REGIONAL STUDY OF SUSTAINABLE MOBILITY

THEMATIC: ELECTRIC MOBILITY

REGION: Silesian (Poland)
BEST PRACTICE 1

THE MODERNIZATION OF THE INFRASTRUCTURE OF THE TRAM AND TROLLEYBUS IN THE UPPER SILESIAN AGGLOMERATION WITH THE CONNECTED INFRASTRUCTURE
DATA COMPILATION TEMPLATE

Identifying data of the practice:

- Name of the practice/project: The modernization of the infrastructure of the tram and trolleybus in the Upper Silesian Agglomeration with the connected infrastructure. Project No. POIS.07.03.00-00-012/11
- Issue tackled by the practice.
- Name of the contact person.
- Position of the contact person.
- Contact details.
  contact via the website www.tram-silesia.pl

Objectives of the practice:

- quality objectives:
  - improving the efficiency, comfort and reliability of the public transport system
  - reduce noise and vibration
  - integration of existing public transport systems and the development of the common transport policy basis for Agglomeration
- quantitative targets:
  - increase the number of passengers using public transport by about 3.6 million people a year
  - reduce the travel time between the cities by about 5-10%
  - improving accessibility for people with disabilities by converting stops - about 61 pcs
  - increase the comfort of traveling through the purchase of 45 units of new rolling stock and upgrading 75 pcs trams

Process and detailed content of the practice (Description):

The project is divided into two sub-projects:
Subproject 1 is performed by Silesian Trams SA. Investments are located at 3 tram corridors, linking the main cities of the Upper Silesian Agglomeration (Bytom, Chorzów, Katowice, Silesia Ruda, Sosnowiec and Zabrze)
Subproject 2 is implemented by the City of Tychy and Tyskie trolley bus line Ltd.
Investments are located in the city of Tychy.

Origin:
Project co-financed by the EU Cohesion Fund under the Operational Programme Infrastructure and Environment

Bodies involved /Implementation

The beneficiary of the project - Silesian Trams SA
Partner - City of Tychy
The entity authorized to incur eligible expenses - Tyskie trolley bus line Ltd.

Financial Framework (Funding):

- Public:
  - Entity.
  - Amount

Total estimated cost of 801.06 million zł gross, of which 651.80 million zł eligible costs. At the level of funding in the amount of 59% of eligible expenses - the amount of the grant is 384.56 million zł.

- Private:
  - Entity.
Legal Framework (current law and incentives system):
n/a

Target group addressed by the practice:
passengers

Communication and awareness campaigns:
Communication via the website www.tram-silesia.pl
information and promotion campaign using the old tram

Geographic and population scope:
- Geographic position (country, region or district or metropolitan area or municipality) Metropolitan Association of Upper Silesia
  - Extension 14 cities, about 1218 km²
  - Climatology mild climate
  - Orography Silesian Upland
  - Population densities about 1640 persons / km²
  - Urban characteristics high housing density in the city centres, the large housing estates and the extensive suburbs, cities adjacent to each other
  - Urban growth trends (-) spreading of the cities and (+) transformation from the industrial cities to the modern centre of the development of knowledge, culture and business

Area of study. Zoning:
- Microzoning n/a
- Macrozoning n/a

Socioeconomic characteristics:
- Spatial distribution of the population high housing density in the city centres, the large housing estates and the extensive suburbs, cities adjacent to each other
- Population density about 1640 persons / km² (2011)
- Population growth rates - 0,31% / year (2002÷2011)
- Distribution of family units n/a
- Age groups, aging index (2006)

<table>
<thead>
<tr>
<th>selected age groups</th>
<th>0 - 9</th>
<th>‘20 - 29</th>
<th>‘60 +</th>
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<tbody>
<tr>
<td>percent</td>
<td>8,2%</td>
<td>16,8%</td>
<td>18,7%</td>
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  - Unemployment rate % (total/women/men) (3,72% // n/a // n/a) (registered, at 31.12.2010)
  - Employment rate % (total/women/men) (47,3% // n/a // n/a) (2005)
Use of private vehicles. Motorisation:
A lot of people travel everyday to work and on business across agglomeration, using public transport or own private cars. It makes there are traffic jams on the roads almost everyday, there are problems with the parking places and with quality of air in the city centres. It requires the modernisation of the infrastructure and the fleet of the public transport in the agglomeration.

Analysis of the mobility:
- Mechanized and non-mechanized mobility n/a
- Public and private transport mobility
  The area of the network of the public local transport in the agglomeration isn't exactly compatible to the area of the Metropolitan Association of Upper Silesia. The public local transport in the Metropolitan Association of Upper Silesia is operated by 5 entities. The biggest one is the Municipal Union of the Public Transport of the Upper-Silesian Industrial District (KZK GOP). The tram lines network is managed by the Silesian Trams SA, which belongs to it.
- Distribution of modes and motives n/a

Areas of study developed in the practice:
- Road network. Traffic.
- Parking.
- Public transport.
- Pedestrians and cyclists: quality and urban space.
- Intermodality.
- Mobility management.
- Flow and distribution of goods.
- Environmental aspects.
- Road safety.

Timescale:
- Duration of the practice/project 2011 - 2013
- Implementation phase in which it is located during realisation

Necessary human/economic/technologic resources and skills to realize and to manage the Best Practice:

n/a
Monitoring and results:

- Possible demonstrated results (through indicators) after the project ends: quality and quantitative goals, which were reached
- Possible success factors: n/a
- Difficulties encountered: n/a

Remarks:

ANNEX 1: ELECTRIC MOBILITY

TYPE OF VEHICLE:
- Tram, Trolleybus
- Bus
- Bicycle
- Car
- Motorbike
- Taxi
- Delivery truck

TECHNICAL CHARACTERISTICS OF THE VEHICLES:
- n/a

PERFORMANCE:
- n/a

ENERGY NEEDS:
- Amount of energy: n/a

SUPPLY MODALITIES:
- Charging points: n/a
- Distribution of the charging points: n/a

ENERGY SOURCES:
- From renewable energies (types): n/a
- From non-renewable energies: n/a

ELECTRICAL LOCAL POLICIES WHICH ARE ADOPTED IN THE MUNICIPALITY/REGION/COUNTRY:
- n/a