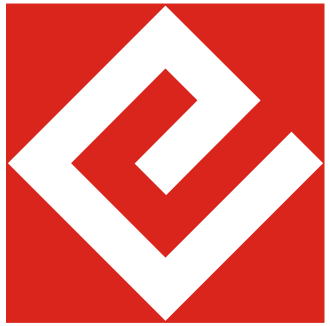
Fraunhofer



ELVAC

VSB TECHNICAL UNIVERSITY OF OSTRAVA | FACULTY OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

E-Town a joint international project

Jan Grossmann, ELVAC a.s.

prof. Ing. Petr Bilik, Ph.D., VŠB-TU Ostrava

Basic facts

Development of Small Electric Vehicles for Intergenerational Urban E-Mobility Concepts Powered by Smart Infrastructure

- Funding: INTER-EXCELLENCE – CZ Ministry of Education, Youth and Sports
- Budget: 620 000 EUR
- Realisation: 2021–2022
- Target: Smart infrastructure for securing and charging e-scooters and e-bikes
- Target: Parameter tester for e-scooters and e-bikes

smelvee.HUB

e-scooter storage

smelvee.HUB

e-scooter and e-bike charging stand

smelvee.APP

Self-service rental of charging positions for small e-vehicles:

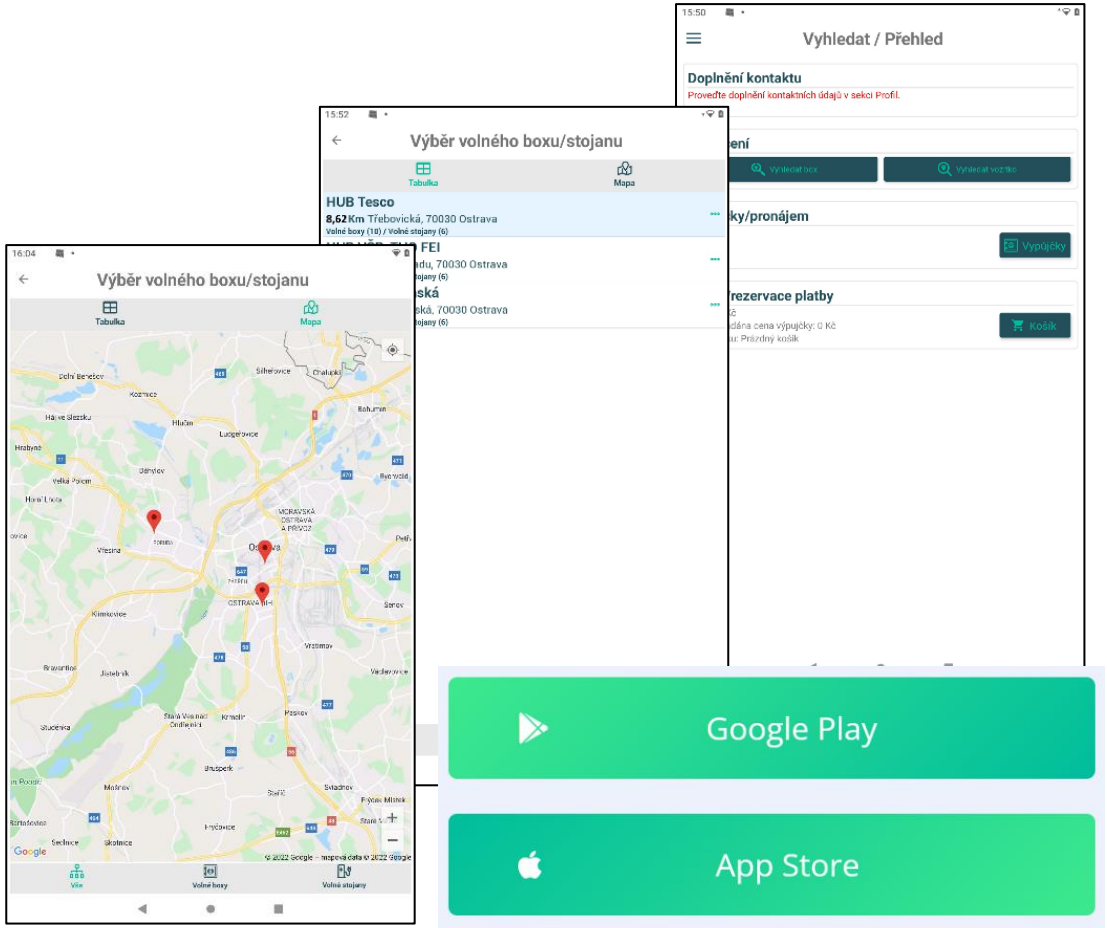
- Charging boxes for folding electric scooters (and e-bikes soon)
- Charging stands for e-bikes, e-scooters/motorcycles
- Charging stands for small e-cars

Self-service e-vehicles rental:

- Folding electric scooters
- Small e-cars
- E-bikes (next version of boxes)

Get a charging HUB or e-vehicles,

- share them and earn from it



smelvee.HUB save and charge + smelvee.APP save and charge

= SMall ELectric VEhicles Ecosystem

the infrastructure for easy life in our green future

E-bike, e-scooter parameters tester

- Pedal drive
- Wheel brake
- Rotation and torque precise measurement
- Comfortable SW application for performing tests:
  - Maximum speed
  - Maximum power
  - Vehicle range on defined track

Thank you for your attention

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