

Progress of Rapid service preparation

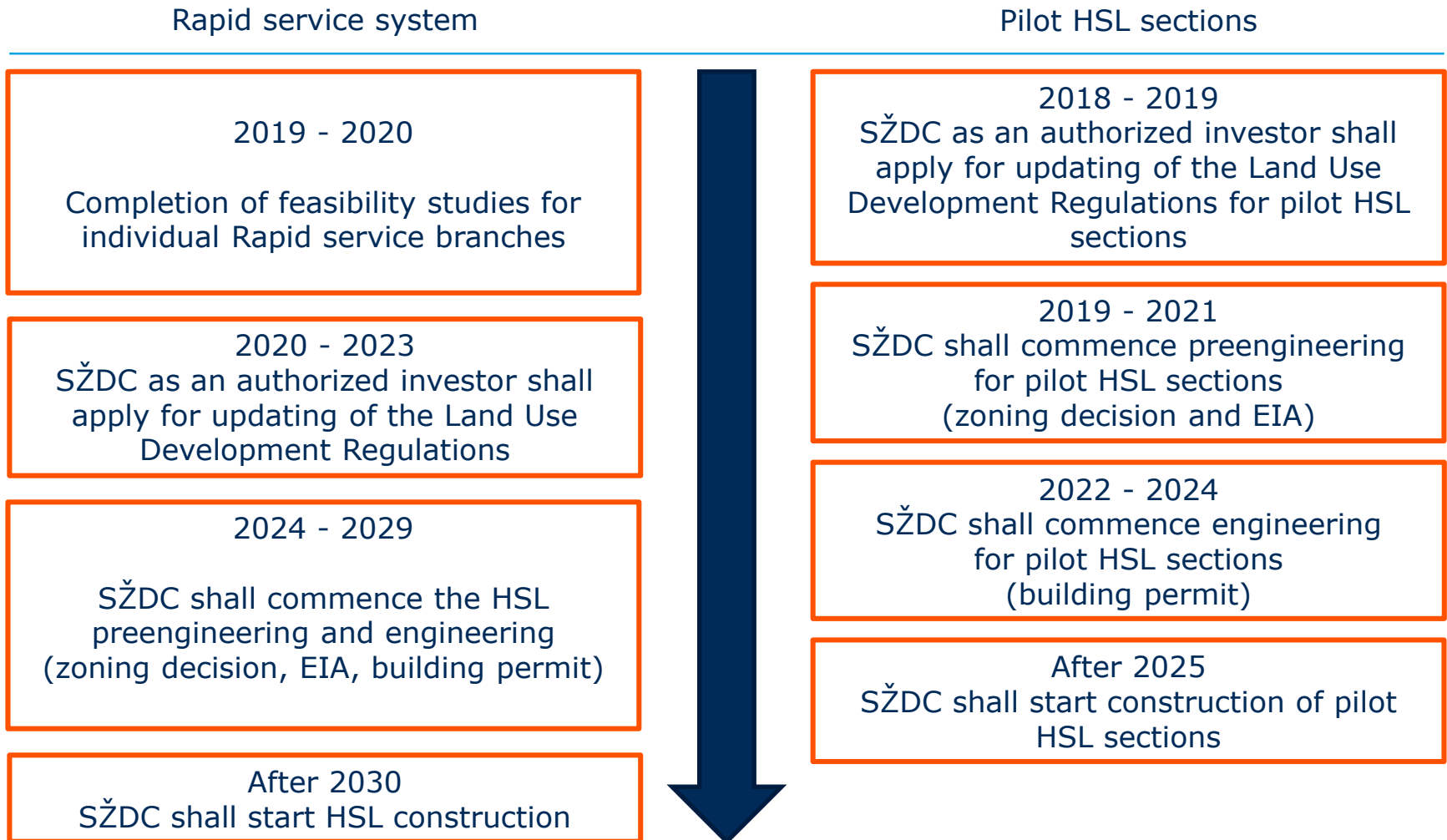
Mgr. Ing. Radek Čech, Ph.D.

Strategy Department Director

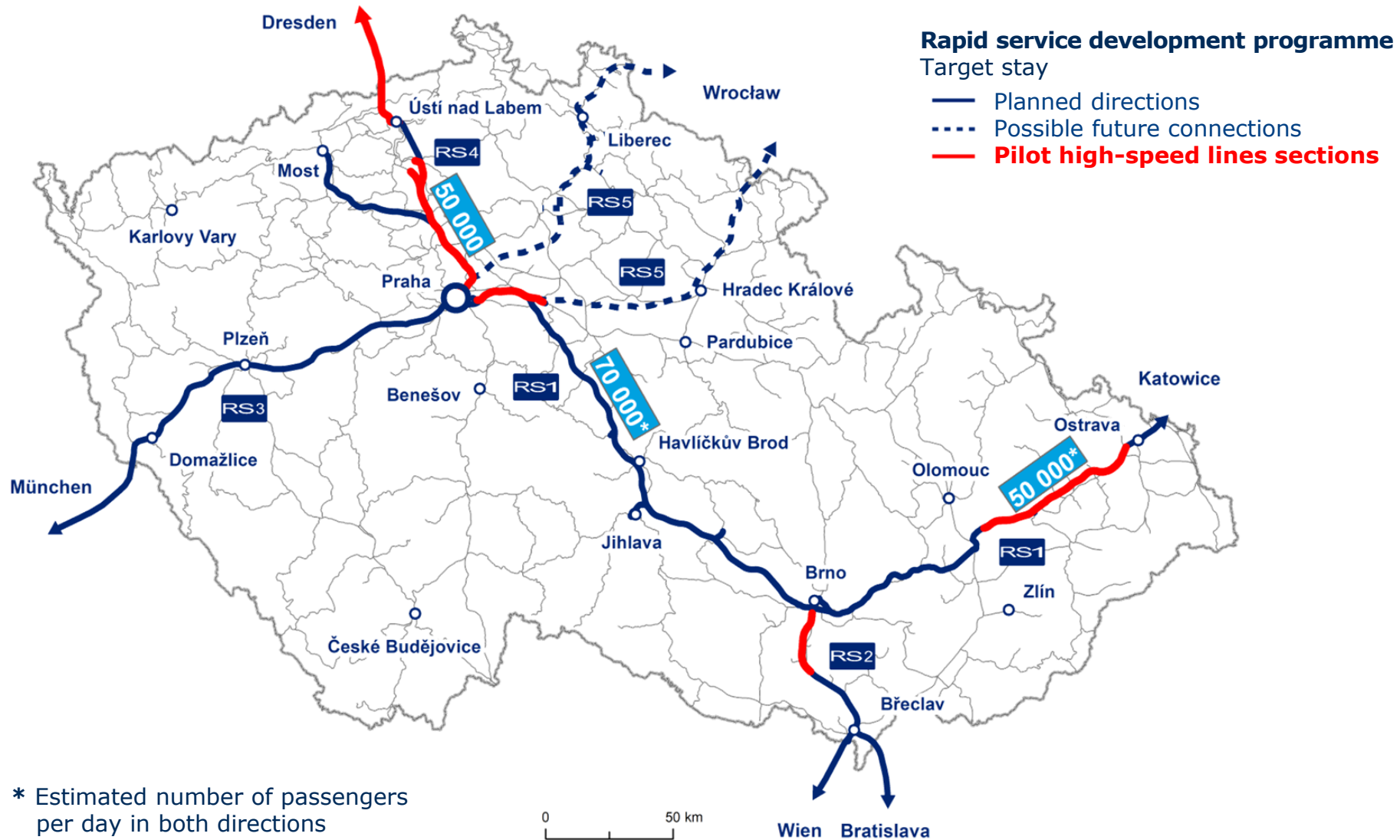
Railway Infrastructure Administration, state organization

Brno, 25 April 2019

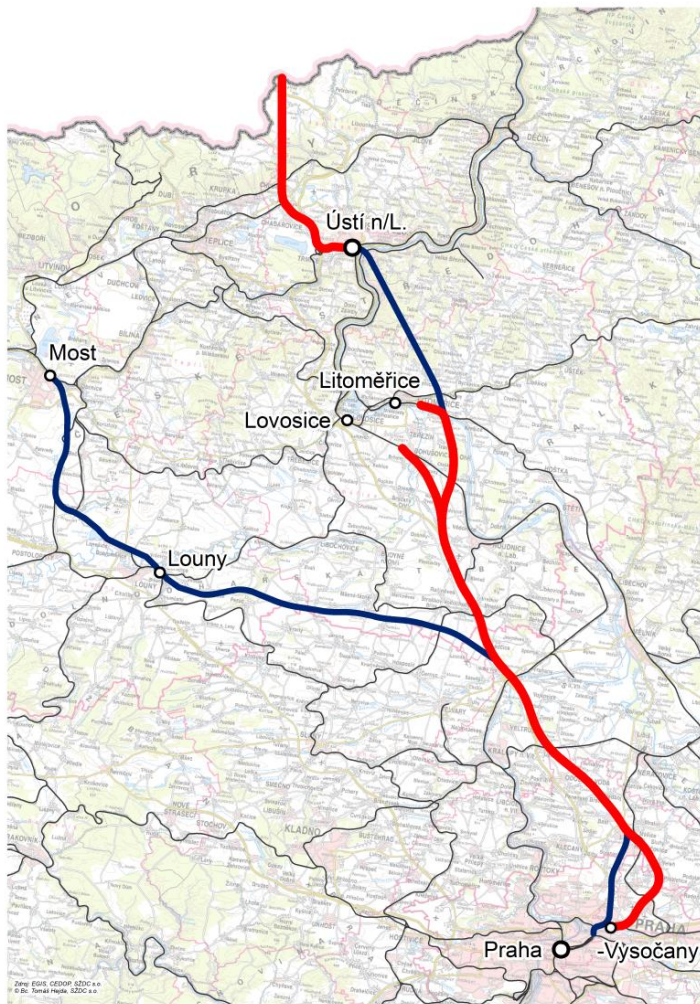
Implementation of Rapid services development programme



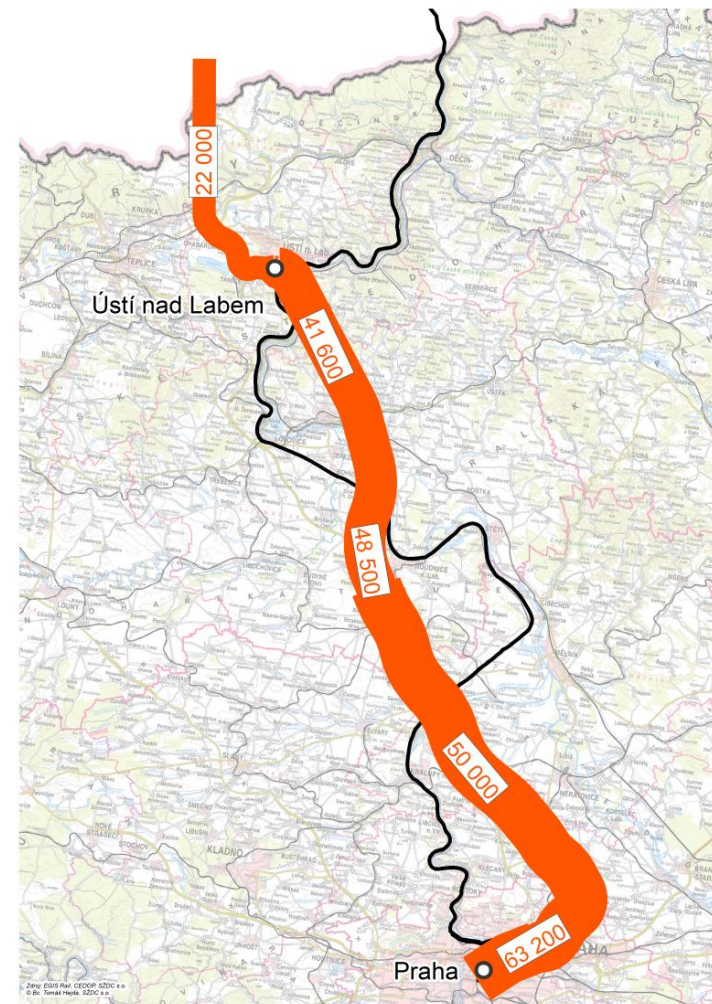
Pilot high-speed lines sections



New Dresden - Prague railway line

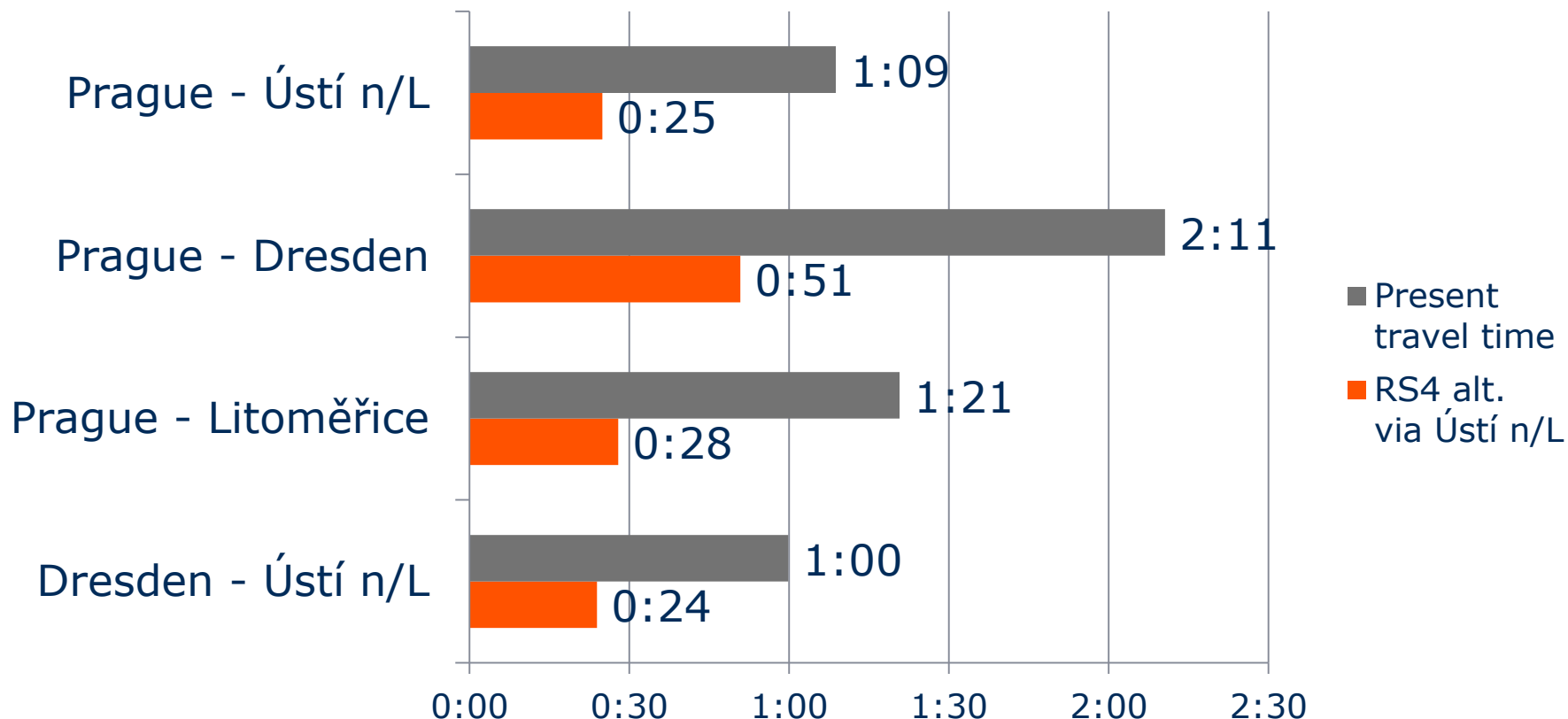


— Pilot HSL sections of RS4 (red)



— Estimated numbers of passengers (2050)

New Dresden - Prague railway line



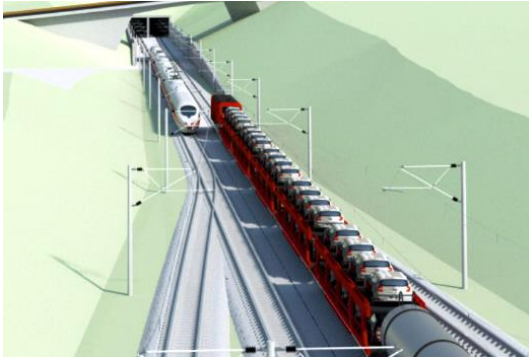
Internal rate of return **IRR = 8,30 %**

Estimated investment costs = CZK 132 bil. (excluding branch to Most)

Feasibility study partial submission data

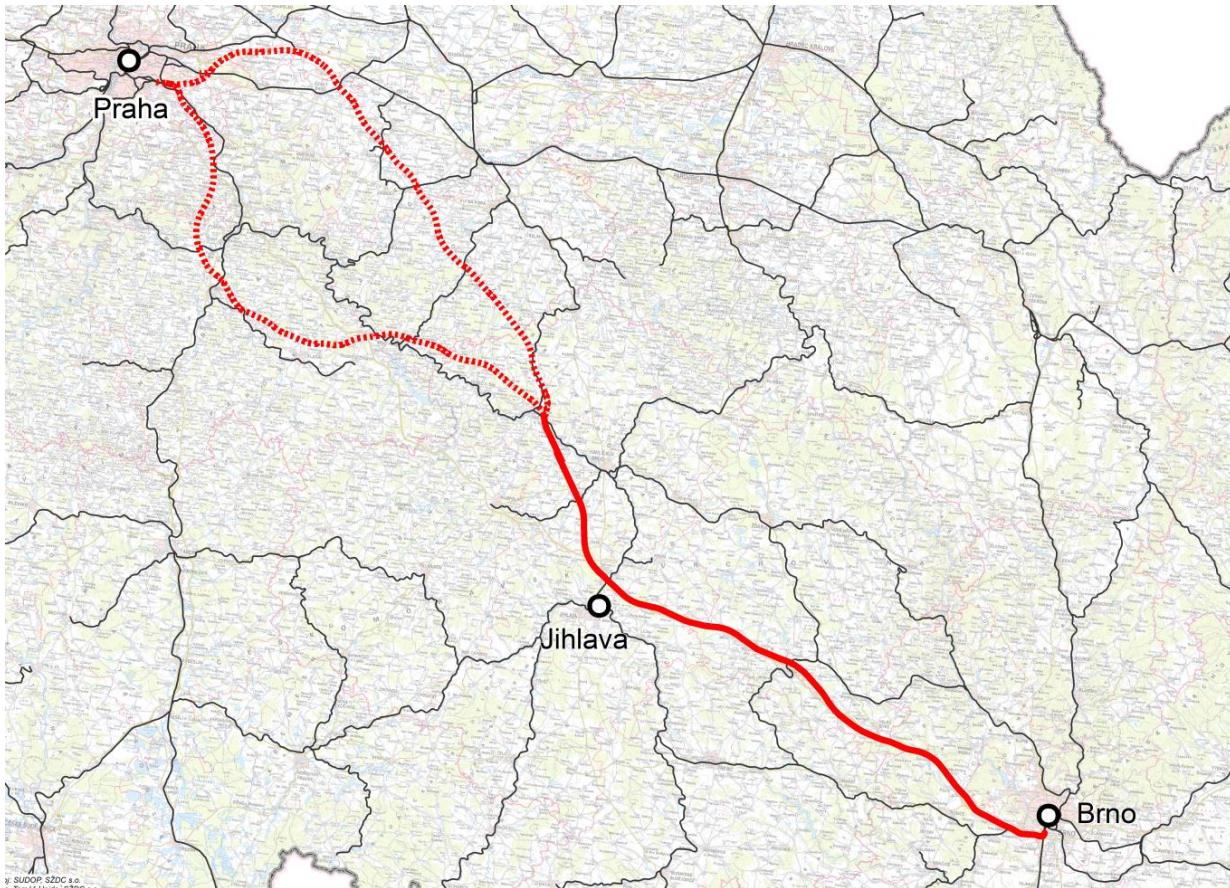
„Studie proveditelnosti nového železničního spojení Praha – Drážďany“ (CEDOP + Egis Rail; 2019)

International preparation of the New Dresden - Prague railway line

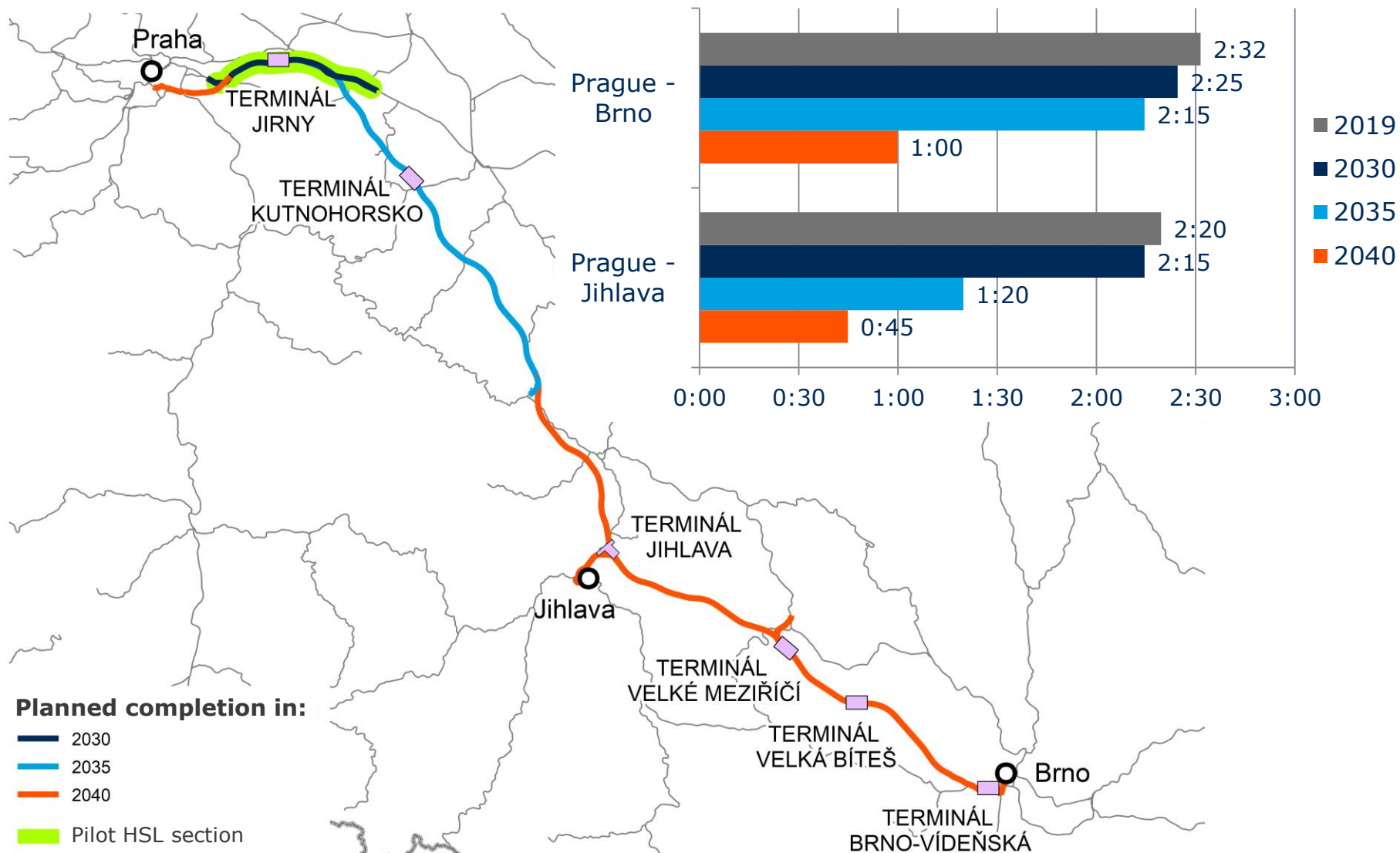


- Preparation of international presidential agreement on construction and operation of cross-border railway connection.
- Joint project team of SŽDC and DB Netz AG experts.
- Preparation of contract with DB Netz AG for financing of the cross-border tunnel pre engineering.
- Czech-Saxon project for geological survey of the Ore Mountains (Krušné hory/Erzgebirge) and České středohoří Mountains (Böhmisches Mittelgebirge).
- European grouping of territorial cooperation: New Dresden – Prague Railway Line.

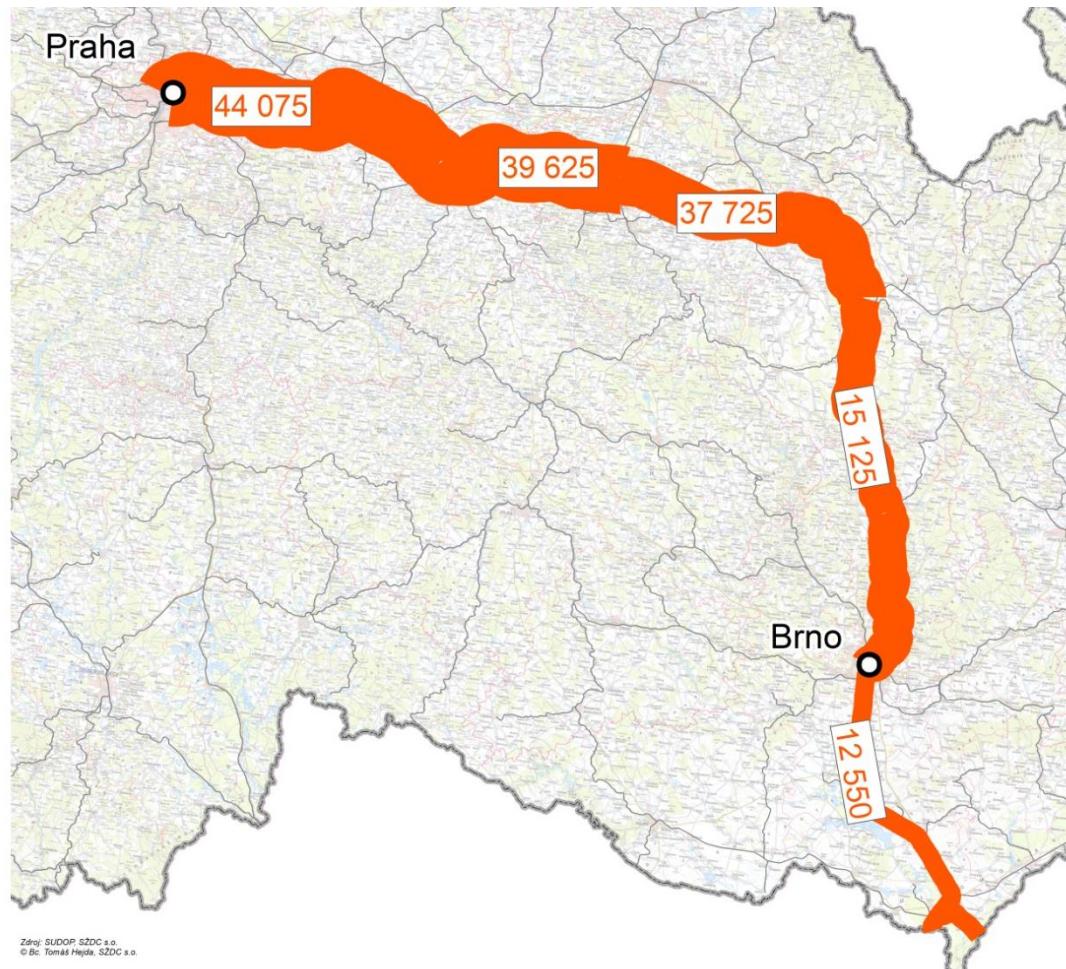
High-speed line Prague – Brno



High-speed line Prague – Brno



High-speed line Prague – Brno



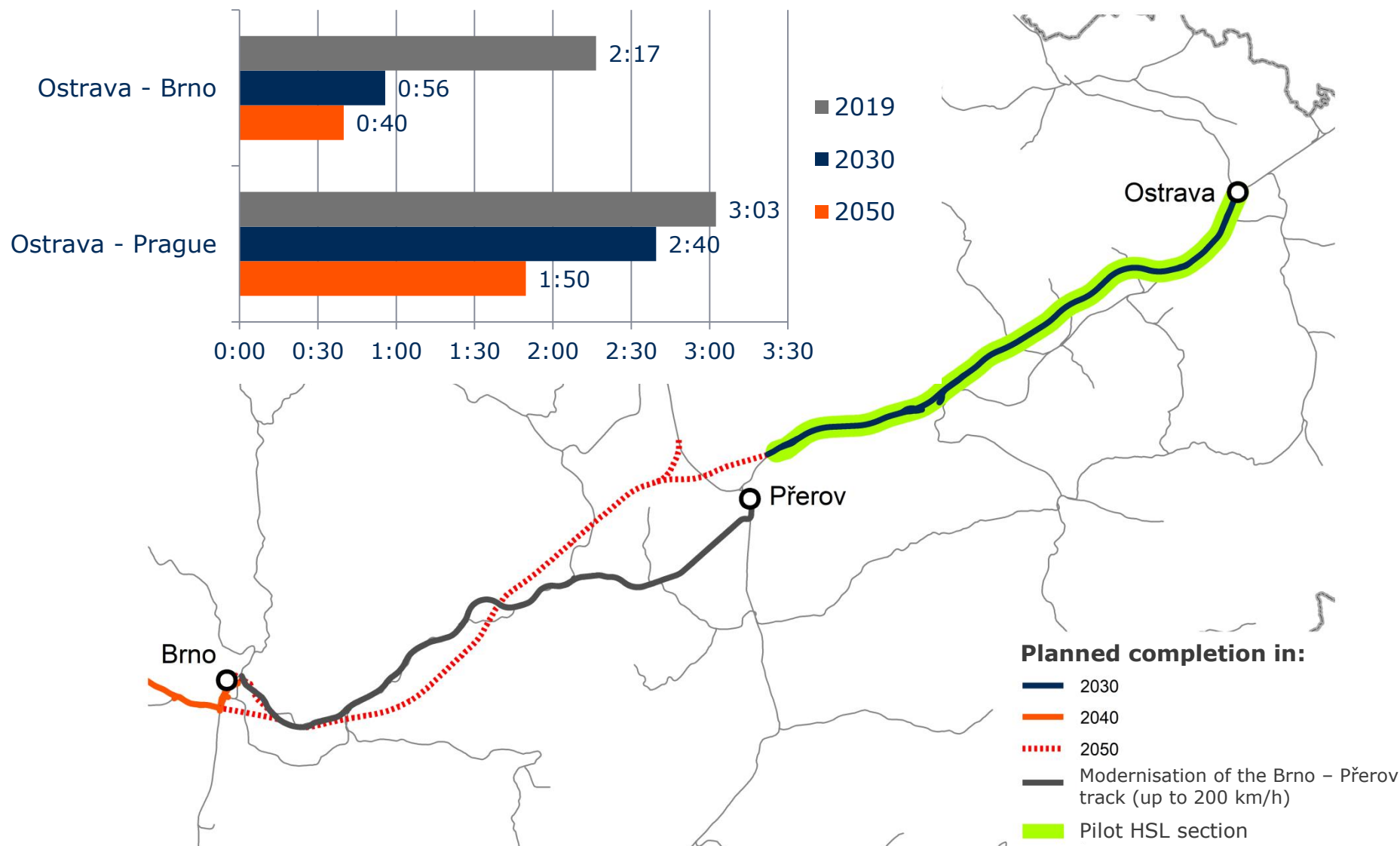
Existing long-distance passenger traffic (based on traffic survey)

Feasibility study partial submission data

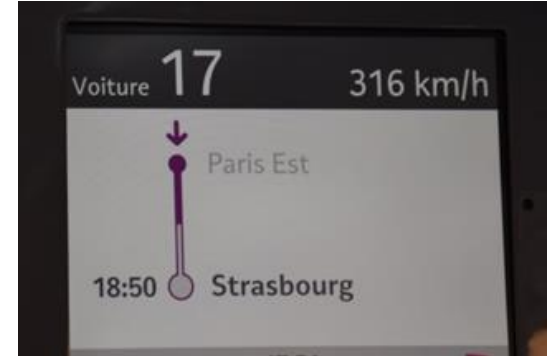
„Studie proveditelnosti vysokorychlostní trati Praha – Brno – Břeclav“ (SUDOP PRAHA a.s.; 2019)



Rapid service line Brno – Ostrava



SŽDC and SNCF cooperation



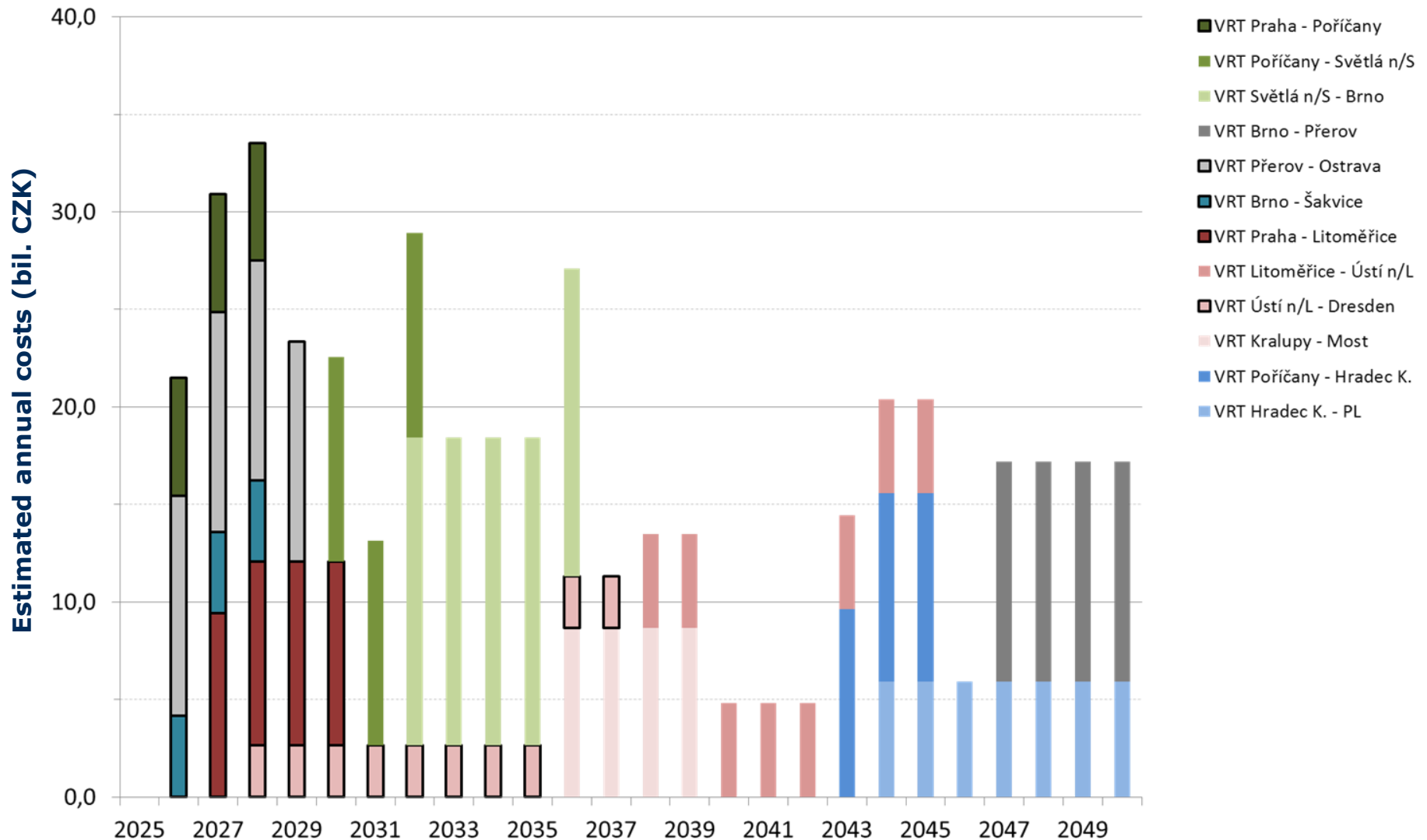
- Use of French 40-years know-how for the design, construction and operation of high-speed lines in the Czech Republic.
- The Agreement for the Provision of Services was signed by SŽDC and SNCF representatives on 12th April, 2019.
- Establishment of a joint SNCF and SŽDC expert team.
- Production of the SŽDC Design Manual suitable for preliminary design of HSLs.
- Consultations with SNCF experts on technical solutions and ongoing HSL projects preparation.

Link between high-speed and conventional networks

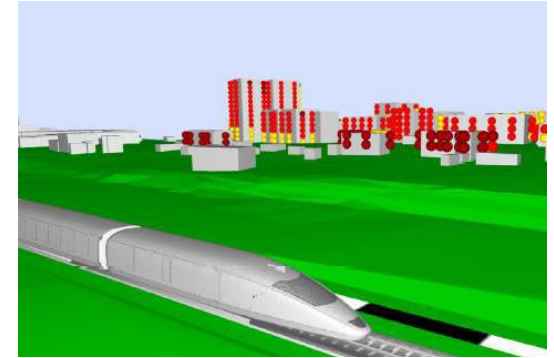
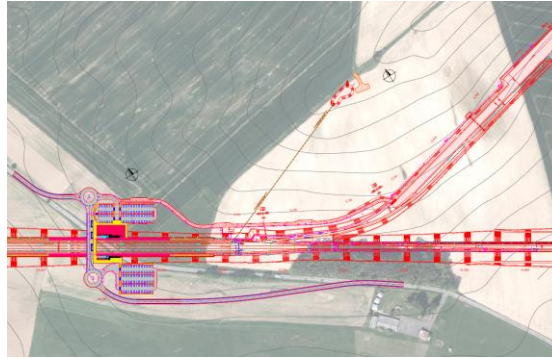


- Rapid Services system includes new high-speed lines as well as modernized conventional lines including an expected rolling stock and an operational concept.
- HSLs construction will bring a partial release of capacity to the existing rail network for regional and freight transport.
- In order to ensure operability, emphasis will be placed on cyclical maintenance.
- It will be necessary to ensure systematic financing for major maintenance actions and to resolve legislative basis of the maintenance of tracks with operation speeds over 200 km/h.
- Use of SNCF and DB Netz AG HSL operation and maintenance experience.

Investment cash flow of high-speed lines construction



Further procedure of SŽDC for pilot HSL sections preparation



- SŽDC shall commence geodetic surveying of pilot HSL sections.
- SŽDC shall commence pre engineering for pilot HSL sections – preliminary design for zoning decision according to Decree No.466/2001.
- SŽDC will also start the Environmental impact assessment process (EIA) before completing the preliminary design for zoning decision.

Thank you for your attention.

Progress of Rapid service preparation

Mgr. Ing. Radek Čech, Ph.D.
Strategy Department Director

cech@szdc.cz