

PACITA

Technology assessment in policy areas of great transition

Smart infrastructure for Competitiveness

Rut Bízková
Prague 15th March 2013

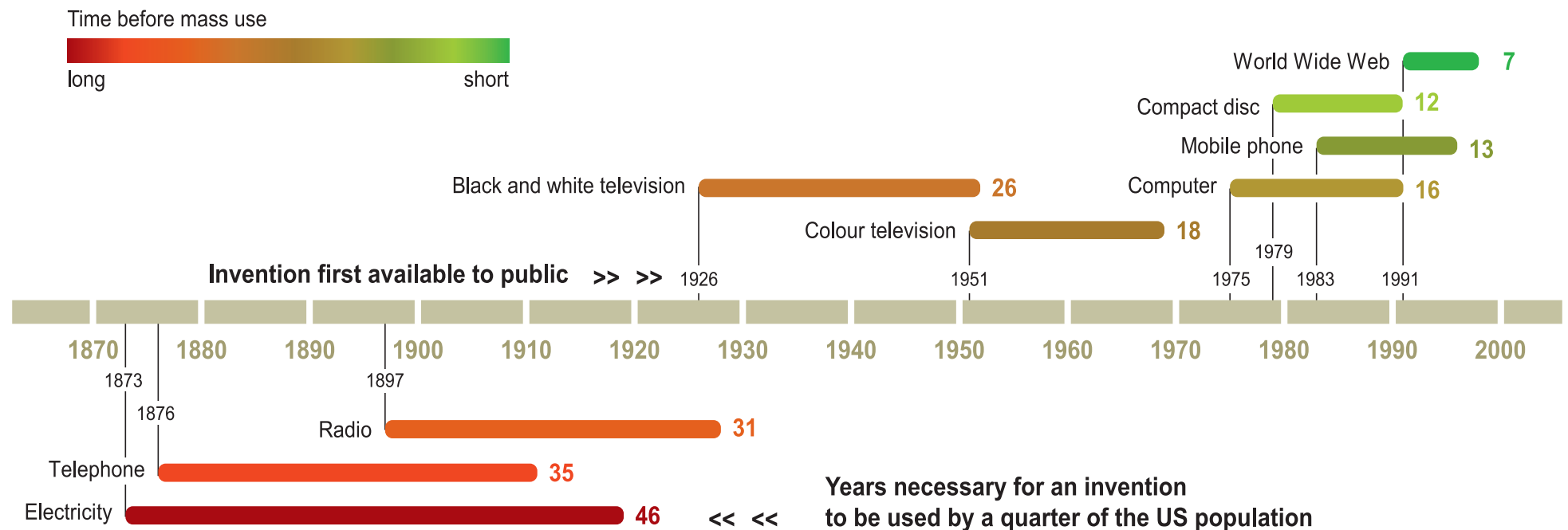


Content:

1. Introduction
2. Megatrends – prediction of the future development
3. Czech Republic – an example of the changing world
4. Smart cities
5. Examples from the Czech Republic – Projects funded by TA CR related to the smart technologies

Figure 1:

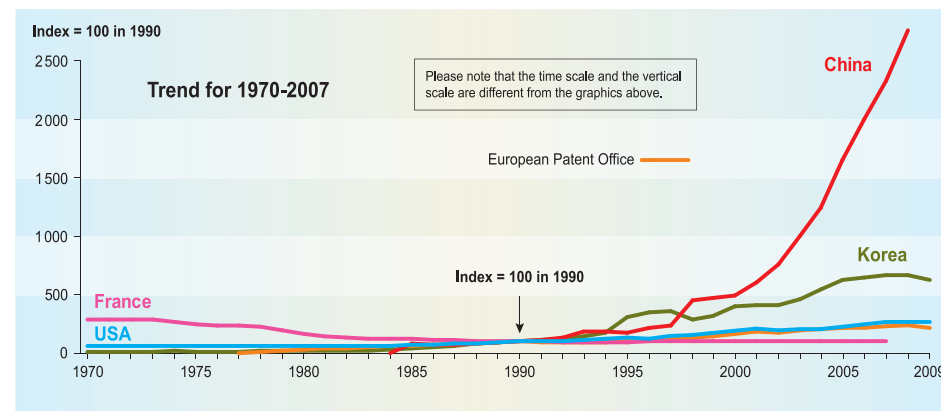
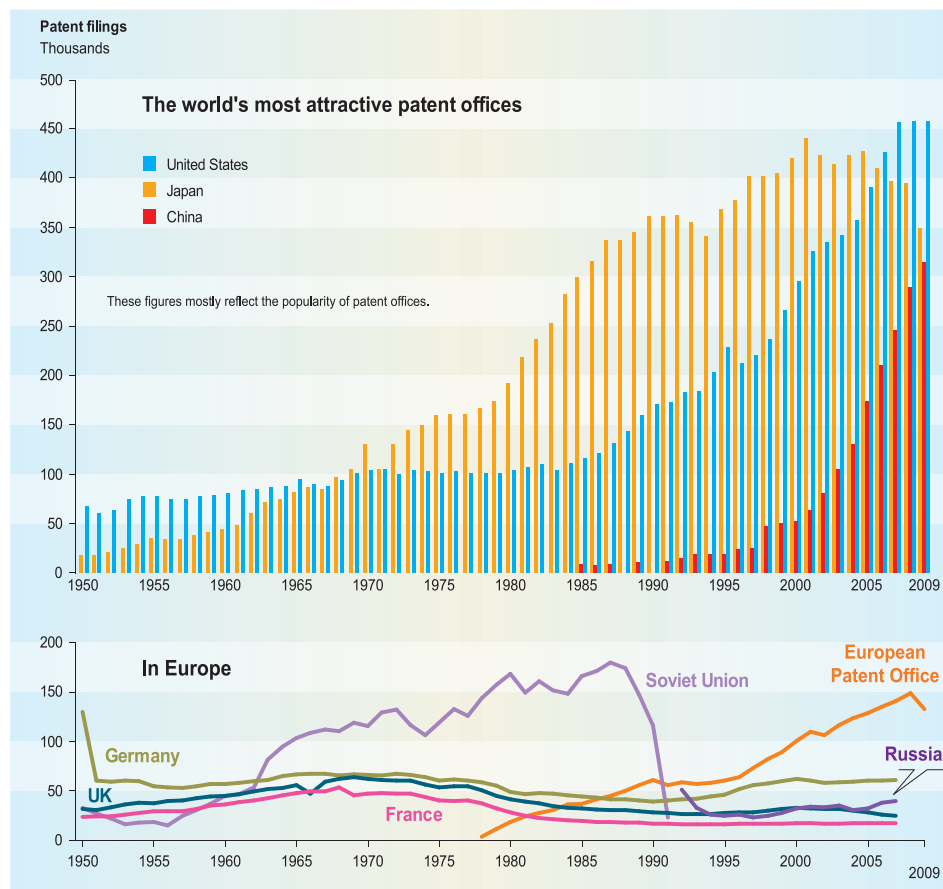
Shortening time lapse before mass use
of technological inventions (EEA 2010)



Source: Kurzweil R., 2005. The Singularity is Near: When Humans Transcend Biology.

Figure 2:

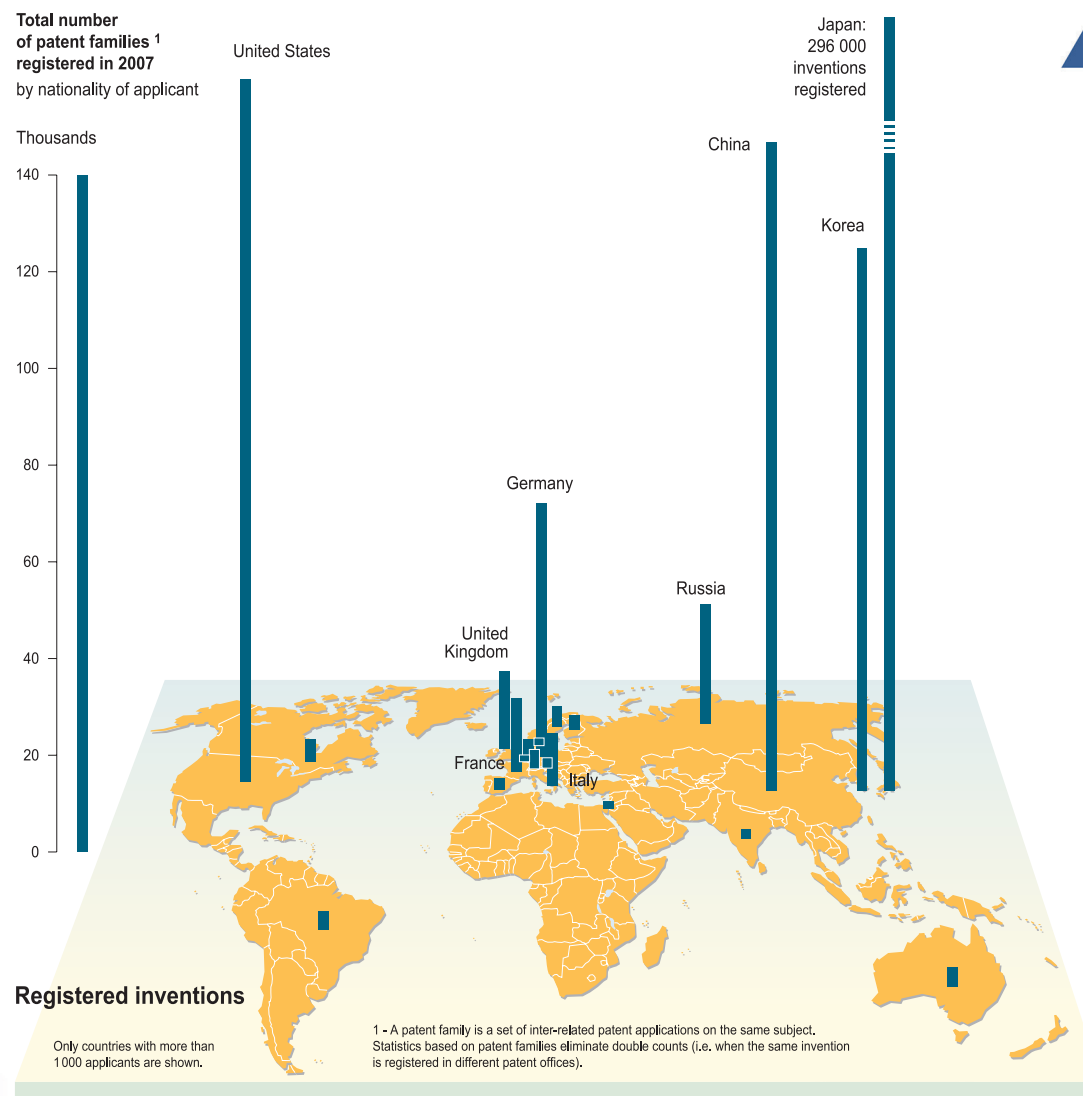
Patent registrations, 1950-2009 (EEA 2010)



Source: WIPO Statistic Database, 2009.

Figure 3:

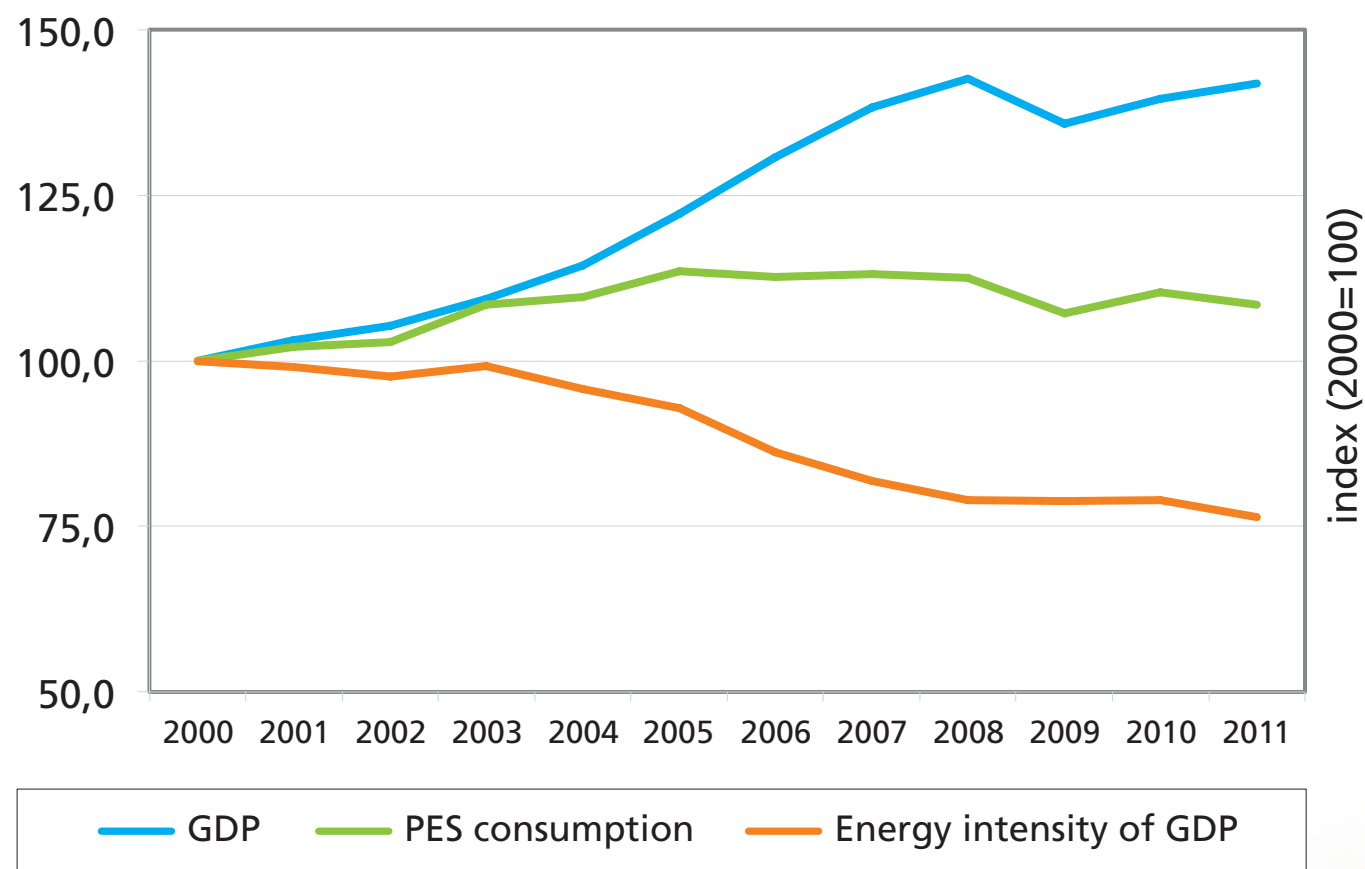
Number
of patents
registered
in 2007
(EEA 2010)



Source: WIPO Statistic Database, 2010.

Figure 4:

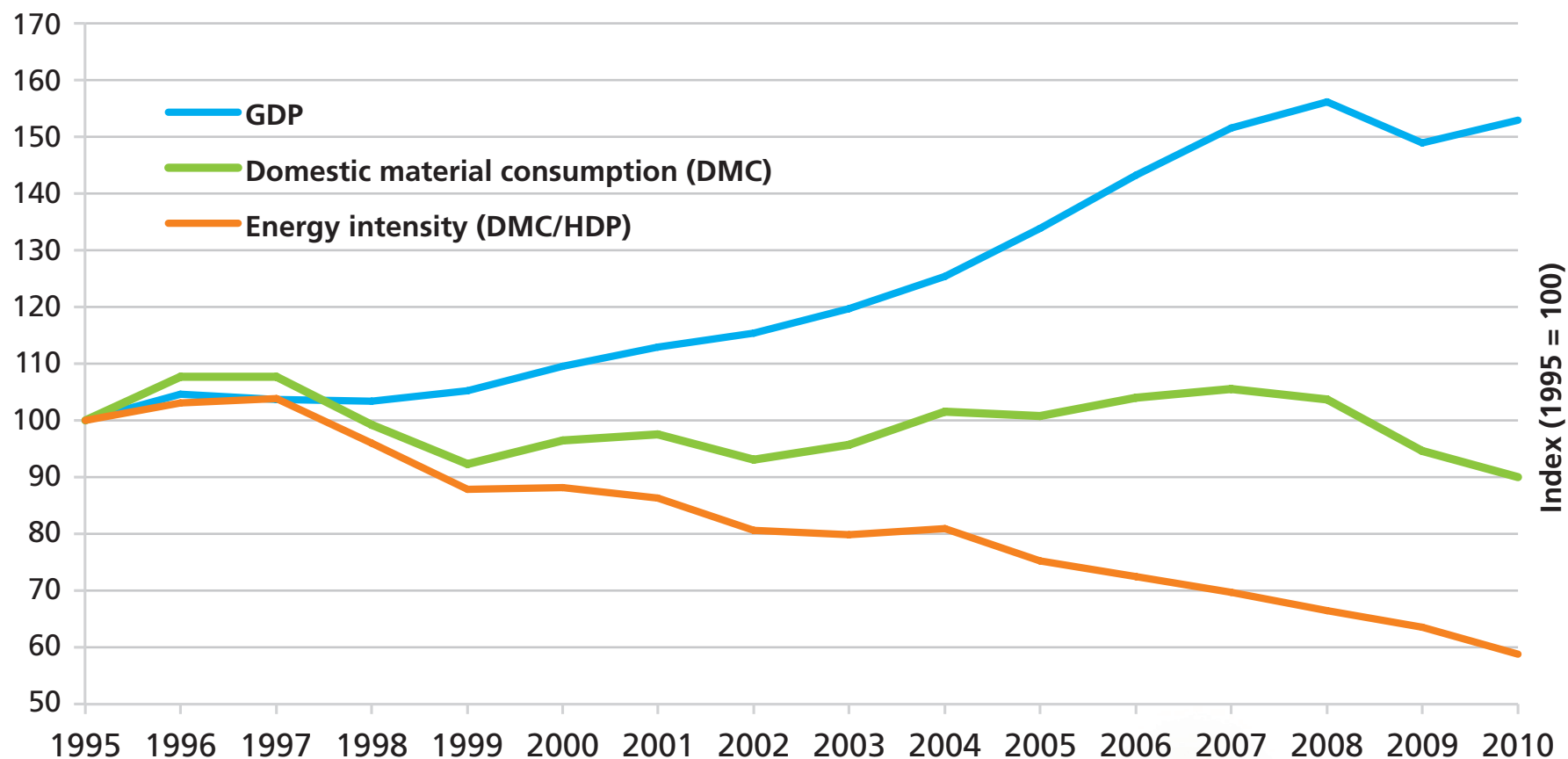
Energy intensity of the Czech economy



Source: Czech Statistical Office, Ministry of Industry and Trade

Figure 5:

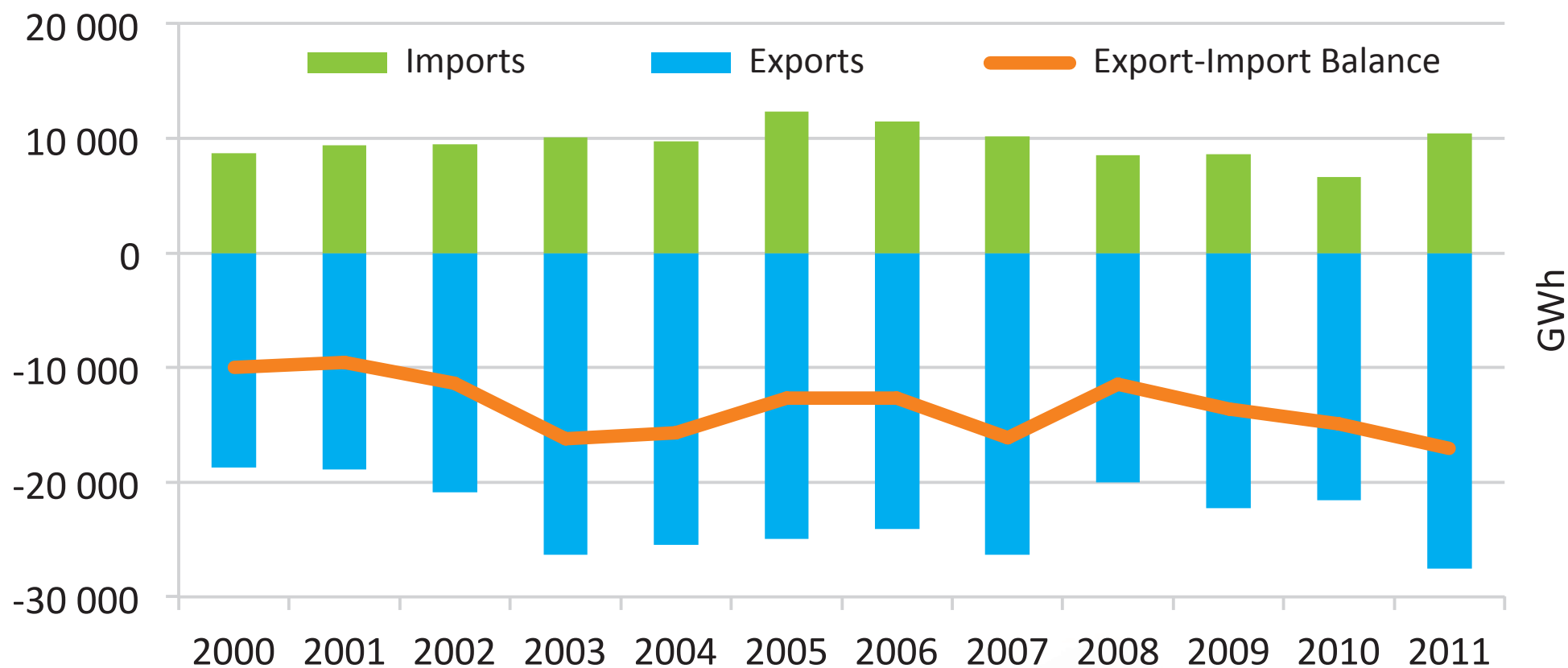
Resource intensity, consumption and GDP in the Czech Republic (1995=100)



Source: Charles University Environment Center

Figure 6:

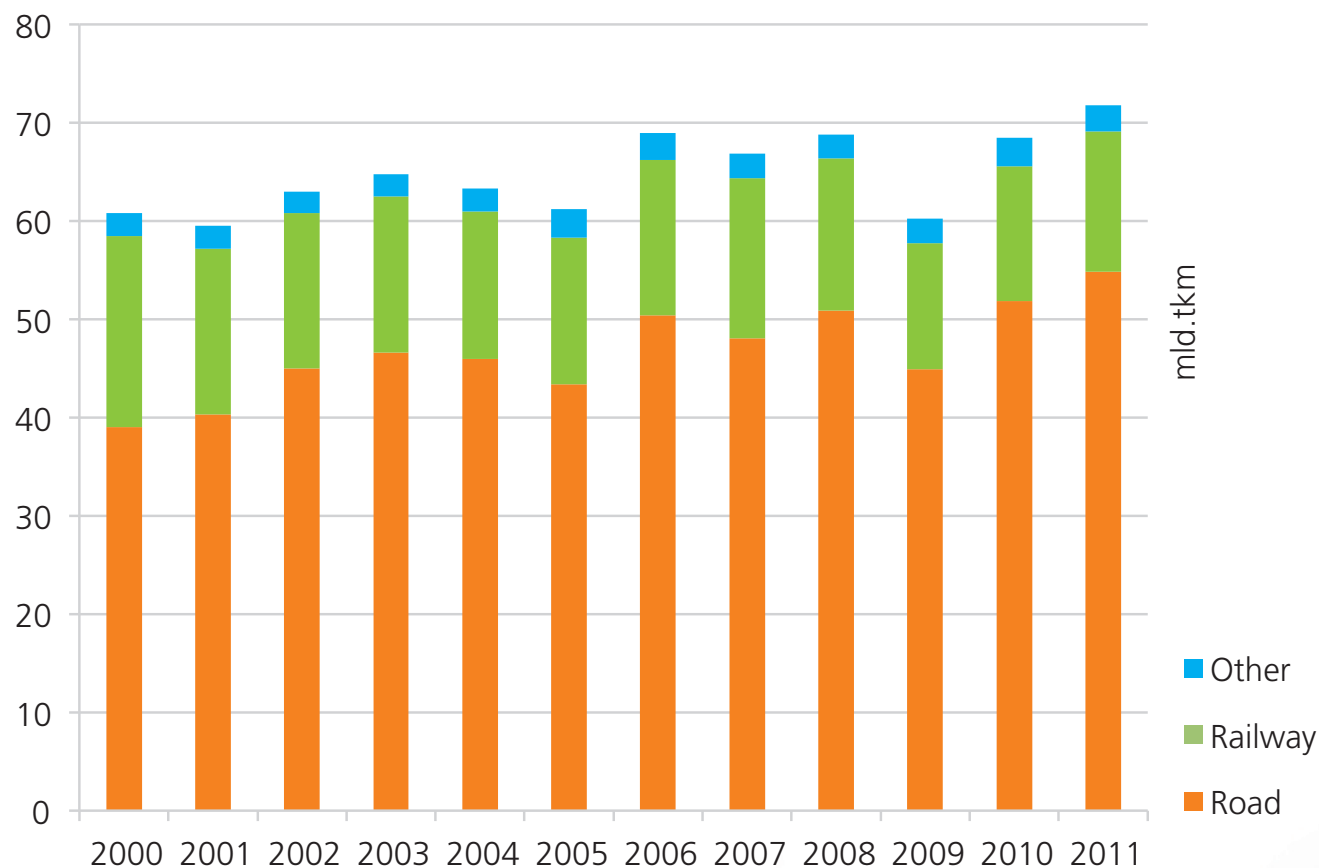
Export and import of electricity (TWh)



Source: Energy Regulatory Office

Figure 7:

Road transport of cargo in the Czech Republic (bln. ths. km)



Source: Ministry of Transport

Figure 8:

European gas distribution system

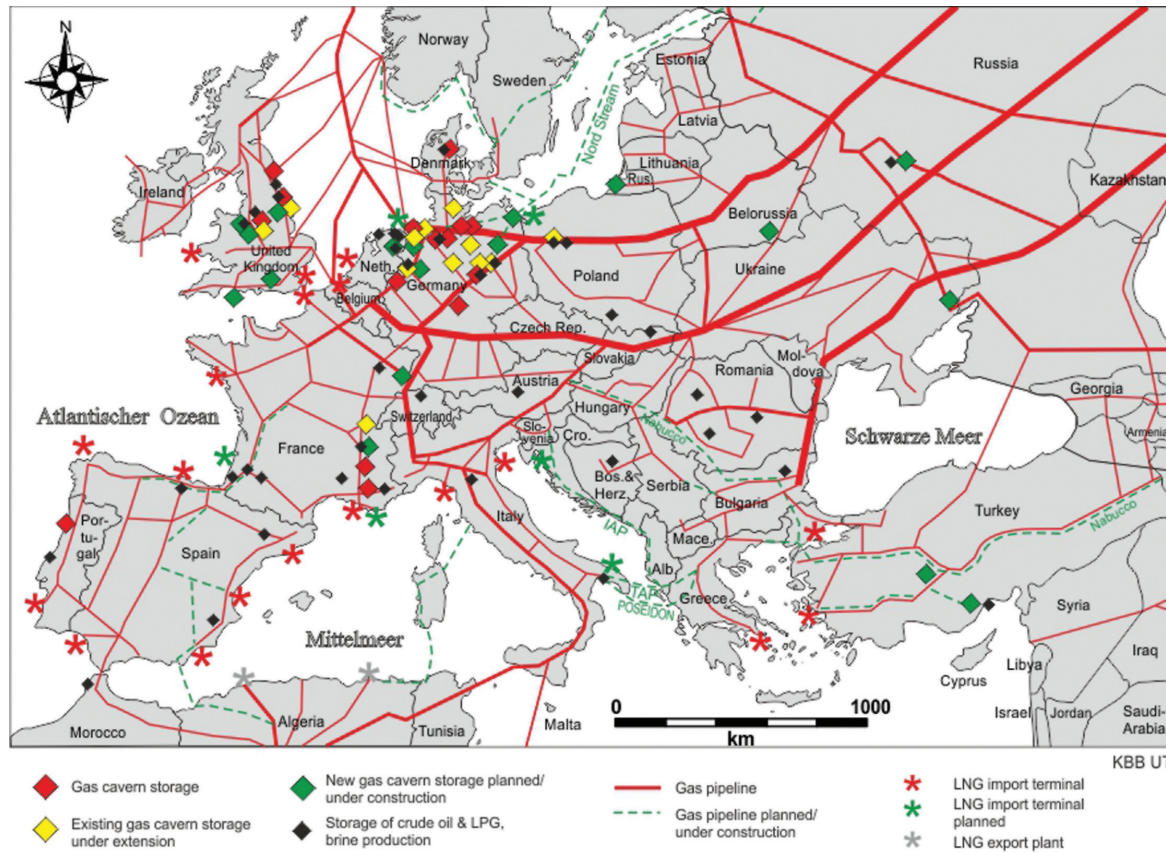
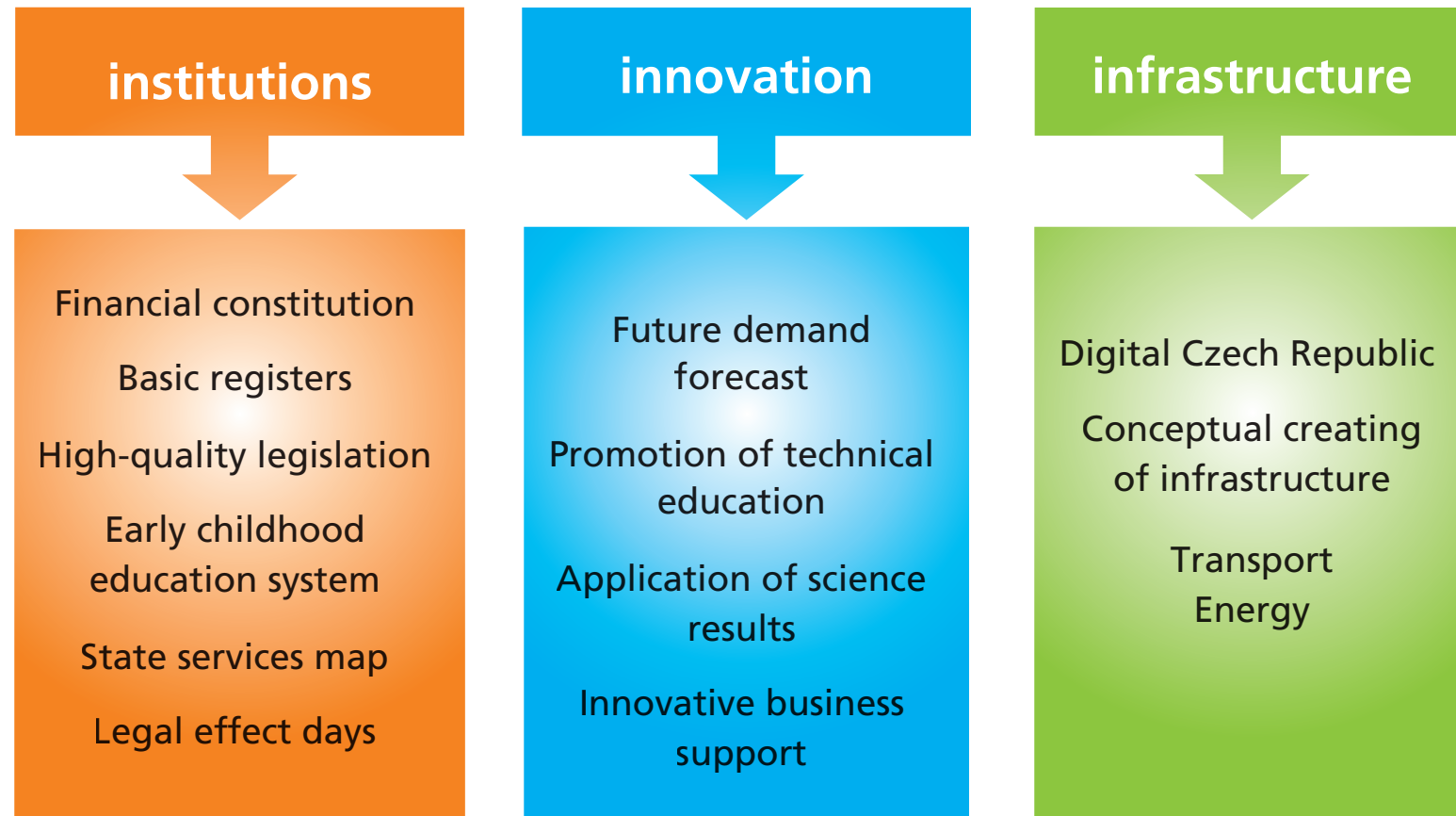


Figure 9:

3i – Strategy of International Competitiveness



Source: Ministry of Industry and Trade

Figure 10:

National Priorities of Oriented Research, Development and Innovations

- Sustainability of energy and resources
- Safe society



Figure 11:

The Smart cities concept and the three pillars

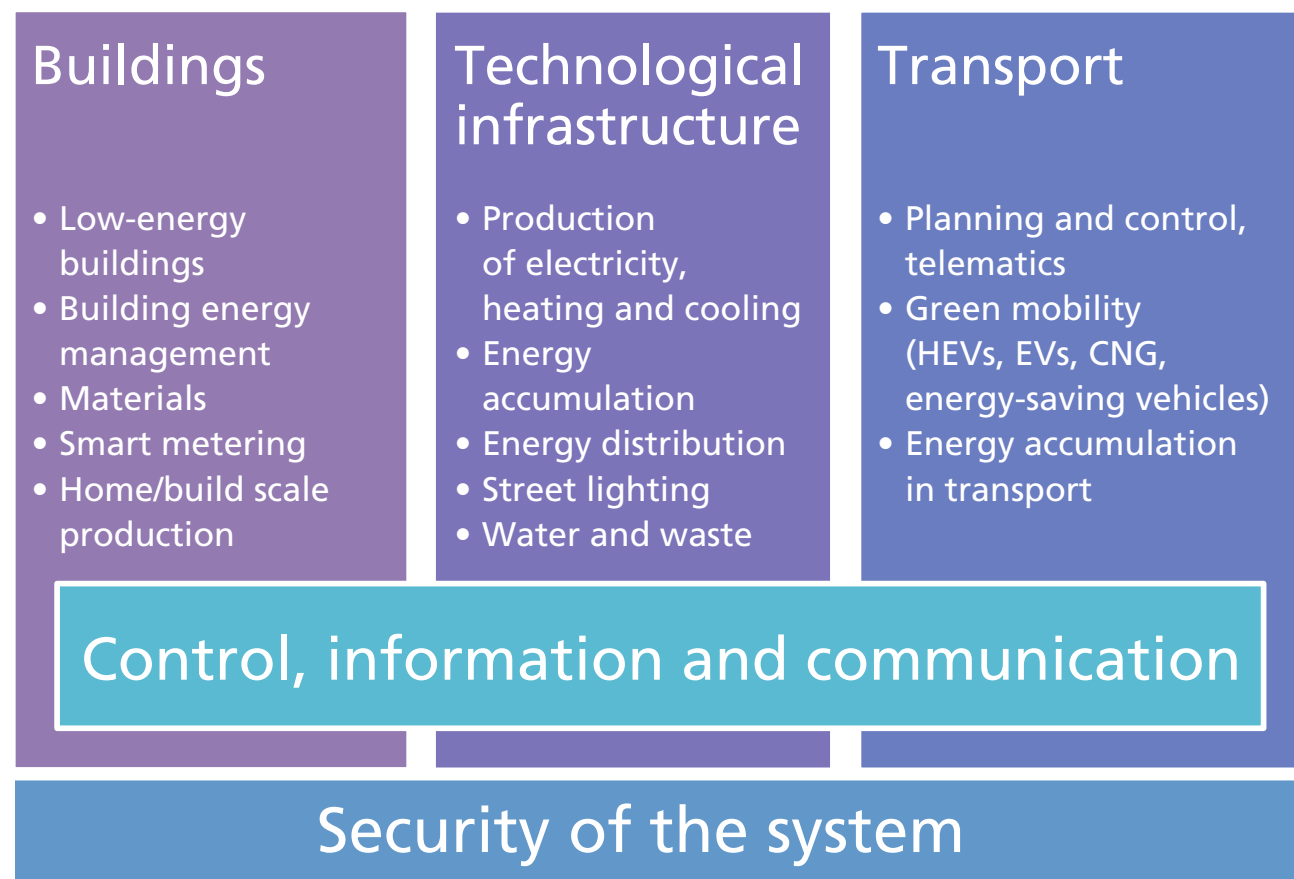


Figure 12:

Technology Agency of the Czech Republic:



Thank you for your attention!

Contact:

www.tacr.cz/en

e-mail: info@tacr.cz

Address: Evropská 2589/33b, 160 00 Prague 6

Telephone: +420 234 611 111

Fax: +420 234 611 112