

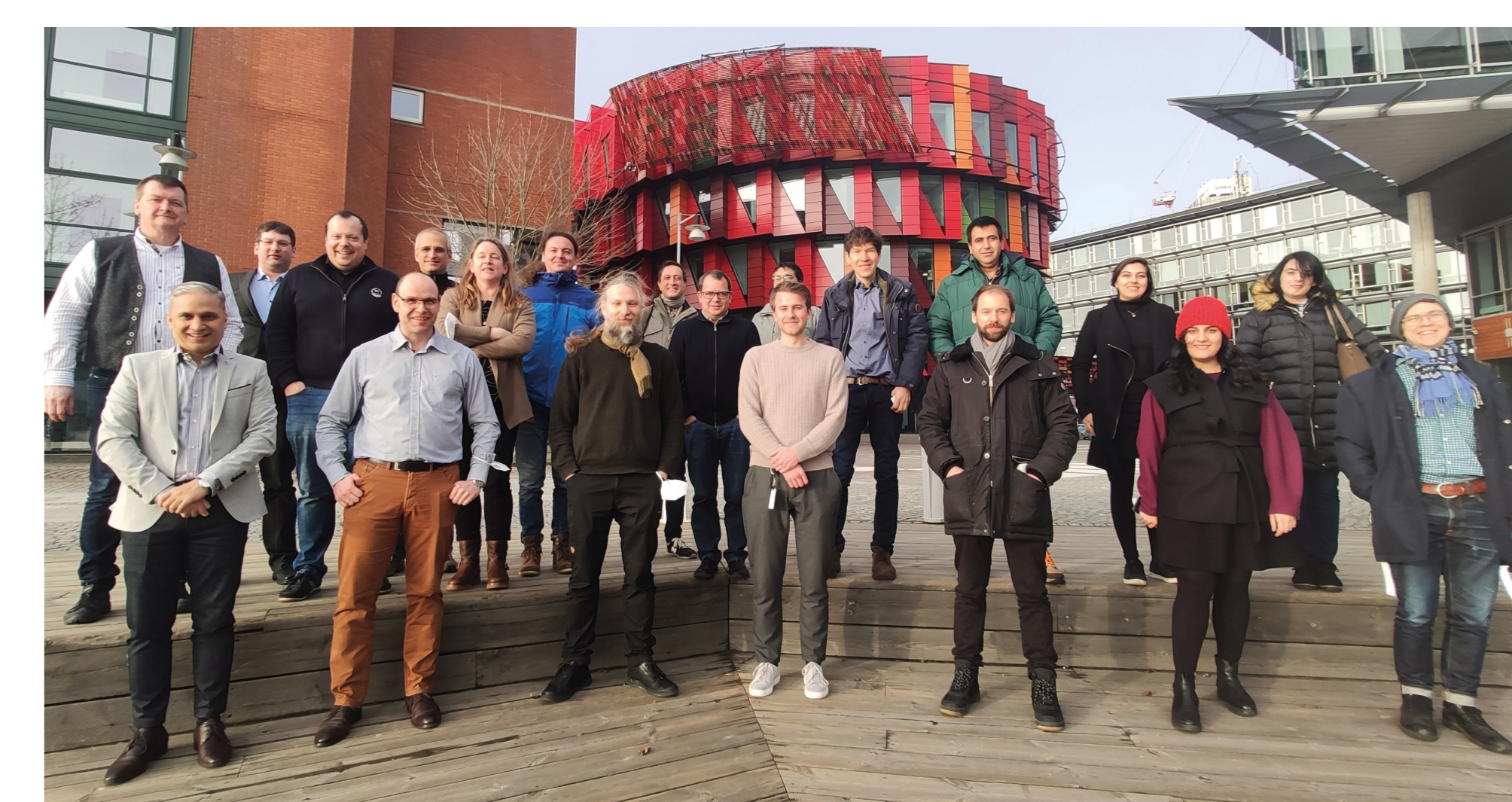
# VEDLIOT

Very Efficient Deep Learning in IoT

## OUR GOALS

**10x** improvements in performance and energy-efficiency for AIoT

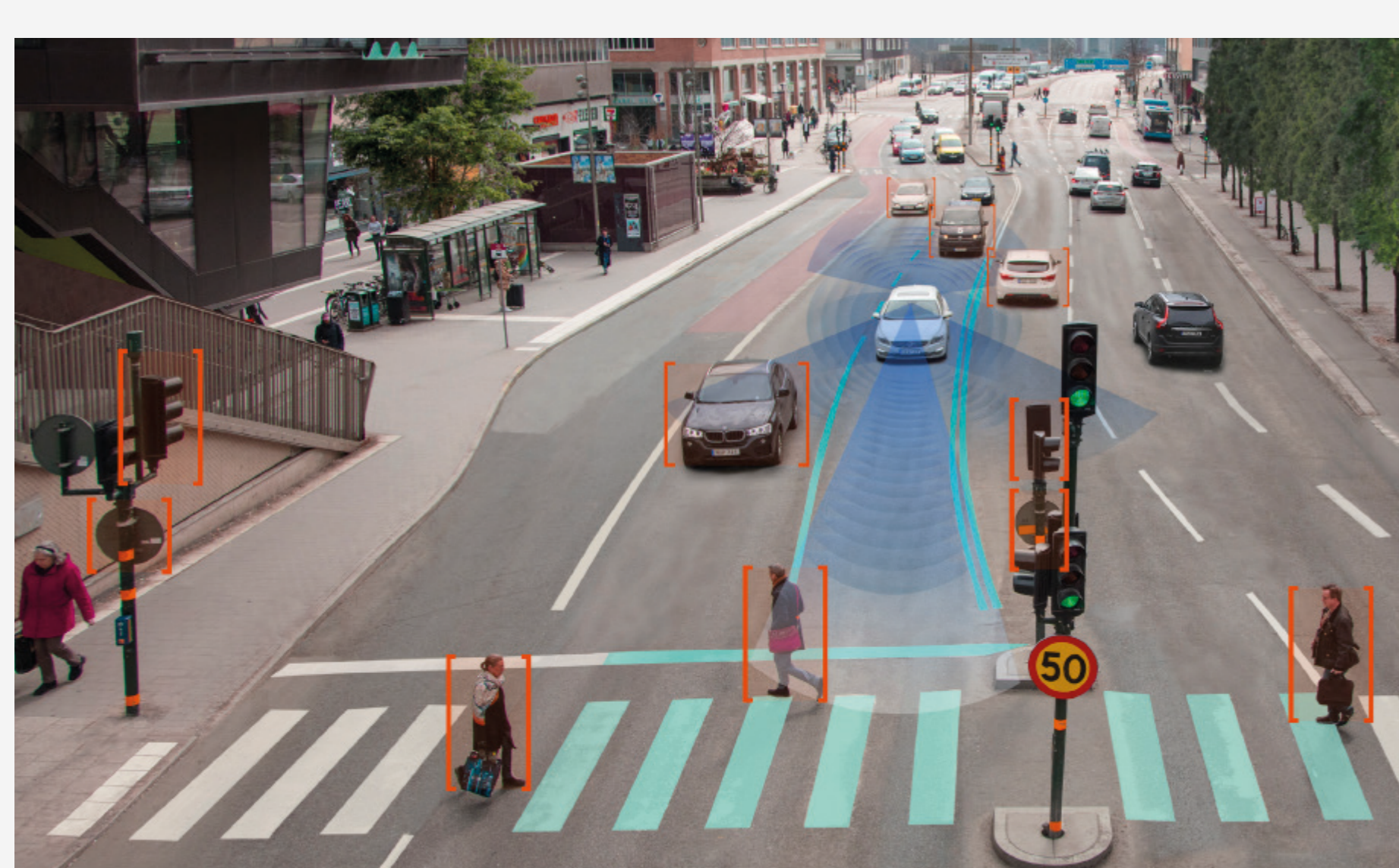
- ✓ Heterogeneous hardware platform
- ✓ Co-designed accelerators
- ✓ Optimising toolchain for Machine Learning
- ✓ Harden AIoT systems: Increase security, safety and robustness



## OUR TEAM

## OUR USE CASES

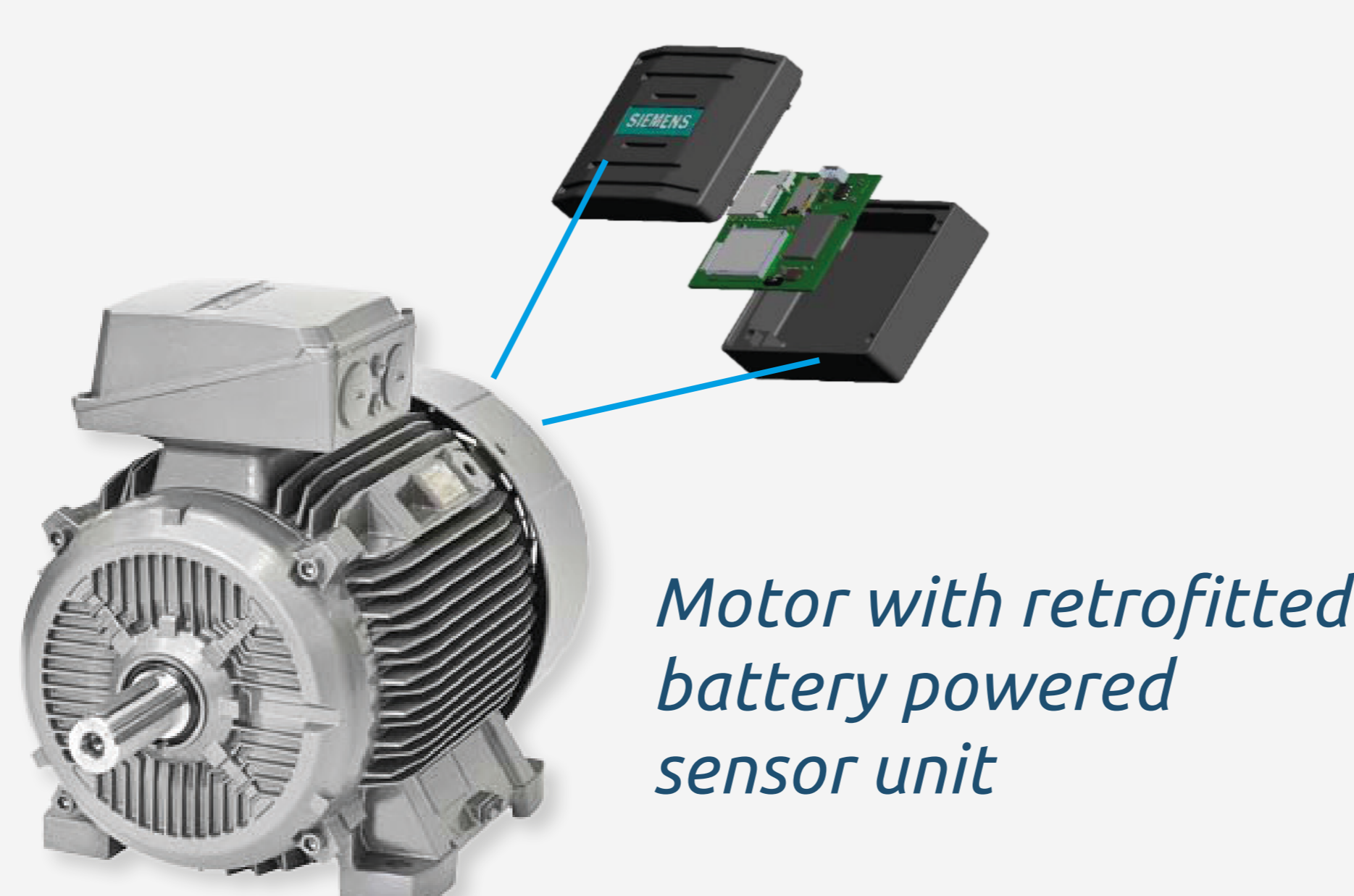
### Automotive



- Pedestrian Detection for autonomous emergency braking
- Dynamically distributed computation on far edge, near edge and cloud hardware at run-time
- Energy-efficiency and safety as key objectives

### Industrial IoT

- Predictive maintenance for direct driven motors
- AI-based sensor fusion for improved prediction accuracy
- Key objective is energy-efficiency for longer battery lifetime



### Smart Home

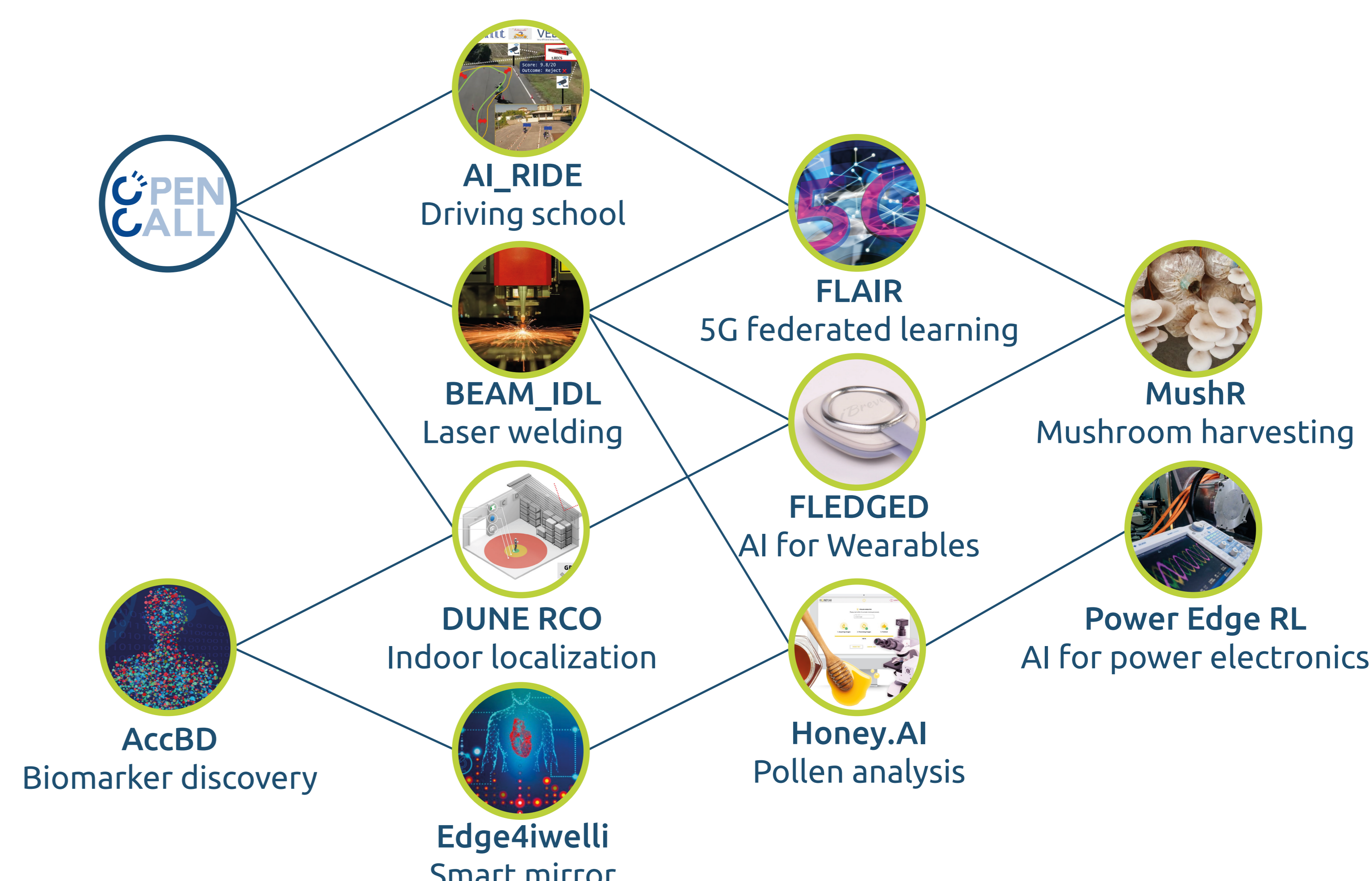
- Smart Mirror as an intuitive interaction interface for AI-assisted living
- Multiple neural networks work in parallel for gesture, object detection and face recognition
- Integrated voice assistant including Natural Language Processing (NLP)
- Privacy and efficiency are key objectives



## PROJECT PARTNERS



## OPEN CALL PROJECTS



## CONTACT US

### General Contact channels

- [www.vedliot.eu](http://www.vedliot.eu)
- [info@vedliot.eu](mailto:info@vedliot.eu)
- +49 521 106-12047

### Social media

- @VEDLIoT
- VEDLIoT EU Project
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