

# Iran



**Name:** Iranian Tunnelling Association (IRTA)

**Type of structure:** Non-profit, open association

**Number of members:** 760 individual (non-student) members, 480 student members, 181 corporate members

- Publishing the Persian translation of Sir Muir Wood's book "Tunnelling: Management by Design"
- Holding 3rd Regional and 12th Iranian Tunnelling Conference in November 2017
- Holding technical meetings with contractors and consultants on current project challenges

## CURRENT TUNNELLING ACTIVITIES

**Several Metro Lines are under construction in Tehran, Qom, Mashhad, Tabriz, where work on tunnels and underground stations are being continued.**

It should be noted that Tehran's metro line 6 was amongst the 4 finalists in the "Major Project of the Year (Over €500M)"

## ASSOCIATION ACTIVITIES DURING 2017 AND TO DATE

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





category of the ITA Tunnelling awards in 2017. This line is 31.2km long and consists of 27 stations with an alignment of south-east to north-west of Tehran passing through the city center.

- Road Tunnels: More than 109km of Road Tunnels are under construction with the Alborz Tunnel being the longest road tunnel of 6400m length
- Rail Tunnels: More than 157km of Rail Tunnels are under construction
- Water transfer Tunnels: More than 185km of Water Tunnels are being constructed
- Metro Lines: A total of 95km of Metro Tunnels are currently under construction

### FUTURE TUNNELLING ACTIVITIES

- Completing and expanding the road

and railway networks by more than 126km is planned for the future

- Completion and development of

metro lines in numerous cities by about 120km is planned for the future

- More than 100km of Water Tunnels have been designed and are ready for the start of the construction phase

### STATISTICS

1. Length or volume excavated - % mechanized / % conventional during 2017:

- More than 100km of tunnels with various usages constructed during 2017;
- Almost 30% of these tunnels are constructed by mechanized means.
- Metro Lines: 50km
- Water transfer Tunnels: 30km
- Road Tunnels: 10km
- Rail Tunnels: 10km

2. Amount (USD or EUR) of tunnelling / underground space facilities awarded in 2017:

- The value of tunnel projects in 2017 is approximately US\$1bn.

3. List of tunnels completed:

- Amir-Kabir urban tunnel in Tehran; Arash-Esfandiyar-Niayesh Tunnel in Tehran; Zagros Water Tunnel

4. List of tunnels under construction:

- Kerman Water Tunnel; metro tunnels in cities such as Tehran, Qom, Mashhad, Tabriz and numerous road and railway tunnels

