

NETHERLANDS

ACTIVITY REPORT 2013

Department of Tunnelling and Underground Works (TTOW) of the Royal Institution of Engineers in the Netherlands

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The Royal Institution of Engineers in the Netherlands is an association with individual members who are also member of the various departments of the association.

The Department of Tunnelling and Underground Works is one of the larger departments within the association. Our department was founded in 1971.

We organised the following events in 2013

- **International Studytrip to Hongkong and China, januari / februari**
- **Lecture evening about Underground Space use in City environment Den Haag feb.26**
- **New developments in Underground space engineering and upcoming projects, Delft may 9**
- **Lessons Learned Symposium North-South Metroline Amsterdam, March 6 and 20**
- **Excursion Sluiskiltunnel, July 16**
- **“De projectenmarathon” excursion to 2 major Dutch projects, september 25**
- **Technology symposium, full-day meeting, oktober 31, in cooperation with COB**
- **ITA evening and annual meeting TTOW, december 16**



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In Amsterdam work on the new North-South Metro Line continues without delays.

At the end of 2013 the bored tunnel under the city of Amsterdam was completely finished hardly causing any subsidence of streets or buildings.

Also the immersion of tunnel elements under the IJ river were finished and the connections of the immersed element under Amsterdam Central station with both the tunnel under the river and the underground station in front of Amsterdam Central Station were accomplished by freeze technology.

Works on the TBM driven tunnel under the canal from Terneuzen to Gent in the south-west part of the country near Sluiskil is halfway.

In Delft work has commenced on the two km cut & cover tunnel carrying four railway tracks as part of the widening of the Rotterdam – the Hague railway line.

The work includes a new underground station and car parks. The excavation of the tunnel tube for the first 2 tracks, which will replace the existing viaduct that transverses the city of Delft, has been completed and work on the second part has commenced. Work on the two km long cut and cover tunnel for the A2 through Maastricht have commenced.

The plan involves a two-storey tunnel, for respectively motorway and local traffic. The plans are partly financed by redevelopment of city areas adjacent to the project.

In Rotterdam the Kruisplein Parking garage, a large 5 storey parking opposite Rotterdam Central Station has been completed.



2-storey A2 Tunnel in Maastricht



Arrival of the TBM after drilling of the first tunnel for the Sluiskiltunnelproject