



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

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Poland's Transport System

The major limitation in increasing regional economic growth

- n Poland's **outdated road transport** infrastructure needs serious modernization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



Needs for Improvements and Regional Transport Planning and Development



- n With no improvements in transport system there will be no 5 percent GDP growth
- n Decentralization of government
- n Voivodships must take initiative in regional transport and infrastructure planning
- n 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

- n **U.S. is a natural partner** for Poland in developing regional transport and infrastructure plans and innovative approaches for regional development
- n **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



- n Małopolskie started developing transport and infrastructure plan
 - Strategic assumptions
 - Investment plan
 - Financial plan
- n 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 **Compatability** 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***

- n Best available **social support** of infrastructure development and construction
- n Planned and **orderly development**
- n Coordination with **economic development strategies** and objectives
- n 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***

- n Małopolskie and Pomorskie – **test** for regional transport and infrastructure development using Poland-U.S cooperation
 - Funding
 - Technologies
 - Data and traffic management
 - Forecasting methodologies
- n 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!