Overview of Ljubljana initiatives for sustainable mobility and car-pooling take-off

Blaz Jemensek | SocialCar midterm event
22 November 2016
Institut of Traffic and Transport Ljubljana d.o.o.:

- research organisation founded by Slovenian Railways
- the company with over 45 years of tradition
- research and development projects in all traffic modes applied to the domestic and foreign market
- EUROPEAN PROJECTS: CIVITAS ELAN (FP7), START (IEE), OPTIMIZEMED (MED),...

The company specialises in research and development of:

- transport technology,
- infrastructure,
- transport economics and law,
- transport related IT&T,
- elaboration of investment documentation.
Ljubljana – The capital of Slovenia

- Located in Central Europe
- Capital of Slovenia and its largest city
- Municipality area 275 km²
- 280,000 inhabitants – 1018 inhab./km²
- University city
- More than 50,000 students
- 180,000 working places
- Old centre with narrow streets, castle hill and river Ljubljanica
Ljubljana – The capital of Slovenia

Travels between the City (municipality) and outside - modal split

- Increase of car use ↑+52%, and decrease of public transport use ↓-23% in last 10 years,
- 1.2 million trips per day, 28% to/from the region
- PT share is only 13% and car share is 65% in city area
- 84% of trips from the regions are car trips
- 57% of inner trips are by car
- Average speed of city buses is less than 18 km/h, cars are 10 km/h faster even in peak hours
- Trips modal split (public/private) 20/80
- Car ownership (only private) more than 100,000
Ljubljana – The capital of Slovenia

Travels inside the City (municipality) – modal split

- 130,000 daily commuters travelling to Ljubljana by car (85% of all from outside of the Ljubljana Municipality are coming to Ljubljana by car)
- Average car occupancy in Slovenia is 1.4 passengers per vehicle
- Relatively expensive regional bus transport (infrequent service outside main corridors)
- Problems with parking (lack of parking places)
Ljubljana Sustainable Strategies and Plans

- Sustainable Development Strategy (2020)
- Environmental Protection Programme (2020)
- Sustainable Energy Action Plan (2020)
- Sustainable Urban Mobility Plan (2020)
- Electromobility Strategy (2020)
- Urban Master Plan (2030)
- Zero Waste Plan (2035)
- Other strategic supporting documents
Sustainable Urban Mobility Plan (2012): cohesion of measures

Main goal of SUMP
To achieve modal split:
1/3 pedestrians and cyclists
1/3 public transport
1/3 private cars
Green mobility – Latest development

- Refurbishment of southern part of the Slovenska street and surrounding area
- 32 new CNG buses
- Electric tourist train Urban
- 1 new and 1 expanded P+R facility in 2015
- Expansion of the Bicike(LJ) network
- 4 new visual bicycle counters and 26 bike racks
- Thematic cycling routes
- Electric and other „clean“ vehicles in public fleet (buses, public administration, companies) and 100% e-car sharing system
- Urbana SMS-parking
- Urbana single multifunctional e-card – fare integration (bus + train) and mobile application
Major transport improvements in the city
Refurbishment of Slovenska Street
Refurbishment of Preseren’s Square

Transformation from car-friendly area to people-friendly public space for different events, socializing, relaxation and more …
Green mobility
Green mobility

• **the pedestrian surfaces** were increased by 620 % by closing the city centre for all motorized vehicles (100,000 m²)

• **the renovated Slovenska street:** reduced concentrations of **black carbon** by 70 % after changed traffic regime, while the concentrations on other surrounding streets have not increased; there has been a trend of reducing NOX and PM10 in recent years

• **green areas** – **more than 80 ha** of new green surfaces; 542 m² public green areas per citizen

• **4 Kavalir electric vehicles** that operate free of charge in the city centre: approx. 1 mio **satisfied passengers** since 2008

• the self-service **bikesharing system Bicike(LJ):** 3,6 million rides since May 2011 and increase of cycling share from 10 % to 13 % (2009–2013)

• **improved public transport** – **17 % more city bus users** since 2011, **34 % increase of journeys on regional buses** 2013–2014: Urbana card, 68 CNG buses (33 %), extended bus lines to LUR, P+R facilities, yellow bus lanes, real time information (displays, route planner), increased safety …

=> European survey on quality of life Eurobarometer and Eurostat 2015: **92 % of residents of Ljubljana is very satisfied or satisfied** with the quality of life in Ljubljana
6 Letters of Interest signed in Ljubljana

Cooperation for implementation of SocialCar in Ljubljana:

- City of Ljubljana
- Urban planning institut of Slovenia
- Slovenian Railways
- Main public bus operator of Ljubljana (LPP)
- Ljubljana urban region
- Private carpooling initiative (prevozi.org)
SOCIALCAR public consultations during European mobility week

SOCIALCAR Consultation group meeting in September in Ljubljana City Hall

⇒ More than 40 stakeholders participated:

- cities,
- municipalities,
- Ministry,
- NGOs
- private companies,...
Integration of public passenger transport in Slovenia

**National project of integration of public passenger transport**
Main objective: Integration of public passenger transport in Slovenia
Outcomes: E-ticket for all transport modes, integrated timetables, P+R system, new vehicles and stations,...

Start: June 2015, End: end of 2016, Project initiator: Ministry of Transport and Infrastructure of Slovenia

**Consortium members:**

- Slovenian Railways – lead partner (signed SOCIALCAR LoI)
- Prometni institut Ljubljana d.o.o. (SOCIALCAR partner)
- Ljubljanski potniški promet LPP - Urban bus transport operator (signed SOCIALCAR LoI)
- Marprom d.o.o. (bus operator)
Integration of SocialCar with other systems in Ljubljana

Integration of SocialCar with other transport systems and services in Ljubljana urban region and Slovenia:

- integration with Park and Ride systems;
- possible combination with Ljubljana urban transport Urbana smart card;
- cooperation with carpooling initiatives in Slovenia (prevoz.org);
- SocialCar ride sharing for companies;
- combination of SocialCar with Bicikelj (bike sharing system in Ljubljana)
Activities in Ljublana SocialCar implementation

Agreements and cooperation „www.prevozi.org“

⇒ a communication platform where the travellers can arrange their trips together
⇒ different carpooling options for travellers on national level
⇒ mainly used by students who travel from home to universities
⇒ an important part of travels is also from/to Ljubljana
⇒ the website was cofinanced by the EU
The Ljubljana/Slovenia SocialCar challenge

SOCIALCAR

- Collected data from PT operators
- Carpool provider Prevoz.org => cooperation agreement
- Testing and evaluation
- Implementation??
The Ljubljana/Slovenia SocialCar challenges

SOCIALCAR – challenge and benefits

- Better car occupancy
- Better modal split (daily commuters)
- Less congestion in the city
- Less problems with parking spaces
- Integration with public passenger transport
- Better usage of other PPT modes
Thank you!

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 636427.

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