



INVESTMENT IN PUBLIC RAILWAY INFRASTRUCTURE

Franc Klobučar, Goran Korošec

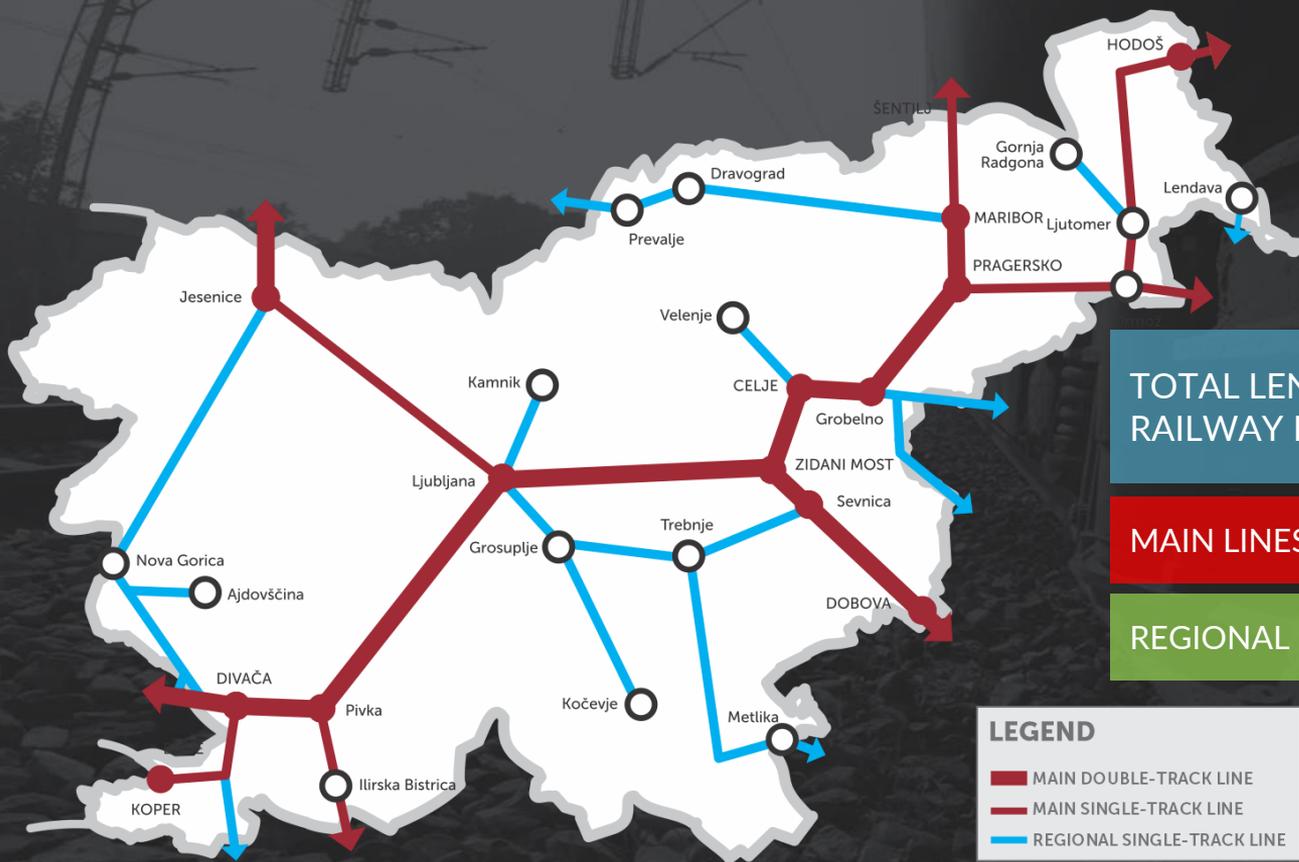


REPUBLIC OF SLOVENIA
MINISTRY OF INFRASTRUCTURE
SLOVENIAN INFRASTRUCTURE AGENCY



Infrastruktura

SLOVENIAN RAILWAY INFRASTRUCTURE



TOTAL LENGTH OF RAILWAY LINES

**1207,7
km**

MAIN LINES

607,00 km

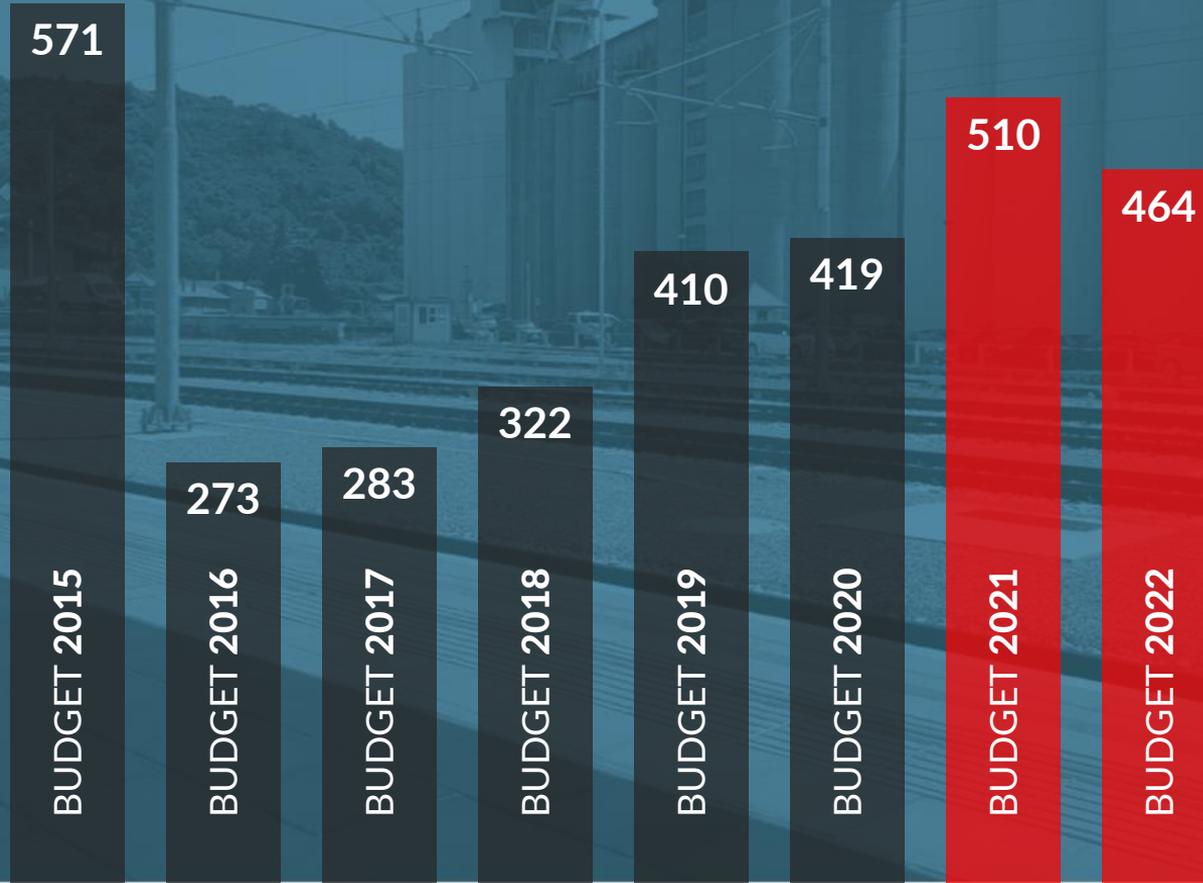
REGIONAL LINES

600,70 km

LEGEND

- MAIN DOUBLE-TRACK LINE
- MAIN SINGLE-TRACK LINE
- REGIONAL SINGLE-TRACK LINE

RAILWAY INFRASTRUCTURE PROJECT IMPLEMENTATION 2015-2022



UPGRADING OF THE MARIBOR-ŠENTILJ RAILWAY LINE



Estimated project value
EUR 286.6 million
EU funds – Cohesion Fund
EUR 101 million



Existing track
2018-2020
New track (Pekel Tunnel,
Pesnica Viaduct)
2020-2023

FINISHED

- ✓ Upgrading of existing tracks on the Maribor–Počehova, Pesnica–Šentilj and Šentilj–national border section
- ✓ Upgrading of Maribor Tezno, Maribor, Pesnica and Šentilj railway stations.

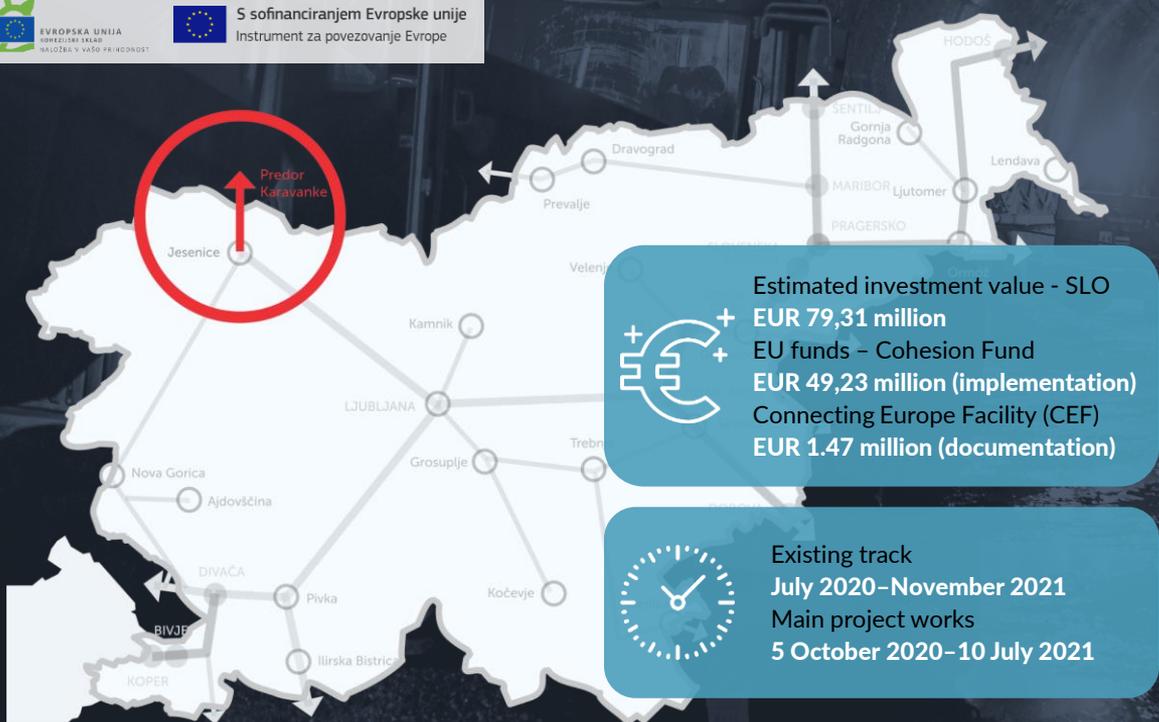
UNDER CONSTRUCTION

- Construction of a new route for a future two-track line on the Počehova–Pesnica section:
- construction of the new Pekel Tunnel
- construction of the new Pesnica Viaduct
- Arrangement of level crossings
- Arrangement of appropriate noise protection along the existing railway track
- Provision of D4 category line capacity (permitted axle load of 22.5 t/axle)
- Increased throughput capacity of the railway line from 63 to 84 trains/day
- Increased transport capacity of the railway line from 7.1 to 8.89 net tons/year

SAFETY AND TECHNICAL UPGRADE OF THE KARAVANKE RAILWAY TUNNEL



S sofinanciranjem Evropske unije
Instrument za povezovanje Evrope



Estimated investment value - SLO
EUR 79,31 million
+ EU funds – Cohesion Fund
EUR 49,23 million (implementation)
+ Connecting Europe Facility (CEF)
EUR 1.47 million (documentation)

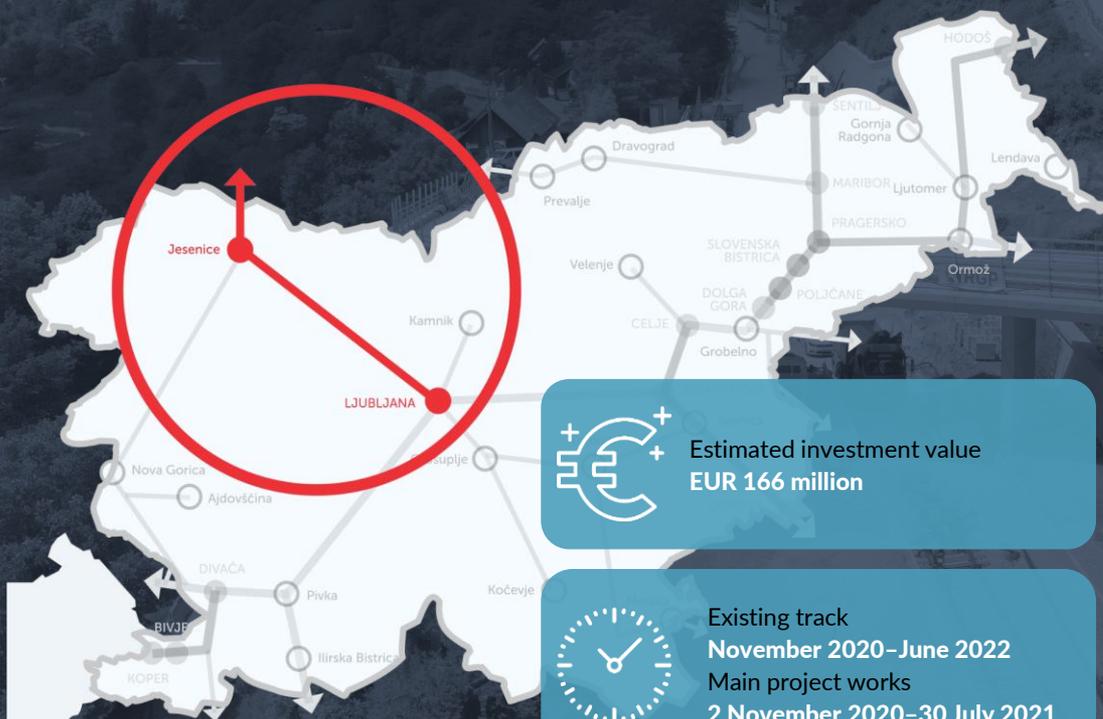


Existing track
July 2020–November 2021
Main project works
5 October 2020–10 July 2021

- Removal of the double-track railway line and construction of a single-track railway line in the tunnel
 - Rehabilitation of damaged parts of the tunnel liner
 - Construction of an emergency walkway along the entire length of the tunnel
 - Upgrading of the catenary and signalling and safety devices
 - Installation of modern telecommunication systems between the railway traffic management centres in the tunnel on the Slovenian and Austrian sides and on railway vehicles
 - Installation of appropriate systems to ensure fire protection and safety in railway tunnels and safe and efficient rescue operations in the event of an accident
- Provision of D4 category line capacity (permitted axle load of 22.5 t/axle)
 - Improvement of security and technical conditions in the Karavanke Tunnel
 - Provision of conditions for speeds of minimum 100 km/h

The project is being financed by both countries, Austria and Slovenia.

KRANJ-JESENICE RAILWAY LINE



Estimated investment value
EUR 166 million



Existing track
November 2020–June 2022
Main project works
2 November 2020–30 July 2021

UPGRADING OF THE 9.93 KM LONG KRANJ-PODNART SECTION

- Catenary replacement
- Rehabilitation of supporting walls, retaining walls and bridging structures
- Removal of the level crossing and construction of a new underpass at Ovsiše
- Arrangement of noise protection

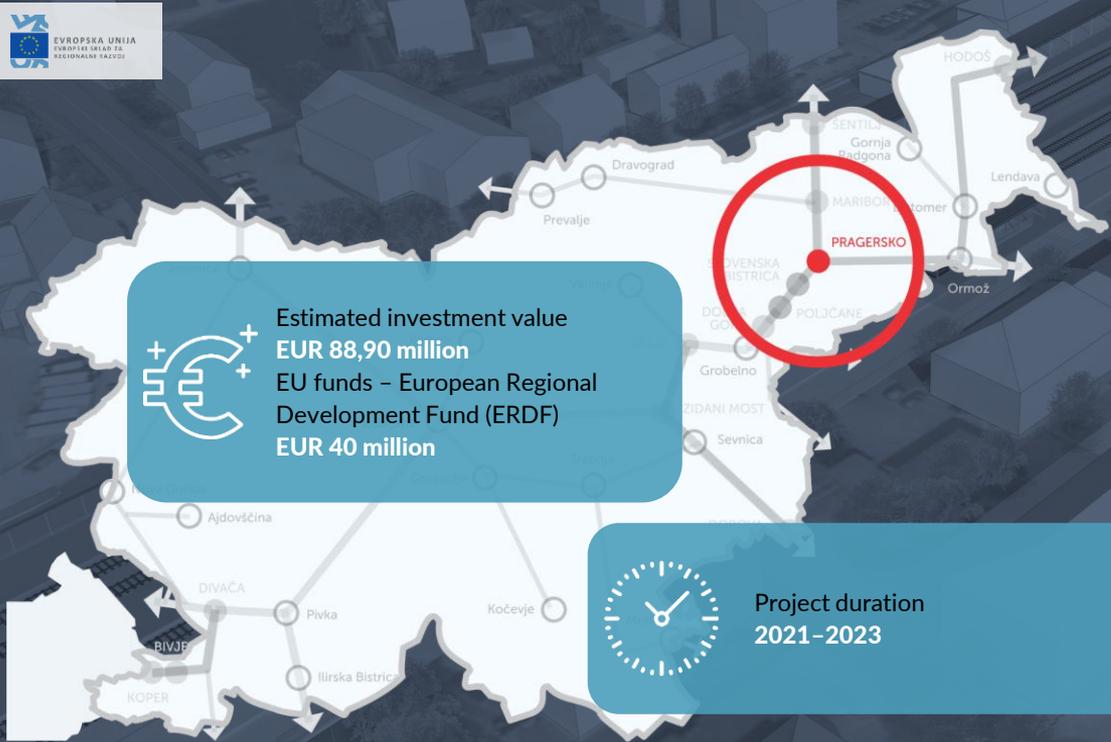
UPGRADING OF THE 10.69 KM LONG PODNART-LESCE BLEDE SECTION

- Reconstruction of Otoče, Globoko and Radovljica stations
- Rehabilitation of Globoko and Radovljica tunnels
- Catenary replacement and bridging structure rehabilitation
- Construction of a new underpass in the Zaloše area and a new overpass in the area of Radovljica station
- Arrangement of noise protection

UPGRADING OF THE 12 KM LONG INTERSTATION SECTIONS LESCE BLEDE-ŽIROVNICA, ŽIROVNICA-SLOVENSKI JAVORNIK AND SLOVENSKI JAVORNIK-JESENICE

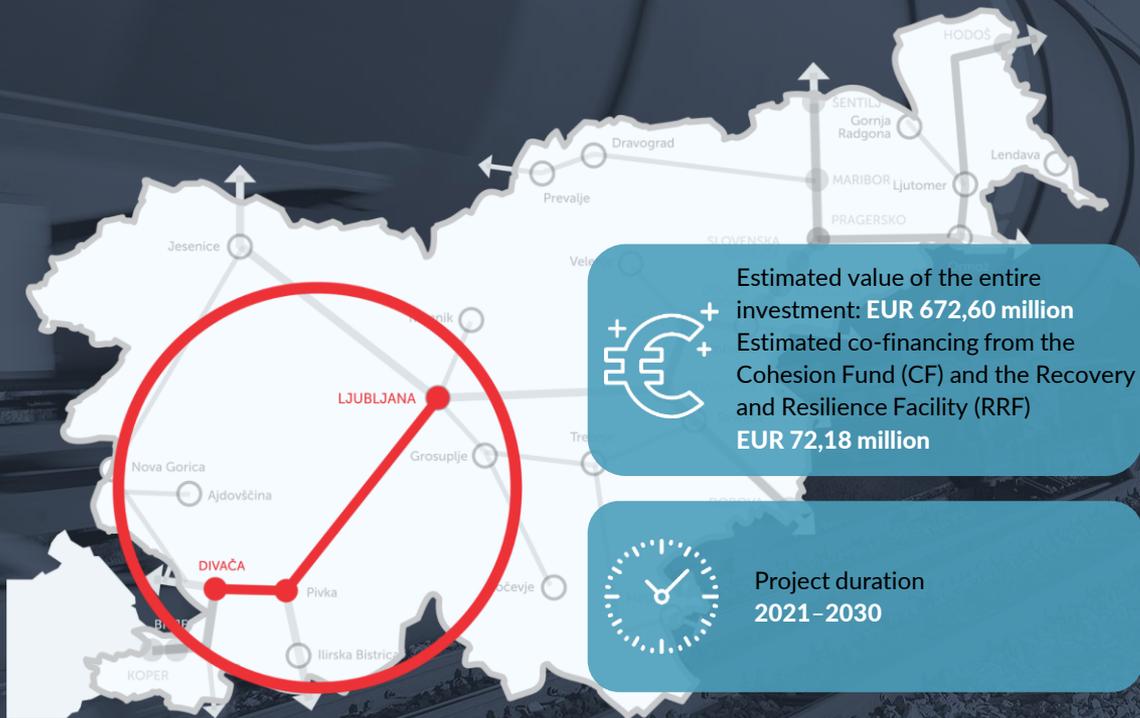
- Cable laying along the line
- Upgrading of Žirovnica in Slovenski Javornik railway stations

UPGRADING OF THE PRAGERSKO HUB



- Upgrading and modernisation of the Pragersko railway station
- Upgrading of tracks and track equipment, signalling, safety and telecommunication equipment and overhead lines
- Construction of two platforms
- Underpass for passenger access to the passenger platforms
- Construction of a road underpass through Pragersko
- Construction of noise barriers
- Provision of D4 category line capacity (permitted axle load of 22.5 t/axle)
- Improvement of technical and technological station and hub parameters
- Provision of an adequate connection to the modernised Pragersko–Ormož–Hodoš railway line.

UPGRADING OF THE LJUBLJANA-DIVAČA RAILWAY LINE



Estimated value of the entire investment: **EUR 672,60 million**
Estimated co-financing from the Cohesion Fund (CF) and the Recovery and Resilience Facility (RRF): **EUR 72,18 million**



Project duration **2021-2030**

The works are planned to be carried out in the period from 2021 to 2027 in several phases:

Phase 1: Upgrading of the Ljubljana-Brezovica section

- Planned implementation period: 2021-2023
- Estimated value: EUR 65 million
- EU funds: EUR 37.87 million (Recovery and Resilience Facility (RRF))
- Upgrading of Ljubljana Tivoli station
- Upgrading of level crossings for maximum speeds
- Replacement of a steel bridge across Mali graben
- Construction of active noise barriers with a total length of 8,196 m
- Upgrading of the existing tracks
- Upgrading and reconstruction of the catenary
- Upgrading of signalling and safety devices.

Phase 2: Upgrading of the Brezovica-Preserje-Borovnica section

- Planned implementation period: 2022-2024
- Planned EU funds for the upgrading of interstation sections: EUR 34.41 million (RRF)

UPGRADING OF RAILWAY AREA OF LJUBLJANA STATIONS

UPGRADING OF RAILWAY STATION AREAS IN LJUBLJANA

- ✓ Upgrading of Ljubljana Šiška, Ljubljana, Ljubljana Moste, Polje and Zalog stations, interstation sections and the construction of two new railway overpasses across Dunajska cesta and Šmartinska cesta.

Estimated value of the entire investment: **EUR 546.52 million**
EU funds – CEF: **EUR 8.46 million for the project design**

Currently, a call for tenders for project design is being prepared.

PHASE 1: UPGRADING OF LJUBLJANA RAILWAY STATION

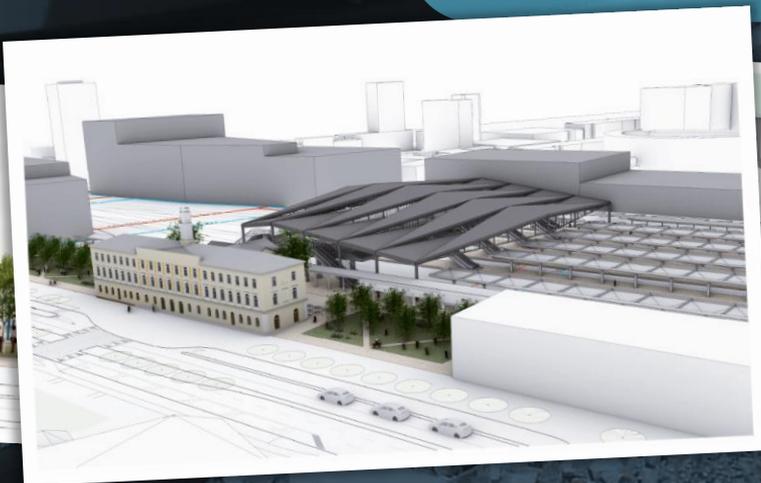
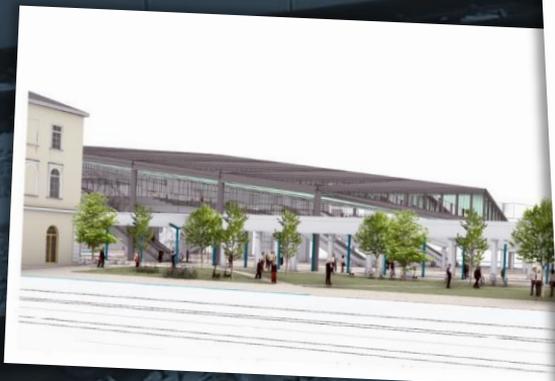
- ✓ upgrading of track and platform infrastructures
- ✓ construction of a new overpass for passengers.

Estimated value of phase 1: **EUR 109.86 million**

EU funds – CEF: **EUR 1.87 million for the project design**

Planned EU funds: **EUR 93 million for implementation (RRF)**

Project design is being prepared. The call for the execution of works is planned to be published in the second half of 2022.



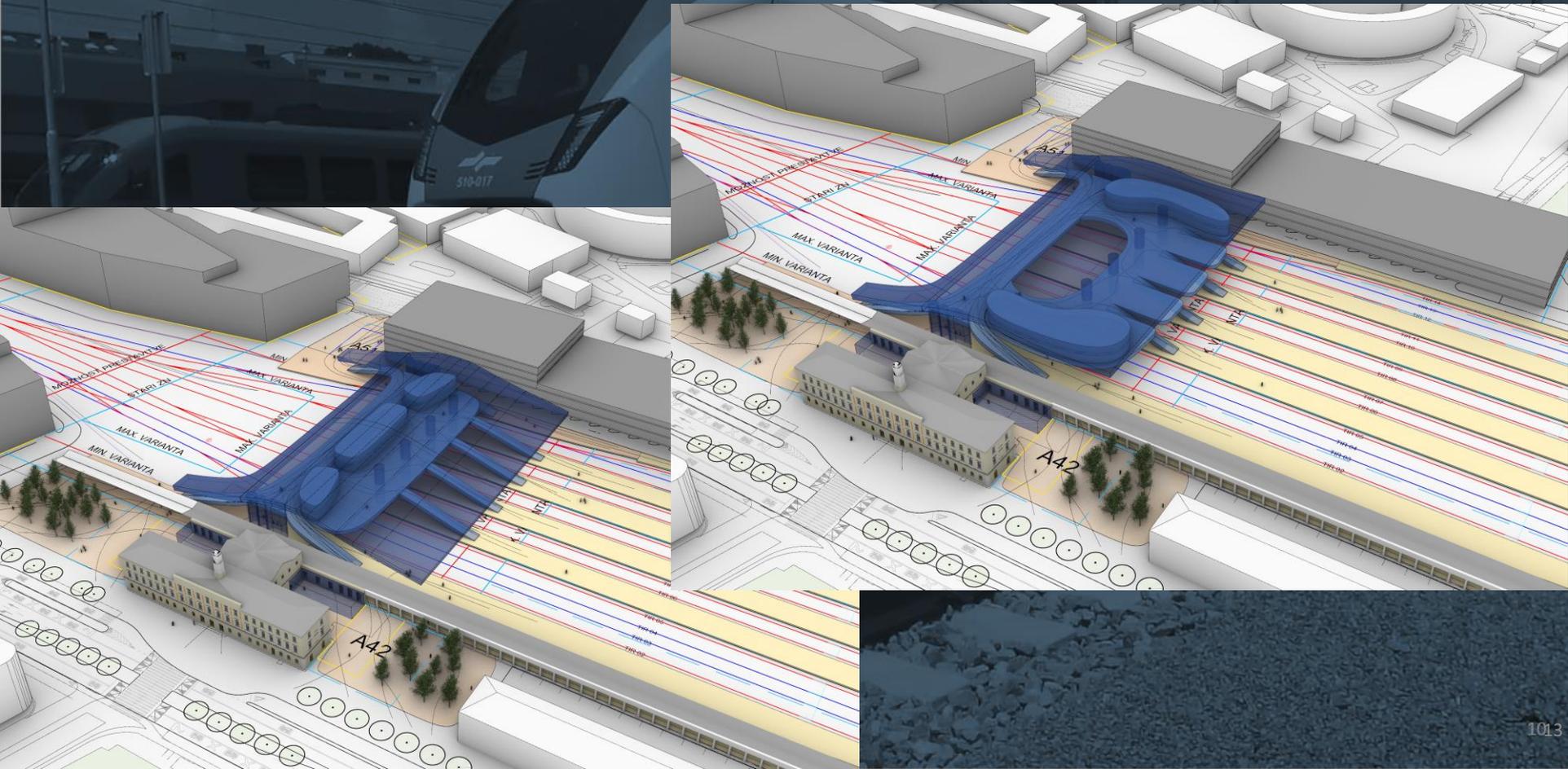
UPGRADING OF RAILWAY AREA OF LJUBLJANA STATIONS



UPGRADING OF RAILWAY AREA OF LJUBLJANA STATIONS

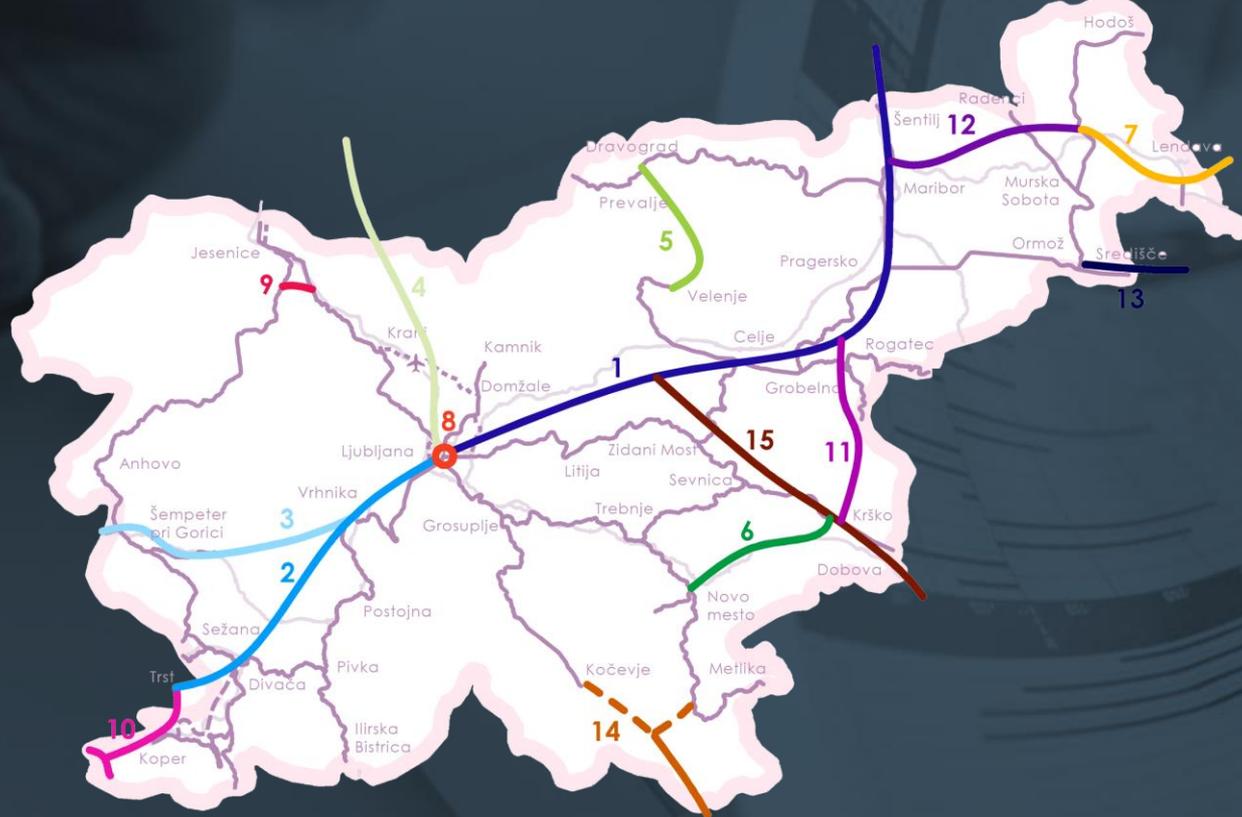


UPGRADING OF RAILWAY AREA OF LJUBLJANA STATIONS



VISION FOR RAILWAY TRANSPORT DEVELOPMENT

"VISION 2050+"



PROPOSAL OF NEW DIRECTIONS

- 1: Ljubljana–Celje–Maribor
 - 2: Ljubljana–Divača–Koper/Trst*
 - 3: Brezovica/Vrhnika–Ajdovščina
 - 4: Brnik–Celovec*
 - 5: Velenje–Dravograd
 - 6: Novo mesto–Dobova
 - 7: Beltinci–Lendava(–Redič)*
 - 8: vozlišče Ljubljana
 - 9: Lesce–Bled jezero
 - 10: Trst–Koper–Piran*
 - 11: Maribor–Zagreb/Dobova*
 - 12: Maribor–Murska Sobota*
 - 13: Ormož–Središče(–Čakovec–Velika Kaniža)*
- Proga – obstoječa
 - - - Proga – v gradnji
 - · · Proga – obstoječi predlogi
 - ✈ Letališče Jožeta Pučnika Ljubljana

THANK YOU FOR ATTENTION



REPUBLIC OF SLOVENIA
MINISTRY OF INFRASTRUCTURE
SLOVENIAN INFRASTRUCTURE AGENCY

