TURKISH STATE RAILWAYS (TCDD)
Infrastructure Development & Regulations in Railway Sector
CONTENTS

Historical Development
State of Play
Key Projects
Vision 2023
The Law on Liberalization of Rail Transport in Turkey
YEAR 1856 The first railway construction between İzmir-Aydın

YEAR 1924 Nationalization of the Railways

YEAR 1927 General Administration of State Railways and Ports. (5,500 km)

YEAR 1950 Total length of railways reached to 9,204 km.

YEAR 1953 Became a State Economic Enterprise.

YEAR 1984 Became a Public Economic Institution.

YEAR 2003 Rail transport operations were opened to private sector.

YEAR 2004 Total length of railways increased to 10.991 km and 6 of our ports were included in the privatisation programme.

YEAR 2008 The first high speed line was completed.

YEAR 2009 \textbf{HIGH SPEED TRAIN OPERATIONS STARTED}

YEAR 2009 Total length of railways: 10.991 km

YEAR 2009 Rail transport operations were opened to private sector

YEAR 2013 10 million passengers were transported. «The Law on Liberalization of Rail Transport in Turkey» entered into force on 1st May 2013

YEAR 2013 Nationalisation of the Railways

YEAR 2013 The first high speed line were completed.

YEAR 2013 Total length of railways: 10.991 km

YEAR 2013 Rail transport operations were opened to private sector

YEAR 2013 Became a Public Economic Institution
HISTORICAL DEVELOPMENT OF RAILWAYS

- Rail Network before the REPUBLIC: 4,136 km Mainline
- The First Years of the REPUBLIC (1923-1950): 3,764 km Mainline (avg. 134 km per annum)
- From 1951 to 2002: 945 km Mainline (avg. 18 km per annum)
- From 2005 to end of 2012: 1,094 km Mainline (avg. 137 km per annum)
- Lines under construction: 3,400 km Mainline

2012: 12,008 km (Conventional+ High Speed)
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Conventional Lines
High Speed Lines

8 REGIONAL DIRECTORATES
İSTANBUL, ANKARA (2 Directorates), İZMİR, SİVAS, MALATYA, ADANA, AFYON

7 PORTS
H.PAŞA, DERİNCE, İZMİR, (MERSİN, İSKENDERUN, SAMSUN and BANDIRMA privatized.)

3 AFFILIATED COMPANIES
TÜLOMSAŞ, TÜVASAŞ, TÜDEMSAŞ

4 PARTICIPATIONS
EUROTEM, İZBAN, VADEMSAŞ, SİTAŞ

4 Participations have been established since 2003.

5 FACTORIES
ADF and RAIL WELDING, AFYON and SİVAS CONCRETE SLEEPER, ÇAMAF
While the appropriation allocated for railways were 488 million TL in 2003, it reached 7 billion 929 million TL in 2013 increasing by 16 times.
Istanbul-Basra, Istanbul-Kars-Tbilisi-Baku, Kavqaz-Samsun-Basra, Istanbul-Aleppo-Makkah, Istanbul-Aleppo-the North Africa/the South East Asia transportation corridors will be developed.
1. The Bosphorus Crossing (BC1)
   - Immersed tube tunnel (1.4 km),
   - Immersed tube depth is 60 m,
   - 12 km bored tunnels & cut-cover tunnels,
   - 4 new stations.

2. The Upgrading of the Commuter Rail (CR1/CR3)
   - New high standard triple track line (~ 65 km),
   - 37 new stations.

3. Procurement of new Rolling Stocks (CR2)
   - 440 new train sets.

Total length: Approx. 77 km
- At grade, European side 19.6 km
- At grade, Asian side 43.4 km
- Bored tunnels 12.2 km
- Immersed tube tunnel 1.4 km

Marmaray (Ayrılıkçeşme-Kazlıçeşme) was commissioned on 29th October 2013. The line and station renewal works are ongoing on Pendik-Söğütlüçeşme and Kazlıçeşme–Halkalı sections.
MARMARAY PROJECT

Inauguration: October 29, 2013
High Speed Trains (YHTs) are in operation between Ankara-Eskişehir since 13th March 2009.
High Speed Trains (YHTs) are in operation between Ankara-Konya since 24th August 2011.
High Speed Trains (YHTs) are in operation between Eskişehir-Konya since 23th March 2013.
High Speed Trains (YHTs) will be put into operation between Ankara-Istanbul in 2014.
High Speed Trains will be put into operation in Bursa-Bilecik, Ankara-İzmir and Ankara-Sivas by 2016.
CONVENTIONAL RAILWAY PROJECTS

- Constructed lines (153 km)
- Lines under construction (978 km)
- Lines at the phase of construction tender (298 km)
- Lines with final drawings produced (202 km)
- Lines with final drawings in progress (4.038 km)
7.261 km tracks were renewed during the last decade.

The total length of tracks to be renewed in 2013 is 1.098 km.
Operational signalled lines (3.128 km)
Lines under construction (2.493 km)
Lines at the phase of construction tender (583 km)
Lines with final drawings produced (67 km)
Lines with final drawings in progress (2.998 km)
National Railway Signaling System is developed by the cooperation of:
- TCDD
- TÜBİTAK (The Scientific and Technological research Council of Turkey)
- İTÜ (Istanbul Technical University)

The signaling project of Afyon-Denizli-Isparta line section (21 stations and 338 km length) will be achieved by TCDD, TÜBİTAK and İTÜ. This signaling system is aimed to become widespread in the country.
ELECTRIFIED RAILWAY NETWORK IS BECOMING WIDESPREAD

Operational electrified lines (Current 2,328 km)

Lines under construction (1,446 km)

Lines at the phase of construction tender (1,289 km)

Lines with final drawings produced (562 km)

Lines with final drawings in progress (2,486 km)
It is planned to construct 18 Logistics Centers. 5 logistics centers in Samsun, Uşak, Denizli (Kaklık), Köseköy and Halkalı were put into operation.

The construction works are going on in 6 logistics centers in Eskişehir, Balıkesir, Bozüyük, Mardin, Erzurum, Mersin (Yenice).

The final drawings and expropriation studies are going on for 7 logistics centers.
Samsun(Turkey)-Kavkaz (Russia) train ferry line through Black Sea, was officially put into service on 19th February 2013.
Total Length : 101 km
Kars - Georgia : 73 km
Turkey - Ahilkelek : 28 km
Construction in Georgia started on 21.11.2007
Construction in Turkey started on 24.7.2008 and will be completed in 2013.
PROCUREMENT of NEW FERRIES

To be operated between Tatvan – Van;
2 Ferries with a capacity of 50 wagons along with repairing of landing piers and construction of warehouse for ferries
The ferries is being manufactured.
Planned to be ready for operation at the end of 2014.
There is a 75-billion USD transport potential between Europe and Asia. Istanbul-Kars-Tbilisi-Baku, Nusaybin-Iraq, Kars-Nakhchivan-Iran, Kavkaz-Samsun-Basra, Istanbul-Aleppo-Makkah & Istanbul-Aleppo-North Africa transport corridors are being developed.

After the completion of the railway projects in Turkey, the Silk Road will gain more importance and Europe, Asia, esp. the Middle East, and the Central and Far East Asia will be interconnected by rail.
Railway Research and Technology Center, which aims to become bridge between local industry and universities and implement new technologies is established within TCDD.
**VISION 2023 HIGH SPEED LINES**

- **Constructed HSLs (Ankara-Eskişehir, Ankara-Konya - 888 km)**
- **HSLs under construction (1.748 km)**
- **HSLs at the stage of construction tender (454 km)**
- **HSLs with final drawings produced (4.728 km)**
- **HSLs with final drawings in progress (2.212 km)**
VISION 2023 CONVENTIONAL LINES

- Constructed conventional lines (153 km)
- Conventional lines under construction (978 km)
- Conventional Lines at the stage of construction tender (298 km)
- Conventional Lines with final drawings produced (202 km)
- Conventional Lines with final drawings in progress (4.038 km)
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DECREE LAW No:655 (in 2011)

- Directorate General for Regulation of Railways
  - Regulatory Body
  - Safety Authority
  - Contract Manager for PSO
- Accident Search & Investigation Board
- DG for Infrastructure Investments
- DG for Regulation of Dangerous Goods and Combined Transport
The Law No: 6461 on Liberalization of Rail Transport in Turkey was entered into force on 1 May 2013.

**Main Objectives:**
- Restructuring of TCDD as Infrastructure Manager
- Establishment of New Railway Undertaking (TCDD Transport JSC)
- Opening up of the railway sector for competition
- Arrangement of Public Service Obligations
- Enabling the private sector to invest in rail infrastructure

**Further Needs:**
- Capacity Improvement for Regulatory Bodies
- Elaboration of necessary secondary legislation by Regulatory Bodies
FUTURE RAILWAY SECTOR IN TURKEY

MINISTRY OF TRANSPORT, MARITIME AFFAIRS AND COMMUNICATIONS

Regulatory Body
DG for REGULATION OF RAILWAYS
(Safety, Licence & Competition Authority)

Independent Examination & Advisory Unit
ACCIDENT SEARCH & INVESTIGATION BOARD
(for all transport modes)

Infrastructure Service Provider:
Turkish State Railways (TCDD)
Owner: State

Infrastructure Users:
TCDD Transport JSC
Owner: TCDD

Infrastructure Users:
RAILWAY UNDERTAKINGS
Owner: Private Sector

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Thank You For Your Kind Attention

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