Transport infrastructure in Poland further southward and eastward

dr Marcin Wolek **proTran** Gdynia, Poland <u>mwol@wp.pl</u>

Karlskrona, 19.03.2014

Structure of the presentation

- About PROTRANS
- Introduction to Polish economy
- Railway freight market in Poland
- Port of Gdynia with its hinterland
- Future projects
- Summary

About PROTRANS

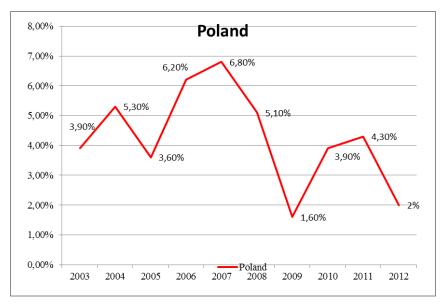
- Small consultancy company from Poland established in 2010;
- Expertise in railway /intermodal market and sustainable mobility solutions;
- Worked for TETRAPLAN (DK), VECTURA (SE), DB Fernverkehr (DE), few Polish authorities and companies;
- Linking business and scientific view on transport matters.



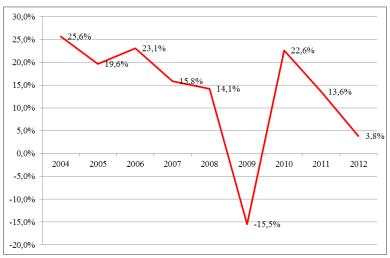
Available at:

http://www.deutschebahn.com/file/2598024/data/competition_report_2012.pdf

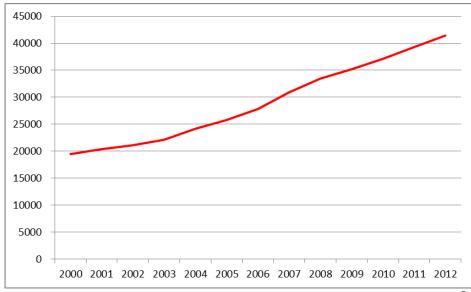
Introduction to Polish economy



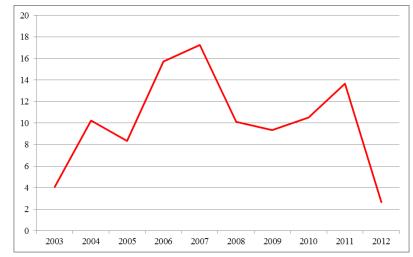
Annual rate of GDP growth 2001-2012



Dynamics of Polish export



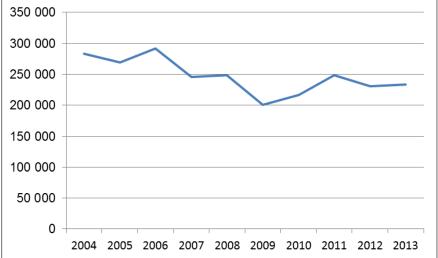
GDP per capita in Poland between 2000- 2012 [ZLP]

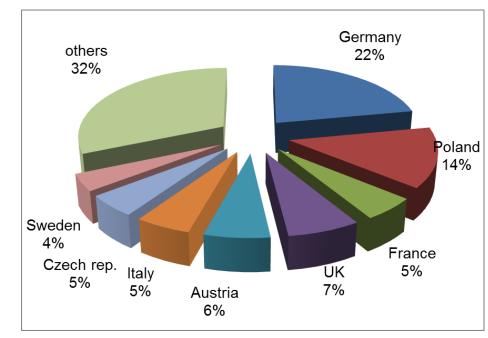


FDI in Poland between 2000- 2012 [bill. EUR]

Freight railway market in Poland: strong within EU markets

- Polish freight railway market is second in EU next to German with ca. 14% of tonnes by rail;
- Stable volume since 2004, hit by crisis of 2009 and stable recovery;
- 233 mio. tonnes in 2013;
- 50 870 mio. ton-kms;
- Ratio tonn-kms/train-kms in 2013: 685.



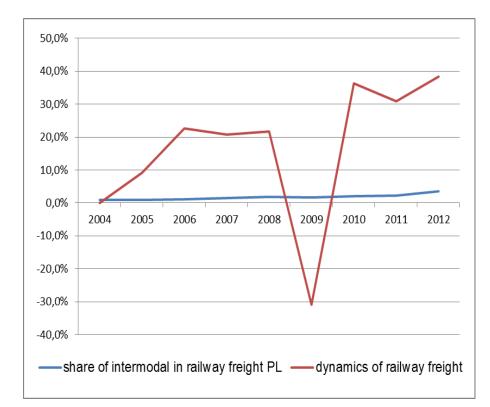


Source: own calcualtion based on EUROSTAT data for 2012



Freight railway market in Poland: with dynamic intermodal segment

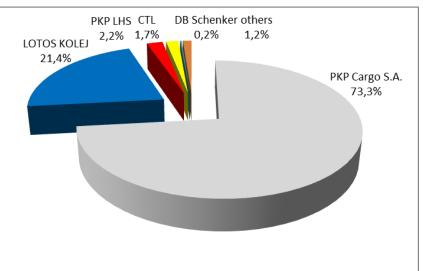
- Dynamic growth of intermodal freight between 2004 and 2013;
- The volume tripled between 2005 and 2012;
- Still relatively low share in freight volume 3,5% in 2012 and 6,2% in ton-kms;
- Few active operators and stakeholders on intermodal market;
- 8,6 mio. tonnes in 2013



Freight railway market in Poland: with dynamic intermodal segment

Challenges:

- Network of terminals should be improved;
- Potential capacity problems in few major nodes (mix of passenger and freight operations);
- Much more priority to fast freight needed;
- Model of financing of railway infrastructure manager;



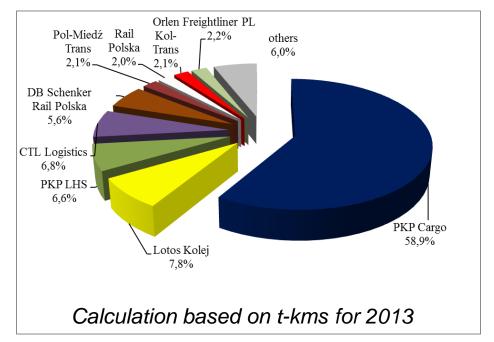
Strenghts:

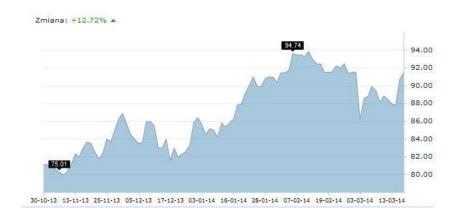
- Dense railway network;
- Majority of investments to be finished by 2015;
- PKP Cargo after restructurisation, few other active intermodal operators;
- Improved access to ports of Gdynia and Gdansk;

Freight railway market in Poland: main features

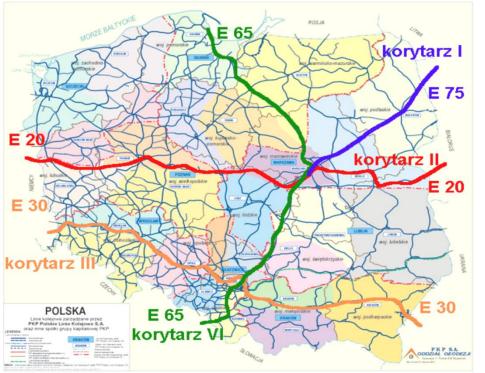
PKPCARGO

- Strong market position based on strenghtened economy;
- Limited prospects of growth in 2011-2014 due to vast construction works on main rail corridors;
- Dominated by bulk freight;
- Dynamic but still small share of intermodal freight;
- Few competitive freight operators;
- Transformation of biggest railway operator PKP Cargo into logistics operator with new organisational structure;
- Prospects for growth: January 2014 / January 2013: +3,5% in ton-kms.





Railway infrastructure



Source: PKP S.A. and PKP PLK S.A.

- Ca. 20 thous. kms;
- 540 kms of railway with 1524 mm (Silesia to Ukrainian border operated by PKP LHS);
- Steady improvement of railway infrastructure in main TEN-T corridors + some regional / national lines;
- Different categories of investments, including substantial improvement of technical parameters as well as revitalisation of existing infrastructure.

Road and rail: under big reconstruction

Rail infrastructure

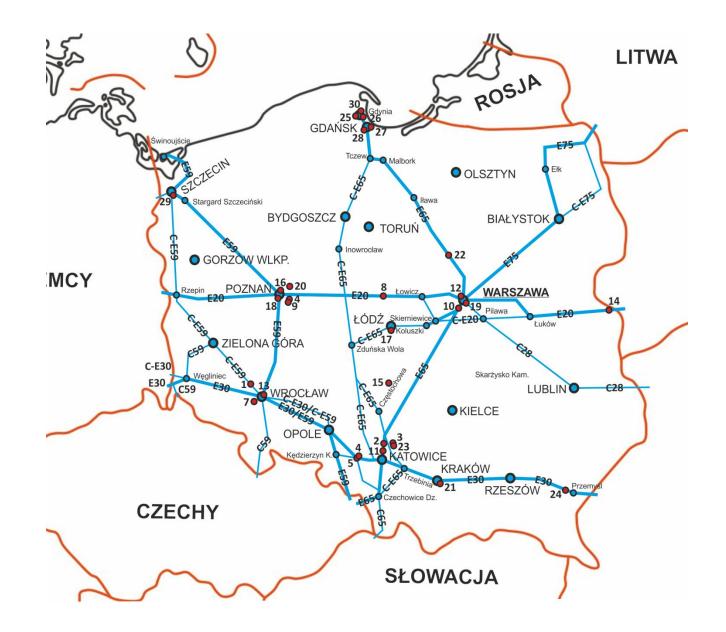
Road infrastructure





Source: PKP PLK S.A. and GDDKiA

Clusters of interrmodal terminals in Poland

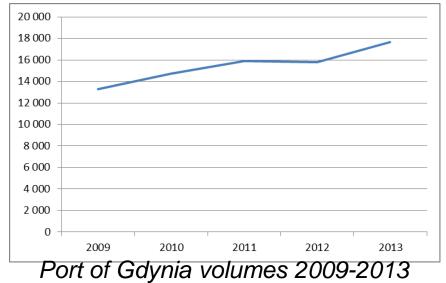


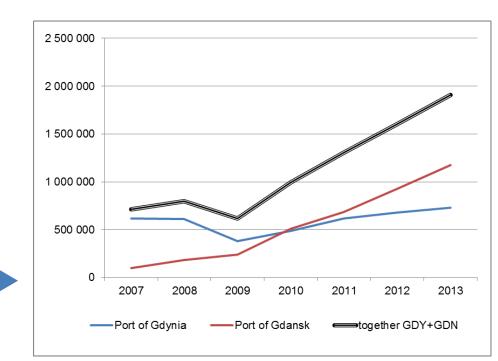
Container (r)evolution

- Dynamic growth of volume in intermodal;
- Growth is accompanied by investments of:

1. Gdynia's Port Authority (turntable basin, deepening the channel, finalising ro-ro project), 2. terminal operators (investments in terminals, new location for ferry terminal), and railway infrastructure 3. manager PKP PLK S.A. (modernisation of freight railway station Gdynia Port - ca. 150 mio. EUR, feasibility study just started).

TEU in Ports of Gdansk and Gdynia between 2007 and 2013





Summary

- Strenghtening of hinterland infrastructure creates a very good opportunity for Port of Gdynia;
- There is a strong partnership in investments strenghtening port's potential between Port of Gdynia Authority, terminal operators and railway infrastructure manager;
- Intermodal segment of railway freight market is strongly influenced by volumes of ports of Gdansk and Gdynia;
- Potential on N-S axis still awaits for full consumption: after 2014 an improvement of travel time and capacity is expected;