MULTI E
Multiple Urban and Long-distance Transport Initiatives – Electric and CNG

Vladimir Sabo
Head of Mobility
Petrol d.o.o.

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Mobility is one of the main challenges for society.
Mobility services

- Business rental of vehicles with complete management and maintenance
- Establishment and management of charging infrastructure
- Customer service
- Corporate car sharing
Establishment and management of charging infrastructure

- Procurement and installment of charging stations
- Management of the infrastructure
- Maintenance

Charging infrastructure is expected to meet user and corporate requests.
- Usage of network, that is constantly expanding
- User identification by electromobility card and OneCharge application
- Enabling hosting/roaming in other EU countries by connecting to other providers
- Assistance to users 24/7
- 98% reliability
In order to ease the transition to e-mobility, Petrol has developed a comprehensive service for operating an operating lease of electric vehicles.
Investments in the development of infrastructure for EV charging in the region

- More than 1000 charging stations
- SLO, HR, SRB, IT, HUN
- Batteries and green islands
After successful implementation of CEGC as well as work progress on NEXT-E and URBAN-E, **PETROL Group** is ready for the next step:

**a large scale rollout of smart e-mobility of the future**!
Strong consortium with one clear goal of disrupting the mobility we know today

- **4 Countries**
  - Croatia, Slovenia, Slovakia and Italy

- **10 Cities**
  - Zagreb, Rijeka, Zadar, Šibenik, Split, Ljubljana, Maribor, Celje, Koper, Trst

- **8 Consortium partners**
  - Petrol, d.d. Ljubljana, Petrol, d.o.o. Zagreb, ZSE, Arriva, Nomago, Celje, Koper

- **2018 – 2023**
  - Project shall be implemented by the end of 2023
PROJECT OVERVIEW
EU target: decrease CO2 emission in transport sector for a total 40% relative to 1990s levels.

Q: How to reach the target in SEE and CE?

• Region has unique opportunity to shift from conventional fuels and close the gaps with the rest of Europe in clean vehicles fleet.
• Creating an ecosystem of different sustainable transport alternatives that meet full range of consumer travel needs.
• Making alternative, cross-border opportunities for clean fuel choices available for regional and long distance drivers.
## CONTRIBUTION OF PROJECT TO TEN-T AND CEF PRIORITIES

### Cohesion
- Improving accessibility and connectivity in CE and SEE,
- Providing transport solutions for long distance/ regional and local traffic.

### Efficiency
- Removing bottlenecks and creating cross border connections,
- Introducing new and upgrade existing infrastructure,
- Creating interoperable network,
- Creating better interconnections between different modes of transport,
- Reducing demand for parking in cities and increasing vehicles utilization.

### Benefits for users
- Ensure quality, efficiency and sustainability of transport services.
- Easy access to services via multimodal MaaS platform.

### Sustainability
- Economically efficient and sustainable transport in the long term.
- Contributing to the objectives of low carbon greenhouse gas emissions.
- Reduce number of vehicles.

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Project demonstrates significant added value by implementing technologies that were earlier developed and tested in real life trials and is now available for mass marker roll-out.
OVERVIEW OF PROJECT

Project looks to create an integrated system along the Adriatic and expanding into the Cohesion countries, linking east to west and south to north, bridging neighboring regions and cities with close ties and economic co-dependencies, and sharing knowledge and expertise across border.

➢ Upgrade existing public transport services by switching to new clean fuel as a key element of phasing out conventionally fueled vehicles in cities by 2050.

➢ Increased multi-modality through introduction of new services that offer innovative, zero emission transport options through e-carsharing and e-ridehailing services reducing car dependency. Shifting to clean fuels by expanding the choice for consumers in alternative fuels, including cross-border continuity for both EV and CNG vehicles.

➢ Integration of smart-technologies for consumer convenience that integrates multiple clean mobility services in one platform.

➢ Enabling approx. 50 mio. € private investments by connecting alternative fuels infrastructure, vehicles and MaaS into one project, thus reducing the overall risk.
OVERVIEW OF PROJECT

Duration of the project: 01/05/2018 – 31/12/2023

4 Countries: SLO, HR, IT, SK

Grant of the Action: 13 million EUR

Total eligible costs: 64 million EUR

Partners: Municipalities Celje and Koper, bus operators Nomago and Arriva, energy companies ZSE and Petrol.

Project is co-financed by CEF, INEA, 20% subsidies

Activities:
- Establish urban and regional-intercity e-bus services
- Develop Multi-modal Mobility Service
- Develop alternative refueling infrastructure for CNG and EV
- Project management
SCOPE OF PROJECT

318 AC chargers, 13 Urban UC, 24 Core Network UC

16 CNG Stations

urban and regional-intercity e-bus services (17 e-bus and minibus, 7 DC public charging stations)

e-carsharing/e-taxi/e-shuttle (920 vehicles, 380 charging stations and 5 charging hub)

Multi-modal Mobility platform
Reduce congestion

Corner stone for sustainable public transport

Affordable and convenient service

Brings together municipalities, regions and private bus operators

Connects medium to large cities
MULTI-MODAL MOBILITY SERVICES

Platform is piloted in URBAN-E

Functionalities that support car-sharing

Brings synergy of benefits in promoting sustainable transport

Solutions for wide variety of travel needs

Reduces pressures on residential parking in cities
Expand the current CNG charging infrastructure network and include the region to it.

Close gap to Hungary and Romania

Create market for Adriatic region
Project relies on EV charging infrastructure

Expand current network of charging stations

Create long distance connections.

Supports operations of e-mobility, services for buses

Supports operations of carsharing and ride-hailing

Connects 4 countries and 15 cities along the corridors
SCOPE OF PROJECT

- Install 8 UC charging stations
- Install 4 UC charging stations
- Install 26 AC charging stations
- Install 1 DC bus charging stations
- Procurement of 500 electric vehicles for mobility services
- Install 200 AC, 14 UC charging stations
- Install 2 charging hubs in Zagreb
- Install 2 CNG charging stations
- Procurement of 17 e-bus, e-minibuses and minivans for new regional, inter city and urban bus lines
- Procurement of 420 electric vehicles for mobility services
- Development of multimodal platform
- Install 180 AC, 6 DC, UC charging stations
- Install 3 charging hubs in Ljubljana and Maribor
- Install 14 CNG charging stations
**ACTION SCOPE IN ZAGREB**

Charging infrastructure
- 140 AC charging station
- 2 ultra (urban) charging locations

Mobility as a Service
- Established e-car sharing and e-ride sharing

Multimodal platform 2.0
- Allowing customers to choose between various modes of transportation

More than 21 mio EUR
- Total investment to City of Zagreb exceeds 21 mio EUR
ADVANTAGES FOR THE CITY OF ZAGREB

Pawing the way towards another green capital of Europe

Concept of multimodal traveling combining e-taxi, e-car sharing and Public Transportation Service as the first of its kind in Europe!

Project Rollout will strongly influence development of transportation in City of Zagreb

Croatian Presidency of Council of Europe in 2020
ACCOMPLISHMENTS IN 2018 AND PLANS FOR 2019

✓ In November 2018 Arriva procured 1 electric minibus that operates in Koper (16 seats, 6.8 meters long)
✓ Deployment of 1st CNG station in Celje with successful launch event Jan 24th 2019 (led by MOC)

- Municipality of Koper will launch local minivan public transport service;
- Procurement of electric vehicles for e-taxi services;
- Install 1 charging hub in Ljubljana;
- Install 1/3 of CNG charging stations;
- Install some of the AC and UC charging stations in Slovenia, Italy and Croatia.
Thank you for your attention!