

Construction of the Bosphorus Strait Tunnel

보스포루스 해협 횡단 터널공사

Project Overview

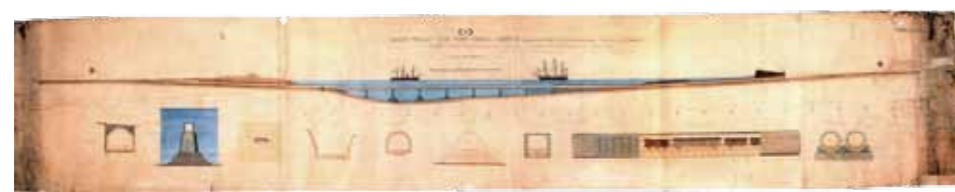
The Bosphorus Strait Tunnel project covers a total span of 13.6km and consists of;

- an immersed tunnel (1.4km under the Bosphorus Strait)
- double-line shield tunnels (9.5km)
- 3 underground and 1 ground-based stations

Realization of a "150-year-old dream" for the people of Turkey

"The Republic of Turkey stands at the crossroads of Europe and Asia. The construction of an under surface tunnel across the Bosphorus Strait that divides Istanbul into two has been a fervent wish of the people of Turkey since the days of the Ottoman Empire 150 years ago.

Applying diverse technologies to overcome a great number of issues, TAISEI Corporation completed the construction of the Bosphorus Strait Tunnel, culminating in the successful opening of the Trans-Bosphorus Underwater Railway in October 2013.



Cross-sectional drawings in the Ottoman Empire (preserved in the city of Uskudar)



Underwater tunnel ground plan (1860)



Tape-cutting at the opening ceremony on October 29, 2013



Connection of the immersed and shield tunnels



Snapshot at the immersed tube tunnel



Mounting of the nameplate



Kazlıçesme Station



Yenikapi Station



Sirkeci Station (south exit)



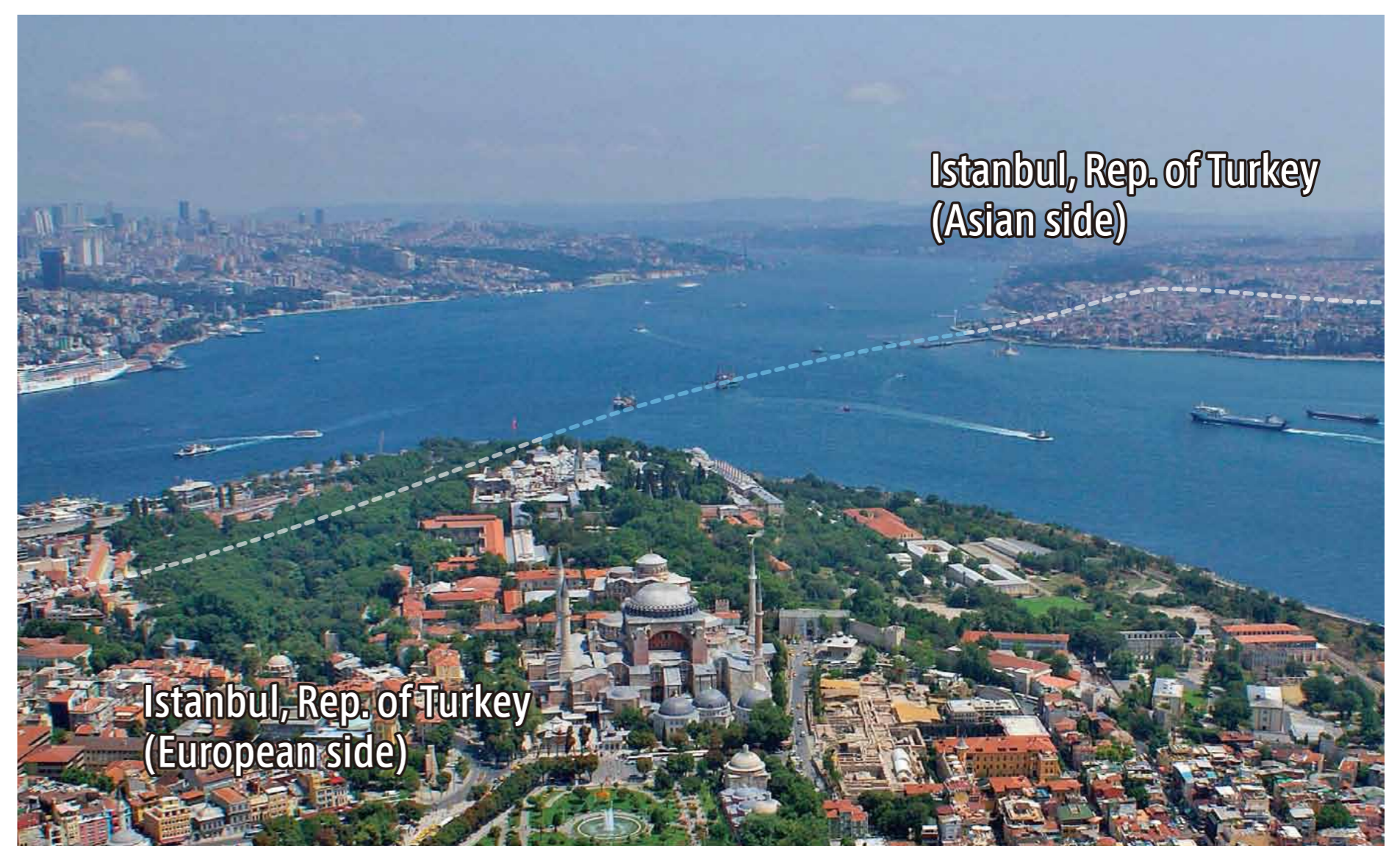
Uskudar Station



Ayrılıkçesme Station

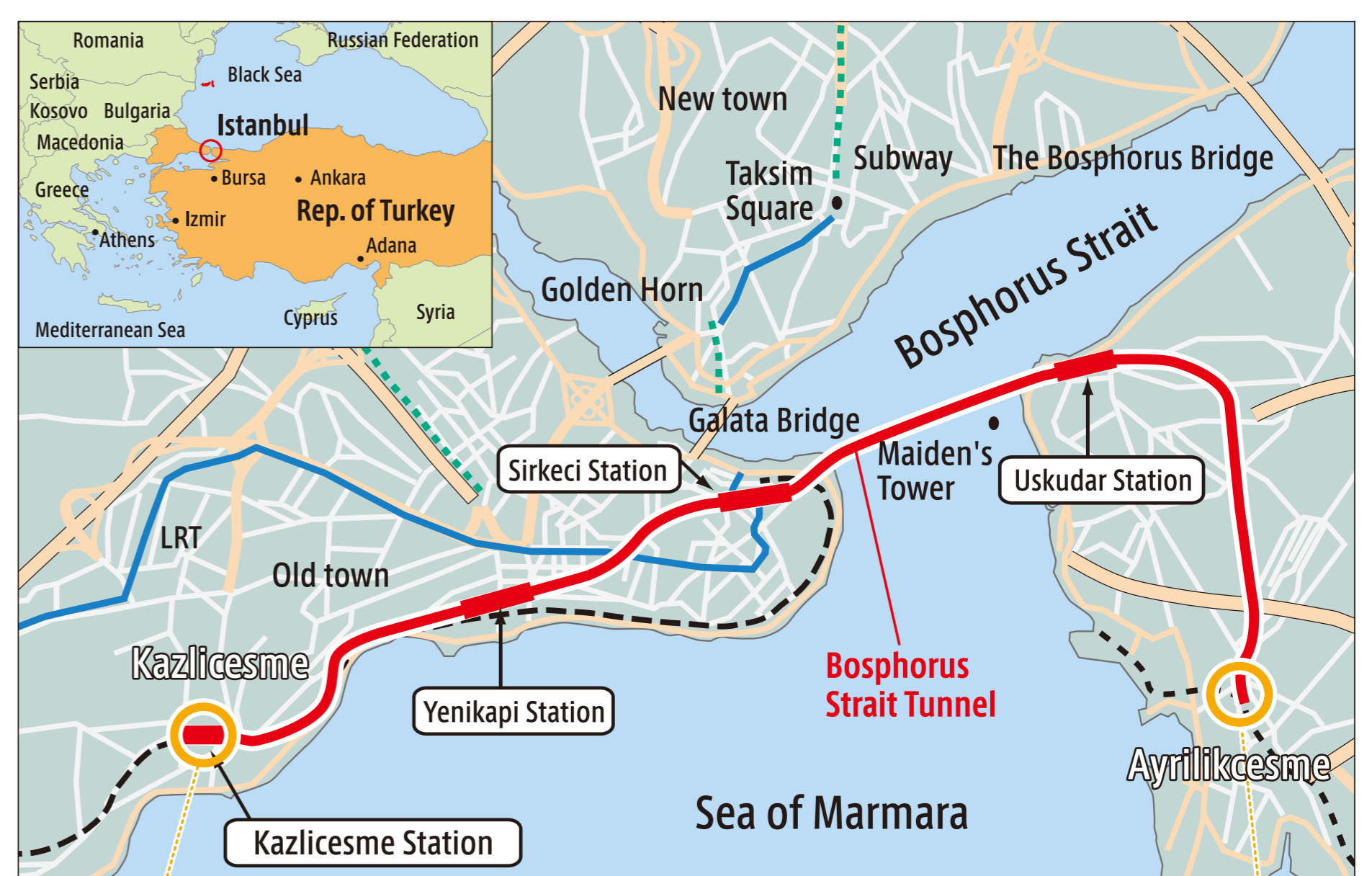
European side

Asian side



Istanbul, Rep. of Turkey (Asian side)

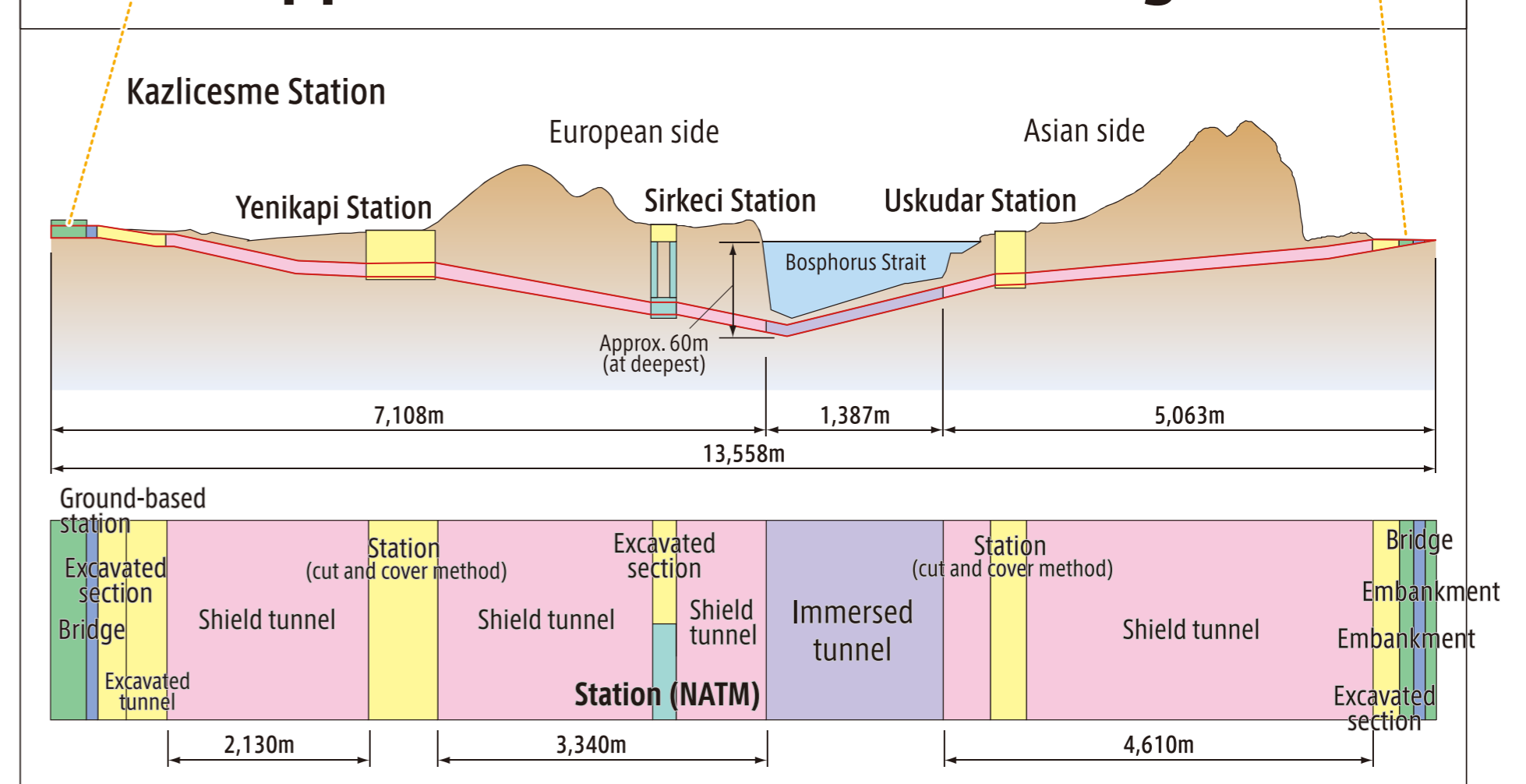
Istanbul, Rep. of Turkey (European side)



History of awards

- FY2009** Outstanding Civil Engineering Achievement Award (immersed tunnels) <Japan Society of Civil Engineers>
- FY2010** Engineering Merit Award (immersed tunnels) <Engineering Advancement Association of Japan>
- FY2011** Minister of Land, Infrastructure, Transport and Tourism Award in Merit Awards for Industry-Academia-Government Collaboration (immersed tunnels) Outstanding Civil Engineering Achievement Award (shield tunnels) <Japan Society of Civil Engineers>
- FY2012** Engineering Promotion Award (shield tunnels) <Engineering Advancement Association of Japan>
- FY2013** Outstanding Civil Engineering Achievement Award (NATM tunnels in urban area) <Japan Society of Civil Engineers>
- FY2014** Prime Minister Prize <Japan Industrial Grand Prix> (overall project) Individual Award (engineering works) <Engineering Advancement Association of Japan>

Applied construction technologies



TAISEI CORPORATION