



Better use of railways infrastructure capacity between Vienna and Budapest

- EC Passenger Pilot projects

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Why is advance capacity planning important?

EU Policy focus shifts from building railways to properly using it

COM(2011) 144: Triple EU high speed railway infrastructure by 2030 (Roadmap to a Single European Transport Area – Towards a competitive and resource-efficient system)



COM(2020) 789: Triple EU high speed railway ridership by 2050 (Sustainable and Smart Mobility Strategy – putting European transport on track for the future)

In the ideal growth case, infrastructure investments will not keep up with market



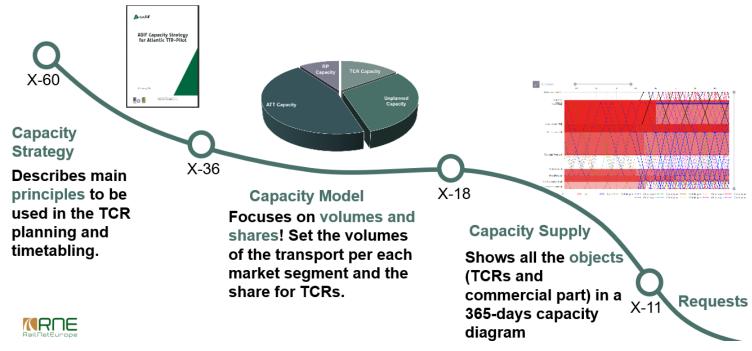
Source: Deutsche Bahn: Metropolitan Network: A strong European railway for an ever closer union

Strategy for infrastructure investment should be complimented by strategy for use



Why is advance capacity planning important? (2)

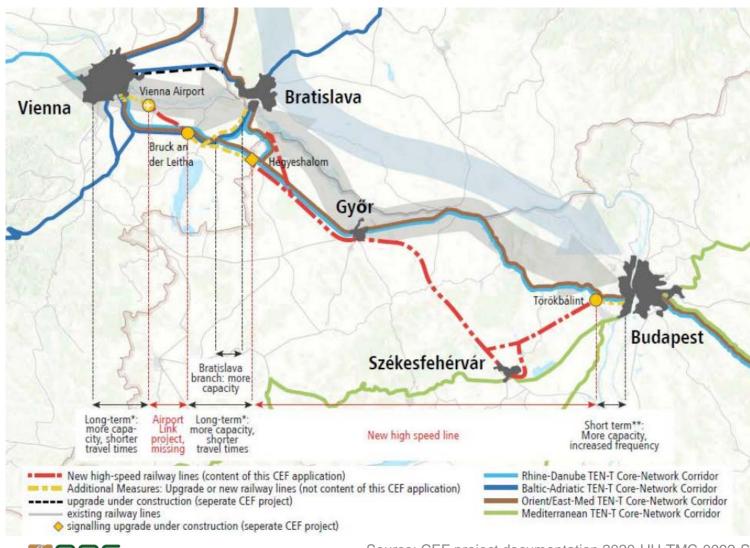
- Railways is not free like airspace: capacity not properly planned is capacity lost.
- Therefore: Timetable Redesign (TTR) for smart capacity management
 - a sector initiative



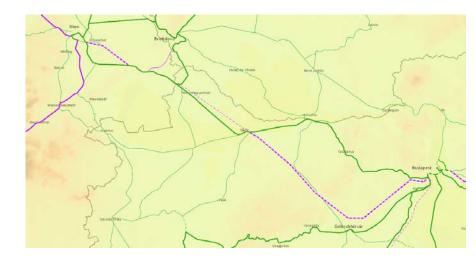
 Taken up by the European Commission proposal on the use of railway infrastructure capacity (COM(2023) 443) – with a Network Coordinator



Section Vienna-Budapest: long term plans vs. short term growth potential



- The long-term solution for more speed and capacity between Vienna and Budapest is a new high speed line
- Feasibility study closed with positive outcome; environmental appraisal in progress by an EU cofunded project
- New alignment taken up in TEN-T revision proposal as Extended Core / Comprehensive network



Source: CEF project documentation 2020-HU-TMC-0092-S

Section Vienna-Budapest: long term plans vs. short term growth potential (2)

Vasútkód	Ország	2022 I-III	2023 I-III	2023 / 2022
ОВВ	Ausztria	184 754	307 215	66%
DB	Németország	76 935	125 068	63%
ZSSK	Szlovákia	51 507	64 451	25%
UZ	Ukrajna	68 775	63 959	-7%
CFR	Románia	57 070	58 237	2%
CD	Csehország	31 515	57 108	81%
Eurail	Interrail+Eurail	8 630	45 764	430%
SBB	Svájc	14 835	23 230	57%
PKP IC	Lengyelország	8 173	18 164	122%
SZ-SI	Szlovénia	2 719	3 382	24%
HZ	Horvátország	2 313	3 025	31%
NS	Hollandia	305	773	153%
SNCB	Belgium	131	499	281%
SNCF	Franciaország	57	110	93%
CFL	Luxemburg	13	81	523%
DSB	Dánia	4	18	350%
BDZ	Bulgária	24	8	-67%

- Ridership already skyrocketing above pre-COVID numbers
- Infrastructure capacity issues translate to train overcrowding
- What to do until long-term infrastructure investments?
- Better use capacity of existing infrastructure!
- Also enabled by ongoing signalling upgrade (co-funded by EU)



EC passenger pilot initiative – aiming for the low hanging fruit of ridership growth

- Launched by European Commission in framework of Sustainable and Smart Mobility Strategy and Action Plan to boost cross-border rail
- 10 pilots selected by COM on 31 January 2023, comprising of 14 proposals
- Good cross-section of EU rail market (geographic; incumbent-new entrant, high speed – conventional, day-night)
- Relevant pilots for Vienna-Budapest:
 - München-Vienna-Budapest (Westbahn)
 - Vienna-Budapest-Romania (Arad/Oradea)Hungarian Ministry of Transport
- Not financial assistance technical assistance to dismantle entry barriers
- 13 of 14 proposals identified capacity allocation as entry barrier
- RNE contracted by Commission for technical assistance in capacity management issues





Role of RNE in the EC Passenger Pilot initiative

RNE technical assistance to European Commission is three-fold:



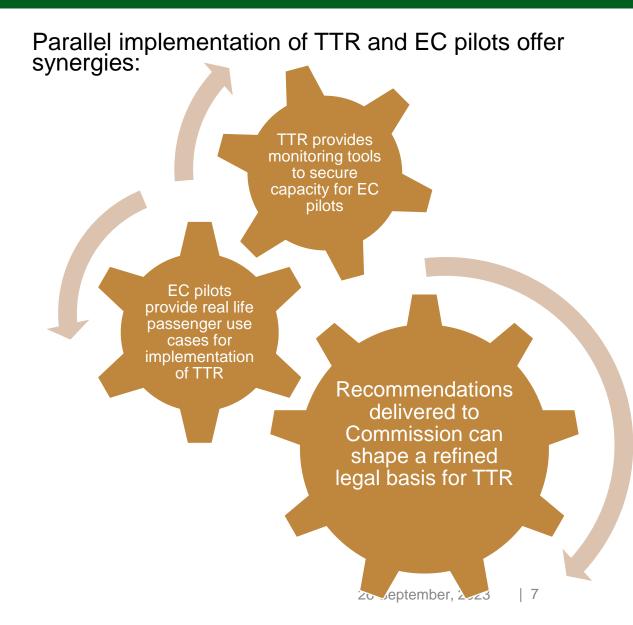
Support pilot applicant RUs as single point of contact in capacity-related issues



Measure and report capacity related progress of pilots



Develop recommendations overarching and beyond the pilots to support cross-border passenger services

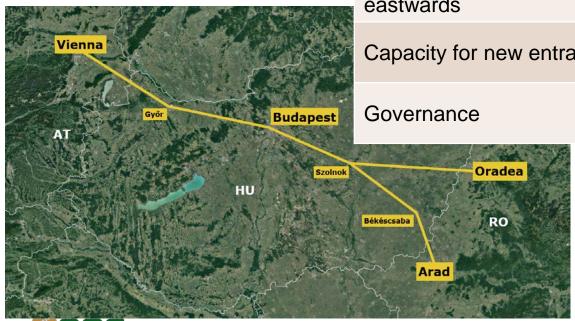




EC passenger pilots on Vienna-Budapest section



Source: VPE



	Currently	Aimed
Base frequency	every 60 minutes	every 30 minutes
Travel time	2:26	2:11 (with signalling upgrade)
Extension from Vienna westwards	ca. every 2 hours (from :30 node)	possible every hour, both from :00 and :30 node
Extension from Budapest eastwards	2xdaily, 1x night (via Budapest-Keleti)	possible every hour, directly
Capacity for new entrants	as over-the-top train paths	integrated into base frequency
Governance	via PSO	via TTR? via Framework Agreements?

- Pilot applicant: Ministry of Transport, Hungary
- Executed by: VPE (Hungarian railway track capacity allocation office)
- Gradual implementation until 2028

EC passenger pilots on Vienna-Budapest section (2)





Aspiration of RNE is to showcase by our assistance in the Passenger Pilots to the Commission and pilot applicants, that advance planning by TTR can result in better capacity products for both current and future railway operators.

