

UBC TALKS: SUSTAINABLE AND MULTIMODAL MOBILITY



RIGA: TOWARDS SUSTAINABLE MOBILITY AND ENHANCED MULTIMODALITY

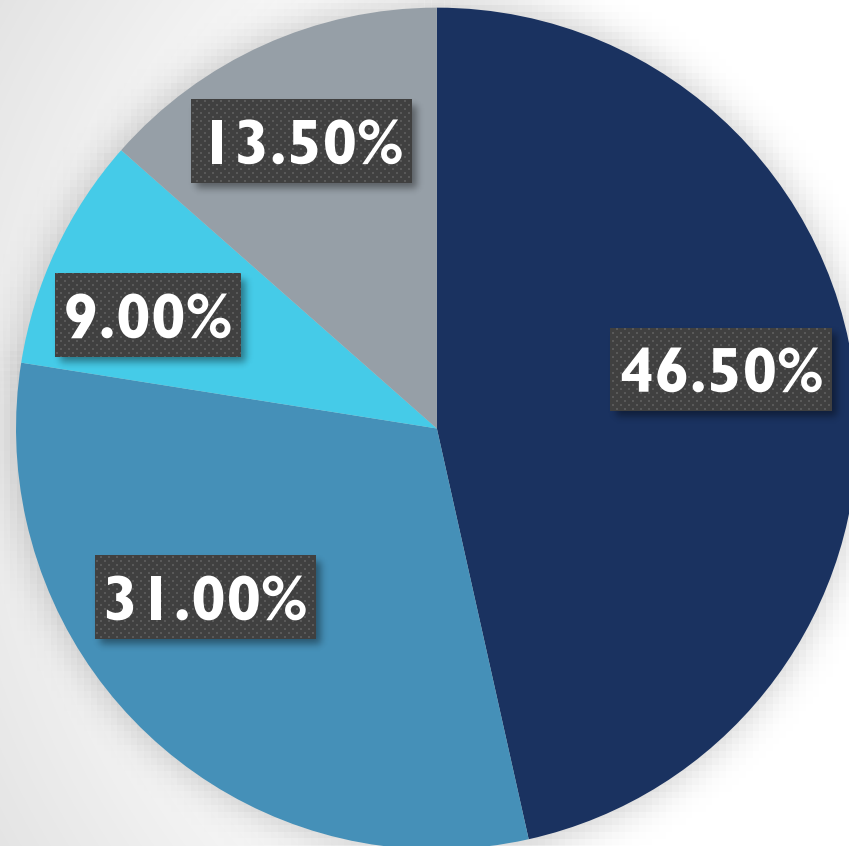
NIKA KOTOVIČA | RIGA MUNICIPAL AGENCY «RIGA ENERGY AGENCY»

26.05.2020.

RIGA: BASELINE

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- Size: 304 km²
 - Population: 639 000
 - **High public transport usage** in modal split
 - **Modern and sustainable public transportation:** over 58% of public transport services are provided by electric power driven, hydrogen and other alternative zero emission vehicles
 - Comparatively **green energy production:** RES up to 39%
 - **Low car ownership** rate: 262/1000

MODAL SPLIT IN RIGA



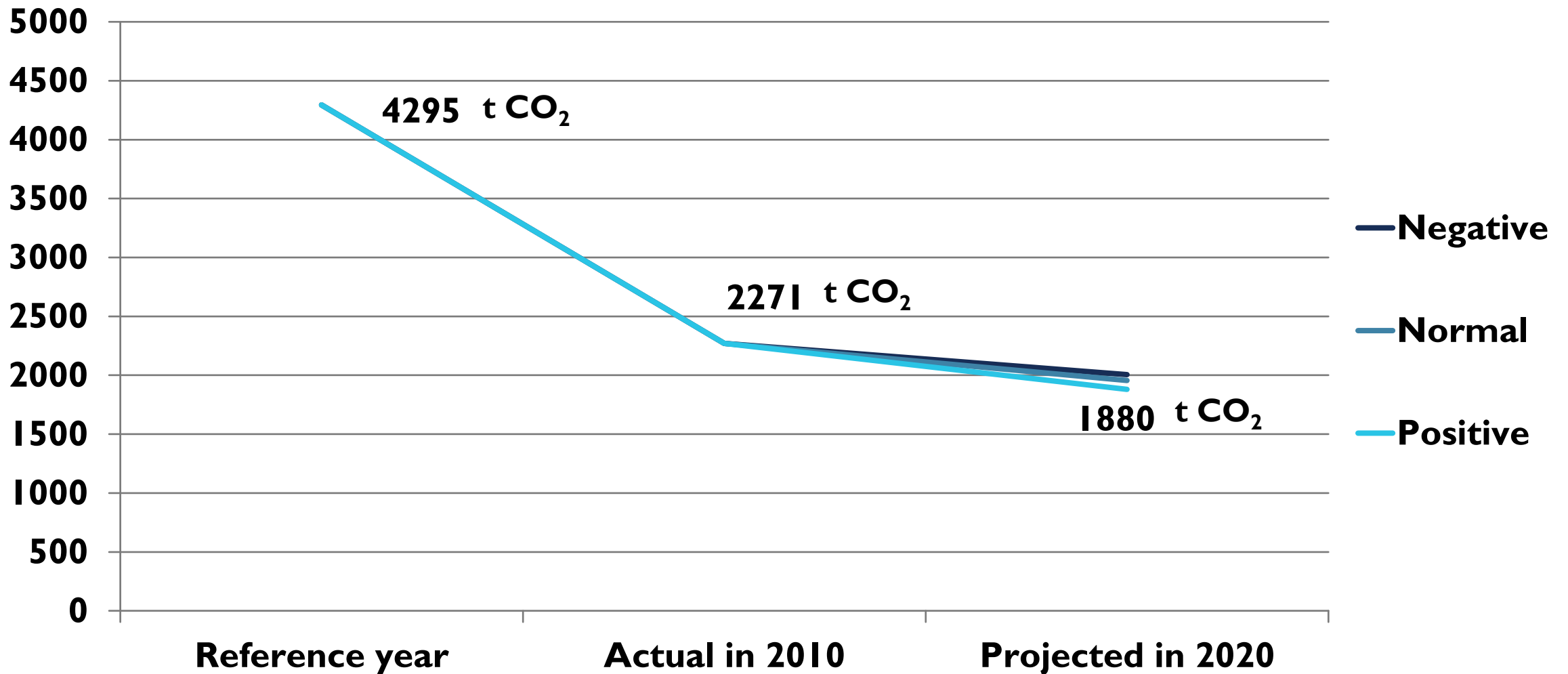
■ Public transport

■ Cars

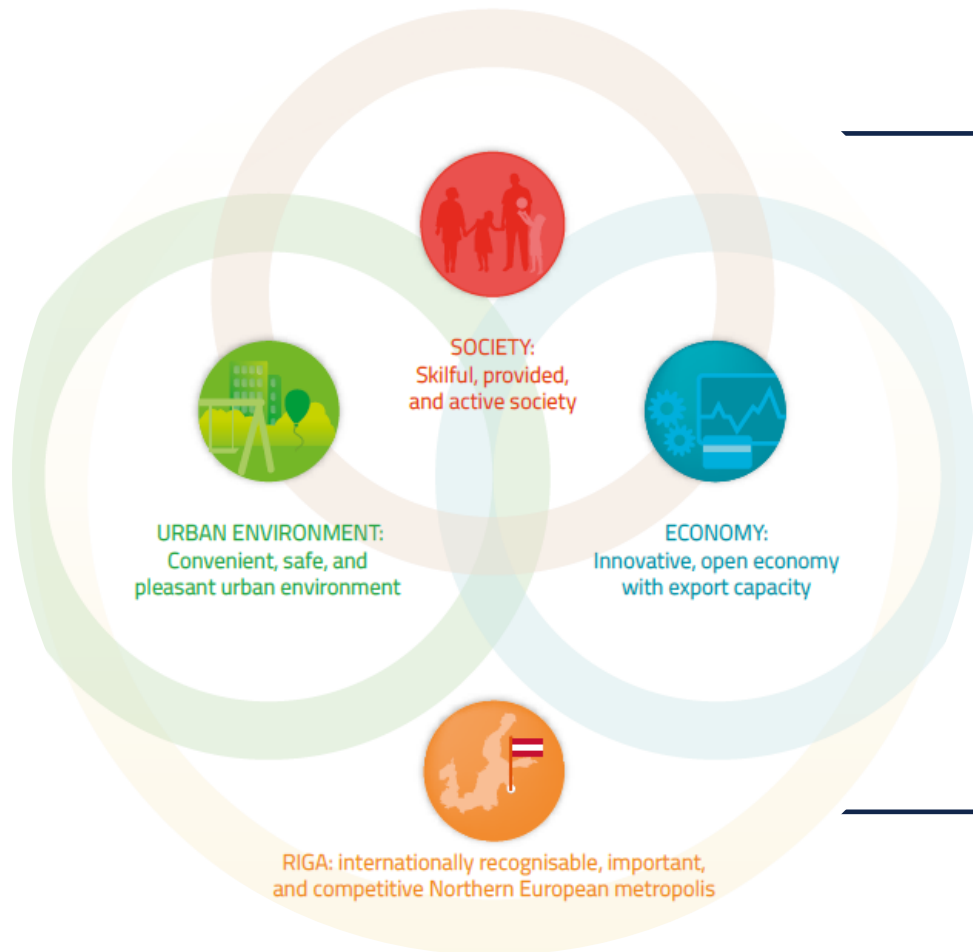
■ Cycling

■ Walking

CO₂ EMISSION FORECAST



PLANNING: MUNICIPAL POLICIES IN ACTION



Sustainable Development
Strategy of Riga until 2030
and Development Programme
of Riga for 2014-2020

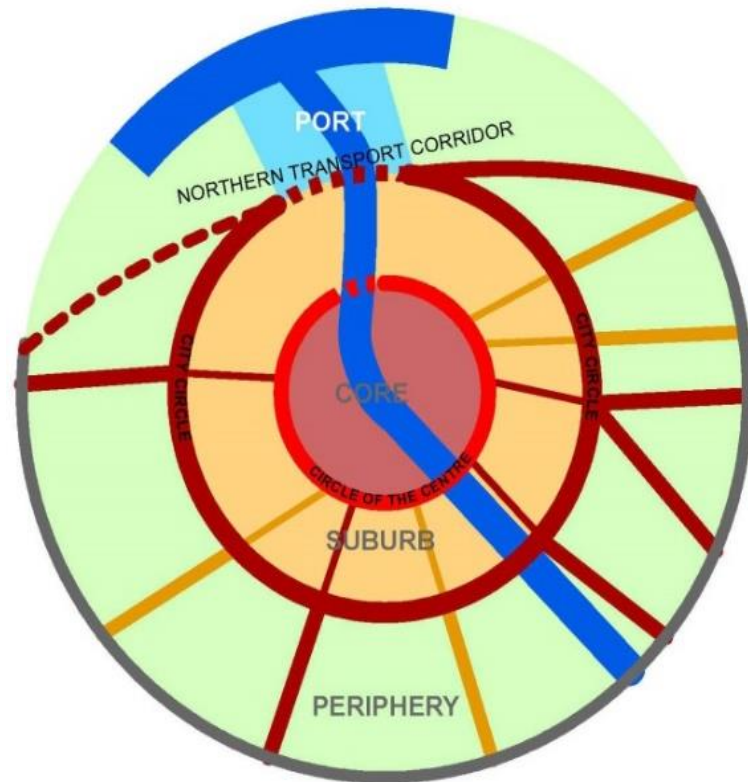


Public Transport Development
Strategy 2018 and Air Quality
Improvement Action Program for
2020

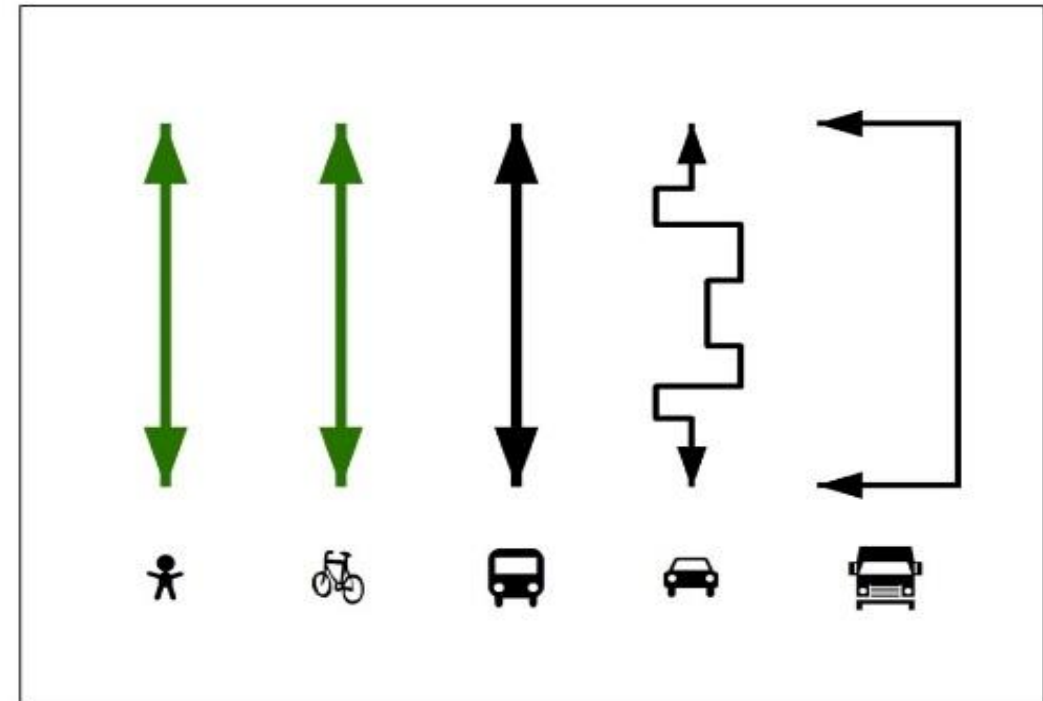


Riga Smart City Sustainable
Energy Action Plan for 2014-
2020

RIGA: SUSTAINABLE DEVELOPMENT STRATEGY 2030



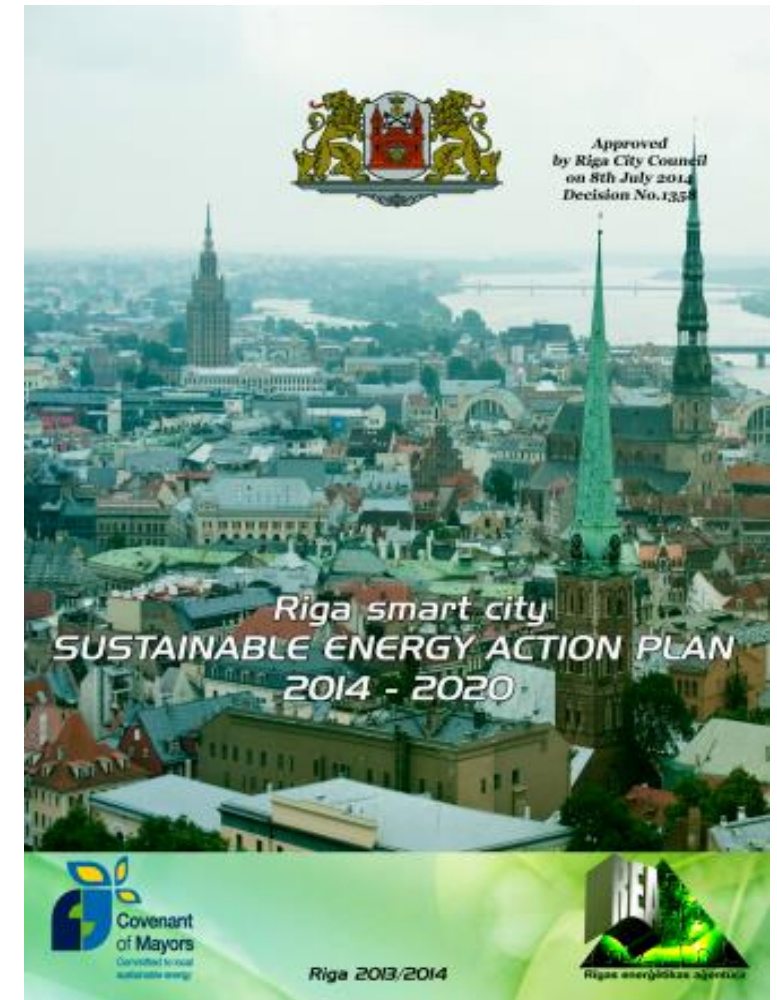
core, suburb and periphery principle



pedestrian-, cyclist-, and public transport friendly city

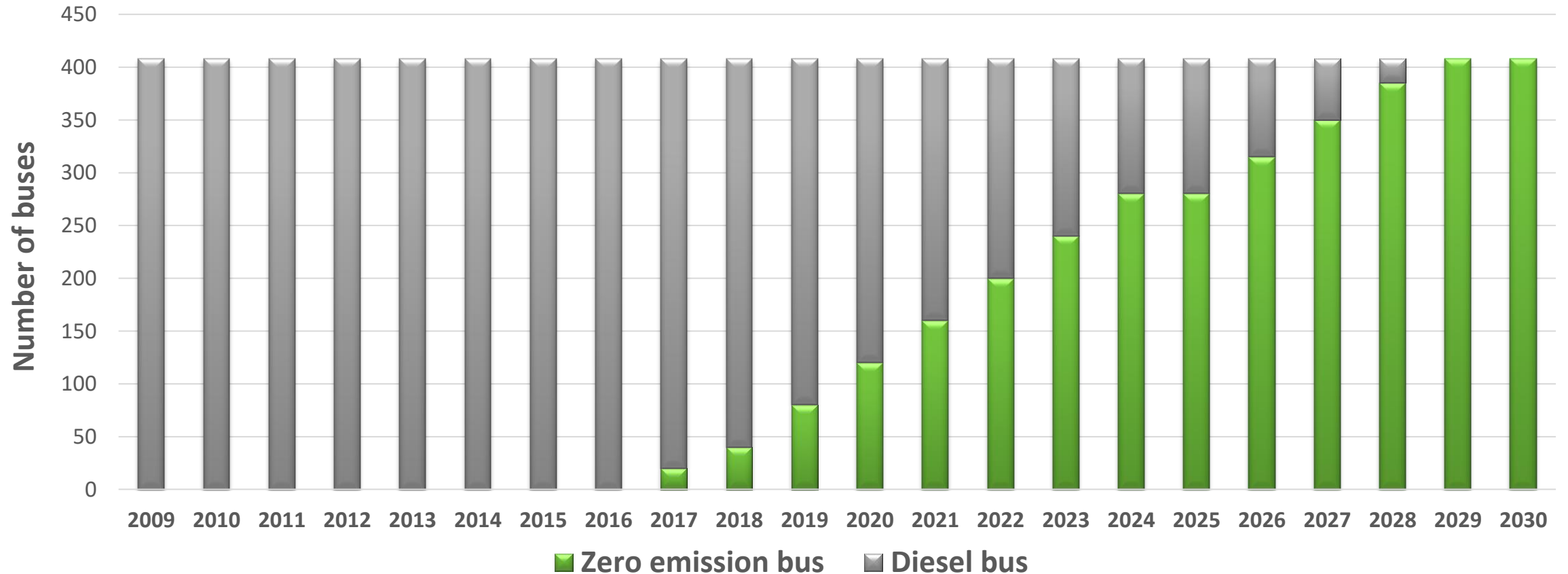
SUSTAINABLE ENERGY ACTION PLAN 2020

- SEAP includes an **initial review of CO₂** emissions for 1990 – 2012 and **projections for 2020**
- **Measures** for reducing energy consumption, capturing RES and **fostering emission-free mobility** in the administrative territory of Riga city
- **Monitoring** – criteria for assessing progress towards the goals of the Smart City SEAP



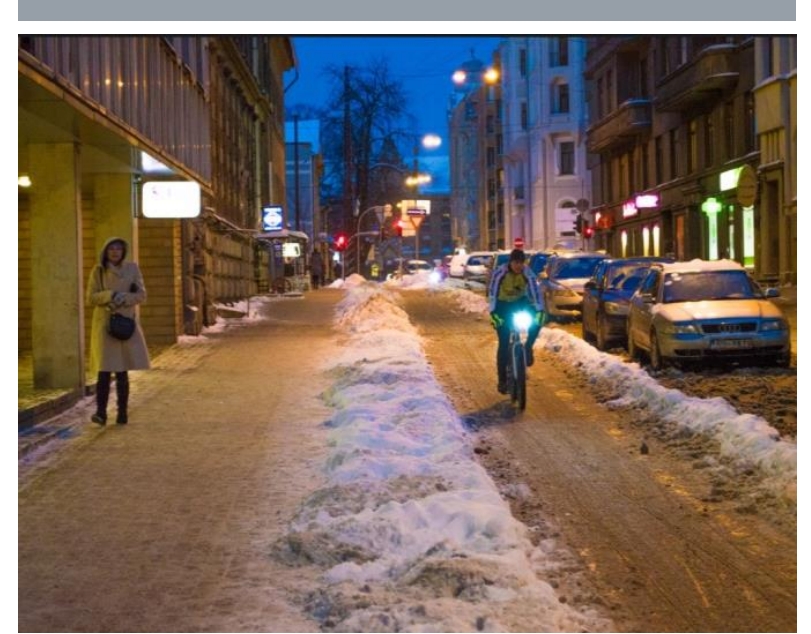
DE-CARBONISATION OF MUNICIPAL PUBLIC TRANSPORT

Diesel busses → Zero emission busses



RIGA CITY CYCLING DEVELOPMENT CONCEPT 2015-2030

- Cycling infrastructure
- Cycling planning and management
- Cycling promotion and education



CITY AS A PLATFORM FOR SUSTAINABLE GROWTH AND INNOVATION

- ❑ Intelligent transport systems
- ❑ De-carbonization
- ❑ Safe environment
- ❑ Sensor deployment and smart energy
- ❑ Blockchain technology in public transportation
- ❑ Open data platforms
- ❑ Smart data analytics
- ❑ Internet of Things
- ❑ Citizen data applications
- ❑ Start-up enterprise ecosystem



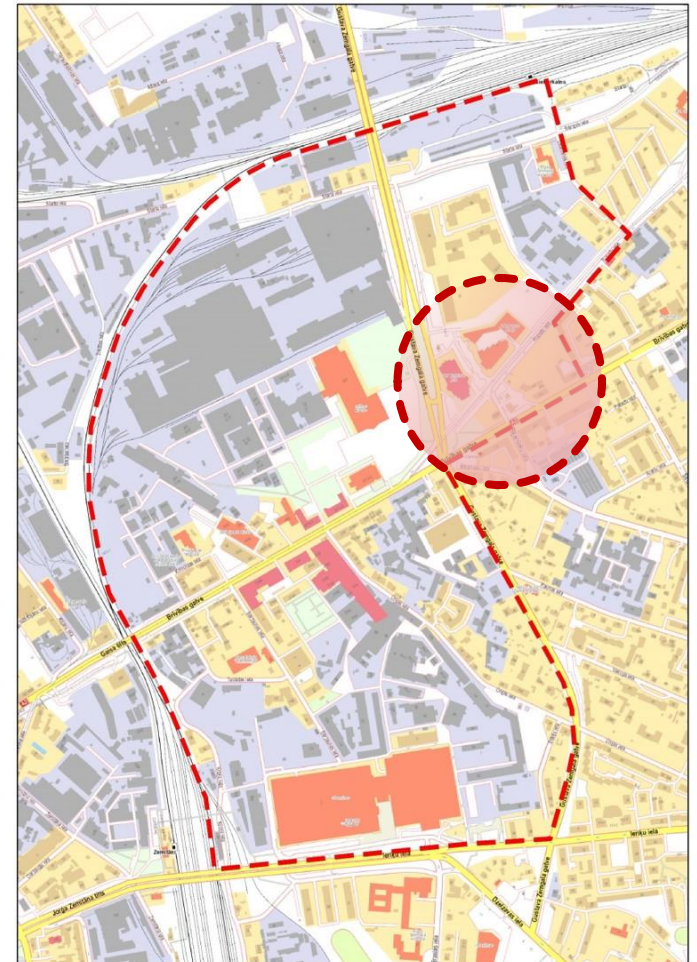
CHALLENGES

High traffic levels in the city centre vs. rather low willingness to change to sustainable mobility modes unless they offer the same convenience as the private car



RIGA: PILOT SITE

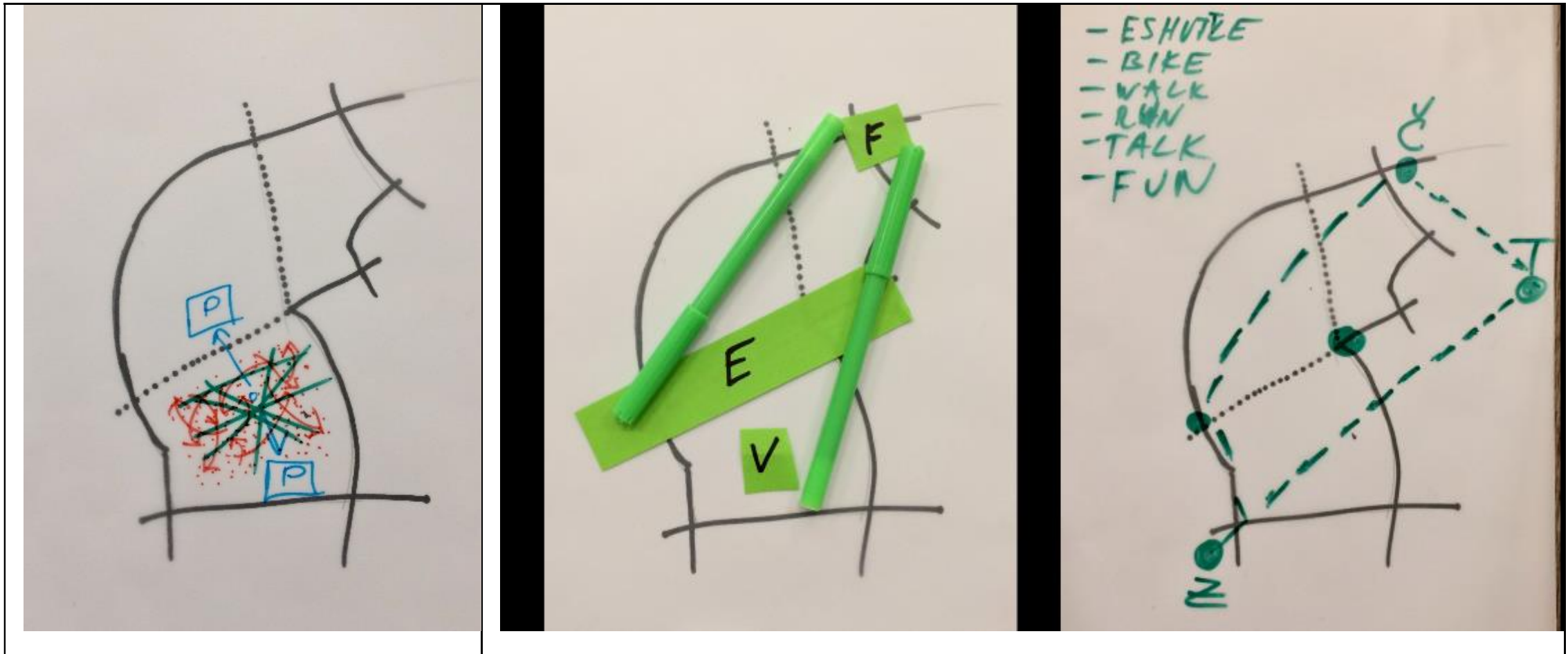
- Strategically located close to the city centre, bordering the Historic Centre of Riga (the UNESCO World Heritage site)
- Priority development area; active stakeholders motivated to take part in development of the area
- Congested area, intensive public transport hub & transfer point
- Local residents: ~1 700, daily users of the site: ~ 17 000



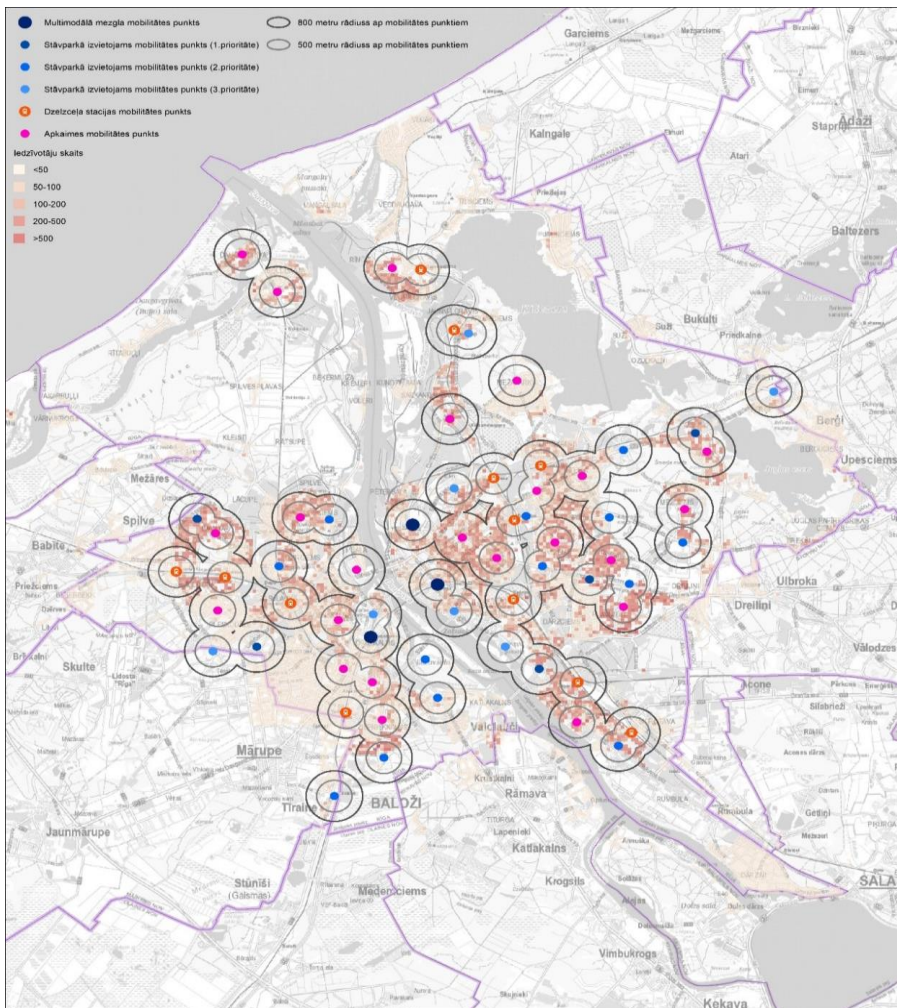
PARTICIPATIVE APPROACH: URBAN PLANNING WORKSHOPS



RESULTS OF THE URBAN PLANNING WORKSHOPS...



DEVELOPMENT OF THE MOBILITY POINTS NETWORK



- Concept for Mobility points in Riga
- Indicative locations and prototypes of the Mobility points
- Motivating citizens to combine walking, cycling, the use of public transport as well as promoting shared mobility (bikes, cars, e-scooters) as more sustainable alternative to individual private car use

PILOTING THE FIRST MOBILITY POINT IN RIGA



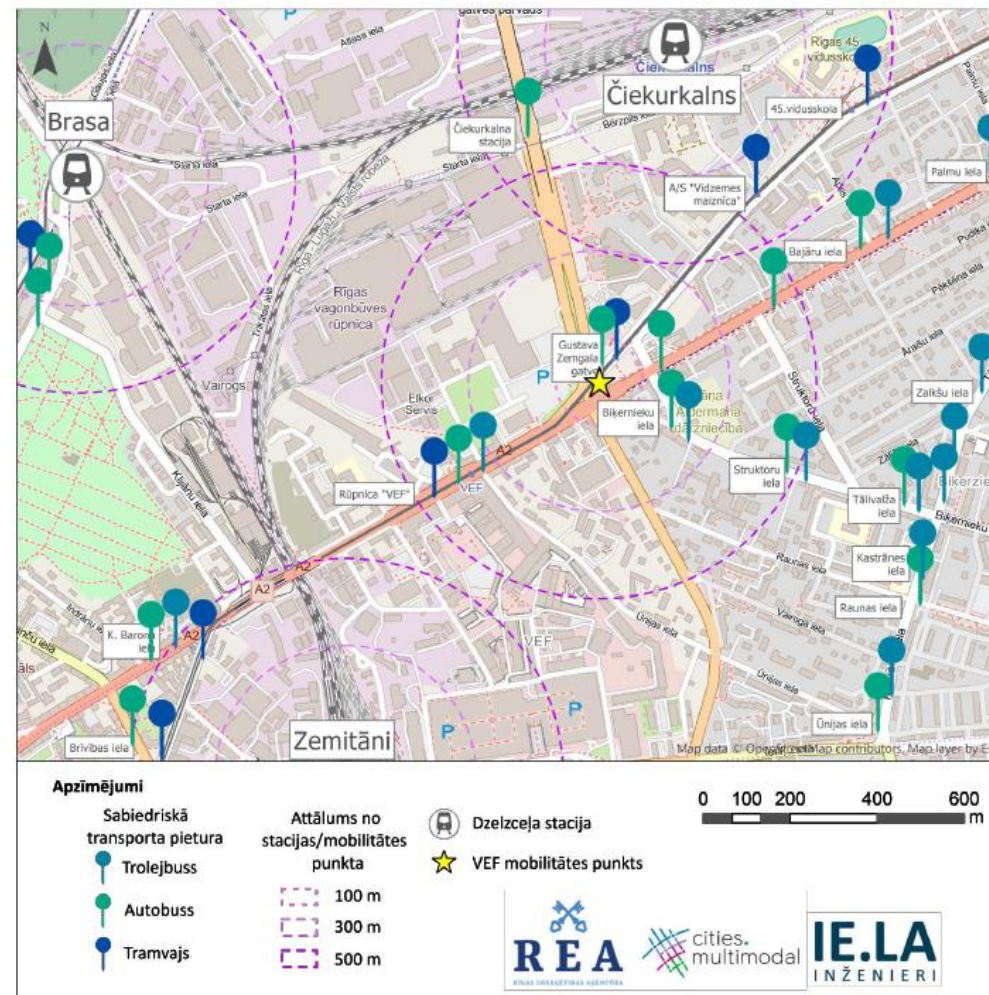
RĪGAS DOMES
SATIKSMES
DEPARTAMENTS



VEAFRESH

IE.LA
INŽENIERI

REA
RĪGAS ENERĢĒTIKAS AĢENTŪRA





MOBILITĀTES PUNKTS



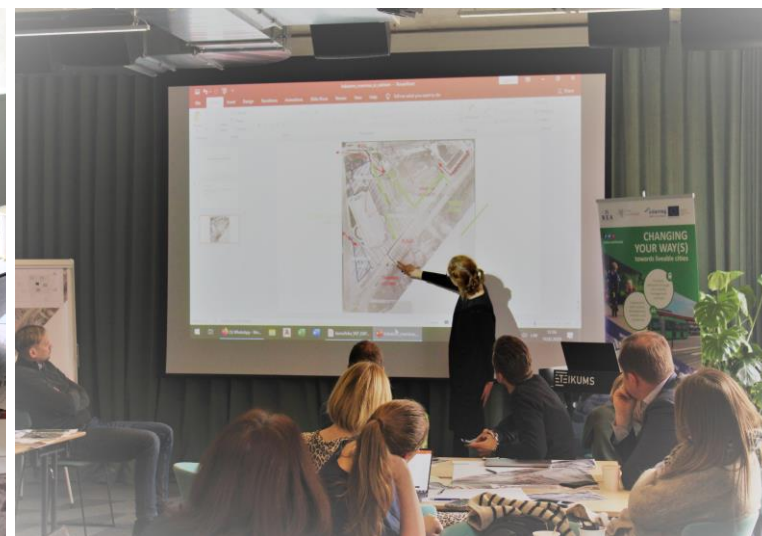
VEF MOBILITY POINT

PARTICIPATIVE APPROACH: MOBILITY MANAGEMENT AND DESIGN HACKATHON IN THE PILOT SITE

- Mobility Management and Design Hackathon in the VEF Area – organized with aim to promote sustainable, climate-neutral mobility in Riga city
- The main tasks of the hackathon were to co-design solutions for balancing interests and relations among all stakeholders: pedestrians, car drivers, cyclists and people with reduced mobility.
- An ultimate goal was to raise awareness on sustainable transport modes and discuss aspects of mobility management at the pilot site



MOBILITY MANAGEMENT AND DESIGN HACKATHON IN THE PILOT SITE



CHALLENGES

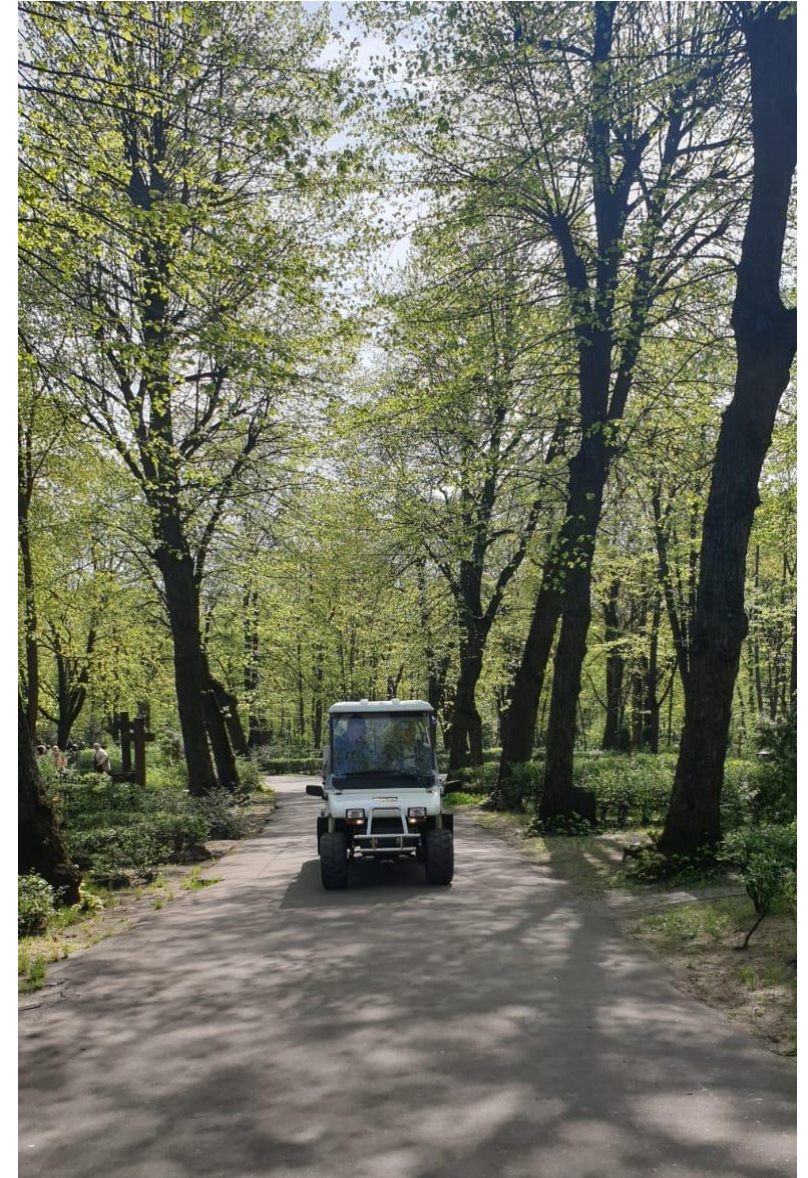
Sustainable urban mobility solutions to reduce further CO₂ emissions in the transport sector



PILOTING E-MOBILITY FOR SOCIAL INCLUSION IN THE MUNICIPAL HOSPITAL



PILOTING E-MOBILITY FOR SOCIAL INCLUSION IN THE CEMETERY



BSR
ELECTRIC



EUROPEAN
REGIONAL
DEVELOPMENT
FUND

«GREEN» vs. «GRAY»
- integration of Green
Infrastructures and
Nature Based
Solutions in urban
transport
infrastructure

NATURE IS
BETTER THAN
CONCRETE





THANK YOU FOR YOUR ATTENTION!