



Demand-driven cross-border infrastructure development

June 2024

The Austrian main transport axes embedded in the European railway network





- Extensive mixed traffic
- High volume of transit traffic
- Current focus: infrastructure expansion on the Baltic-Adriatic axis
- Already high demand for local transport services in metropolitan areas
- Routes in the Linz-Salzburg-Munich area are already at capacity limits
 - Extensive mixed traffic
 - Linz Wels section to be expanded to four tracks by 2031
- Existing infrastructure does not allow for further significant growth

Growing demand on existing infrastructure Increase in performance required



Opportunities

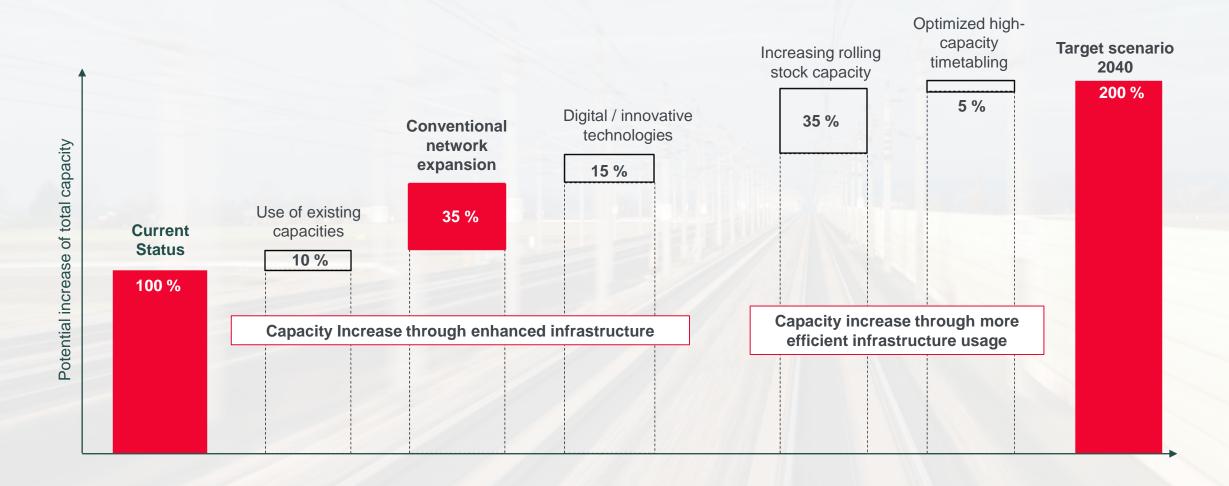
- Introduction Austrian Network Pass
- 20% Long-distancepassenger growth (2023 vs. 2019)
- Stable politicial commitment to the rail system
- Model shift in freight transport

Challenges

- Bottlenecks restrict the availability of train paths
- Conflicts of use between different rail segments
- Declining operating quality
- Competitiveness of rail freight transport

Increasing the capacity of the rail system in Austria up to 2040





The railway network in the Linz - Salzburg - Munich area Current expansion plans

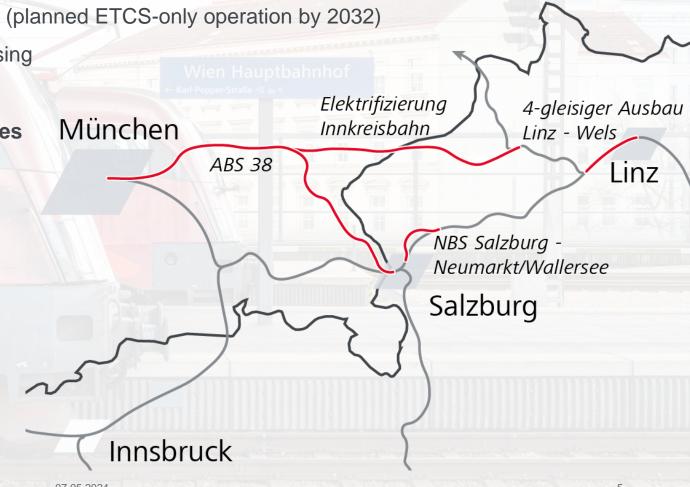


Currently in realisation

- **Expansion** Linz Wels to four tracks
- ETCS installment on the Austrian Western Railway (planned ETCS-only operation by 2032)
- **Expansion of ABS 38** Munich Mühldorf Freilassing
- New rail line Salzburg Neumarkt/Wallersee
- Procurement of double-deck long-distance vehicles

Demand

- Reduce journey time significantly
- Create capacities for further growth
- Dissolve traffic flows
- Increase system resilience



The New Innkreis Railway NIB Technical details



- Starting points: Wels junction (Austrian Western Railway) & Mühldorf (ABS 38 Munich Mühldorf)
- Approx. 125 km long, continuous double-track line with
 - Max. 8 per mille longitudinal gradient
 - 280 km/h design speed
 - Up to 3 regional railway stations possible
- Additional connections to the existing network planned
 - Hausruck railway
 - Mattigtal railway
 - Tüßling Burghausen (ChemDelta Bavaria)
- Relatively favourable geographical conditions with an expected moderate proportion of engineering structures (approx. 20%)
- Compatibility with existing rail expansion projects (especially ABS 38)







Accelerate passenger transport

- Massive reduction of the
 Vienna Munich journey time
 to approx. 2.5 hours
 - → Daily commuting distance
- Resulting pull effect in European east-west traffic
- Unbundling of long-distance transport and local / freight transport
- Shift from short-haul flights and private transport

Improve regional connection

- Cross-border fast regional transport via the new Innkreis railway
- Additional train paths for local trains on existing lines

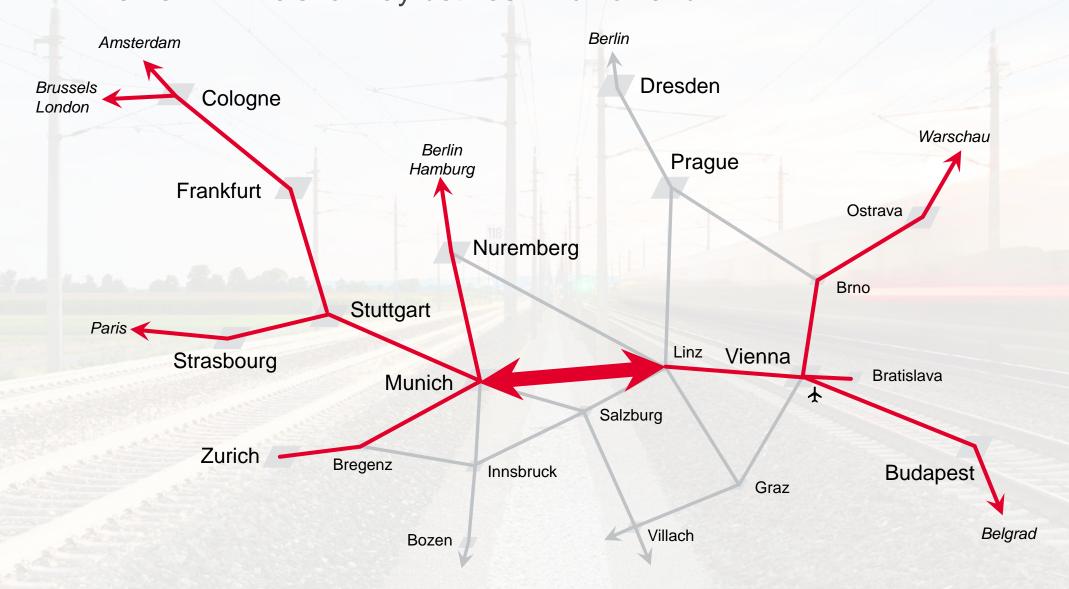
Make freight transport more attractive

- Capacity increase through standardised speed patterns for freight & local trains on existing routes, especially on important freight route
 Nuremberg – Passau – Wels
- Increased system resilience through alternative route in the event of disruption
- Improved connection to
 ChemDelta Bavaria



Closing the gap in the European high-speed railway network The new Innkreis railway between Munich and Linz







Direct long-distance connection to Munich Airport Upside potential



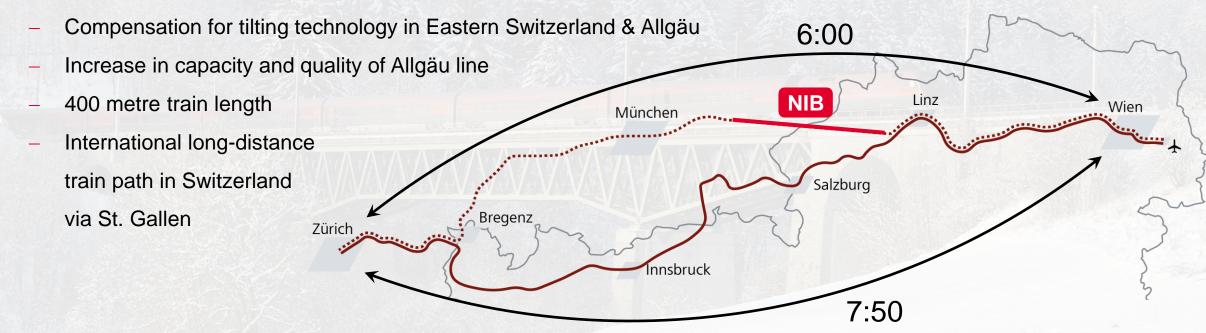
- Direct long-distance railway connection to Munich Airport
 from Linz and Vienna via NIB and Walpertskirchner Spange
- Upward compatibility with the possible Munich Ingolstadt
 new high speed line incl. long-distance rail link to Munich Airport
- Through-connection via Munich Airport generates a journey time gain between Vienna and Nuremberg of 45 to 60 minutes (vs. actual) with effects among others to Frankfurt, Cologne, Berlin,
 Amsterdam & Budapest
- Acceleration of the Salzburg Nuremberg (– FFM/Berlin)
 travel chain by around 30 minutes possible by linking the longdistance lines Munich Salzburg Villach and Vienna –
 Nuremberg Frankfurt via the Mühldorf junction and/or Munich
 Airport long-distance station







- Europe is moving closer together: NIB enables new international, high-performance connections with neighbouring countries
- NIB as an enabler for possible through-connection Vienna Zurich via Munich main station with a journey time gain
 of up to 1 hour 50 minutes compared to the existing route via Innsbruck
- Supplementary line to the existing route via Arlberg (particularly important for the Tyrol Vorarlberg transport connection)
- Requirements:



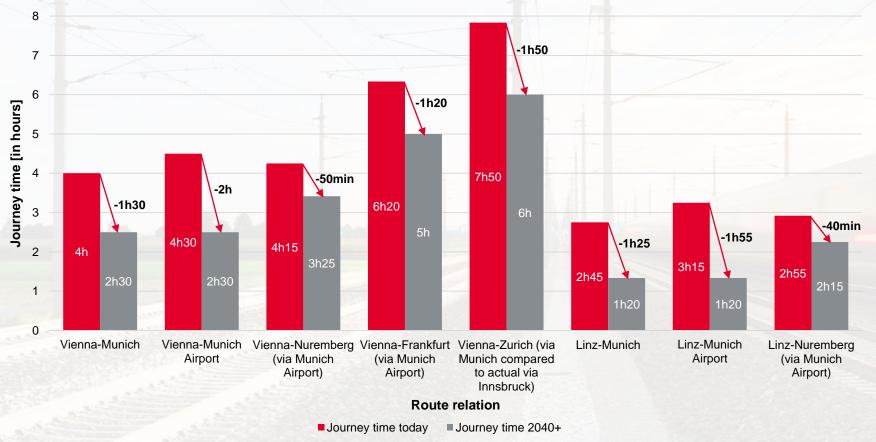


Making journeys more attractive by massively reducing travel times OBB



Goal: very hour from 2040 on all routes

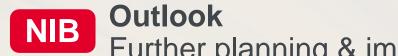




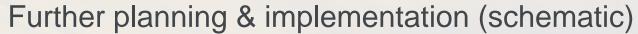
Key findings

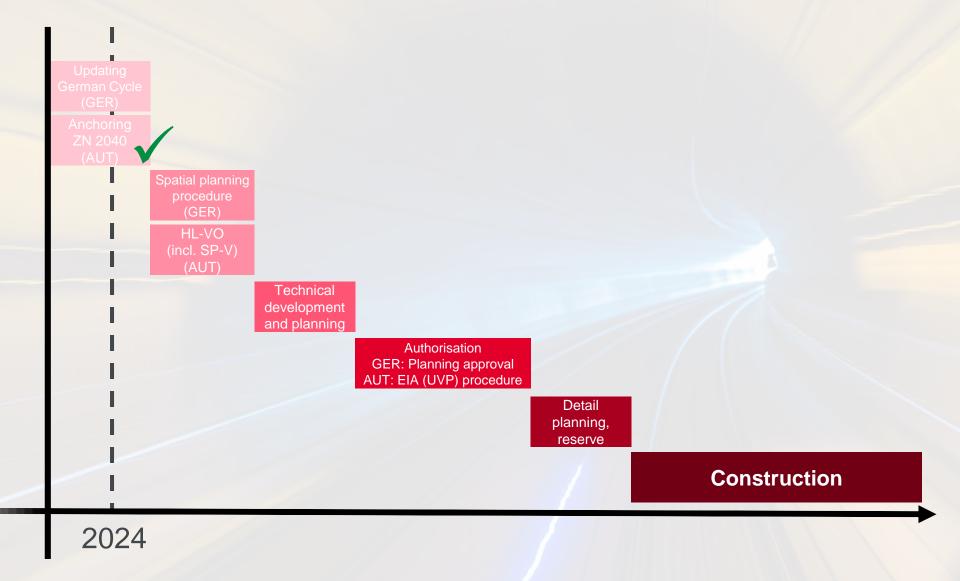
- Journey time between Linz and Munich Airport more than halved
- Massive reduction in journey time on the Vienna – Zurich route via Munich (compared to Vienna – Innsbruck – Zurich)

Note: Journey times 2040+ include NIB, new high speed line Munich-Ingolstadt, improved Allgau line (for the Vienna-Zurich route) and new high speed line Nuremberg-Würzburg (for the Vienna-Frankfurt route)









NIB

New Innkreis railway anchored in the 2040 target network (since January 2024)

ØBB HOLDING

ZIELNETZ 2040

