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Electric cars for municipal services

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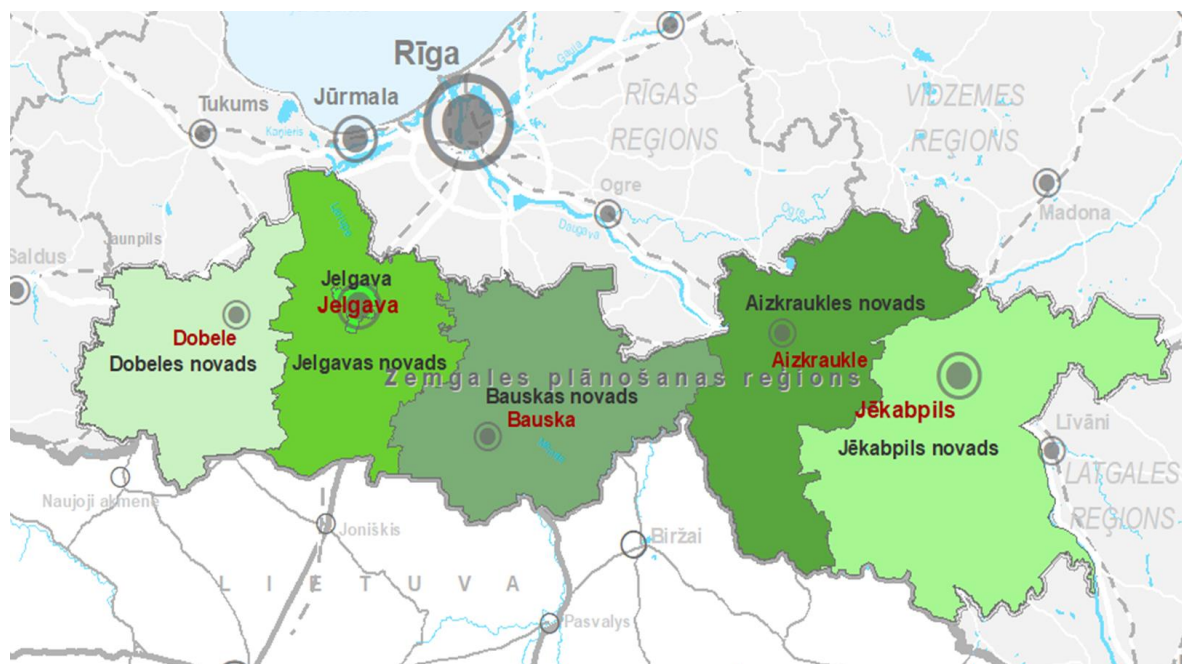
Webinar: E-Mobility IV – Electric Fleets

18 April 2023

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Zemgale Planning region



Development programme 2027

- The main policy instrument is the Zemgale Region Development Program.
- ZRDP includes e-mobility in the program priority P4-Mobility.



e-MOPOLI project

**Elaborated
Mobility Plan
2030 –
thematic
additional
planning
document
elaborated in
frame of the
e-MOPOLI
project**



P4-Mobility

1. Development and integration of environmentally friendly and innovative support infrastructure into the transport system of the region - creation of a network of alternative fuel, RES, electricity charging stations
2. Development of environmentally friendly, energy-efficient and innovative modes of transport in the provision of **municipal services**:
 - 2.1. Conducting research on the development of environmentally friendly, energy-efficient and innovative forms of transport in the provision of municipal services, evaluation of efficiency, evaluation of municipal services, where the introduction of such transport would be possible
 - 2.2. Purchase of new, energy-efficient means of transport for the provision of municipal services
 - 2.3. For the creation of charging infrastructure to ensure the operation of municipal transport

Future scenario on alternative fuel mobility

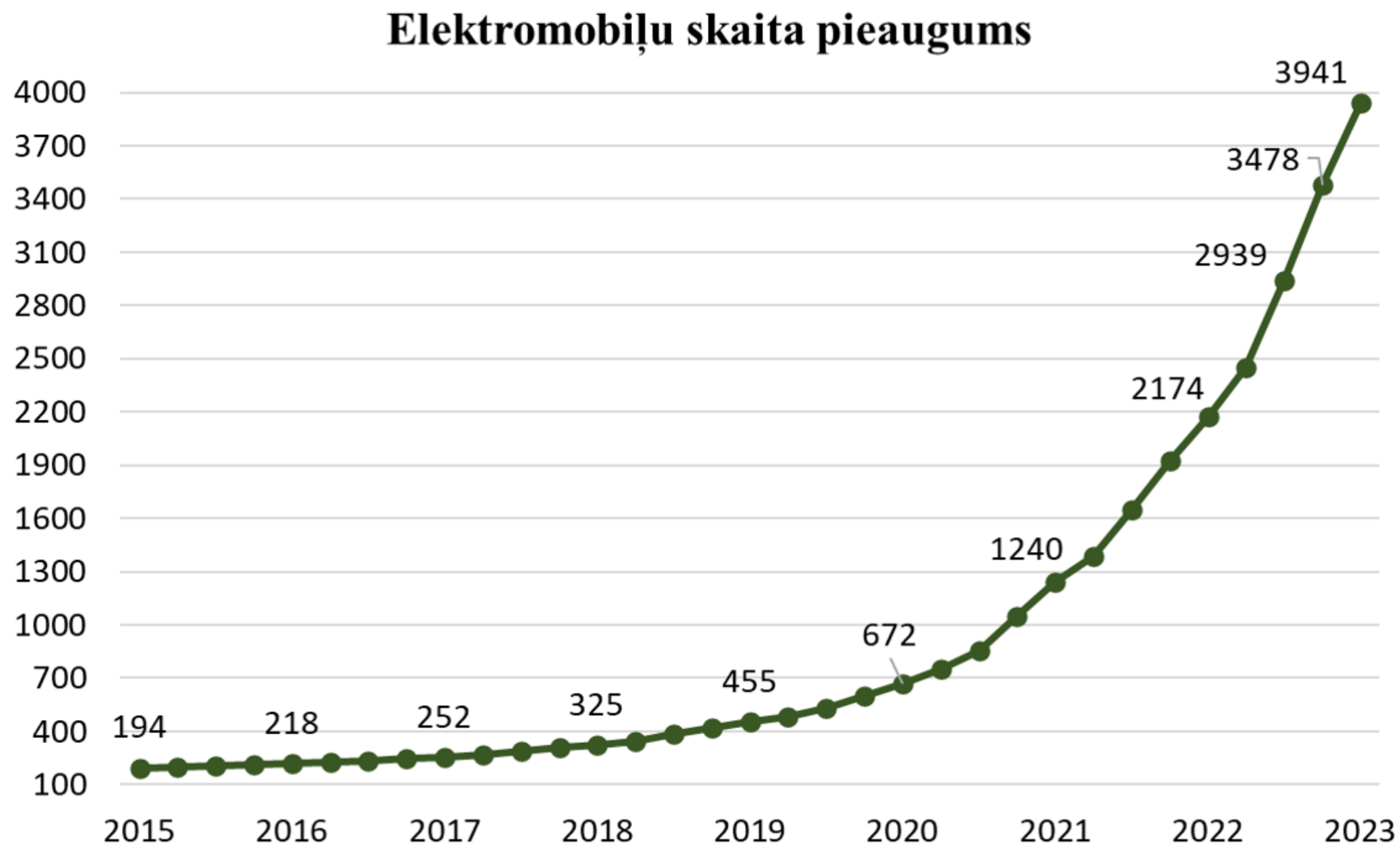
Priority 4 Smart mobility and infrastructure

DD 4.2. Sustainable and modern mobility:

- Activity 4.2.3.4. Environmentally friendly and innovative development of modes of transport - introduction of pilot projects of unmanned vehicles, electric cars, etc.
- Action 4.2.5. Development and integration of environmentally friendly and innovative support infrastructure into the regional transport system - creation of a network of alternative fuel, RES, electricity charging stations.
- Hydrogen transport and biofuels
- Mobility centres for inhabitants
- Rail Baltica – regional dimension



The increase in the number of electric cars in Latvia



Distribution of electric cars registered in Zemgale Region on January 1, 2023

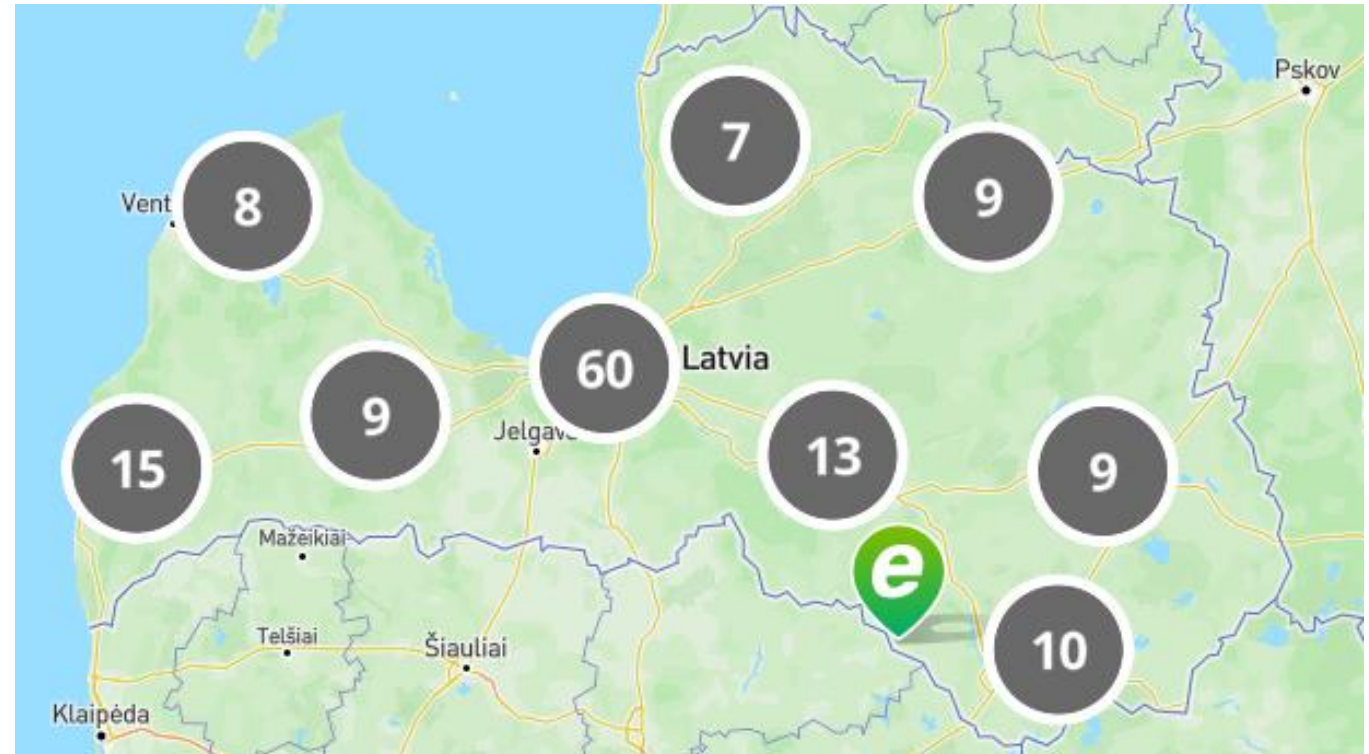
TOTAL 200 (from 3941 in LV – 5%):

• Jelgava City	77
• Aizkraukle County	16
• Bauska County	38
• Dobeles County	20
• Jelgava County	31
• Jēkabpils County	18

MAP OF E-MOBI CHARGING NETWORK STATIONS

E-mobi is the national network of electric car charging stations that ensures the movement of electric cars throughout the territory of Latvia.

The network of charging stations and 141 fast charging stations throughout the territory of Latvia is maintained by the State Joint Stock Company "Road Safety Directorate" (CSDD).



Good practice - Electric cars for municipal services (1)

Jelgava City Municipal Police purchased three electric cars and Jelgava City Municipality one electric car to replace their ordinary service cars.

Electric cars were co-financed by the Latvian government through its climate change financial instrument that supports the introduction of new technologies, and from EU Structural Funds earmarked to the development of eco-friendly mobility.



Good practice - Electric cars for municipal services (2)

Municipal Police officers use electric vehicles to provide traffic monitoring, control compliance with local government regulations and work with minors. In turn, the municipal authority use electromobility for the daily inspection of the construction objects and city infrastructure under the authority of the institution and the authority drive about 50 kilometers a day with an electric car.

Four industrially-produced Volkswagen e-up electric cars have been delivered to the municipality, which are already practically used in the daily work of the Municipal Police and Municipal Authority. The beneficiaries are Jelgava City Municipality and Jelgava City Municipal Police and also city citizens.

Good practice - Electric cars for municipal services (3)

- The total cost of all four cars was ~ 100 000 EUR
- For 1 car these years, the CO2 reduction is 7,750,000 g, or 7.75 tons of CO2.
- So for 4 cars these years the CO2 reduction is 31 ton.
- The initial data is that the reduction is 155g per km and the mileage is currently around 50,000 km.

Gathering / marathons of all kind e-vehicles is organized within the framework of the Jelgava City Festival, when there are a lot of people in the city streets and public space



Monitoring of the Action Plan

Priority 3, Action 5



Jelgava City and e-bus (1)

- On November 18, 2021, electric buses started transporting passengers in Jelgava.
- The main benefit of electric buses is the reduction of CO2 emissions in the city. The project envisages that the CO2 emission level will decrease by approximately 182 tons of CO2 per year, and energy consumption - by approximately 492 MWh/year.
- Jelgava Bus Park plans to use electricity at the exchange price and to charge the buses at night, when the price of electricity is even more than 20 times lower.

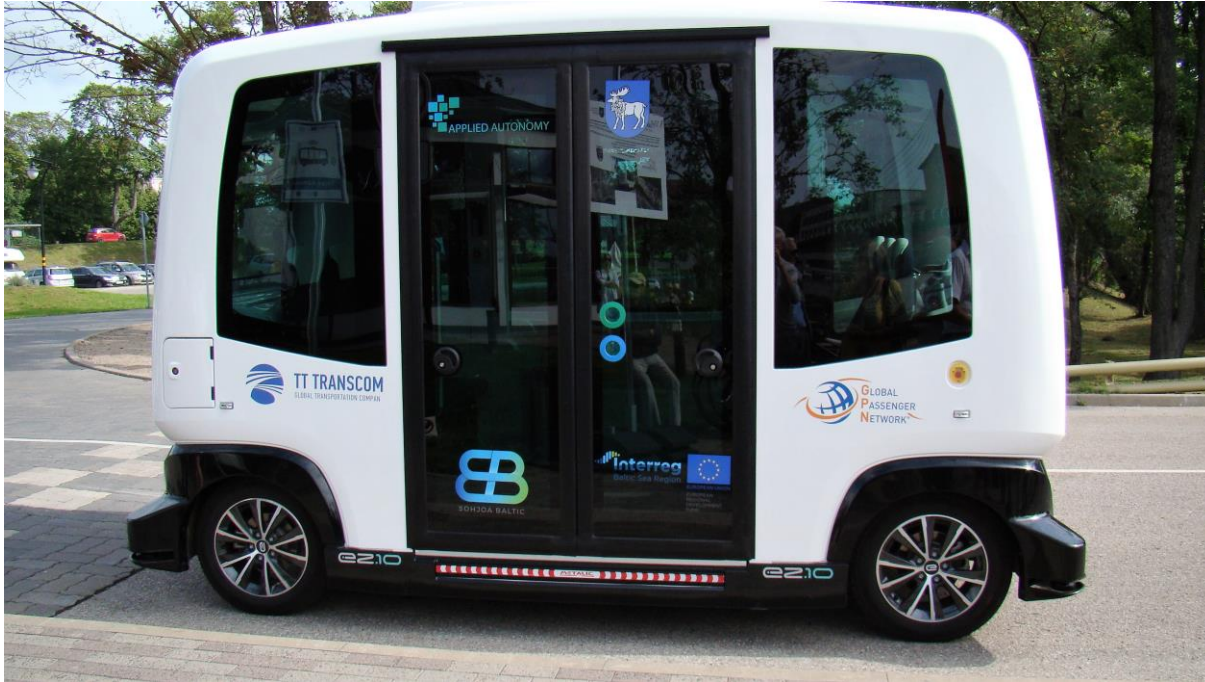


Jelgava City and e-bus (2)

- Jelgava City Council, implementing the project "Development of environmentally friendly public transport infrastructure in Jelgava" financed by the Cohesion Fund, purchased four electric buses and two charging stations from the company "Solaris Bus & Coach Sp.z. o.o." as a result of procurement, where all four buses can be charged simultaneously.
- The total funding is EUR 2,335,905. Cohesion fund funding is EUR 1,445,000, state budget grant – EUR 63,750, and Jelgava municipality funding – EUR 827,155.



Other experiences - SOHJOA LAST MILE project



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Thank you!

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