



ASSOCIATION
INTERNATIONALE DES TUNNELS
ET DE L'ESPACE SOUTERRAIN

AITES

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INTERNATIONAL TUNNELLING
AND UNDERGROUND SPACE
ASSOCIATION



MEMBER NATION ACTIVITY REPORT





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PRESENTATION

German Tunneling Committee

Registered non-profit, restricted association
(limited to 30 individual members)



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2015 – ACTIVITIES

- **Recommendation for contracts with low potential for conflicts** has been published (only German, see website for download)
- **DACH-meeting** (German, Austrian, Swiss Tunnelling Committees) in Austria (½ day technical seminar and site visit)



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2015 – ACTIVITIES

Working groups (1/2):

- Financing of tunnels via PPP/BOT-projects
- Technical evaluation of bids during tendering procedure
- Recommendations for contracts with low potential for conflicts
- Requirements for refuge chambers



2015 – ACTIVITIES

Working groups (2/2):

- Strategic development of design offices
- Face support pressure calculation in shield tunnelling
- Life-cycle costs calculation
- External communication of DAUB



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2015 – ACTIVITIES

Publications of DAUB can be found in/on

- Journal “tunnel” (www.tunnel-online.info)
- “German Handbook of Tunnelling” (published annually, Taschenbuch Tunnelbau)
- Recommendations are available for download from website (www.daub-ita.de); the majority are bi-lingual (German/English)



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2015 – ACTIVITIES

STUVA-Conference in Dortmund

- more than 1850 participants
- 165 exhibitors on 6,000 m² display area
- 2 days of high-level lectures on tunnelling and tunnel operation





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TUNNELS - UNDERGROUND WORKS

U5 Metro Berlin, Town hall – Brandenburg gate

hydroshield drive

($\varnothing = 6.7$ m),

2 single track tubes,

2.2 km, 3 stations

(ground freezing)



Photo: Michael F. Mehnert, CC BY-SA 3.0, via Wikimedia Commons



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TUNNELS – UNDERGROUND WORKS

**Boßler tunnel, High-Speed-Railway-Line
Wendlingen–Ulm,
near Stuttgart,
8.8 km,
TBM ($\varnothing = 11.38$ m),
shotcreting method**



Photo: Arnim Kilgus



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TUNNELS - UNDERGROUND WORKS

Karlsruhe Combined Solution, inner-city

tram tunnel

below

Kaiserstrasse,

TBM

($\emptyset = 9.32$ m),

length 2.4 km





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FUTURE ACTIVITIES

Regular meetings

with Austrian and Swiss colleagues

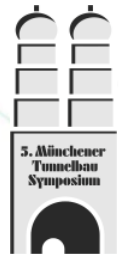
Munich Tunnel Symposium

3 June 2016

InnoTrans

Tunnel Forum, 20–23 September 2016

Leading int. trade fair for transport technology



InnoTrans





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FUTURE ACTIVITIES

Sealing of buildings by injections

9–10 November 2016,
useful information on

- afterwards sealing of concrete structures
- geotechnical sealing injections



FORUM
INJEKTIONS
TECHNIK



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FUTURE ACTIVITIES

STUVA-Conference 2017



- 6–8 December 2017 in Stuttgart
- Topics on tunnelling and tunnel operation
- Even more growth expected



Tunnel Projektdaten / Tunneling Project Data

2 x 2-Spurige Ost-Westverbindung zur Flughafenanbindung:

Tunnel + Rampen / Tunnel + Ramps:

- Rampe + offene Bauweise / Ramp + Shoring

Osten ca. 350 m	
Westen ca. 290 m	
ca. 1.075 m	
ca. 5,7 m / 7,6 m	
ca. 21,4 m	
ca. 7,5 m	
bis ca. 3,0 bar	

7 Querschläge mit ca. 12 m Länge / 7 Cross Passages each 12 m long:

- Überdeckung Hü bis GOK zwischen 13,3 m und 23,3 m
- Hü bei Querschlag unter der Weichsel ca. 12,4 m

Lokale Umgebung / Local Surroundings

Worttrieb Ost – West:
1. Röhre Süd
2. Röhre Nord

Drive East – West:
1. Tube South
2. Tube North

STUVA Conference '17

