



REAA

RĪGAS ENERĢĒTIKAS AĢENTŪRA

CAN E – SCOOTERS BE ECONOMICALLY SUSTAINABLE INSTRUMENT OF SOCIAL INCLUSION

RIGA MUNICIPAL AGENCY «RIGA ENERGY AGENCY»

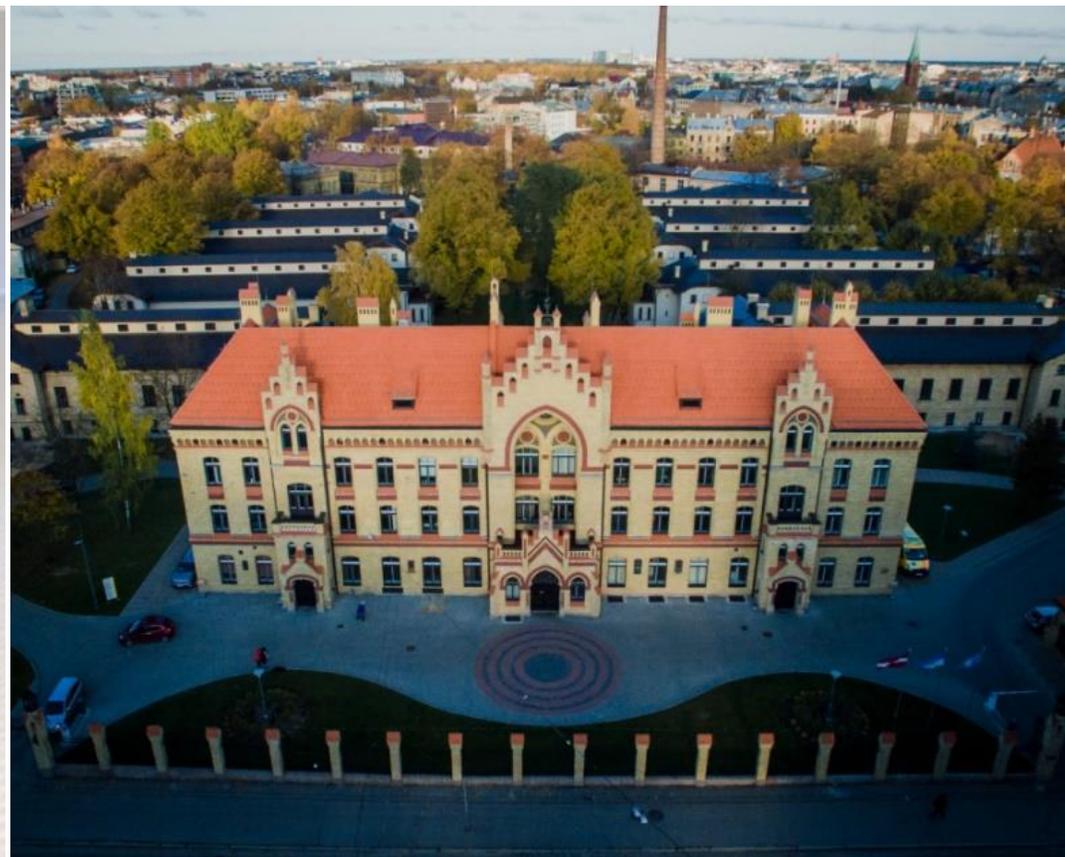
09.09.2020.

GOAL

Using e-scooters by municipalities to decrease social exclusion of senior and disabled residents and to allow increased access to various restricted environments



PILOTING E-MOBILITY FOR SOCIAL INCLUSION IN THE MUNICIPAL HOSPITAL



MODEL: SHOPRIDER EXPLORER. SPEED: 10 KM/H. WEIGHT: 300KG.
RANGE: 30 KM. RECHARGING: 8 H. CHARGER: 220V.

Results:

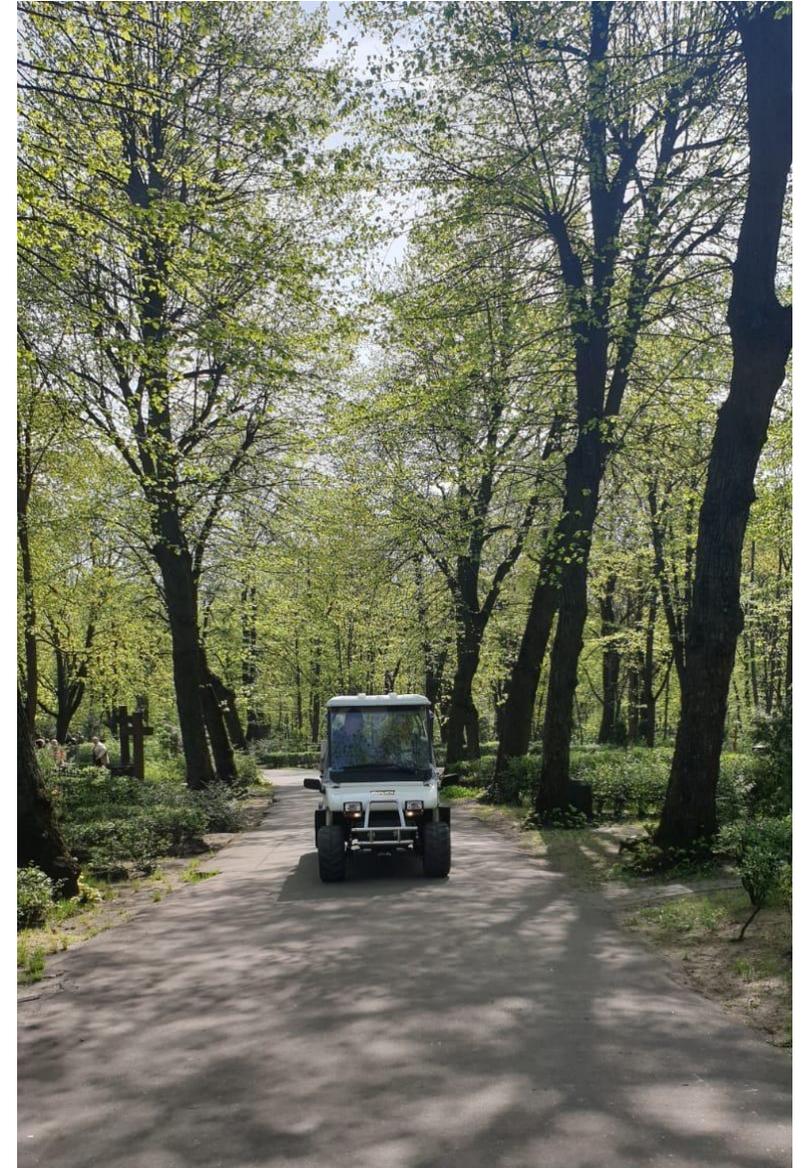
- Good technical parameters. No technical problems. Daily positive reviews from patients.
- The e-vehicles are used to move patients between 4 departments of Heart Surgery Division. It has been noticed that **e-vehicles significantly improve the mobility not only of the patients but also to the sanitarias.**
- It is also important to stress out that it is **easy to charge e-vehicles** in the hospital. This can be done in any of 23 hospital buildings, which was an additional benefit of e-vehicles.
- **The trainings for using e-vehicles** was organized for those staff members who showed willingness to use them.



LESSONS LEARNED

- It should be taken into account that the staff working in the hospital is mainly of an older generation - **training should be provided** to staff of all generations.
- As many hospitals (or parts of hospital) are located in buildings which were build a century ago, it is important to take into account that those **premises sizes will be different from more recently built hospitals**. This should be noted when the e-vehicle model is selected.
- It has been suggested by hospital that e – vehicle should have also specific devices, that could be used for **small cargo transportation**. This would ensure patient transportation and also medical transportation. The cargo device should be equipped with termo regulation function.
- The main benefits:
 - E-vehicles increase the capacity of employees.
 - Social inclusion is significantly increased for the patients.
- Technical maintenance of the e-vehicles is easily undertaken.

PILOTING E-MOBILITY FOR SOCIAL INCLUSION IN THE CEMETERY



BSR
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MODEL: MELEX DIAMOND S. SPEED: 16 KM/H (FACTORY SETTINGS MAX 24KM/H).
WEIGHT: 850 KG. RANGE: 60 KM. RECHARGING: 8 H. CHARGER: 220V

Result:

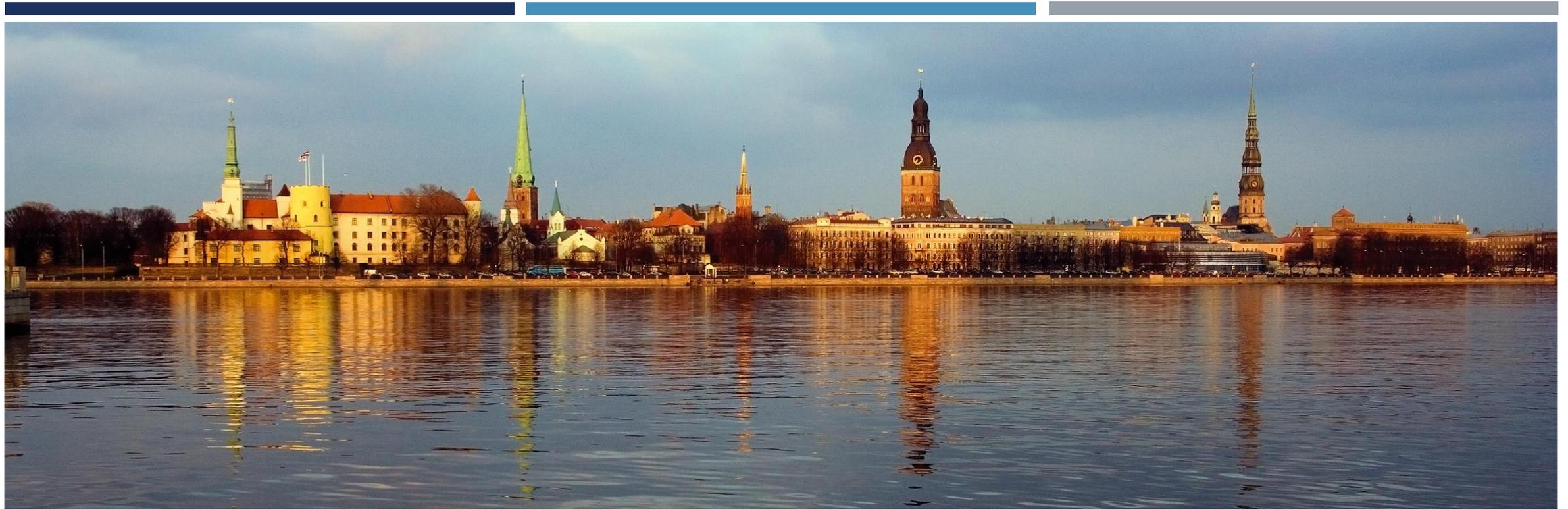
- The e-vehicle is used from Tuesday to Sunday. **More than 30 -50 passangers per week**, who comes to clean the grave, but also a new function is to use it when people are coming to the cemetery to choose the grave place for the funeral.
- The e-vehicle is charged once per day, during the night inside a guarded garage (**drive 30 km per day**).
- Visitors - positive feedback.
- The cemetery staff received **practical training** of e-vehicle usage and maintenance when the e-vehicles were delivered.
- It was smart decision to have a **cargo compartment**, as e -vehicle now is able to transport visitors wheel chairs, or other mobility helping devices.
- Cemetery roads have different surface and are affected by **4 season weather conditions**, cemetery roads have steep slopes, cemetery roads have different width.



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LESSONS LEARNED

- **Specific road conditions** of the particular cemetery should be taken into account (surface; weather impact) when selecting the e-vehicle model.
- **People visit cemeteries all year long.** Taking into account the weather conditions in different seasons, the e-vehicle has to be protected from rain and wind in cold seasons and a pleasant drive has to be ensured in the hot season.
- Due to the fact that **e-vehicles have almost no sound**, cemetery visitors haven't had any objections for their usage in the area.
- E-vehicles also provide **transportation of freight and visitors' property** (such as wheelchairs).
- **Social inclusion is significantly increased** for cemetery visitors.



THANK YOU FOR YOUR ATTENTION!