



from perspective of small CE country

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Infrastructure Status quo





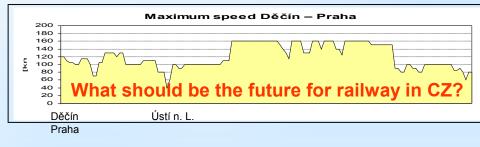


Czech Railway System – current situation

very dense network, well internationally interconnected

VS.

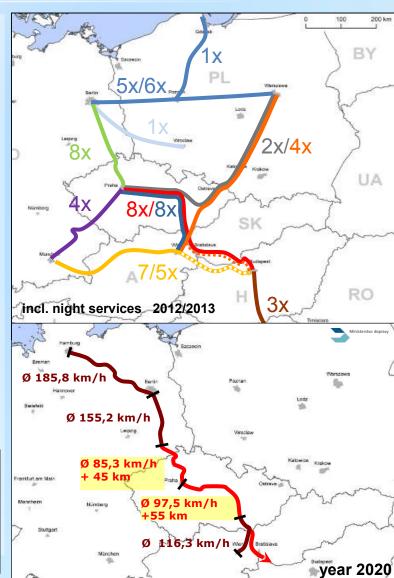
Our low speed parameteres = low competitiveness, low market share



- capacity problems:
 - especially in suburban areas
 - also on some frequent corridors attractive for openaccess operators (more shorter trains)

- problems of so-existence of different types other





What should be **our role**?

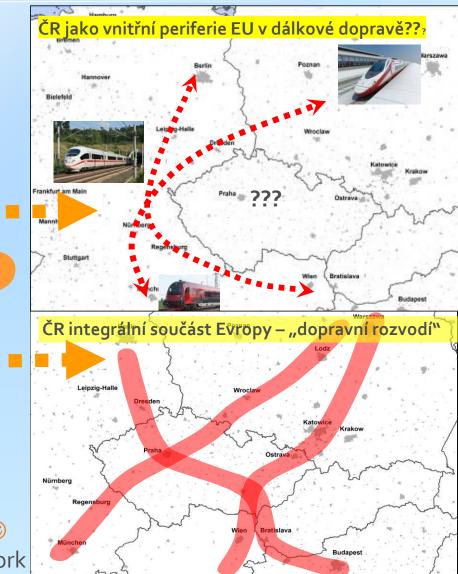
1980 – 95

- national approach = isolated HS development within states
- need for coordination and interconnection



these days:

- HS Railway as the part of EU Transport Policy
- HS part of TEN-T also in CEE! for the 1st time 😳
- EU funding possibility tool for single HS network



EU transport policy

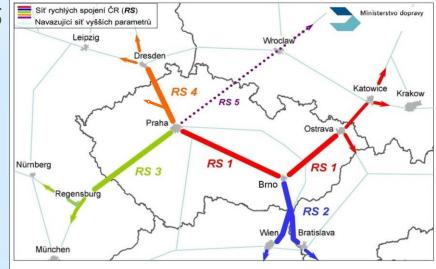
White paper for transport:

- structural change in transport sector proposed
- railway importance increase:
 - market share in passenger and freight transport for medium and long distances
 3 time more HS lines by 2030
- railways = the tool of energetic/safety policy
 - lower oil dependence of transport system
 - EU today 97 % energy for transport comes form oil!!!
- freight corridors capacity needed
- improvement of capacity and quality of railways – precondition of competitiveness



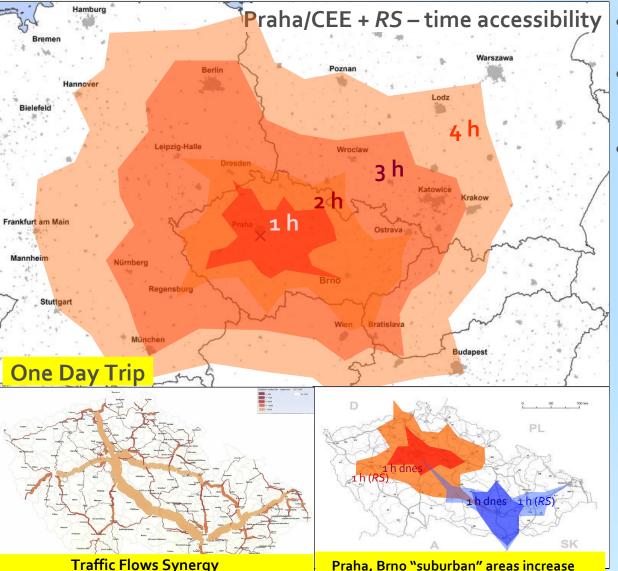
Rapid Services/RS – universal tool

- High-speed studies prepared since 1995
- Vs. question: "Do we really need HS?"
- new TEN-T policy: network of lines for higher speeds (200 kmph and more)
- HS means not only speed but also capacity – HS helps to overcome current "diseases" of railway network
- 2011 reshaping prior concept to Rapid
 Service concept (RS)
- complex attitude infrastructure, landscape, stations, crossing points with the existing network, operational matters, planning of types of future services...
- ...and regional development strategies integration





RS benefits/passenger



- **spatial accessibility** radical change within CZ and EU
- HS suburban railway commuting up to 1 hour: shift
 60 km → 150 km

better spatial coverage

- -HS terminals as a gate to their hinterland
- -terminals = RS + regional trains, buses, P+R integration = chance for better performance of all modes

-Fast and frequent

RS as the tool for increase of public transport **attractiveness** and better **efficiency** of public subsidies given to public transport

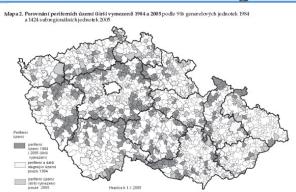
RS benefits/freight

- main contribution of *RS*-lines for freight transport -<u>improvement of capacity and</u> <u>reliability</u> of traffic on existing lines
- modal shift from road to rail the biggest potential in combined transport
- freight trains on **RS**-lines?
 - for fast and light freight trains and in case of free capacity – off-peak hours
 - high-speed cargo as an alternative to air-cargo)
 - Euro Carex project and very fast combi transpor trains – improvement of efficiency of the whole system



RS and spatial development

- **RS** = tool for local and regional development
- *RS* = advantage & opportunity for:
 - making regions more visible (development impulse)
 - brownfields re-development better economic, environmental, social and aesthetical performance
- coordination and integration of planning (rail together with region, region together with rail)
- spreading of daily urban region improving the position of inner peripheries (access to the main urban regions



Inner Periphery within CZ



Variant – services alignment



RS realization **phases**

TEN-T Core Network

- Praha Litoměřice/Lovosice
- Brno Přerov, Brno Vranovice Břeclav
- TEN-T Comprehensive Network
 - other parts of network priority

Lovosice/Litoměřice – Praha – Brno – Přerov/Vranovice (red backbone):

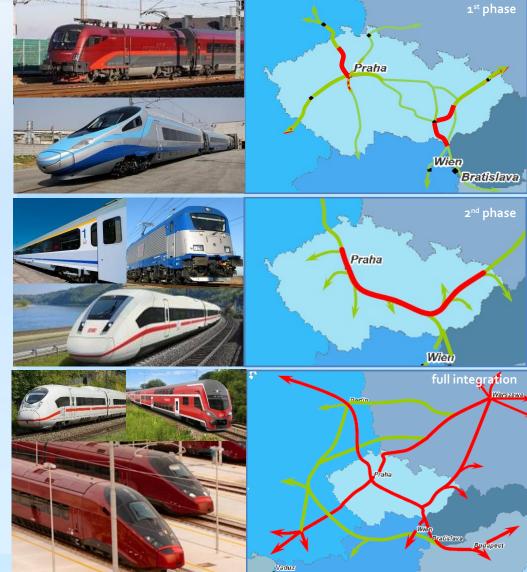
- new fast backbone respecting main traffic flows replacement of the most problematic sections on CR network
- significant cuts already in this phase:
 - •Praha Brno/Wien/Bratislava o 1 ¹/₂ h
 - •Praha Ostrava o 3/4 h
 - •Praha Ústí n. L./Dresden o ½ h
 - •Brno Ostrava o 3/4 h
 - Praha České Budějovice o 20 min
 - •Berlin Wien o 2 h



RS and rolling-stock

<u>Construction model:</u>

- <u>1st phase:</u> RS = capacity in urban agglomerations, interconnected with CR (Prague region, Brno- Přerov)
- Current rolling-stock available in CE for speed up to 200 kmph
- <u>**2**nd</u> <u>**phase:**</u> *RS1* construction Praha – Brno to finish backbone + (Praha to regions: 3 hrs journey)
- Rolling-stocks: 200 250 kmph
- <u>3rd phase:</u> full integration of RS into European HS system
- full high-speed operation up to 350 kmph and also
- IC segment + RegioExpresses



Thank you for attention



...our common challenge!

