



Rebuilding the Transatlantic Bridge: U.S. – Polish Cooperation on Science, Technology, and Innovation.

Strategic Approach - Innovation in Poland's Regional Transport System Development

The Małopolskie Region Case

Anna Dąbrowska, Prof. Adam K. Prokopowicz

Małopolskie Voivodship

Members of the Marshal of the Małopolskie Advisory Council

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Poland's Transport System

The major limitation in increasing regional economic growth

- Poland's **outdated road transport** infrastructure needs serious modernization
 - The most dangerous roads in EU
 - Autostrada (interstate)
 - City bypasses and city road transport systems
- Poland needs to **modernize the entire rail infrastructure** (70 percent lines)
 - Major lines for passenger traffic, alternative routes for freight
- Insufficient number and quality of **regional airports**
- Significant needs for investment in **sea ports**



Needs for Improvements and Regional Transport Planning and Development

- „ With no improvements in transport system there will be no 5 percent GDP growth
- „ Decentralization of government
- „ Voivodships must take initiative in regional transport and infrastructure planning
- „ Only five voivodships have strategies for transport and infrastructure



A call for ***Innovative Approaches and New Planning Techniques***

- n **Funding sources**
 - EU funds
 - National (budget funds)
 - Advanced financing techniques
 - Public Private Partnership (PPP) or Private Investment
- n **Intermodal Approach**
- n **A compromise between passenger and freight needs**



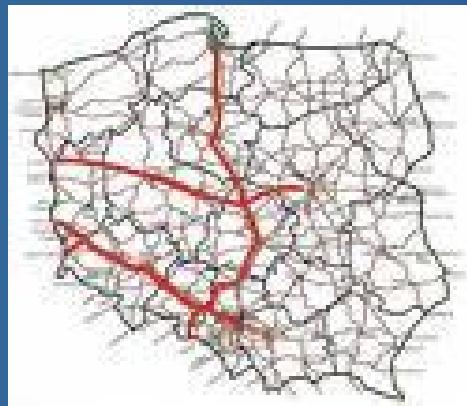
Needs for Improvements and Regional Transport Planning and Development

- U.S. is a natural partner for Poland in developing regional transport and infrastructure plans and innovative approaches for regional development
- In the U.S.:
 - All states have transport master plans
 - States decide about majority of funding
 - States developed decentralized and unique approaches

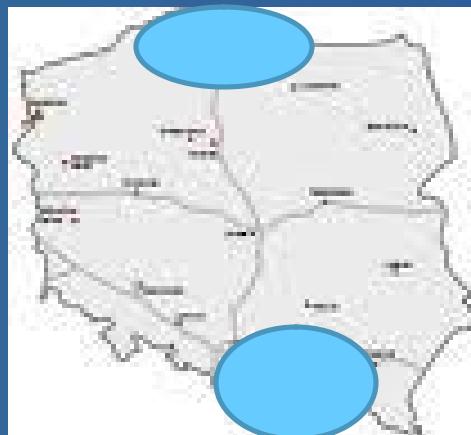


Małopolskie and Pomorskie Voivodships Test grounds for Poland – U.S. Cooperation in Transport and Infrastructure

Road



Rail





Status Quo

- Małopolskie started developing transport and infrastructure plan
 - Strategic assumptions
 - Investment plan
 - Financial plan
- Pomorskie (Pomerania) has a basic plan (with no implementation schedule)



The Małopolskie Case: A tangible example for using the U.S. innovative approach

- n Louisiana and Texas methodology for transport and infrastructure planning was used
- n The U.S. university research center participates in a consortium advising the Marshal of the Voivodship (UNO)
- n The U.S. planning and infrastructure methodologies have been adjusted to Poland's and Małopolskie needs



The Małopolskie Case

Assumptions and major methodology elements

- n A detailed review of past difficulties and problems
- n Assessment of effectiveness of project development for 2007-2013
- n Evaluation of existing funding options and mechanisms
- n Compatibility with EU and national policies



The Małopolskie Case

Assumptions and major methodology elements

- „n Demand assessment using U.S. methodologies focused on primary data evaluation
- „n Assessment of existing transport services versus demand (*quality and quantity*)
- „n Development of strategic assumptions



The Małopolskie Case

Assumptions and major methodology elements

- „n Building industry and social consensus and support
 - Stakeholders consultations
 - Counties (powiat) consultations
 - Voice of citizens
 - Consultations within regional government
- „n Evaluation of social expectations against available means and funds



The Małopolskie Case Assumptions and major methodology elements

- „n Development of an **investment plan**
- „n Development of a **financial plan**
 - EU funds
 - Transport trust funds
 - PPP and other innovative funding techniques (revenue securitization, regional infrastructure bonds)
- „n Development of an **implementation plan** (2010-2013, 2014-2020, 2021-2030) – project by project



The Małopolskie Case ***Assumed advantages and results***

- „ Best available **social support** of infrastructure development and construction
- „ Planned and **orderly development**
- „ Coordination with **economic development strategies** and objectives
- „ Maximum **funds utilization** (largest possible bang for the buck)



The Małopolskie Case

Support of innovative transport technologies

- n Hybrid and electric cars in tourist areas
- n Increased role of public rail transport – High Speed Rail and regional rail services
- n Environment friendly engineering solutions
 - Road system in the Zakopane region
- n Computerized systems of traffic and transport demand management
- n Intelligent Transport Systems
- n Provision for efficient freight transport with limited environmental impact



Options for cooperation Practical measures and tools for U.S. – Poland cooperation

- Małopolskie and Pomorskie – **test** for regional transport and infrastructure development using Poland-U.S cooperation
 - Funding
 - Technologies
 - Data and traffic management
 - Forecasting methodologies
- Participation of **regional higher education institutions**
 - Technologies
 - Management
 - Joint research programs



Practical measures and tools for U.S. – Poland cooperation

- n Intensive involvement of **the private sector**
 - Provision of engineering and management solutions
 - Provision of sophisticated techniques and technologies
- n **NGOs** – a link among self-governments, the private sector and citizenry to prepare project proposals and implementation.
- n Involvement of **Poland's Academy of Science and university research funding:**
 - Transport Committee of PAN
 - Proposals for related university research projects
 - Agenda for cooperation with the U.S Transport Research Board
- n Development of an **Implementation Plan** by April 2010.



Regional Transport Planning and Development U.S. – Poland Cooperative Options

Thank you for your attention!