

Poland



Name: Subcommittee of Underground Construction of Polish Committee on Geotechnics

Type of structure: Non-profit, open association

Number of members: 67 members, 6 corporate members

The PhD thesis by Maciej Ochmański (a Member of the Board of the Polish Tunnelling Society) titled "Numerical analyses of the effects of tunnels construction" from two universities: Silesian University of Technology in Poland and University of Cassino and Southern Lazio in Italy, was awarded 'Best PhD Thesis of 2016' by the Polish Committee on Geotechnics.

CURRENT TUNNELLING ACTIVITIES

Road Tunnel in Warsaw – a part of the south city ring

The tunnel will be 2,700m long, 3

ASSOCIATION ACTIVITIES DURING 2017 AND TO DATE

In 2017 the Polish Tunnelling Society (full name: Subcommittee of Underground Construction of Polish Committee on Geotechnics) continued working on the promotion of the underground space use in Poland. The Society co-organized several events, one of which was the conference endorsed by ITA - The 13th International Conference on Underground Infrastructure of Urban Areas (UIUA 2017), October 25-26, 2017. During this event a special ITA session took place with the participation of distinguished guests from ITA:

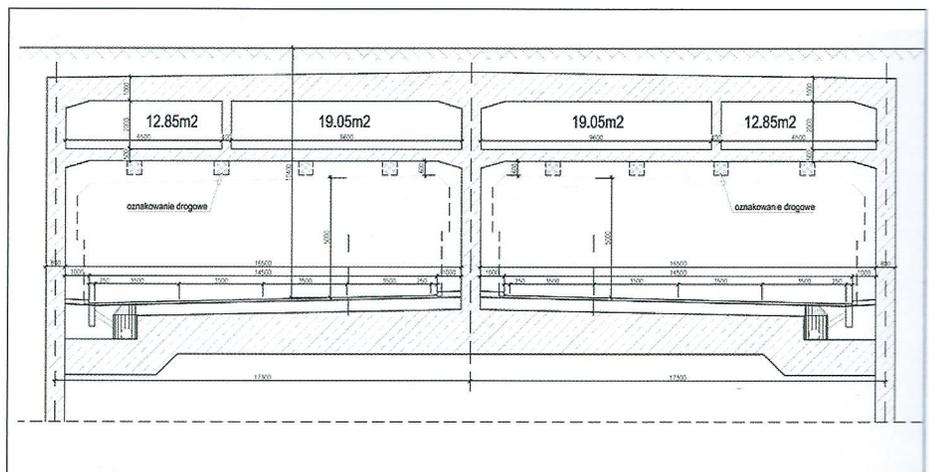
Tarcisio Celestino, Martin Herrenknecht, Soren Eskesen, Ruth G Haug, Eric Leca, Davorin Kolic, Giuseppe Lunardi, Olivier Vion and Tim Babendererde. On the second day of the conference the Polish Tunnelling Society organized a technical trip to Cracow, including a sightseeing tour of the "Wieliczka" Salt Mine (below).



Tarcisio CELESTINO



Martin Herrenknecht



The road tunnel in Warsaw, construction works in progress. (Plan top and cross-section above)

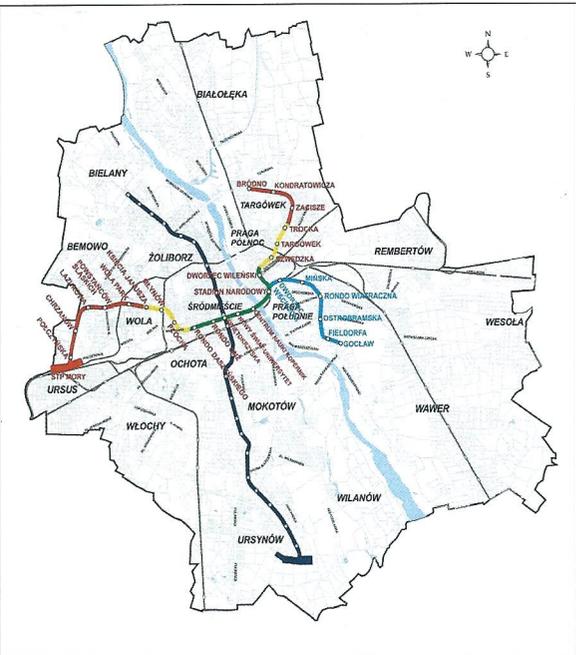


lanes in each direction; construction method - cut and cover.

Construction works in progress. Due date August 2020. Contractor: Astaldi S.p.A.

Construction of the 2nd metro line in Warsaw, extensions of the existing central part:

- In the east direction (3 stations, 3.1km) - Astaldi S.p.A.
- In the west direction (3 stations, 3.4km) – Gülermak Ağır Sanayi İnşaat ve Taahhüt A.Ş. Construction method: TBM + cut & cover. Due date 2019.



Caption: Construction of the 2nd metro line in Warsaw, and extensions of the existing central part.

Road Tunnel under Lubo Mały – south Poland

An over 2km tunnel on the S7 motorway from Kraków to Zakopane

Construction works in progress, the method of construction - ADECO RS. Due date 2020.
Contractor: Astaldi S.p.A. (below)



FUTURE TUNNELLING ACTIVITIES

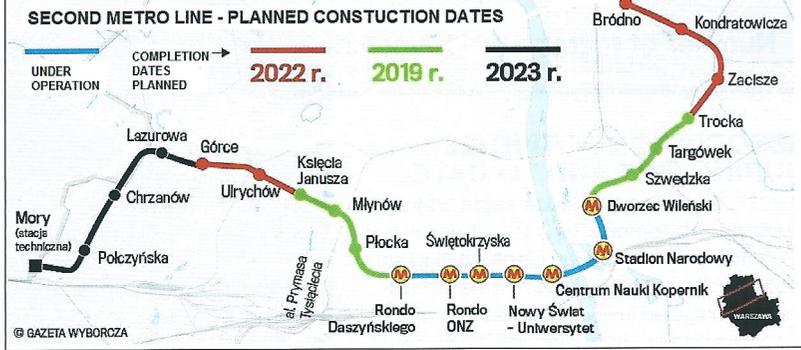
Rail Tunnel in Łódź – Tunnel connecting Łódź Fabryczna and Łódź Kaliska stations

Length of the tunnel – over 3km; 2 underground stations; Construction method TBM+cut&cover

Design and build tender completed. Design works begun, construction should start in October 2018. Due date 2022. Contractor: consortium of Energopol Szczecin and PBDiM Mińsk Mazowiecki

Construction of the 2nd metro line in Warsaw, further extensions:

- In a north-east direction (3 stations, 2 parallel tunnels, approx. 4km)
- In a west direction (5 stations, technical station, 2 parallel tunnels, approx. 6km)



Two separate design and build tenders are in progress. Contractors should be announced in the first quarter of 2018. (Above right – expected due dates, parts drawn in red and black)

Road Tunnel under Swina river in Swinoujscie – north Poland

The 1.44km tunnel will connect the islands of Uznam and Wolin. The construction method is by 12m diameter TBM. Due date is 2022. The design and build tender was completed but the result questioned.

The Contractor should be announced again in the first quarter of 2018.

Road Tunnel on the S3 motorway Bolków-Kamienna Góra – south Poland,

A 2.3km tunnel on the S3 motorway from Bolków to the state boarder. The tender is under progress. The Contractor should be announced again in the first quarter of 2018. Due date 2023.

Two Road Tunnels on the S1 motorway, a ring road for Włgierska Górka – south Poland

Two road tunnels (830m and 980m) on the S1 motorway from Bolków to the state boarder. The tender was announced in January 2018. The tunnels will be constructed using Sequential excavation method or ADECO. Due date 2022.

Four Road Tunnels on S19 motorway, Via Carpatia, section Rzeszów - Barwinek

Four road tunnels (1.35km, 1.75km, 1.6km, and 1.2km) on the S19 from Rzeszów to the

state boarder. The conceptual design is under progress. Due date 2023.

STATISTICS

1. Length or volume excavated - % mechanized / % conventional during 2017: 60% mechanized / 40% conventional
2. Amount (USD or EUR) of tunnelling / underground space facilities awarded in 2017: €380,000,000
3. List of tunnels completed:
4. List of tunnels under construction: Road Tunnel in Warsaw, part of south city ring (2.7km)
Construction of 2nd metro line in Warsaw, extensions of the existing central part (6.4km)
Road Tunnel under Luboń Mały – south Poland (~2km)

