

Promoting **electric** public transport

Trolley

Possibilities for funding trolleybus transport development from European funds

Wolfgang Backhaus
Rupprecht Consult GmbH,
Project Management TROLLEY

Brno, 10 February 2011

map by © (2010) data2map.at



This project is implemented through the CENTRAL EUROPE Programme co-financed by the ERDF



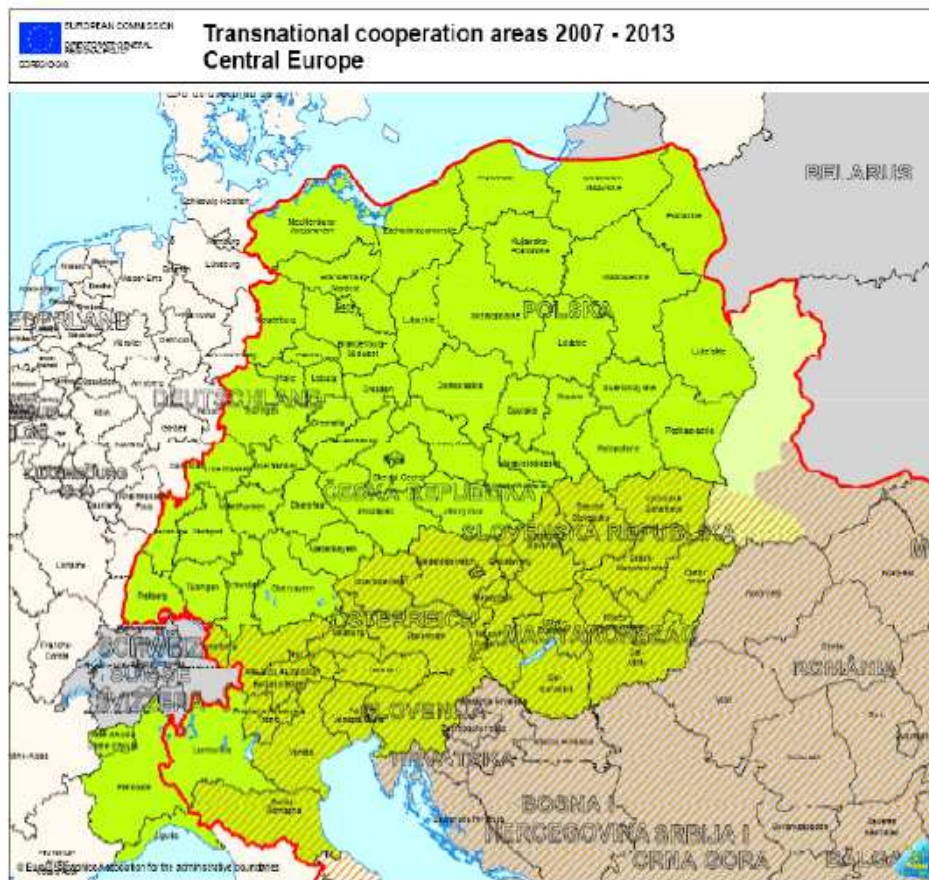
Outline

- ▶ **Funding of pre- and innovative pilot investments**
- ▶ Funding of technical assistance for investments
- ▶ Funding of „soft measures“ for trolleybus operators and authorities

- ▶ 12 committed professionals
- ▶ Focus on **developing European projects** with cities & regions
- ▶ Connecting innovative people & ideas
- ▶ **Mobility & environment** are **key topics**
- ▶ Helped to develop projects worth 130 million € in the last 5 years
- ▶ **Our services:**
 - ▶ Proposal preparation and project management
 - ▶ Scientific evaluation and assessment of project impacts
 - ▶ 'Best Practice' market studies and mainstreaming of know-how
 - ▶ Dissemination of project results
 - ▶ Independent project monitoring

Funding of pre- and innovative pilot investments

The CENTRAL EUROPE Programme: www.central2013.eu



8 MS + 1 NMS
Poland
Germany
Czech Republic
Slovakia
Hungary
Slovenia
Italy
Austria
+
Ukraine

Budget: total: 298,3 Mio €
ERDF: 246,0 Mio €

Funding of pre- and innovative pilot investments



Funding Priority: Improving accessibility to, and within, Central Europe:

- ▶ **Promoting sustainable and safe mobility**

Programme characteristics:

- ▶ **Transnational thematic focus** (e.g. sustainable urban transport)
- ▶ **Coherent approach**
- ▶ **Transnational partnership** (at least 3 partners from the programme are countries)
- ▶ **Effective management**
- ▶ **Effective knowledge creation and transfer**
- ▶ **Concrete outputs and results**

Funding of pre- and innovative pilot investments



What can be funded:

- ▶ **Staff costs**
- ▶ **Administration costs** (direct and indirect costs)
- ▶ **External expertise**
- ▶ **Travel and accommodation**
- ▶ **Meetings and events**
- ▶ **Promotion costs**
- ▶ **Equipment**
- ▶ **Investments (Infrastructure, equipment and works)**
- ▶ **Other**

Funding of pre- and innovative pilot investments



What can be funded:

- ▶ **Pre-investment** refers to the **preparation of investments** (Type of Action "Investments Preparation") later to be funded through complementary sources.
- ▶ **Pilot investments (Type of Action: "Pilot Action")** demonstrate the viability and effectiveness of an investment in order to pave the way for subsequent investments at a larger scale. The results of the pilot investment should be transferable and the transfer of results should form part of the project.

Funding of pre- and innovative pilot investments



What can be funded:

- ▶ Only costs clearly linked to **Pilot Actions** are to be included as investments. These **include infrastructure works, equipment etc.**
- ▶ Costs may refer either to an **investment** that will be **set up ex-novo** or to adapt an already **existing infrastructure**.
- ▶ Public procurement rules are to be followed when awarding contracts for works.
- ▶ Projects from **1 to 5 Mio €** with **8 to 12 partners**
- ▶ **Funding rates: 75%** (Austria, Germany, Italy), **85%** (Czech Republic, Hungary, Poland, Slovakia, Slovenia)

Funding of pre- and innovative pilot investments



Who can be funded:

- ▶ **National, regional and local public authorities**
- ▶ **Public Equivalent Bodies**
- ▶ **International Organisations** under national law /
Under international law
- ▶ **Private institutions including private companies**

Lead Partner can only be (have to be located in the EU CENTRAL EUROPE area)

- ▶ **Public authorities**
- ▶ **Public Equivalent Bodies**
- ▶ **International Organisations**

Funding of pre- and innovative pilot investments



Examples from the TROLLEY project:

- ▶ **Study on Realisation of Trolleybus Corridor** (Szeged, investment pilot action)
- ▶ **Network Extension to the Agglomeration** (Salzburg, external experts, feasibility study)
- ▶ **Tests of off-board supercapacitors** (Eberswalde, investment pilot action)
- ▶ **Tests of on-board supercapacitors** (Parma, investment pilot action)
- ▶ **Study on Urban Network Extensions** (Brno, external experts, feasibility study)

Funding of pre- and innovative pilot investments



The CIVITAS - **C**ity-**V**ITAality-**S**ustainability Programme (FP7)

Funding priorities: www.civitas-initiative.org

- ▶ **Innovative, clean, energy efficient vehicles** for integrated transport systems for personal, collective and freight applications (*e.g. innovative parts of trolleybuses*)
- ▶ **Deployment of ICT and ITS** for traffic management, vehicle guidance, accident avoidance, passenger information, road pricing and smart payment systems (*e.g. trolleybus-to-wayside communication/ signalling systems*)
- ▶ **Sustainable urban transport planning (SUTP)**, land-use with innovative transport systems (*e.g. plans for establishment of trolleybuses by Bus Rapid Transit*)

Focus on innovation!

Funding of pre- and innovative pilot investments



Programme characteristics:

- ▶ **City-led consortia** : Co-ordinator must be leading city (with strong political commitment and SUTP)
- ▶ **Up to 2 leading and up to 2 learning cities** from EU27 or associated states (e.g. Switzerland, Croatia)
- ▶ **Each city** should be **in a different EU member** or **Associated State**
- ▶ "Leading" and "learning" cities must **share objectives for implementing and evaluating** similar, innovative, **integrated packages of transport measures**
- ▶ Include **other partners** to **implement** and **evaluate** measures and **disseminate** results

Funding of pre- and innovative pilot investments



What can be funded:

- ▶ Only direct costs clearly linked to **project activities**.
- ▶ Projects from **6 to 18 Mio € funding** with **12 to 40 partners**
- ▶ Large scale infrastructure investments **will not be co-financed**; co-financing of infrastructure and equipment **limited to innovation element** (e.g. fast charging stations for ebuses)
- ▶ **Funding rates:**
 - ▶ **Research activities** (e.g. feasibility study): 50 to 75%
 - ▶ **Demonstration activities** (e.g. test of ebuses): 50%
 - ▶ **Dissemination and Coordination activities:** 100%

Funding of pre- and innovative pilot investments



What can be funded:

- ▶ **Staff costs**
- ▶ **Indirect costs** (overheads)
- ▶ **Subcontracting** (external expertise, only limited)
- ▶ **Travel and accommodation**
- ▶ **Meetings and events**
- ▶ **Promotion costs**
- ▶ **Equipment** (only innovative parts, e.g. supercapacitors of trolleybuses)

Outline

- ▶ Funding of pre- and innovative pilot investments
- ▶ **Funding of technical assistance for investments**
- ▶ Funding of „soft measures“ for trolleybus operators and authorities

Funding of technical assistance for investments



ELENA - European Local ENergy Assistance:

www.eib.org/elena

Funding priorities:

- ▶ Energy efficiency and renewable energy in public and private buildings, public lighting and traffic light network, photovoltaics, heating/cooling systems;
- ▶ **Efficient urban transport, high-efficiency buses,** electrically powered cars, logistical improvements;
- ▶ Local energy facilities that support energy efficiency and renewable energy use for smart grids, **infrastructure for recharging electrically powered cars & buses,** information and communications technologies etc.

Funding of technical assistance for investments



Programme characteristics:

- ▶ Assistance granted on a **first-come first served** basis
- ▶ **ELENA beneficiaries:** local and regional authorities or other public entities, or groupings of such entities, incl. those subscribing to the Covenant of Mayors
- ▶ **Eligible countries:** EU27, Norway, Iceland, Liechtenstein and Croatia
- ▶ All or part of the investment programme may be implemented by bodies other than the above mentioned entities, **including private firms**
- ▶ **Duration of ELENA support:** up to 36 months

Funding of technical assistance for investments



What can be funded:

- ▶ Assist in the transition from preparing action plans to making investments (usually higher than 50 Mio €)
- ▶ **Leverage (minimum 25)** between the total investment costs of the investment programme supported and the total cost of the ELENA grant for technical assistance (thus, **2 Mio €** for technical assistance minimum, Elena facility is 15 Mio € annually)
- ▶ **Required information:**
 - ▶ Brief description of planned investment programme and implementation approach
 - ▶ Expected investment cost + development schedule
 - ▶ Amount, scope and main needs for technical assistance

Funding of technical assistance for investments



What can be funded:

- ▶ Cost of **additional personnel** hired by beneficiary
- ▶ **Market surveys** and **feasibility studies**
- ▶ **Energy audits**
- ▶ **Preparation of public calls for tender** and contracts
- ▶ Other technical assistance (TA), **excluding physical investments** (hardware).
- ▶ Funding rate: maximum of 90% of the cost of TA
- ▶ **Intended grant disbursement schedule:** 40% at start, 30% after validation of interim report, 30% after validation of final report

Funding of technical assistance for investments



Funding example:

- ▶ **Introduction of trolleybuses** (city is beneficiary)
- ▶ Objective: replacing public diesel buses with more energy efficient trolleybuses
- ▶ Preparatory activities: identifying replacement needs and type of trolleybuses
- ▶ **Support required from ELENA:**
- ▶ Additional analyses, in particular of operational risks associated with trolleybuses
- ▶ Selection of procedure implementation of investments
- ▶ Preparation of calls for tender and negotiations with bidders

Funding of technical assistance for investments



Intelligent Energy Europe – Mobilising local energy investments <http://ec.europa.eu/intelligentenergy>

Funding priorities:

- ▶ Public and private buildings
- ▶ Street and traffic lightning
- ▶ **Urban transport**
- ▶ Local energy infrastructure

Funding of technical assistance for investments



What can be funded (same criteria like ELENA):

- ▶ Assist in the transition from preparing action plans to making investments (usually higher than 8 Mio €)
- ▶ **Leverage (minimum 15)** between the total investment costs and the total cost of the IEE grant for TA (**400.000 €** for TA minimum)
- ▶ **Funding rate:** up to 75%
- ▶ **Deadline for submission:** 12 May 2011
- ▶ **Duration of IEE support for TA:** up to 36 months
- ▶ **Special conditions:**
 - ▶ Applicants must commit to CO₂ reduction targets
 - ▶ Minimum investment 6 Mio € within 36 months

Outline

- ▶ Funding of pre- and innovative pilot investments
- ▶ Funding of technical assistance for investments
- ▶ **Funding of „soft measures“ for trolleybus operators and authorities**

Funding of technical assistance for investments



Intelligent Energy Europe – Promotion and dissemination projects

<http://ec.europa.eu/energy/intelligent/>

Funding priorities:

- ▶ **Energy use in transport (STEER)**

- ▶ Clean & energy-efficient vehicles:

- ▶ assisting fleet operators and authorities with the **implementation of the Clean Vehicle Directive**
 - ▶ or addressing specific issues related to the **safety or eco-driving of clean and energy efficient vehicles**

Funding of technical assistance for investments



What can be funded:

- ▶ Costs for personnel, travel and consumables for international transfer of experience, promotion of best practices, education and training, creation of new standards and norms etc. (NO RTD or INVESTMENT)
- ▶ **Funding rate:** up to 75%
- ▶ **Partners:** EU27, Croatia, Norway, Iceland and Liechtenstein
- ▶ **Partnership:** from 3 to 20 partners (average 8 to 9)
- ▶ **Duration:** up to 36 months
- ▶ **Budget:** between 500.000 € and 2.5 Mio € (funding)
- ▶ **Call deadline:** 12 May 2011

Summary

- ▶ **Funding of pre- and innovative pilot investments**
 - ▶ www.central2013.eu
 - ▶ www.civitas-initiative.org

- ▶ **Funding of technical assistance for investments**
 - ▶ www.eib.org/elena
 - ▶ <http://ec.europa.eu/intelligentenergy>

- ▶ **Funding of „soft measures“ for trolleybus operators and authorities**
 - ▶ <http://ec.europa.eu/energy/intelligent/>



Thank you for your attention!

Wolfgang Backhaus

Tel.

+49 221 6060 55 19

eMail

w.backhaus@rupprecht-consult.de