



High Speed Rail in Poland – plans & activities

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**UN ECE TER Project
Workshop
Master Plan for the future
High Speed Rail network in Central and
Eastern Europe
Timisoara, 10 – 14 September 2012**



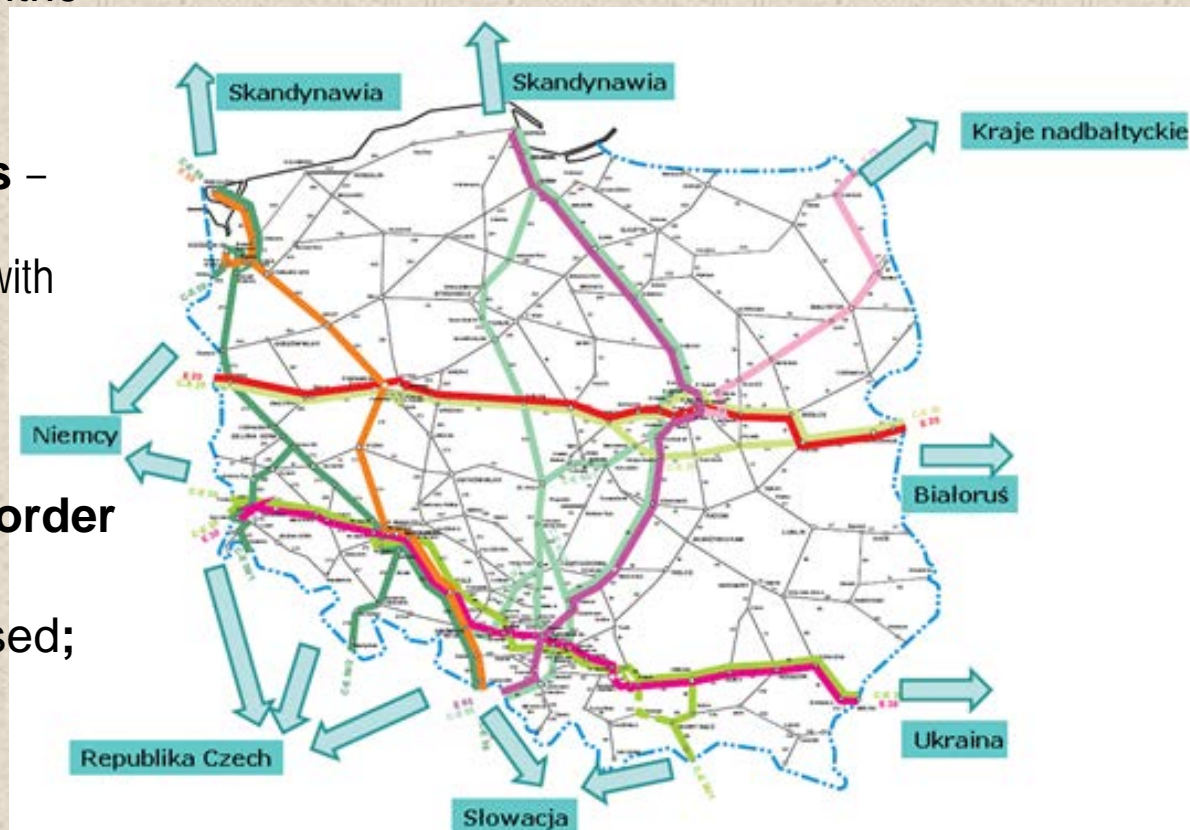
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Republic of Poland:

- area **312 575 km²**
- **> 38 mln** population, polycentric settlements
- **177 years** of railway tradition
- **among European leaders** – volume of transported cargo
- **over 41%** of land **borders** with **different gauge** systems – **1435 mm / 1520 mm**
- **E U member** since 2004
- **North** and majority of **East border** – the **EU border**
- **20 299 km** railway lines used;

AGC & AGTC lines – 5 447,824 km
TEN-T network – 5 243,007 km





Some rail transport figures...

- > 200 mln t of cargo
- ~ 262 mln passengers
- Daily services:
 - ~ 6 900 trains
 - 3 732 passenger
 - 1 878 cargo
 - 821 single locomotives
 - 301 „duty” trains
 - 245 „technological” trains

Passenger trains - daily





Speeds applied ...

On-going main improvements:

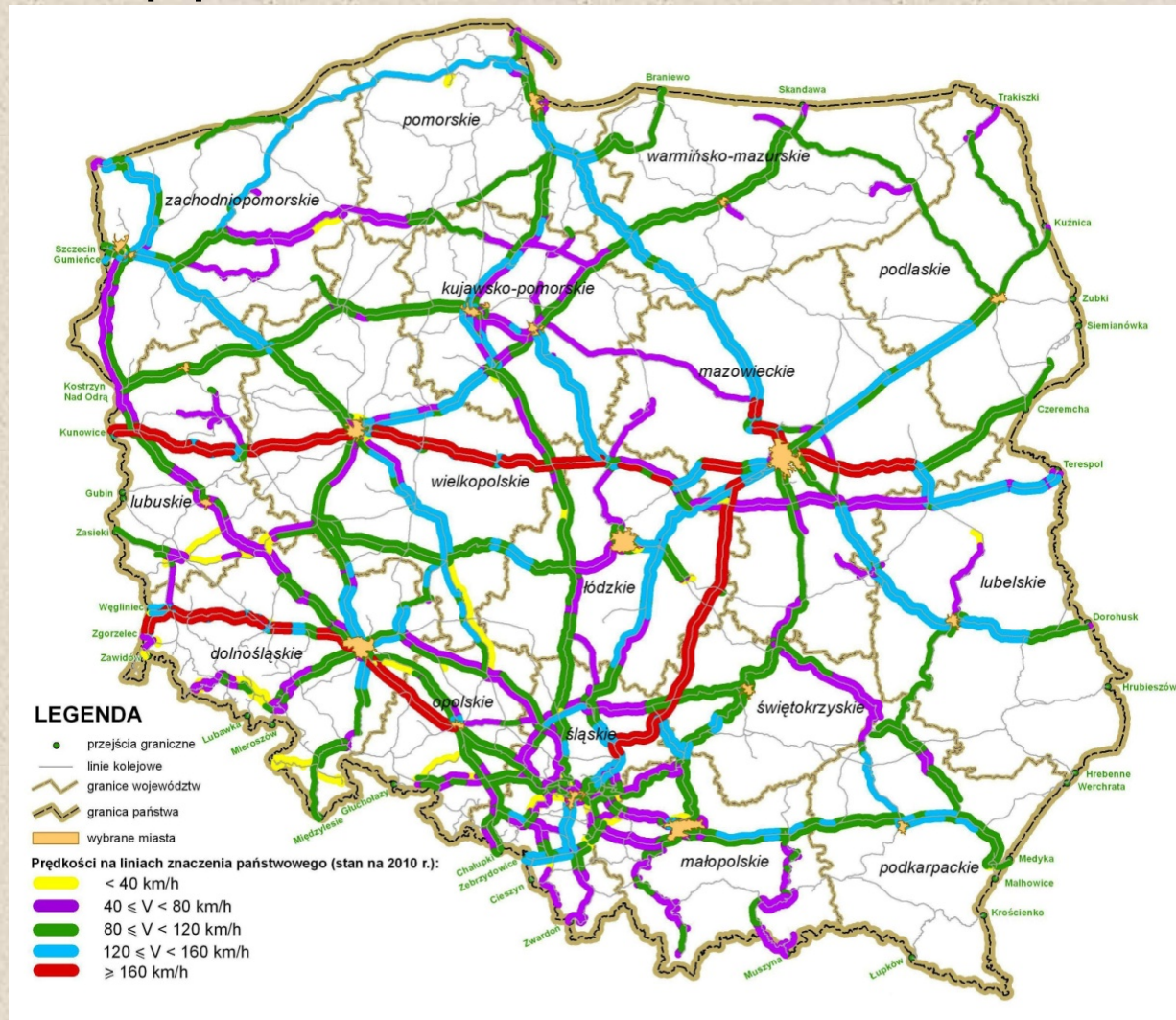
- modernisation of E-65

• Warszawa-Gdańsk

$v = 200-220$ km/h;

• CMK $v = 230$ km/h

(+ ETCS level 1 installation)



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Significant goals and railway infrastructure priorities...

- Economic **growth stimulation** – **national** and **regional level**, by transport **accessibility increase**
- Creation of **integration** opportunity for **railway, air** and **city** passenger subsystems
- **Increase** of regions investment **attractiveness**
- Enabling of **interoperability within pan-European transport corridors** (opportunity of **free train passage** within **different networks in different states**)
- Efficiency **improvements of rail lines** converging **in rail nodes**

- **Modernisations** of lines
- **HSL** introductory **works**
- Construction of **municipal access lines to airports**
- **Rehabilitation investments**
- Rail **stations modernisation**

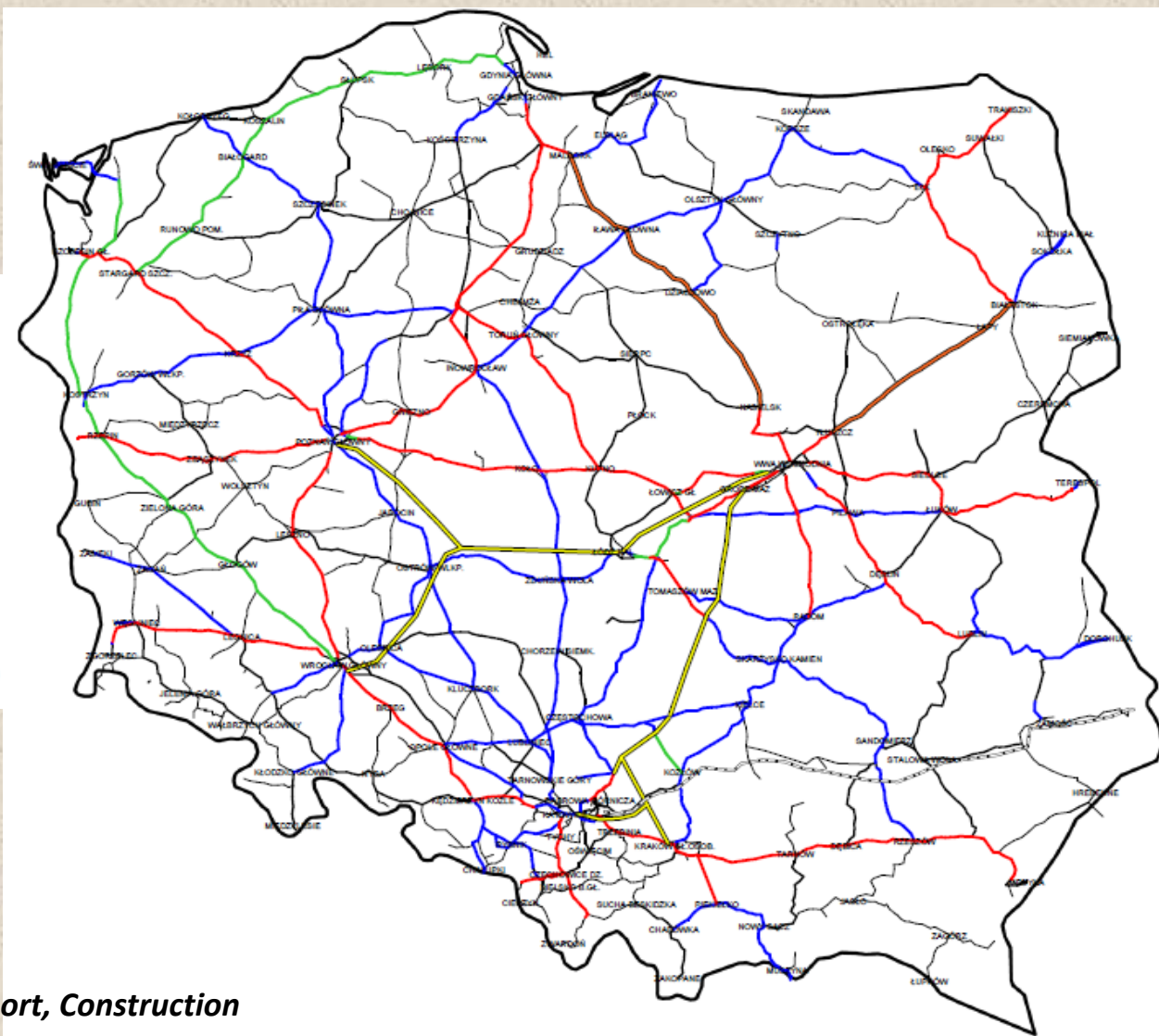




Speed in 2030 perspective ...

Prędkość w roku 2030

- do 80 km/h
- 81-100 km/h
- 101-120 km/h
- 121-140 km/h
- 141-160 km/h
- 161-200 km/h
- powyżej 200 km/h
- linia LHS (80 km/h)

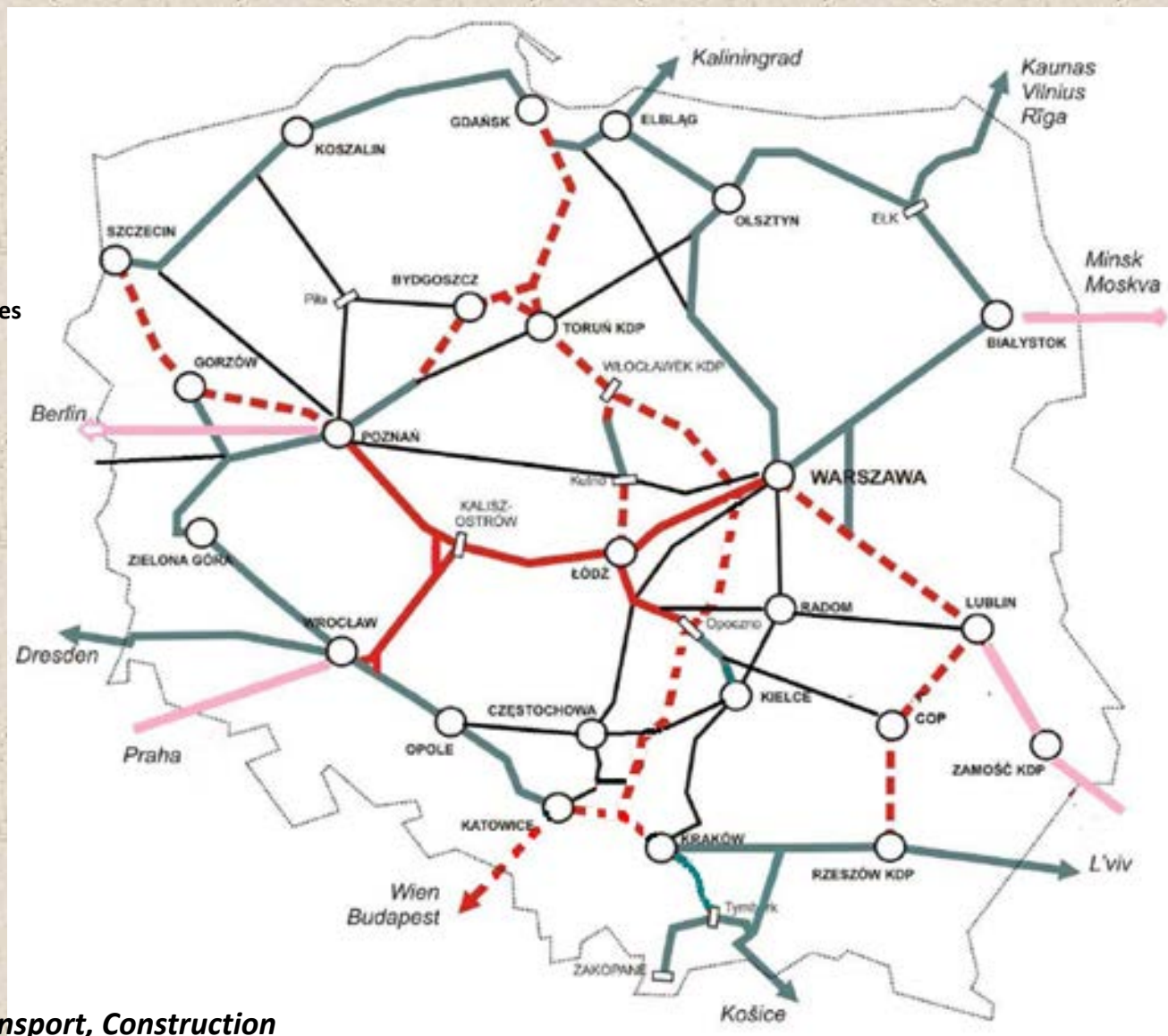


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Preliminary HSL concept - up to 2050

- HSL – 2030 horizon
- HSL – further horizon
- HSL to be agreed internationally
- Other modernised conventional lines
- basic network



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Preparing HSL

Warszawa – Łódź – Poznań / Wrocław

- On-going HSL feasibility studies
- Connections with conventional lines

Parameters:

- V max – 350 km/h
- power supply – 2 x 25 kV AC, 50 Hz
- standard – European (TSI HS)
- trip durations:
 - Warszawa – Łódź: 35 ‘
 - Warszawa – Poznań: 1h 30 ‘
 - Warszawa – Wrocław: 1h 50 ‘



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HSR expectations and context ~2030



Connection	Present journey time	Expected HSR journey time (including journey time on modernised conventional lines)
Warszawa – Łódź	1:30	0:35
Warszawa – Poznań	2:45	1:30
Warszawa – Wrocław	5:00	1:50
Warszawa – Szczecin	5:30	3:15
Łódź – Poznań	3:15	1:00
Łódź – Wrocław	4:00	1:00
Łódź – Szczecin	5:45	2:45
Kraków – Poznań	8:30	3:00
Białystok – Wrocław	8:30	3:15
Rzeszów – Poznań	8:15	4:45

European HS Network

Forecasting 2025



Amendment to the European map – extensions from Poland (Poznań - **Berlin** & Wrocław – **Prague**) ~ 2030 horizon; TEN-T framework



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Added value for TER project - connecting region

Declaration of infrastructure ministers of Visegrad Group - HSR network in Central Europe, 20 April 2010

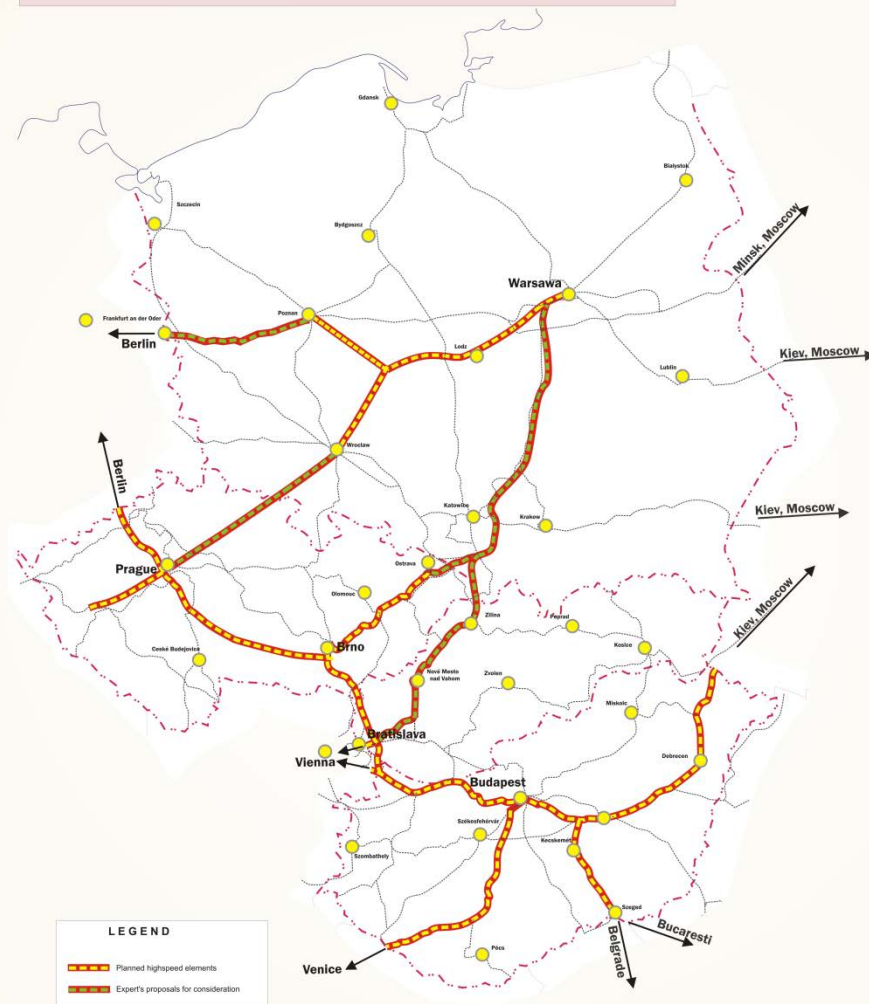
Further actions:

- **consultations with Czech Republic, Slovakia and Germany and Hungary**
- **development of common studies to choose final route of new lines**
- **application of proposal to extend chosen lines into TEN-T core network**



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Perspective Plan of High Speed Rail Network of V4 Countries (working paper)





High Speed Railways
are our common challenge
and chance ...

Thank you for your
attention



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