Training (University Network)

Under creation: Torino May 2008

Headed by A. ASSIS (Brazil)

- Short Courses for Young Professionnals
- ITA Master Courses
- Training Material from the Working Groups results
- Regional Workshops



ITA - CUS

ITA-CUS - Committee on Underground Space

Founded in Amsterdam early 2008

Headed by Han Admiraal (Netherlands)

Programme under construction

TASK FORCES

- Glossary
- Risk Financing
- Risk Management
- Security
- Underground Worldwide

Glossary


[GLOSSARY](#)

TOWARDS AN IMPROVED USE OF UNDERGROUND SPACE

Records : 1229
 Records per page : 10 / 15 max.
 First record : 0
 Filtered records : 10

[Print](#)
FILTERS

Current applied filters :

 The words begin with --> **B**

 Main category --> **Environment**

 Sub category --> **Geology, Hydrogeology, Geotechnics**
[Delete current filters](#)

The words begin with 0-9 - A-Z :

 B

Main category :

Environment

Sub category :

Geology, Hydrogeology, Geotechnics
[Apply filters](#)
FILTERED RECORDS

Word	Definition	Main category	Sub category
BEDDING	The arrangement of rocks in layers, strata, or beds of varying thickness and character; usually applied to sedimentary rocks, in which case it is synonymous with "stratification".	Env	Geol
BLOCKY ROCK	Rock having joints or cleavage spaced and oriented in a manner such that it readily breaks into loose blocks under excavation conditions.	Env	Geol
BOREABILITY	A value expressing the boring properties of rock in terms of the penetration rate with certain numbers/types of cutters and amount of pressure applied. Equivalent to "tunnelability", the ease or difficulty with which a rock type can be penetrated by a tunnel boring machine.	Env	Geol
BOREHOLE		Env	Geol
BORING		Env	Geol
STROKE		Env	Geol
BOULDERS		Env	Geol
BRISANCE		Env	Geol
BRITTLENESS		Env	Geol
BURDEN		Env	Geol

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ITA-AITES
INTERNATIONAL TUNNELLING AND UNDERGROUND SPACE ASSOCIATION
ASSOCIATION INTERNATIONALE DES TUNNELS ET DE L'ESPACE SOUTERRAIN

NAVIGATION MENU

- Homepage
- ITA ASSOCIATION
- Disclaimer
- Sitemap

COMMITTEES

- ITA-CET
- ITA-COSUF Website
- ITA-CUS

DIRECT ACCESS

- Corporate Members and Supporters
- Future Events
- How to become member ?
- Member Nations
- Products and Publication
- Selected Key-Lectures
- Sister Organisations
- Training Material & Seminars
- TUST
- Working Groups

ITA@NEWS

Register now!

CONTACT

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Bât. GC
Station 18
CH - 1015 Lausanne
Tel. : + 41 21 693 23 10
Fax : + 41 21 693 41 53
Email : secretariat@ita-aites.org
Web : www.ita-aites.org

PATH : ITA-AITES > Homepage

HOMEPAGE

29.04.2008 Latest News

Latest contents available in the ITA members restricted area

- Thesis of Donald Lamont (animateur WGS) : A study of decompression illness and its regulation in contemporary UK tunnelling – an engineering perspective
- New Delhi, Conclave on "Contract Management for Accelerated Development of Indian Hydropower Projects"
- Istanbul - 1st Black Sea and 4th Silk Road Conference
- Shanghai Symposium - Conference of Prof Qian Qihu on Risk Management
- STUVA Tagungs 07 - Keynote lectures
- Shanghai Symposium - Keynote lectures
- Gibraltar strait crossing - Proceedings of the 4th UN-ITA Workshop
- more

ITA@NEWS23 -- Updated April

Read it! The 23rd ITA newsletter available!

ITA-COSUF - latest news

 News from the chairman, February 2008 - download here
23 April 2008 Workshop TU-Graz - download the programme (updated April 14, 2008)

ITA-AITES World Tunnel Congresses and ITA General Assemblies - Updated March

	The ITA-AITES World Tunnel Congress 2008, will take place in Agra, India between the 19th and 25th September 2008. The main theme of the congress will be: "Underground Facilities for Better Environment & Safety". The 3rd bulletin and 4 page flyer have been published -Website	AGRA (INDIA) 2008
	The ITA-AITES World Tunnel Congress 2009 "Safe Tunnelling for the City and Environment" will take place in Budapest/Hungary on 23-28 May, 2009. The Call for Papers and the main topics as well as Call for Sponsorship and Exhibition is now available on the website.	BUDAPEST 2009

PRIME SPONSORS





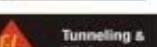










Published bimonthly:

- News from the Association,
- News from Sister Associations,
- Activities of the Working Groups,
- News from the Member Nations
- News from the ITA World Tunnel Congresses,
- Forthcoming events,
- Publications

The screenshot shows the header of the newsletter with the ITA-AITES logo and the email address *ita@news*. Below the header is a message: "If this letter does not display correctly, please go to this page : <http://www.ita-aites.org/cms/1584.html>". The main content area is titled "ITA@NEWS #16" and "Date : 22 December 2006". It features a "Seasons Greetings" section with a collage of images from various events and a central banner that reads "Bonne et Heureuse Année Happy New Year 2007". The banner also mentions "5-10 MAY / PRAGUE / CZECH REPUBLIC" and "The Secretary General and the Secretariat wish you a Happy New Year 2007 and hope to see you in Prague". To the right of the main content is a "Contents" sidebar with a list of news categories.

Dear ###USER_name###,	Date : 22 December 2006
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Seasons Greetings

**Bonne et Heureuse Année
Happy New Year
2007**

5-10 MAY / PRAGUE / CZECH REPUBLIC

The Secretary General and the Secretariat wish you a Happy New Year 2007 and hope to see you in Prague

Contents

- Seasons Greetings
- News from Member Nations
- WTC'07 in Prague
- WTC'08
- WTC'09
- Training
- News from The Executive Council
- ECTP
- International Conferences
- News from Sister Association

UNDERGROUND STRUCTURES WORLDWIDE



INTERNATIONAL TUNNELLING AND UNDERGROUND SPACE ASSOCIATION

ASSOCIATION INTERNATIONALE DES TUNNELS ET DE L'ESPACE SOUTERRAIN

A specific website for the general public dedicated to all aspects of underground structures - A specific part in the ITA web site

Why : find reasons to use the underground space

How : explore design and construction techniques for building underground structures

Use : find examples of types and possibilities of underground structures.

Case histories and statistics.

A screenshot of the ITA-AITES website homepage. The header features the ITA-AITES logo and navigation links for "Why go underground?", "How to go underground?", "Use of underground space", and "Case Histories". Below the header is a banner titled "Tunnelling and Underground Space Worldwide" with a sub-link to "Case Histories". To the right is a sidebar with links to "Supporters", "User Handbook", "Latest News" (with four items), "ITA Activities" (with four items), "ITA Presidents' Messages" (with three items), "ITA Newsletters" (with three items), and "ITA History" (with four items). At the bottom right is a "Contact us" link. The footer contains the text "© 2000-2001 ITA-AITES".



UNDERGROUND STRUCTURES WORLDWIDE

A specific website for the general public dedicated to all aspects of underground structures

A specific part in the ITA web site

A dynamic menu with submenus allows to know from the first pages all the contents of the website and to go directly to the pages you are interested in.

Specific links to upper level or subpages are available.

A powerfull search engine will be implemented.





UNDERGROUND STRUCTURES WORLDWIDE

A specific website for the general public dedicated
to all aspects of underground structures
A specific part in the ITA web site

On each page relevant examples with links to papers, pictures, proceedings, videos, external websites will be given.

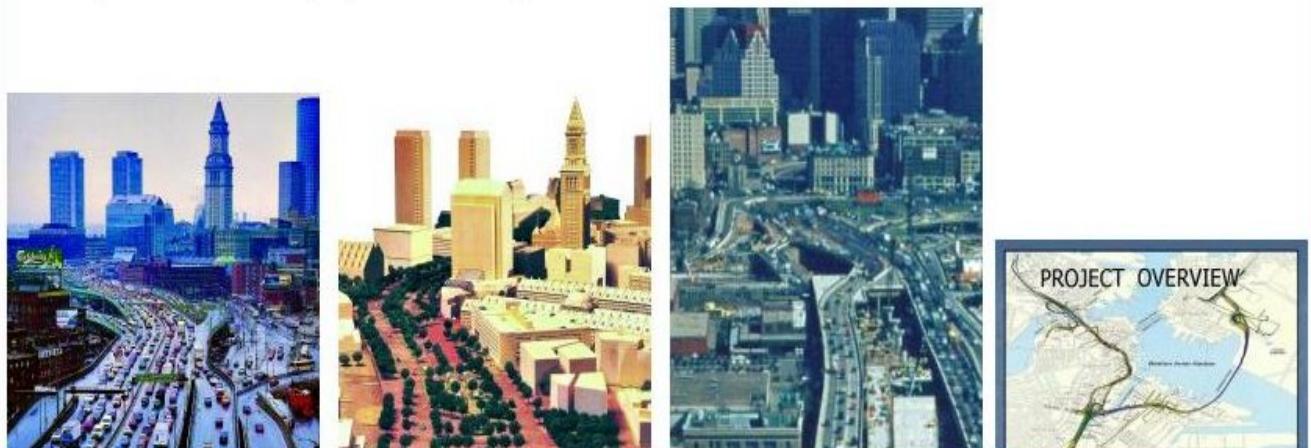
The construction of the Grand Louvre museum in Paris is a typical example. Getting the entrance and all the administration facilities allow a enormous gain of space for the museum and the construction of a building above the surface was of course not acceptable in such an historic place.



■ [website on the Grand Louvre architecture](#)

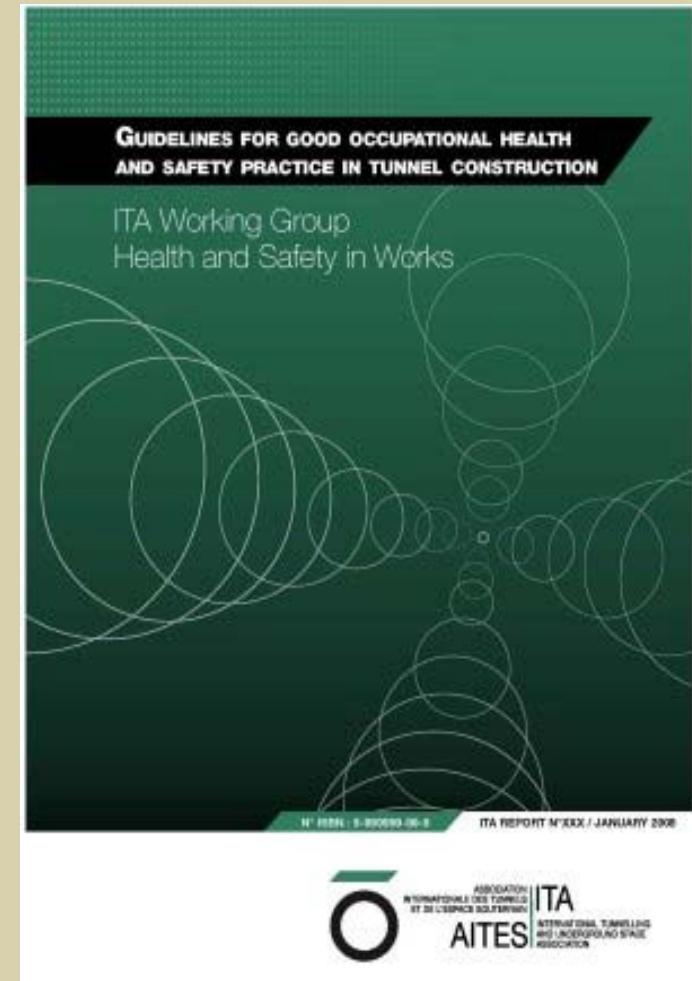
The Central Artery - Boston example

In this project, it has been decided to build underground structures to replace above ground ones, which were not accepted by the population, divided city areas and were not coping with the increasing traffic.



ITA- REPORT

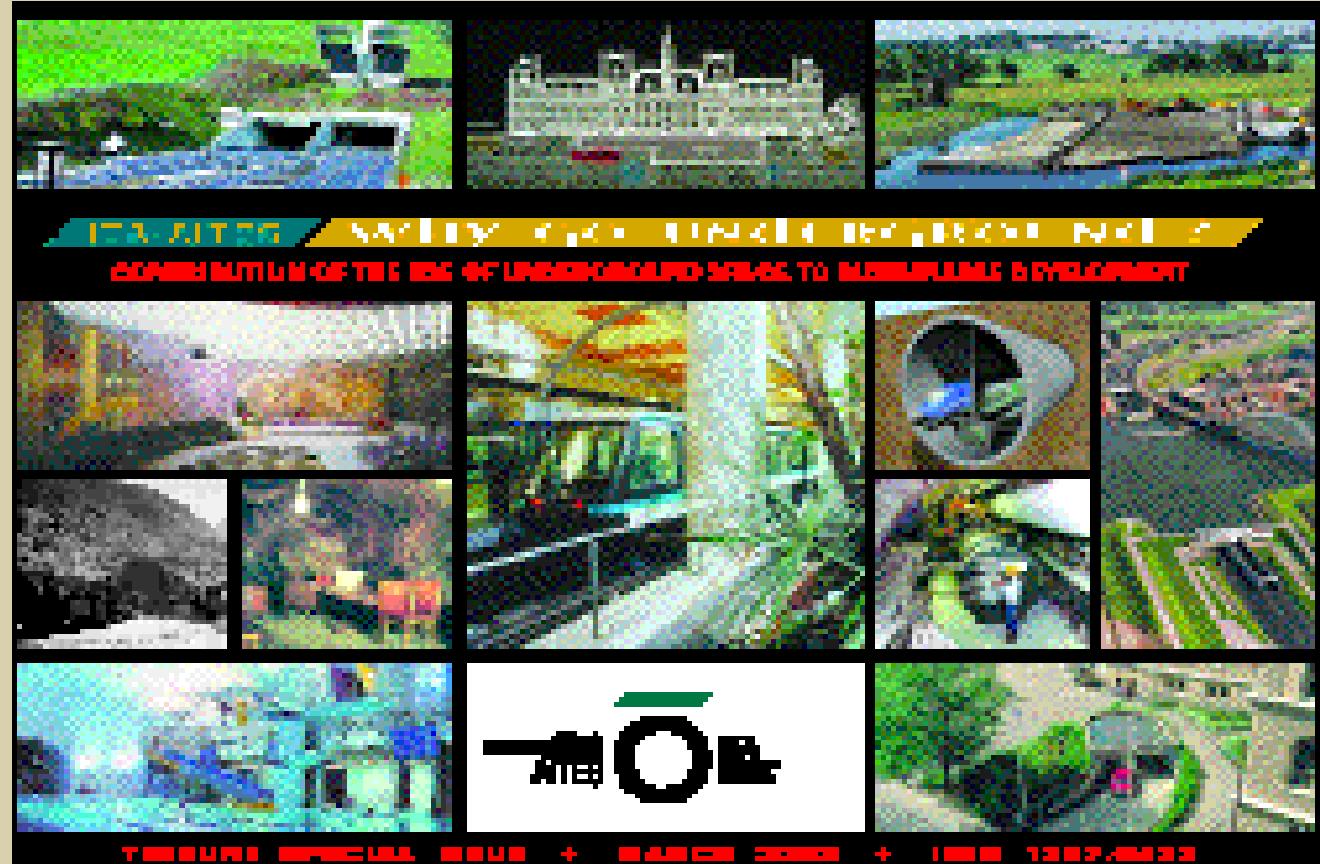
- A new media to publish the reports from the ITA working Groups and Committees as well as ITA Position Papers
- Reports to be published in 2008:
 - WG5: Guidelines for good occupational Health & Safety
 - WG19: General report on conventional tunnelling
 - WG12: state of the art of shotcrete use



RELATIONSHIP WITH THE UN

- Since 1987, ITA, as NGO, is in Consultative Status Category II with ECOSOC, the Economic and Social Council of the United Nations.
- ITA has actively participated to UN activities: Habitat II, Gibraltar Straits, Reduction of Poverty, World Urban Forum,
- ITA organized a workshop on Sustainable Development on December 14th, 2007

WHY GO UNDERGROUND



EXECUTIVE COUNCIL

• M. Knights	United Kingdom	President
• A. M. Muir Wood	UK	Honorary Life President
• H. Parker	USA	Past President
• P. Grasso	Italy	Vice-president
• E. Grov	Norway	Vice-president
• Y. Leblais	France	Vice-president
• I. Lee	Korea	Vice-president
• W. Liu	China	
• S. Eskesen	Denmark	
• K. Fukumoto	Japan	
• I. Hrdina	Czech Republic	
• M. Thewes	Germany	
• V. Umnov	Russia	
• F. Vuilleumier	Switzerland	
• C. Berenguier		Treasurer
		Secretary General

ADDRESSES

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e-mail: secretariat@ita-aites.org
- ITA web site: <http://www.ita-aites.org>
- Ita@news: secretariat@ita-aites.org
- TUST: ELSEVIER SCIENCE
The Boulevard, Langford Lane, Kidlington,
Oxford, OX5 1GB, United Kingdom

SUMMARY

- ITA means NETWORK
- ITA means FORUM
- ITA means ORGANIZER
- ITA means COMMUNICATION

*ITA, the unquestionned leader in the
Use of Subsurface Space*



WTC 2008

AGRA (India)

22-25 September 08

« Underground Facilities for Better Environment and Safety »

BUDAPEST (Hungary)

23-28 May 09

« Safe Tunnelling for the City and Environment »

