

ANKARA – IZMIR HIGH SPEED RAIL LINE



ERG İNŞAAT TİCARET VE SANAYİ A.Ş.



ERG INTERNATIONAL UK LTD



SSB AG

Member of ERG International Group

*Seizing new opportunities in the
Railways sector with ERG*

Purpose of Webinar

- Introduce the Ankara-Izmir High Speed Rail Project
- Project funding structure
- Outline broad project requirements
- Identify opportunities for support from Italian companies
- Potential for meetings at Expo Ferroviaria

Project Background

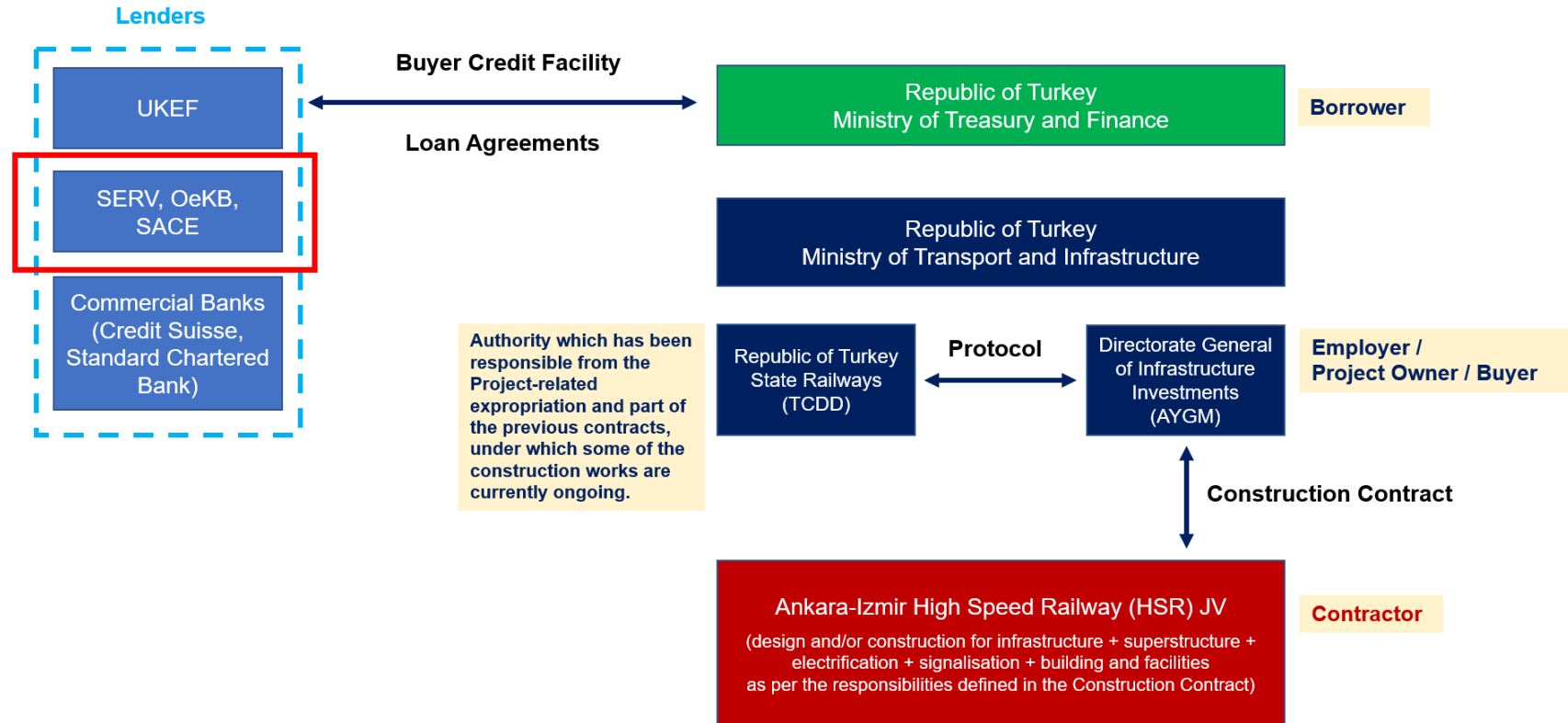


- 550km+ high speed rail line from Ankara to Izmir
- Joint venture between:
 - ERG Insaat (Turkey)
 - ERG International (UK)
 - SSB AG (Switzerland)
- Awarded tender on 6th October 2020
- Currently approaching Financial Close (Q4 2021)
- Structured in EPC-F form using Export Credit Agency support from UK, Italian, Swiss and Austrian credit agencies.

Project Statistics

Project Key Figures	Quantity
Total Length of the Railway (double track)	584 km
Design Speed	250 km/hr
Number of Stations	7
Number of Engineering Structures	119
Total Length of Tunnels	60,458 m
Total Length of Viaducts	26,336 m
Total number of switches and crossing	261
Total number of substations	10

Contract Funding Information I



Contract Funding Information II

Description	Details
Budget	€2.162 billion
Contract Type	Engineering, Procurement, Construction + Finance
Borrower	Turkish Republic Ministry of Treasury and Finance
Financing Plan	Buyer Credit facilities from UKEF-SERV-SACE-OeKB
Executing Agency	General Directorate of Infrastructure, Turkish Republic Ministry of Transportation and Infrastructure
Contact Period	42 Months (after financial closure)
Contractor	Ankara İzmir YHT Yapımı İşi Ortaklığı (JV – ERG İnşaat, ERGIUK, and SSB AG)

High Level Project Works & Milestones

- Financial close within Q4 2021
- Construction period 30/42 months (2 sections with different completion dates)
- Infrastructure works to begin immediately after financial close
- Superstructure, Electrification and Signalling design works will also start immediately, with installation of these works on site beginning in Q4 2022

A high-speed train is crossing a large, modern concrete viaduct. The viaduct consists of several tall, rectangular concrete pillars supporting a long, flat concrete deck. The train is white with red and blue accents. The background shows a green landscape with trees and a small building. The sky is clear and blue.

Infrastructure scope

- Completion of the construction of earthworks, bridges, viaducts, tunnels. Work commences immediately.
- Opportunities for export of materials for:
 - Steel products (rebar, sections, cable & wire)
 - Bolts for use in tunnels
 - Waterproofing systems
 - Bridge & viaduct expansion joints
 - Bridge bearings
- Examples of other items required but unlikely to be exported:
 - Concrete, Asphalt, Wire Mesh, Aggregate



Superstructure scope

- Site need date from Q4 2022
- Opportunities for export of materials for:
 - Mats and pads (sub-ballast mat, under-sleeper pads, mass-spring system)
 - Rail (60E2)
 - Fasteners (sleeper and slabtrack)
 - Sleepers
 - Slabtrack
 - Turnouts, Point Machines and Detectors
 - Installation machinery (with lead times <12 months)





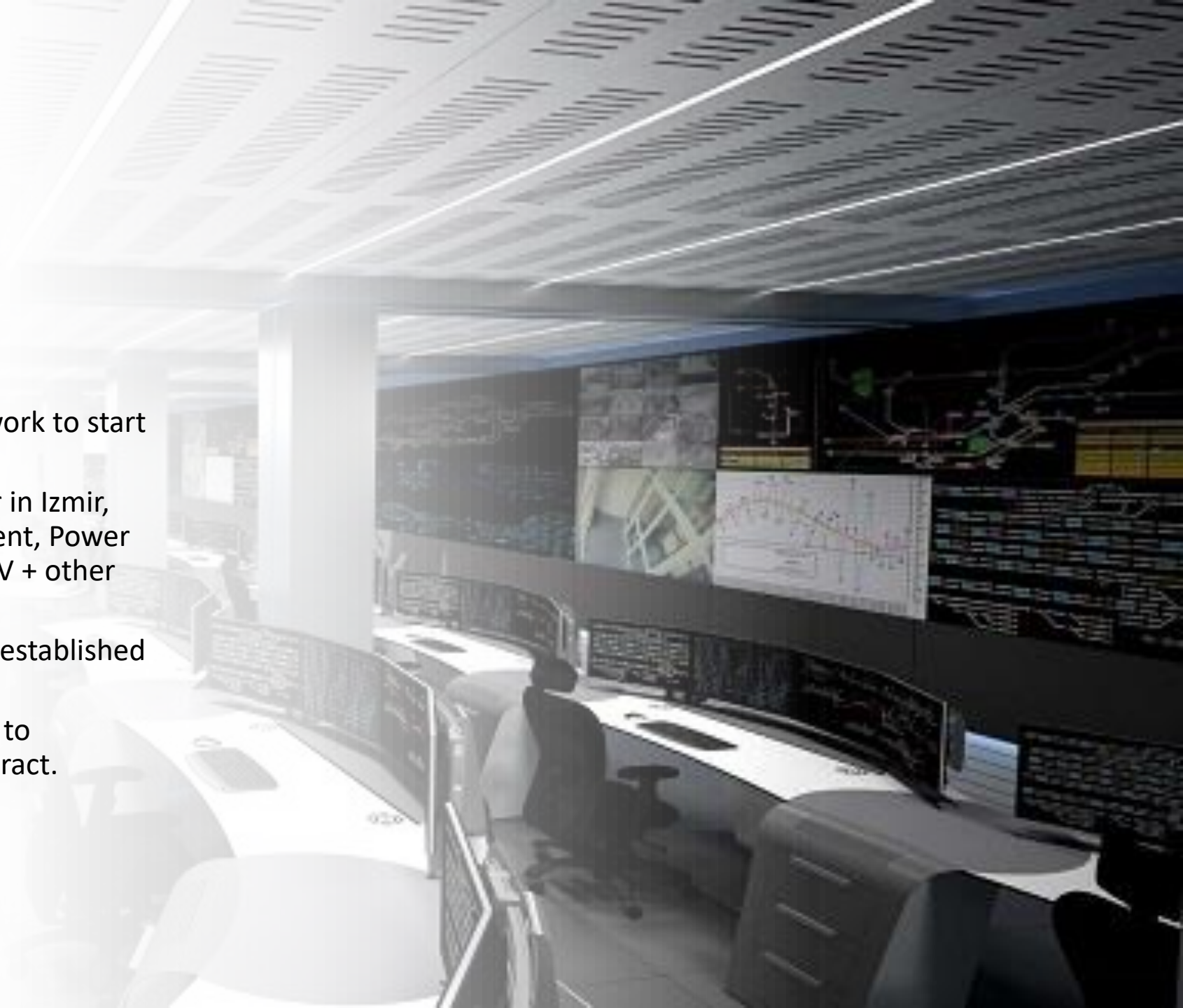
Electrification scope

- Site need date from Q1 2023. Design work to start Q1 2022.
- Opportunities for export of materials for:
 - Overhead catenary system components and design services
 - Equipment for substations (traction power)
 - Tunnel E&M equipment
 - Installation machinery (with lead times <12 months)





Signalling scope

- Site need date from Q1 2023. Design work to start Q1 2022.
 - Scope: ETCS Level 1 + 2, Control Center in Izmir, Interlocking System, Trackside Equipment, Power and Fiber Cables, GSM-R network, CCTV + other comms systems etc.
 - Turn-key contract to be awarded to an established rail signalling contractor.
 - Opportunity for export of components to supplement/support this turn-key contract.
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