

Iran



Name: Iranian Tunnelling Association (IRTA)

Type of structure: IRTA is an independent Association (approved as a scientific association by the Ministry of Science and Technology of Iran and active following regulations of Iran Scientific Associations Commission)

Number of members: Individual (non-student) Members: 730, Student Members: 440, Corporate Members: 170

2016 - ACTIVITIES

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Hold a 2 day shortcourse in August 2016:

Title: TBM Selection and Operation

Presenters:

Dr. Jamal Rostami (Colorado School of Mines)

Mr. Tim Babendererde (Babendererde Engineers)

Mr. Lars Langmaack (Normet)

Dr. Ulrich Rehm (Consultant)

Mr. Jean Denys Arnal (Bouygues-Construction)

Dr. Jafar Hassanpour (Tehran University)

Organized invited lecture (May 2016):

Topic: Tunnel building using *adeco-rs* method

Speaker: Mr. PIETRO LUNARDI

- Held monthly technical seminars
- Published the Quarterly "Tunnel" Magazine
- Published the bi-annual "Tunnelling and Underground Space Engineering" Journal together with Shahrood Technical University

FUTURE ACTIVITIES

IRTA is currently organizing ITC2017:

3rd Regional and 12th Iranian Tunnelling Conference to be held in November 2017

TUNNELS – UNDERGROUND WORKS

- More than 500km of tunnels with various usages are currently being constructed in Iran.
- Almost 30% of these tunnels are constructed by mechanized means.
- Amir Kabir Urban Tunnel in Tehran is in its final construction phases



Southern portal of Touhid Tunnel



Amir Kabir Tunnel

- The Arash-Esfandiyar-Niyesh Tunnel with a total length of 1420m is under construction in Tehran reducing traffic in an east-west direction in the city.



Arash-Esfandiyar-Niyesh Tunnel

- Several Metro Lines are under construction in Tehran, Qom, Mashhad, Tabriz whose work on tunnels and underground stations are being continued. A total of 95km of Metro Tunnels are currently under construction in Iran



Tehran Line 1 Metro Tunnel and Station

- Road Tunnels: More than 109km of Road Tunnels are under construction with the Alborz Tunnel being the longest road tunnel with 6400m length.



- Rail Tunnels: More than 157km of Rail Tunnels are under construction with the Shiraz-Boushehr-Asaluyeh Tunnel being the longest rail tunnel with 4100m length.



- **Water transfer Tunnels:** More than 185km of Water Tunnels are being constructed
- The Zagros Water Tunnel is one of the most important water tunnels under construction which with a length of 49km is in its final stages of completion.



- The Kerman Water Tunnel is another important project which with a length of 38km is being constructed from both sides.



Water pumpage from Zagros Tunnel