

Black Sea Coastal Road (İstanbul – Sinop Road). Twenty five tunnels of the 102 tunnels of the route were completed in the past years, 12 tunnels with a length of 22,999m are still under construction.

**Name of Association:** Turkish Road Association (TRA)

**Type of Structure:** Charity: TRA is an open association. Its function is to promote, coordinate and conduct studies and research in the fields of roads, highways, motorways, tunnelling, and other underground works.

**Number of Members:** 540 members of which 472 are individuals and 68 are corporate members that represent Universities, Consultants, Contractors, Manufacturers, and other Governmental Organizations.

## ASSOCIATION ACTIVITIES DURING 2023 AND TO DATE

A doctoral thesis, two master's thesis, and three papers/articles on Highway Engineering and Transportation were given awards in 2023 under the conditions specified in the "TRA AWARD".

The "5th National Highways Congress and Exhibition" was organized by the General Directorate of Highways (KGM) and the Turkish Highways Association (TRA). In addition, the 33rd Ordinary General Assembly of TRA was held with the participation of the General Manager of Highways and TRA President, Mr. Ahmet GÜLŞEN.

## CURRENT TUNNELLING ACTIVITIES

As of 2023, there are 495 tunnels on intercity highways in Turkey with a total length of 753km. In 2023, In addition to the opening to traffic of the 14,500m Zigana Tunnel (the longest tunnel in Turkey), construction works on 11 tunnels with a length of 42.5km have been completed. Tunnel work located on Turkey's intercity highways is summarized here:

### 1. Antalya – Mersin Route

Highway tunnels on the Antalya-Mersin Highway, of 440km length, include 33 tunnels with a combined length of 5,190m. Twenty tunnels have been completed, amounting to a total length of 15,935m. The remaining 12 tunnels with a combined length of 35,005m are under construction and the remaining one will be tendered. The following list provides further details of some tunnels on the route.

- Gökçebelen Tunnel: Double Tube, approximately 11,000m in length. 23.92% of the excavation and 6.57% of the concrete works have been completed
- Siphili T3 Tunnel: Double Tube, 6,634m long. 99.54% of the excavation in poor rock conditions and 10.85% of the concrete works have been completed
- Siphili T4 Tunnel: Double Tube, 1,382m long. 54.51% of the excavation support works have been completed in poor rock conditions

### 2. Western Black Sea Coastal Route

There are 102 tunnel on the Western

### 3. Karaman – Mut – Silifke Route

Four out of the nine tunnels located along this mountainous area on the 149km long Karaman-Mut-Silifke road have been completed, however electromechanical works are still underway. Construction works are being carried out on the remaining five tunnels mentioned below:

- Sertavul Tunnel: A 3,300m long double tube tunnel, being constructed at an elevation of 1,460m. Excavation works are being carried out in poor and very poor rock conditions. 738m of the left tube and 750m of the right tube have been excavated (56.69% of the target) and 12.43% of the concrete lining works are completed
- T1/A Tunnel: 2.865m long double tube. Excavation support works have been completed. 65.40% of the concrete lining works are completed
- T1/E Tunnel: Total length 3,408m. Excavation support works are being carried out and so far, 100% of the works have been completed
- T2 Tunnel: Total length 884m. There are ongoing excavation support works on four tunnel faces located at the 661m section of the tunnel with a current excavation support work completion rate of 46.04% on the left tube and 39.93% on the left tube
- T4 Tunnel: A Double Tube, 859m long, project design works are being carried

out which is revised due to a landslide that occurred at the entrance portal. Aproximately 6.74% of the excavation works have been completed

#### 4. Konya – Hadim – Alanya Route

Thirty tunnels with a total length of 31,207m have been designed along the Konya-Hadim-Alanya route. Thirteen of the 30 tunnels with a combined length of 9,524m have been completed. Currently, there are ongoing works on three tunnels. Completion of construction works is planned for the Karapınar (697m) tunnel and for excavation support works on Kaplanhanı 3 (665m) and Kaplanhanı 2 (363m) tunnels.

#### 5. Konya - Seydişehir – Manavgat Route

This particular route connects the Central Anatolian region to the Mediterranean region. The 7360m double tube Alacabel Tunnel is being built on the Konya-Seydişehir- Manavgat axis. This tunnel passes through the route at an elevation of approximately 1,525m. Excavation and concrete lining works is continuing in both tubes.

#### 6. Rize – Erzurum Route

There are 13 tunnels (36,509m) along the 238km long Rize-Erzurum route which connects the Eastern Black Sea Region to Eastern Anatolia. Nine out of these 13 tunnels with a combined length of 21,849m have been completed, while work on four of the tunnels is still ongoing.

■ Kırık Tunnel: A 7,091m long double tube at an elevation of 2,000m. 84.90% (12,123m) of the excavation works have been completed while concrete lining work is at 65.60% (9,943m)

■ İkizdere 1 Tunnel: A 3,296m long double tube at an elevation of 450m. 69% of the excavation and 13% of concrete lining works has been completed

■ İkizdere 2 Tunnel: Construction works will begin on this double tube tunnel, with a 1,198m long right tube and a 1,189m long left tube

■ Dallıkavak Tunnel: This is a 3,105m long double tube at an elevation of 2,100 – 2,300m. 91% (5,790m) of the excavation support work has been completed and 57% (3,693m) of the concrete lining work has been completed

#### 7. Erzurum – Çat – Bingöl Route

The 2 x 4,750m long double tube Çirişli Tunnel is under construction on the Erzurum-Çat-Bingöl Highway. This tunnel is expected to be completed in 2026. To reduce the risks and costs associated with the threat of avalanches on the current route, a new divided road will be constructed. Of the tunnel on the route 5,438m of excavation work, and 2,496m of concrete lining work has been completed.

#### 8. Yalova – Çınarcık – Armutlu Route

There are six tunnels with a combined length of 5,952m located along the Esenköy Pass which is a part of the

Yalova-Çınarcık-Armutlu Highway. Excavation support works have been completed on the T1 (2,053m) and the T2 (1,579m) tunnels where concrete lining work is ongoing. There are ongoing excavation support works on the T3 (862m), T4 (693m) and T5 (294m) tunnels. The secondary works supply tender will be held for the T6 (471m) tunnel.

#### 9. Refahiye - Kuruçay - İliç - Kemaliye - Dutluca Route

Nine tunnels with a combined length of 28,122m have been designed along the 173km long route that connects the Eastern Black Sea Region to Eastern Anatolia (Refahiye - Kuruçay - İliç - Kemaliye - Dutluca Road). There are ongoing works on eight of these tunnels, whilst the remaining one will be tendered. Progress of three of these eight tunnels is:

■ Sünebeli Tunnel: A 5,220m long double tube tunnel being constructed at an elevation of 1,600 – 1,800m. 96% of the excavation works and 34% of the concrete works are completed

■ Yakaköy T 1 Tunnel: A 1,650m long single tube tunnel at an elevation of 900m. All construction works have been completed

■ Kemaliye T 2 Tunnel: The Tunnel is located at an elevation of 950m, on this 3,170m long single tube tunnel 72% of the excavation work has been done

#### 10. Trabzon – Aşkale Route

Construction works have been completed on 32 of the 36 tunnels located along the 278km long Trabzon-



Aşkale highway which connects the Central Black Sea Region to Inner and Eastern Anatolia. The combined length of these 32 tunnels is 29,805m. The remainder, namely the Zigana tunnel is complete and opened to traffic in 2023, and the Vauk 1 & 2, and Kop tunnels which are under construction.

- Kop Tunnel: A 6,498m long double tube tunnel at an elevation of 2,000 – 2,400m. 8,333m of the excavation works have been completed, amounting to 6,364m of the concrete lining works have been completed amounting to 5,250m
- Vauk 1 and 2 Tunnels: 6.723m long double tube tunnel located at an elevation of 1,600m. 5,770m of the excavation works and 1,600m of the concrete works have been completed

## 11. Zara-Geminbeli-Suşehri Route

The 8,566m (2 x 4,283m) long Geminbeli Tunnel which lies along the Zara-Geminbeli-Suşehri Road has undergone 8,566m of excavation and support works, along with 7,960m of concrete lining works.

## 12. Ordu Ring Road Route

There are six double tube tunnels with a combined length of 9,492m on the first section of the Ordu Ring Road. The length of both sections is 21.4km. The double tube tunnels, Boztepe (2 x 3,311m) and Öceli (2 x 2,019m) have been completed. Section, excavation works have been completed on the Terzili Tunnel (2 x 1,180m) whereas concrete lining works are ongoing. Concrete lining works on tunnels Akçatepe -1 (2 x 440m) and excavation works on Akçatepe -2 (2 x 1,740m) have been completed, whereas the Turnasuyu Tunnel (2 x 802m) is designed and expropriation work is continuing.

## 13. Other Tunnelling Works

- The final phase of the high-speed railway project connecting Turkey to Bulgaria has begun, with work on the Halkali to Ispartakule double tube tunnel (2 x 6,180m) being constructed by TBM as a part of the Halkalı - Kapıkule (İstanbul) Railroad Project. The Halkalı Kapıkule Railway Project began in 2019 and was described as the first part of the Asia-Europe Railway Corridor, with the 229km-long project marking the main rail link between Turkey and Western Europe connecting to the Trans-European Transport Network. It is planned for

completion in 2025.

- Within the scope of the Gayrettepe-Kağithane - New Airport Subway Line, TBM construction works have been completed at a section measuring 2 x 34,140m. The Gayrettepe – Istanbul Airport Metro Line is located in the northern area of Istanbul’s European Side, on an east–west axis. It passes through the Şişli, Kağithane, Eyüp and Arnavutköy districts and consists of Gayrettepe, Kağithane, Hasdal, Kemberburgaz, Göktürk, İhsaniye, Airport-2, Istanbul Airport Metro Station and Technical Support Area stations, respectively. These stations are connected with two main line tunnels, each with an inside diameter of 5.7m and a length of approximately 37.5km. The entire line is being built underground.
- The Başakşehir – Kayaşehir Subway Line is 6,187m long with an estimated travel time of 19 minutes through eight stations. A double tube was being constructed via TBM and was put into the service in 2023
- The Istanbul Bakırköy – Bahçelievler – Kirazlı Subway Line will be 13,111m long. The journey will take 13.5 minutes from Bakırköy to Kirazlı. The line contains eight double-deck stations constructed by TBM and to be put into service in February of 2024. There are TBM Tunnel construction works between the Bakırköy - İncirli stations. Excavation works have been completed on the 2 x 1,035m section using the NATM method. Construction works are being carried out via the TBM method on the 2 x 6,500m section.
- Construction works on the double tube metro line tunnel, 15.4km long, are being carried out on the Kocaeli, Gebze - Darıca Coastal Metro line.
- Within the scope of the Southeastern Anatolia Project, the Babakaya and Silvan Tunnels are being built to transport water from the Silvan Dam currently under construction. Two parallel tunnels each 5,320m long are being constructed by TBM. A corrugated steel channel is being excavated using the drill and blast method. The Babakaya Tunnel is 5,278m long, with a 7m inner diameter on the two tubes. This tunnel will transport the water from the dam into the Silvan Tunnel, which will carry 212m<sup>3</sup> of water per second. It is being constructed as a single tube

with a length of 13.4km and a diameter of 10m. The water in the dam will be transferred to the 97.6km long main canal through the Silvan and Babakaya Tunnels. 84% of the Silvan Project and 46% of Babakaya Dam has been completed.

- The 18km long Hadimi irrigation tunnel, which transfers the water from Afşar Dam to the Bağbaşı Dam, is under construction with 5000m bored so far.

## FUTURE TUNNELLING ACTIVITIES

### Subway Lines

- Haciosman - Sariyer Subway Line (İstanbul) (5.70km)
- Sultanbeyli - Kurtköy Subway Line (İstanbul) (5.40km)
- Esenyurt Meydan – Saadetdere Subway Line (İstanbul) (5.40km)
- Söğütlüçeşme - Yenidoğan Subway Line (İstanbul) (24.90km)
- İstanbul Yenikapı – İncirli -Sefaköy Subway Line
- Sefaköy - Beylikdüzü - Tüyap Subway Line (İstanbul) (18.51km)
- Hizray Subway Line (İstanbul) (74.50km)
- Vezneciler - Sultangazi - Fenertepe Subway Line (İstanbul) (23.70km)
- Ambarlı - Hadimköy Subway Line (İstanbul) (26.70km)
- İtü - Kağithane Subway Line (İstanbul) (7.40km)
- Metrokent - Habibler Subway Line (İstanbul) (5.5km)
- Taksim - Okmeydani Subway Line (İstanbul) (3.60km)
- Maltepe Sahil - Samandira Subway Line (İstanbul) (9.3km)
- Kartal Sahil - Uğur Mumcu Subway Line (İstanbul) (4.8km)
- Altunizade - Çengelköy - Kavacık Subway Line (İstanbul) (11.1km)
- Yıldız - Ortaköy Füniküler Subway Line (İstanbul) (1.50km)
- İtü - İstinye Füniküler Subway Line (İstanbul) (2.65km)
- Eyupsultan (Feshane) - Bayrampaşa Tramvay Subway Line (İstanbul) (1.70km)

### Highway

- T1 (Antalya – Alanya Highway Tunnel) (1086m – 1086m)
- T2 (Antalya – Alanya Highway Tunnel) (1683m – 1683m)
- T3 (Antalya – Alanya Highway Tunnel) (1080m – 1080m)
- T4 (Antalya – Alanya Highway Tunnel) (2231m – 2231m)
- T5 (Antalya – Alanya Highway Tunnel) (566m – 566m)
- T6 (Antalya – Alanya Highway Tunnel)

- (875m – 875m)
- T7 (Antalya – Alanya Highway Tunnel) (805m – 805m)
  - T8 (Antalya – Alanya Highway Tunnel) (2976m – 2976m)
  - T1 (Ankara – Kırıkkale – Delice Highway Tunnel) (1095m - 1095m)
  - T2 (Ankara – Kırıkkale – Delice Highway Tunnel) (1160m – 1255m)
  - T3 (Ankara – Kırıkkale – Delice Highway Tunnel) (475m – 475m)
  - T4 (Ankara – Kırıkkale – Delice Highway Tunnel) (878m – 878m)
  - T1 - Tunnel (İstanbul) (526m – 686m)
  - T1 - Tunnel (Mersin) (4540m – 4518m)
  - T2 - Tunnel (Mersin) (3751m – 3718m)
  - T1 - Tunnel (Elazığ – Diyarbakır) (605m – 665m)
  - T2 - Tunnel (Elazığ – Diyarbakır) (402m – 470m)
  - T3 - Tunnel (Elazığ – Diyarbakır) (188m – 159m)
  - T4 - Tunnel (Elazığ – Diyarbakır) (1085m – 475m)
  - T6 - Tunnel (Elazığ – Diyarbakır) (395m – 310m)
  - T5 - Tunnel (Elazığ – Diyarbakır) (1085m – 820m)
  - T7 - Tunnel (Elazığ – Diyarbakır) (293m – 335m)
  - T8 - Tunnel (Elazığ – Diyarbakır) (980m – 1035m)
  - T9 - Tunnel (Elazığ – Diyarbakır) (680m – 705m)
  - T10 - Tunnel (Elazığ – Diyarbakır) (640m – 655m)
  - T11 - Tunnel (Elazığ – Diyarbakır) (830m – 780m)
  - Köşmür Tunnel (Bingöl) (6697m)
  - Kulp Tunnel (KULP-MUŞ) (730m – 730m)
  - Tersun Tunnel (Gümüşhane) (4520m – 4510m)
  - Başkale Tunnel (Van) (3087m – 3090m)
  - T1 Tunnel (Balıkesir) (1404m – 1356m)
  - T1 Tunnel (Zonguldak) (2666m – 2666m)
  - T3 Tunnel (Zonguldak) (392m – 415m)
  - T4 Tunnel (Zonguldak) (782m – 812m)
  - T5 Tunnel (Zonguldak) (2576m – 2617m)
  - Ilgar Tunnel (Ardahan) (4455m)
  - Sahilyolu Tunnel (Trabzon) (1,865m – 1,865m)
  - İkizdere-2 Tunnel (Rize) (3,300m – 3,300m)
  - T3 Tunnel (Kastamonu) (2,060m – 2,060m)
  - T4 Tunnel (Kastamonu) (5,277m – 5,277m)
  - T5 Tunnel (Kastamonu) (555m – 620m)
  - Gümüşakar Tunnel (Erzincan) (1,580m – 1,580m)
  - T4 (Kozlupınar) Tunnel (Erzincan) (3,325m)
  - T5 (Vali Recep Yazicioğlu) Tunnel (Erzincan) (4,315m)
  - T6 (Dutluca) Tunnel (Erzincan) (2,735m)
  - Kızıldağ Tunnel (Erzincan/Sivas) (6,471m – 6,410m)
  - Arpayazı Tunnel (Erzincan) (4,615m – 4,615m)
  - Çamlıbel Tunnel (Tokat/Sivas) (4,735m – 4,735m)
  - Sakaltutan Tunnel (Erzincan) (8,785m – 8,775m)
  - Ahmediye Tunnel (Erzincan) (6,315m – 6,315m)
  - Bozkır Tunnel (Sivas) (2,545m – 2,545m)
  - Çamoluk1 Tunnel (Sivas) (120m)
  - Çamoluk2 Tunnel (Sivas) (872m)
  - Kemah1 Tunnel (Erzincan) (2,764m)
  - Kemah2 Tunnel (Erzincan) (2,585m)
  - Kemah3 Tunnel (Erzincan) (307m)



- T1 Tunnel (Erzincan) (289m)
- T2 Tunnel (Erzincan) (1,040m)
- T3 Tunnel (Erzincan) (988m)
- T4 Tunnel (Erzincan) (708m)
- T5 Tunnel (Erzincan) (590m)
- T6 Tunnel (Erzincan) (1,690m)
- Üçdam Tunnel (Tunceli) (3,841m)
- Şaplıca Tunnel (Giresun) (1,61m)
- T1 Tunnel (Sivas) (425m – 425m)
- Sincan Tunnel (Sivas) (325m)
- Sincan Tunnel (Sivas) (2,415m)
- T1 Tunnel (Giresun) (4,440m – 4,440m)
- Bursa – Osmangazi- Recep Tayyip Erdoğan and Ata boulevard connection tunnel (2,435m – 2,435m)

### Railway Tunnels

- Ankara – İzmir Railway high speed train line (Kütahya) (390m)
- Ankara – İzmir Railway high speed train line (Kütahya) (315m)
- Ankara – İzmir Railway high speed train line (Uşak) (4,330m)
- Ankara – İzmir Railway high speed train line (T9-T10-T11-T17-T18-T19-T20) (Manisa) (2,062m)
- İspartakule – Çerkezköy railway project (Aç Kapa Tunnel-1-2-3-4-5-6) (İstanbul) (2,885m)
- İspartakule – Çerkezköy railway project (T-1 Tunnel and T-2 Tunnel) (İstanbul) (2,785m)
- İspartakule – Çerkezköy railway project (Acil Kaçış 1 Tunnel and Acil Kaçış 2 Tunnel) (İstanbul) (1,017m)
- Yerköy - Kayseri Railway high speed train line (Tunnel 2-4-5-6-7-8) (Yozgat) (9,748m)

### Irrigation Tunnels

- Mersin Aksıfat Dam Tunnel Project (Mersin) (5,260m)
- Mersin Gülnar Sipahili Dam Tunnel Project (Mersin) (5,260m)
- Erzurum Pasinler Söylemez Dam İrrigation (Erzurum) (5,625m)
- Erzurum Pasinler Söylemez Dam İrrigation (Erzurum) (28,489m)
- Erzurum Elmalı Dam İrrigation (Erzurum) (9,000m)
- Gümüştaş Tunnel İrrigation (Şanlıurfa) (5,370m)
- Payamlı Tunnel İrrigation (Şanlıurfa) (9,030m)
- Eğirdir Tepeli irrigation pond (Isparta) (406m)
- Uluborlu Dereköy irrigation pond (Isparta) (205m)
- Yalvaç Kumdanlı irrigation pond (Isparta) (120m)
- Merkez Sav irrigation pond (Isparta) (267m)

- Eğirdir Çayköy irrigation pond (Isparta) (372m)
- Sultandağı Arslanlı Pond Derivation Tunnel (Afyonkarahisar) (320m)
- Emirdağ Pond Derivation Tunnel (Afyonkarahisar) (410m)
- Sandıklı Ekinhisar irrigation pond (Afyonkarahisar) (555m)

- Merkez Karakent irrigation pond (Burdur) (269m)
- Büyükçay irrigation tunnel (Adıyaman) (9,269m)
- Göksu Araban T1 irrigation tunnel (Adıyaman) (3,820m)
- Göksu Araban T2 irrigation tunnel (Adıyaman) (4,660m)

### STATISTICS

Length or volume excavated - % mechanized / % conventional during 2023

Total Excavation			
Length (m)		Volume (m <sup>3</sup> )	
125.698,72		6.536.333,44	
Mechanized (%)	Conventional (%)	Mechanized (%)	Conventional (%)
35	65	35	65

Amount (USD or EUR) of tunnelling / underground space facilities awarded in 2023  
**€461.006.013,4**

### List of tunnels completed

#### Subway Lines

- Ataköy - Basın Ekspres - İkitelli Metro Line (İstanbul) (11300m)
- Eminönü - Eyüpsultan - Alibeyköy (Haliç) Tramvay Line (İstanbul) (311m)
- Dudullu - Bostancı Metro Line (İstanbul) (76m)
- Fahrettin Altay – Narlıdere (stage 4) Metro Line (İzmir) (6337m – 6434m) (876m)

#### Highway

- Alacabel Tunnel (Antalya-Konya) (7.355m - 7.361m)
- T-1 Tunnel (Çorum) (1.406m - 1.372m)
- T10 Tunnel (Bingöl) (359m)
- Çukurçayır 1 Tunnel (Trabzon) (342m – 336m)
- T1 Tunnel (Artvin) (290 m)
- Yeniköy Tunnel (Gümüşhane) (620m – 560m)
- Yağdonduran Tunnel (Sivas) (850m – 850m)
- Aşık Şenlik Tunnel (Ardahan) (2,304m – 2,312m)
- Zigana Tunnel (Gümüşhane-Trabzon) (14,500m – 14,500m)
- Demirkapı Tunnel (Konya) (5,680m – 5,680m)
- Honaz Tunnel (Denizli) (2,640m – 2,640m)
- Badal Tunnel (Merzifon – Osmancık) (921m - 921m)

#### Railway Tunnels

- Ankara – İzmir Railway high speed train

line (Eskişehir) (260m)

- Ankara – İzmir Railway high speed train line (Eskişehir) (300m)
- Ankara – İzmir Railway high speed train line (Afyon) (340m)
- Ankara – İzmir Railway high speed train line (Afyon) (300m)
- Ankara – İzmir Railway high speed train line (Afyon) (540m)
- Ankara – İzmir Railway high speed train line (Afyon) (373m)
- Ankara – İzmir Railway high speed train line (Afyon) (195m)
- Ankara – İzmir Railway high speed train line (Afyon) (460m)
- Ankara – İzmir Railway high speed train line (Afyon) (279m)
- T8-1 Ankara- Sivas railway project (Yozgat) (720m)
- T8-2 Ankara- Sivas railway project (Yozgat) (885m)
- T14-6 Ankara- Sivas railway project (Yozgat) (70m)
- T18-1 Ankara- Sivas railway project (Sivas) (275m)
- T11 Bursa-Gölbashi Kuzey-Yenişehir high speed train project (Bursa) (2853m)
- Bursa-Gölbashi Kuzey-Yenişehir high speed train project (Bursa) (4913m)
- Karaman- Ulukışla railway project (Niğde) (2491m)
- Nurdağ- Başpınar T4 (Gaziantep) (1900m - 1904m)
- Nurdağ- Başpınar T5 (Gaziantep) (5695m - 5702m)

#### Irrigation Tunnels

- Reyhanlı dam T2 Tunnel irrigation (Adana)

- Yeni Yusufeli irrigation tunnel (Artvin) (196m)
- Yeni Yusufeli irrigation tunnel (Artvin) (1409m)

#### 4. List of tunnels under construction

##### Subway Lines

- Bağırcılar Kirazlı - Küçükçekmece Halkalı Subway Line (İstanbul) (9700m)
- Kaynarca Merkez - İçmeler Subway Line (İstanbul) (7000m)
- Çekmeköy - Sancaktepe - Sultanbeyli Subway Line (İstanbul) (2600m – 2943m)
- Mahmutbey - Bahçeşehir - Esenyurt Subway Line (1. part) (İstanbul) (3148m – 3031m)
- Pendik Merkez - Kaynarca Merkez - Fevzi Çakmak Subway Line (İstanbul) (1458m – 157m)
- Göztepe - Ataşehir - Ümraniye Subway Line (İstanbul) (13000m)
- Fahrettin Altay – Narlıdere (stage 5) Subway Line (İzmir) (13500 m -13500m)
- Gayrettepe – İstanbul airport Subway Line (İstanbul) (3507m - 3507m)
- Halkalı – İstanbul airport Subway Line (İstanbul) (28132m - 27611m)
- Bakırköy Bahçelievler Subway Line (İstanbul) (8400m - 8400m)
- Gebze Darıca Subway Line (Kocaeli) (15400m - 15400m)
- Altunizade – Bosna rail system line (İstanbul) (4000m – 4000m)
- Emek city hospital Subway Line (Bursa) (6000m – 6000m)

##### Highway

- T4 Tunnel (Çanakkale) (503m)
- T5 Tunnel (Çanakkale) (2,558m)
- Sertavul Tunnel (Karaman) (3,308m – 3,292 m)
- Alacabel Tunnel (Mersin) (6,637m - 6.634m)
- T4 Tunnel (Mersin) (1.412m - 1.382m)
- T1A Rev.Tunnel (Mersin) (2.860m - 2.830m)
- T1E Rev.Tunnel (Mersin) (3.380m - 3.426m)
- T2 Tunnel (Mersin) (884m – 884m)
- T4 Tunnel (Mersin) (861m - 858m)
- T1 Tunnel (Mersin) (705m – 830m)
- Akçatepe-1 Tunnel (Ordu) (440m – 440m)
- Akçatepe- 2 Tunnel (Ordu) (1.740m - 1.740m)
- T1 Tunnel (Bingöl) (1.943m)
- T11 Tunnel (Bingöl) (305m)
- T1 Tunnel (Siirt) (2.190m)

- T2 Tunnel (Siirt) (1.929m)
- T1 Tunnel (Şırnak) (2.845m)
- Ortabağ 2 Tunnel (Şırnak) (1.955m)
- Değermendere Tunnel (Trabzon) (1.961m - 1.977m)
- T-1 Tunnel (Rize) (189m)
- T-2 Tunnel (Rize) (298m)
- İkizdere-1 Tunnel (Rize) (3.165m - 3.296m)
- Vauk T1 Tunnel (Gümüşhane-Bayburt) (1.585m - 1.585m)
- Vauk T2 Tunnel (Gümüşhane-Bayburt) (5.895m – (5.895m)
- T5-Tunnel (Trabzon) (1.525m – 1.593m)
- T6-Tunnel (Trabzon) (896m – 983m)
- T1 Tunnel (Giresun) (185m)
- Pekün Tunnel (Gümüşhane) (6.347m - 6.381m)
- T1 Tunnel (Trabzon) (722m – 722m)
- T2 Tunnel (Trabzon) (1.238m - 1.238m)
- Aktütün Tunnel (Hakkari) (5.700m)
- T-1 Tunnel (Hakkari) (3.965m - 3.961m)
- T-2 Tunnel (Hakkari) (4.566m - 4.566m)
- Başkale -Güzeldere Tunnel (Van) (3.116m - 3.108m)
- T2 Tunnel (Bitlis) (1.270m - 1.270m)
- Kop Dağı Tunnel (Erzurum - Bayburt) (6.526m - 6.533m)
- Olur Ardanuç Tunnel (Erzurum) (3.490m)
- Çirişli Tunnel (Erzurum) (4.749m - 4.751m)
- Dallıkavak Tunnel (Erzurum) (3.115m - 3.095m)
- Kırık Tunnel (Erzurum) (7.102m - 7.080m)
- Oba Tunnel (Antalya) (620m - 620m)
- Kaplanhanı-2 Tunnel (Antalya) (303m)
- Kaplanhanı-3 Tunnel (Antalya) (666m)
- Karapınar Tunnel (Antalya) (701m)
- Gökçebelen Tunnel (Antalya) (11.088m - 11.000m)
- Doğancı Tunnel (Bursa) (1.998m)
- T1 Tunnel (Yalova) (2.053m)
- T2 Tunnel (Yalova) (1.579m)
- T3 Tunnel (Yalova) (871m)
- T4 Tunnel (Yalova) (676m)
- T5 Tunnel (Yalova) (294m)
- T6 Tunnel (Yalova) (471m)
- T4 Tunnel (Bartın) (4.627m - 4.587m)
- T5 Tunnel (Bartın) (3.090m - 3.090m)
- Kırık Tunnel (Kastamonu) (5.321m - 5.333m)
- T1 Tunnel (Kastamonu) (6.426m - 6.460m)
- T2 Tunnel (Kastamonu) (3.690m - 3.690m)

- T1 Tunnel (Zonguldak) (2.660m - 2.660m)
- T3 Tunnel (Zonguldak) (400m – 380m)
- T4 Tunnel (Zonguldak) (1.945m - 1.985m)
- T5 Tunnel (Zonguldak) (2.490m - 2.520m)
- T6 Tunnel (Zonguldak) (1.705m - 1.665m)
- T7 Tunnel (Zonguldak) (2.999m - 3.000m)
- Geminbeli Tunnel (Sivas) (4.288m - 4.279m)
- Sünebeli Tunnel (Erzincan) (5.220m - 5.220m)
- T1 (Yakaköy) Tunnel (Erzincan) (1.650m)
- T2 (Kemaliye) Tunnel (Erzincan) (3.170m)
- T3 (Toybelen) Tunnel (Erzincan) (1.510m)
- Sarıçiçek-1 Tunnel (Sivas) (1.585m)
- Sarıçiçek-2 Tunnel (Sivas) (1.115m)
- Ilgar Tunnel (Ardahan) (4.810m - 4.972m)
- Sarıyer – Kilyos Tunnel (İstanbul) (6875m – 6840m)

##### Railway Tunnels

- T1 KYHYT Tunnel (Yozgat) (1020m)
- T3 KYHYT Tunnel (Yozgat) (2640m)
- T1 MAOG Tunnel (Gaziantep) (884m – 884m)
- T2 MAOG Tunnel (Gaziantep) (2325m – 2325m)
- T3 MAOG Tunnel (Gaziantep) (5135m – 5139m)
- T4 MAOG Tunnel (Gaziantep) (1904m – 1903m)
- T5 MAOG Tunnel (Gaziantep) (5695m – 5702m)
- T6 MAOG Tunnel (Gaziantep) (1281m – 1290m)
- Ankara – İzmir Railway high speed train line (Afyon) (660m)
- Ankara – İzmir Railway high speed train line (Afyon) (480m)
- Ankara – İzmir Railway high speed train line (Afyon) (5160m)
- Ankara – İzmir Railway high speed train line (Afyon) (1260m)
- Ankara – İzmir Railway high speed train line (Kütahya) (740m)
- Ankara – İzmir Railway high speed train line (Kütahya) (868m)
- Ankara – İzmir Railway high speed train line (Kütahya) (696m)
- Halkalı – Ispartakule railway line (İstanbul) (6185m – 6168m)
- Ankara – Sivas railway project (T3-1, T3-2, T5-1, T5-2, T5-3, T9-1, T9-2, T9-3) (Yozgat) (6466m)
- Ankara – İstanbul high speed train project (T26) (Bilecik) (5589m)



- Sapanca – Geyve high speed train project (T1-T2-GT3-GT4-GT5-GT6) (Sakarya) (11310m)
- Nurdağ – Başpınar railway line (Gaziantep) (2325m – 2334m)
- Nurdağ – Başpınar railway line (Gaziantep) (5135m – 5139m)
- Erzurum - Kars railway line (Erzurum) (10580m – 30500m)
- Erzincan – Erzurum railway line (Erzincan) (54520m)
- Siirt – Kurtalan railway line (Siirt) (16380m)
- Malatya – Elazığ railway line (Elazığ) (28450m)
- Elazığ – Diyarbakır railway line (Elazığ) (43335m)
- Afyon – Burdur railway line (Burdur) (23940m)
- Adıyaman – Gölbaşı railway line (Adıyaman) (28440m)

#### Irrigation Tunnels

- Bolu seven taşıyayla irrigation pond (Bolu)
- Alaca irrigation tunnel (Erzurum) (827m)
- Acar irrigation tunnel (Erzurum) (1129m)
- Bezirhane irrigation tunnel (Erzurum) (735m)
- Altınpınar irrigation tunnel (Erzurum) (623m)
- Ağrı Ovası Yazıcı irrigation tunnel (Erzurum) (3889m)
- Kale Baraj irrigation tunnel (Diyarbakır) (9375m)

- Silvan part 2 irrigation tunnel (Diyarbakır) (13236m)
- Babakaya irrigation tunnel (Diyarbakır) (5320m – 5320m)
- Çavdır Büyükalan irrigation pond (Burdur) (51m)
- Koçali irrigation tunnel (Adıyaman) (5191m)
- Koçali irrigation tunnel (Adıyaman) (332m)
- Koçali main transmission line irrigation tunnel (Adıyaman) (2422m)
- Çelikhan irrigation tunnel (Adıyaman) (215m)
- Obrucak irrigation tunnel (Kastamonu) (1477m)
- Değirmençay dam construction (Mersin)
- Savrun dam construction (Osmaniye)

#### Mining Tunnels

- Armutçuk I. ve II. Block Underground Coal Mine (Zonguldak) (110m)
- Kozlu -560 Underground Coal Mine (Zonguldak) (90m)
- Kozlu -630 Underground Coal Mine (Zonguldak) (10m)
- Üzülmöz Asma-Dilaver-320 Underground Coal Mine (Zonguldak) (199m)
- Kilimli -540 east side Underground Coal Mine (Zonguldak)
- Gelik -460 Underground Coal Mine (Zonguldak) (60m)
- Klimli -460 Underground Coal Mine (Zonguldak) (42m)

- Gelik -540 Underground Coal Mine (Zonguldak) (78m)
- Amasra -250/-350 Underground Coal Mine (Zonguldak)
- Ömerler Underground Coal Mine (Kütahya) (115m)
- Emet sulfuric acid plant water transmission line (Kütahya)

#### EDUCATION ON TUNNELLING IN THE COUNTRY

The Tunneling courses in the country are given as both graduate and undergraduate programs. The universities are: Adana Science and Technology University; Afyon Kocatepe University; Ataturk University; Baskent University; Bilecik Şeyh Edebali University; Bingöl University; Bulent Ecevit University; Çanakkale Onsekiz Mart University; Cankiri Karatekin University; Dicle University; Dokuz Eylul University; Duzce University; Eskisehir Technical University; Erzincan Binali Yıldırım University; Muğla Sıtkı Koçman University; Nigde Omer Halisdemir University; Nisantasi University; Pamukkale University; Recep Tayyip Erdogan University; Sivas Cumhuriyet University; Giresun University; Istanbul University – Cerrahpasa; Karabuk University; at Dokuz Mayıs University; Middle East Technical University; Sivas Cumhuriyet University; Sırnak University; Toros University; Zonguldak Bulent Ecevit University.