



*Vysokorychlostní trať spojuje*

# High-speed railway lines in the Czech Republic

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High-speed Lines Construction Management  
Správa železnic, state organisation

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# Central Europe



## Via Vindobona

HSR Berlin – Prague – Vienna  
in ca 4 hours  
In cooperation with DB and ÖBB

## V4 Countries

HSR connecting Czechia, Poland,  
Slovakia and Hungary

## Rail Baltica + Poland and Czechia

HSR connecting Baltic states with Central Europe  
In cooperation with CPK and Rail Baltica

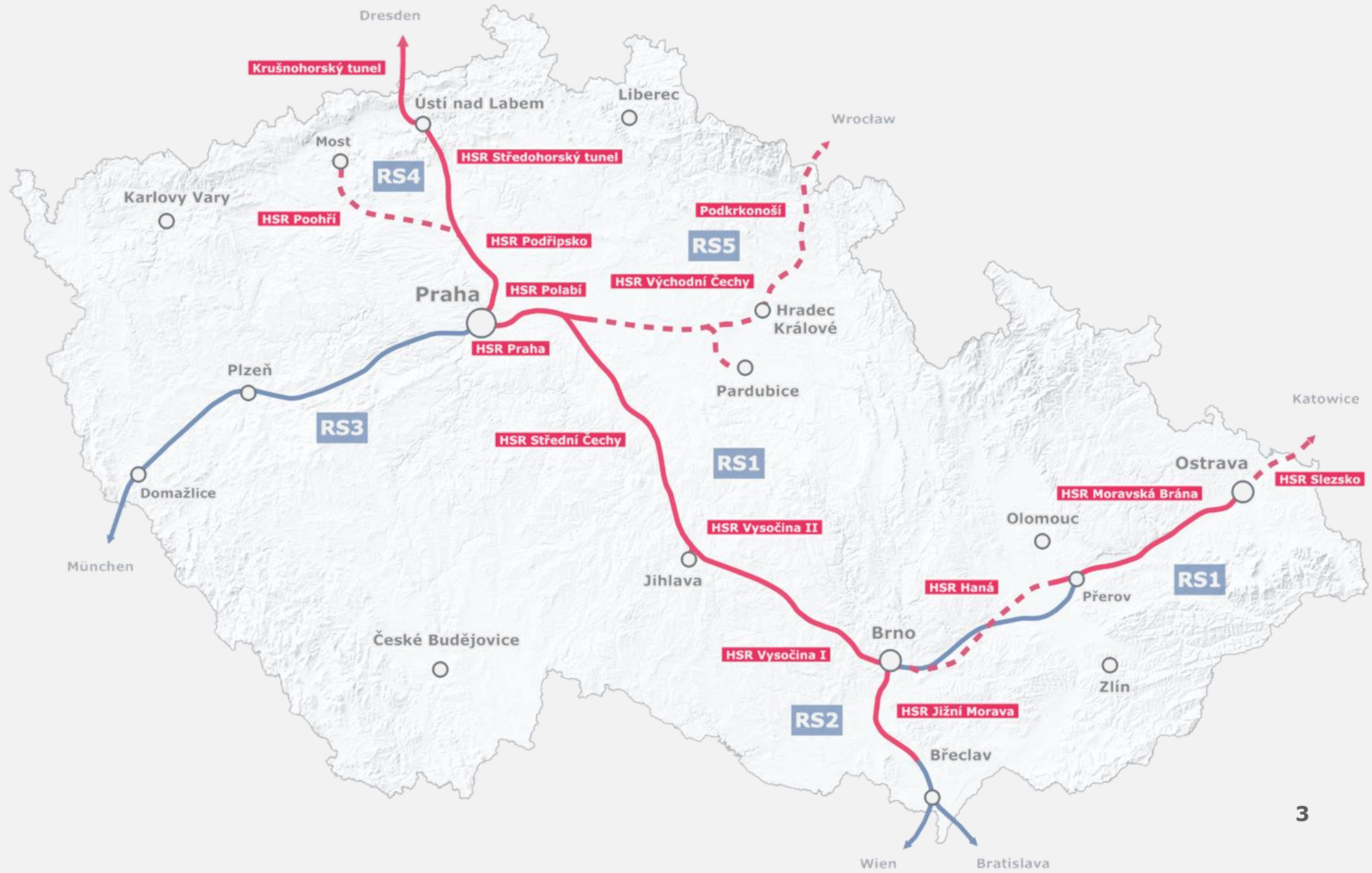


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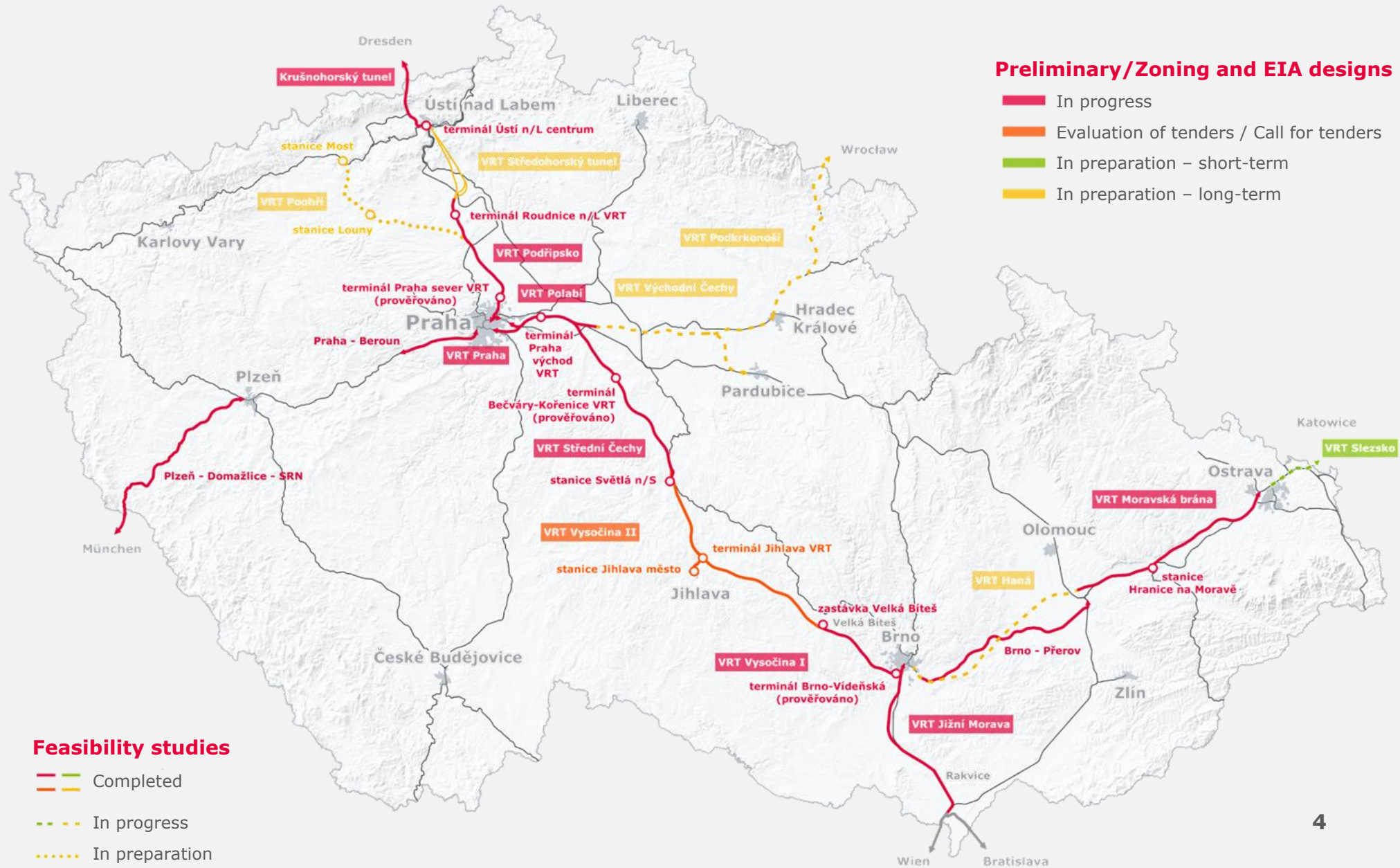


BRATISLAVA

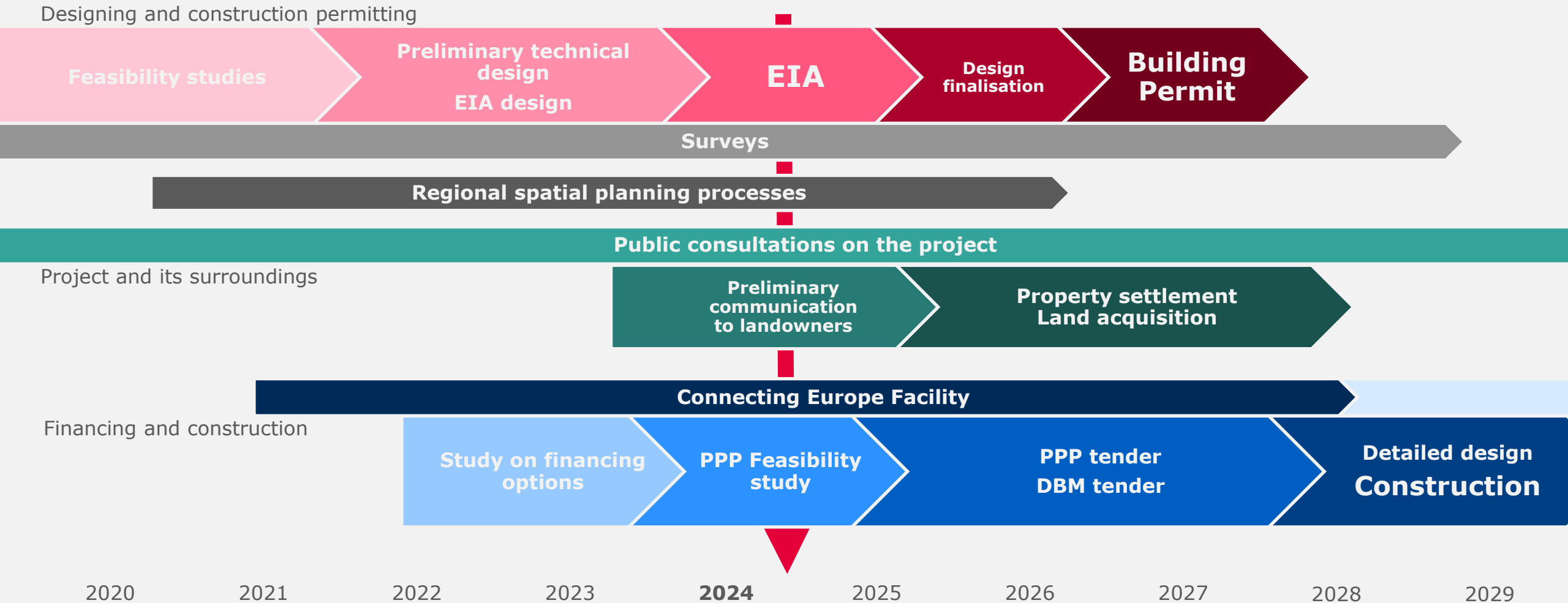
# Planned Czech high-speed railway network



# Current state of preparation



# Schedule for the first high-speed lines sections





Roudnice nad Labem VRT





Praha východ VRT (Prague East HSL)





Praha východ VRT (Prague East HSL)



Jihlava VRT - Architectural competition winner

**TSI compatible (EU)**  
SNCF Group know-how (LGV)  
Passenger transport only  
Operating speed 320 km/h  
Design speed 350 km/h  
Radius of curves more than 7 km  
Slopes up to 35 ‰

**Out-of-level crossings**

**Access for greenery maintenance**

**Maintenance pedestrian access**

**Power supply system**  
2x 25 kV, 50 Hz

**Road access**

**ERTMS**  
- ETCS L2 b13  
- GSM-R / FRMCS

**Fencing**

**Drainage elements**

**Rails**  
**Sleepers**  
**Ballast bed**  
**Asphalt concrete**  
**Gravel bed**  
**Structural layers**

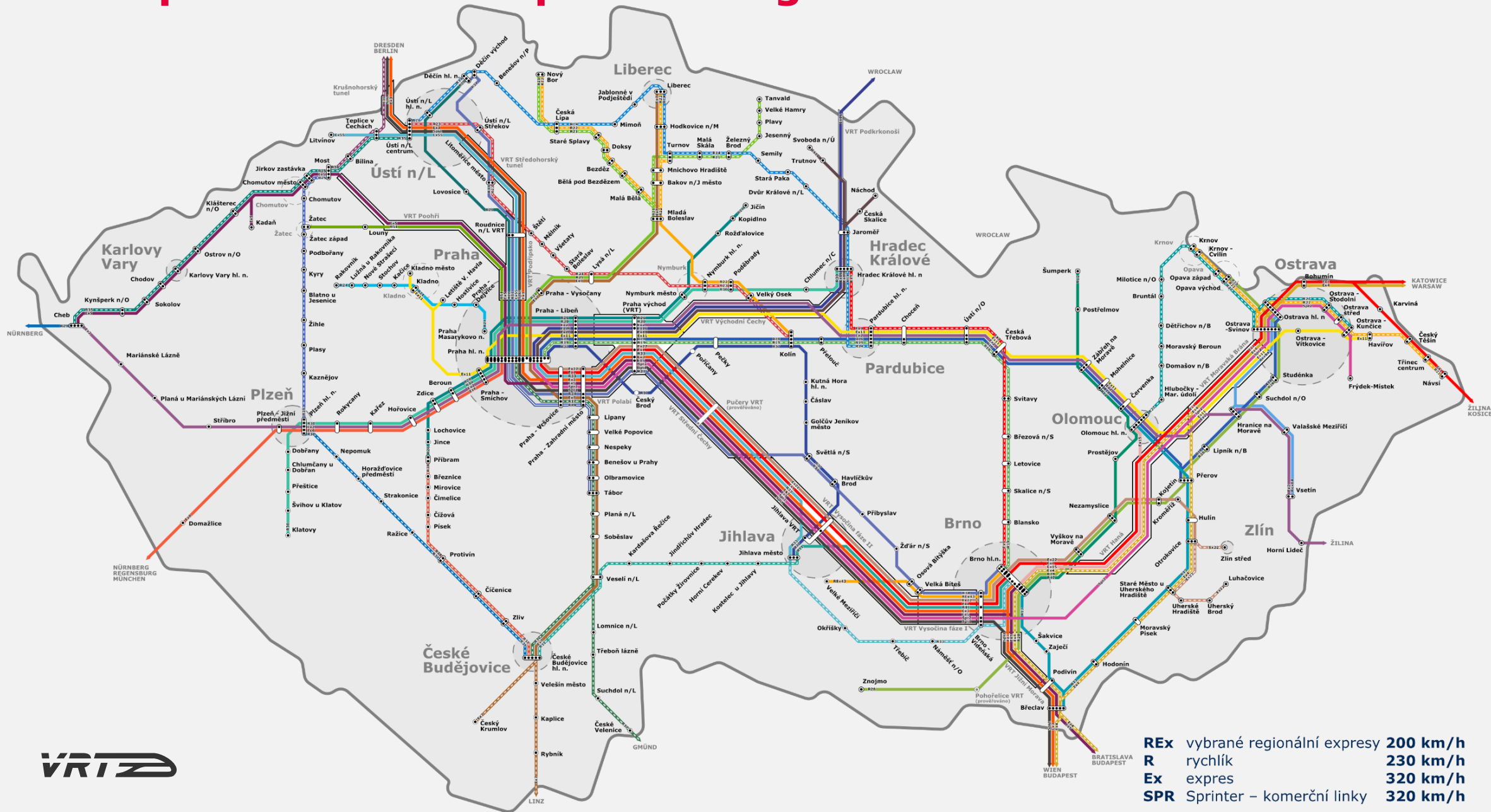
**Maintenance path**  
**Cable ducts**  
- Optical fiber network  
- Electricity distribution

**Measures for landscape connectivity**

**Fencing**

## Technical conception of Czech high-speed lines

# Future operational concept including HSR



**REx** vybrané regionální expresy 200 km/h  
**R** rychlík 230 km/h  
**Ex** expres 320 km/h  
**SPR** Sprinter – komerční linky 320 km/h



200 – 230 km/h (railjet, comfortjet, ICE L...)



230 – 250 km/h (Pendolino, ICE T, Javelin...)



250 - 300 km/h (ICE 4...)



300+ km/h (Velaro, Talgo 350, ETR 1000, TGV...)



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Spolufinancováno  
Evropskou unií



**sfdi**

STÁTNI FOND DOPRAVNÍ  
INFRASTRUKTURY

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