MAJOR RAILWAY PROJECTS FUNDED UNDER CEF 2014-2020

CEF CALLS 2016

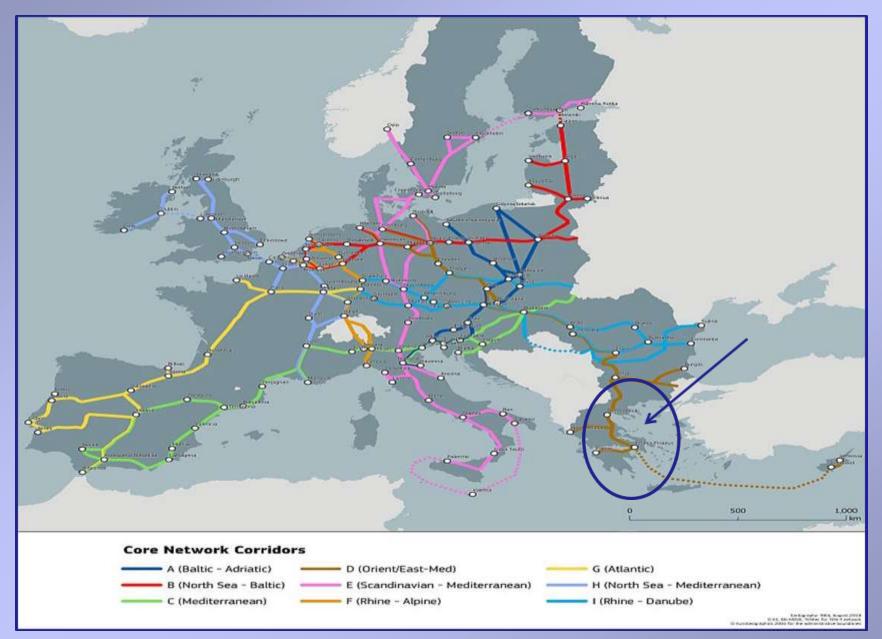
INFO DAY Athens, 2 December 2016







GREEK PART OF OEM CORRIDOR



PLANNING TARGET FOR PATHE/P CORRIDOR

Create a high-speed rail corridor of Increased Capacity equipped with modern signalling, telecommanding, telecommunication and electrification systems fulfilling the interoperability requirements of the European railways.



- Backbone of the Greek railway network
- Interconnects the big urban centres of the country and areas with significant growth in the primary and secondary sectors
- Links to the major freight centres, main ports and Trans-European corridors.

Part of OEM corridor



ATHENS (SKA) - THESSALONIKI (500 km)

DOMOKOS

LIANOKLADI

TITHOREA

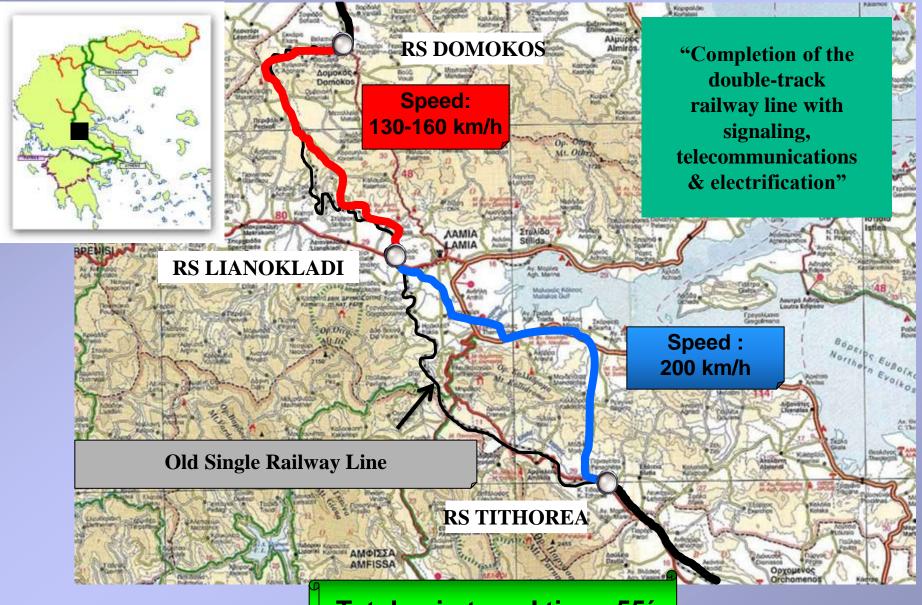
SKA

ATHENS

THESSALONIKI

Under construction New double-track high-speed railway line equipped with signaling, telecommunications & electrification Completed double-track railway line with signaling, telecommunications & electrification

TITHOREA – DOMOKOS (106 Km)



Total gain travel time: 55'

MAIN PHYSICAL OBJECT OF INFRASTRUCTURE WORKS

- Kallidromo twin tunnel each branch 9.0 km long
- Othris twin tunnel each branch 6.4 km long
- I2 smaller tunnels, total length 4.5 km
- 24 Cut & Cover tunnels, total length 4.1 km
- 49 railway bridges, total length 6 km
- 32 grade-separated road crossings, total length 2.7 km
- Embankments & Cuts 76.0 km long

PROJECT's PHASES

The majority of the infrastructure works was implemented through several contracts which are completed.

Funding: Structural funds of previous P.P.

Funding: CEF 2014-2020

1ST PROJECT:

CONSTRUCTION OF THE NEW HIGH SPEED DOUBLE TRACK RAILWAY LINE TITHOREA – LIANOKLADI – DOMOKOS

ACTION No 2014-EL-TMC-0651-W

GRANT AGREEMENT No INEA /CEF /TRAN /M2014 /1028609

BUDGET: 430,3 M€

START OF THE ACTION: 1-1-2014

END OF THE ACTION: 30-6-2018

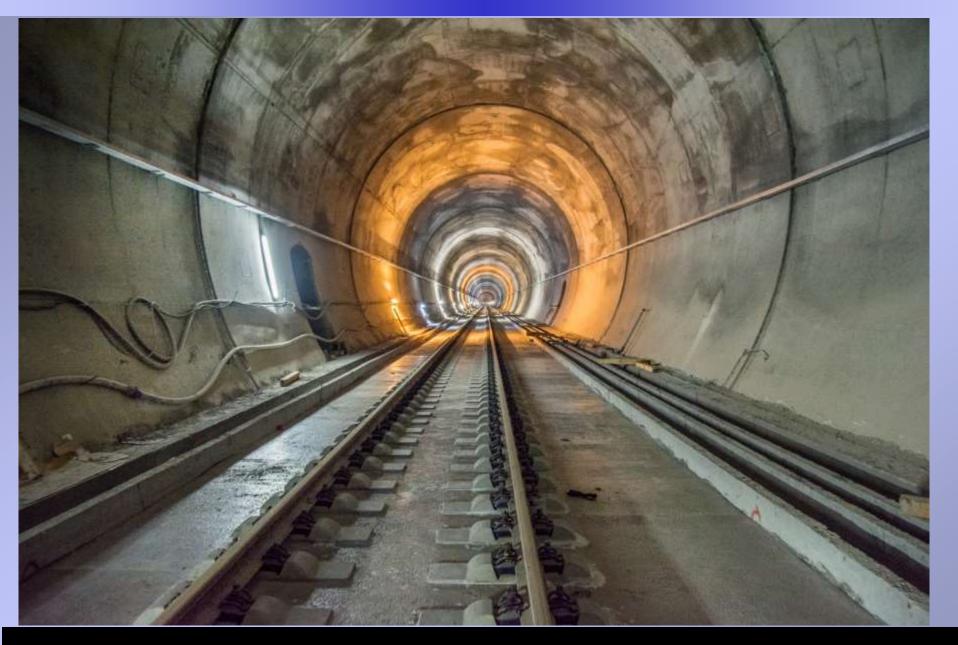
MAIN PHYSICAL OBJECT

- completion of the remaining infrastructure works
- construction of superstructure works
- signalling-telecommanding, electrification and telecommunication works
- completion of the stations railway infrastructure at the Tithorea, Molos, Lianokladi and Domokos stations
- construction of 2 traction substations at Anthili and Perivoli and 3 electromechanical (E/M) buildings
- E/M works for 5 Railway Stations (Tithorea RS, Molos RS, Lianokladi RS, Agios Stefanos RS, Domokos RS and 2 Railway Stops Aggies and Thavmakos Railway Stops
- accompanying works for the completion of the project (land acquisition, planting works, bridges monitoring, etc)

ECONOMIC PROGRESS OF WORKS

≻ Total payments (up to 31-10-2016) are 171,8 M€

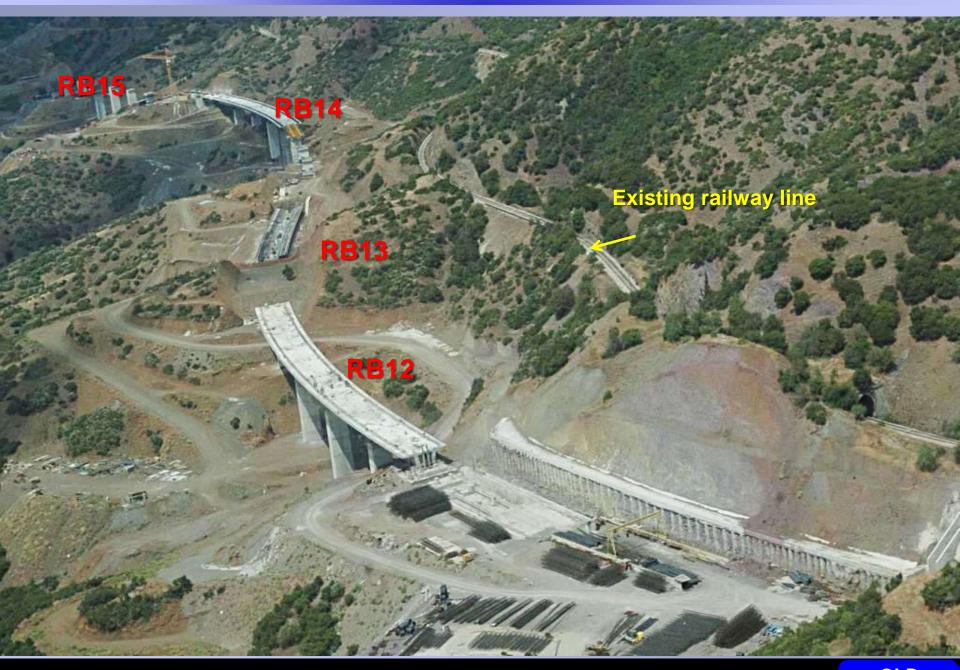
> while the percentage rises to 40% of the total budget



SLAB TRACK IN KALLIDROMO TUNNEL – each tube 9 km long



OTHRYS TUNNEL – each tube 6,4 km long



RAILWAY BRIDGES OF LIANOKLADI-DOMOKOS SECTION

OLD PHOTO



RAILWAY BRIDGE OVER NATIONAL HIGHWAY (500m LONG)



RAILWAY BRIDGE 16 (657m LONG)



RAILWAY BRIDGE 26 (409 m LONG)



ATHENS (SKA) – PATRAS (216 km)

New high-speed railway line equipped with signaling, telecommunications & electrification



Reduction of travel time to 2h from 3h 25' (before the works)

2nd PROJECT

CONSTRUCTION OF RAILWAY INSFRASTRUCTURE IN SECTION RODODAFNI (KM 91,5) -PSATHOPYRGOS (KM 113) OF THE NEW RAILWAY LINE ATHENS – PATRAS, PART OF ORIENT/EAST MED CORRIDOR

ACTION No 2014-EL-TMC-0268-W GRANT AGREEMENT No INEA /CEF /TRAN /M2014 /1028679 BUDGET: 290,6 M€ START OF THE ACTION: 1/1/2014 END OF THE ACTION: 30/9/2018

MAIN PHYSICAL OBJECT

The Action comprises the construction of the infrastructure for the new double-track railway line in the section from Rododafni (km 91+500) to Psathopirgos (km 113+000).

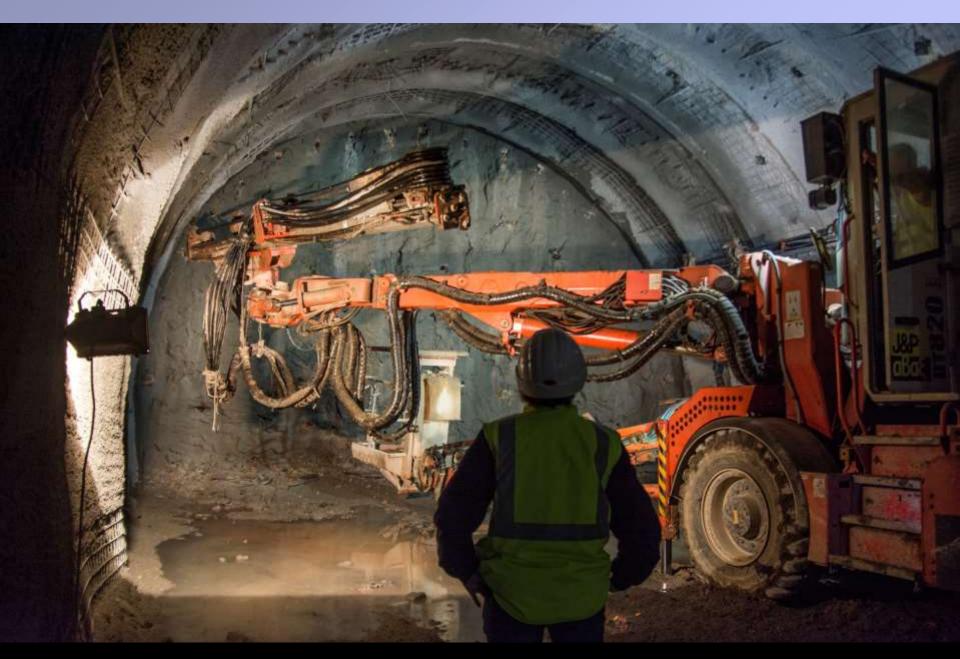
This includes:

- Twin-tube Panagopoula tunnel (4.3 km long), including cut &covers at the entrance and the exit of the tunnel
- Earthworks (embankments and excavations) at the open sections of the railway line
- Engineering structures (railway/road bridges, railway/road overpasses & underpasses)
- Hydraulic works required for the protection of the line
- Restoration of the local side road network
- Necessary expropriations; relocations of public utility networks and archaeological works



PANAGOPOULA TUNNEL - 4,5 km each tube

PANAGOPOULA TUNNEL



ECONOMIC PROGRESS OF WORKS

≻ Total payments (up to 31-10-2016) are 135,2 M€

> while the percentage rises to 46% of the total budget

3nd PROJECT

CONSTRUCTION OF RAILWAY INSFRASTRUCTURE IN SECTION PSATHOPYRGOS –PATRAS (BOZAITIKA) OF AXIS ATHENS – PATRAS PART OF ORIENT/EAST MED CORRIDOR

ACTION No 2015-EL-TM-0253-W GRANT AGREEMENT No INEA /CEF /TRAN /M2015 /1129876 BUDGET: 112,0 M€ START OF THE ACTION: 16/2/2016 END OF THE ACTION: 31/12/2020

MAIN PHYSICAL OBJECT

The Action comprises the construction of the infrastructure for the new double-track railway line from Psathopyrgos (km 113+000) to Patras Bozaitika (km 123+500).

This includes:

- Construction of Cover & Cuts in Agios Vasilios and Rio
- Earthworks (embankments and excavations) at the open sections of the railway line
- Engineering structures (railway/road bridges, railway/road overpasses & underpasses and retaining walls)
- Hydraulic works required for the protection of the line
- Restoration of the local road network directly related to the construction of the railway line
- Necessary expropriations; relocations of public utility networks and archaeological works

Thank you for your attention

