

IMA within WITTE AUTOMOTIVE



15.11.2022 Prague, IMAinfo day 2022

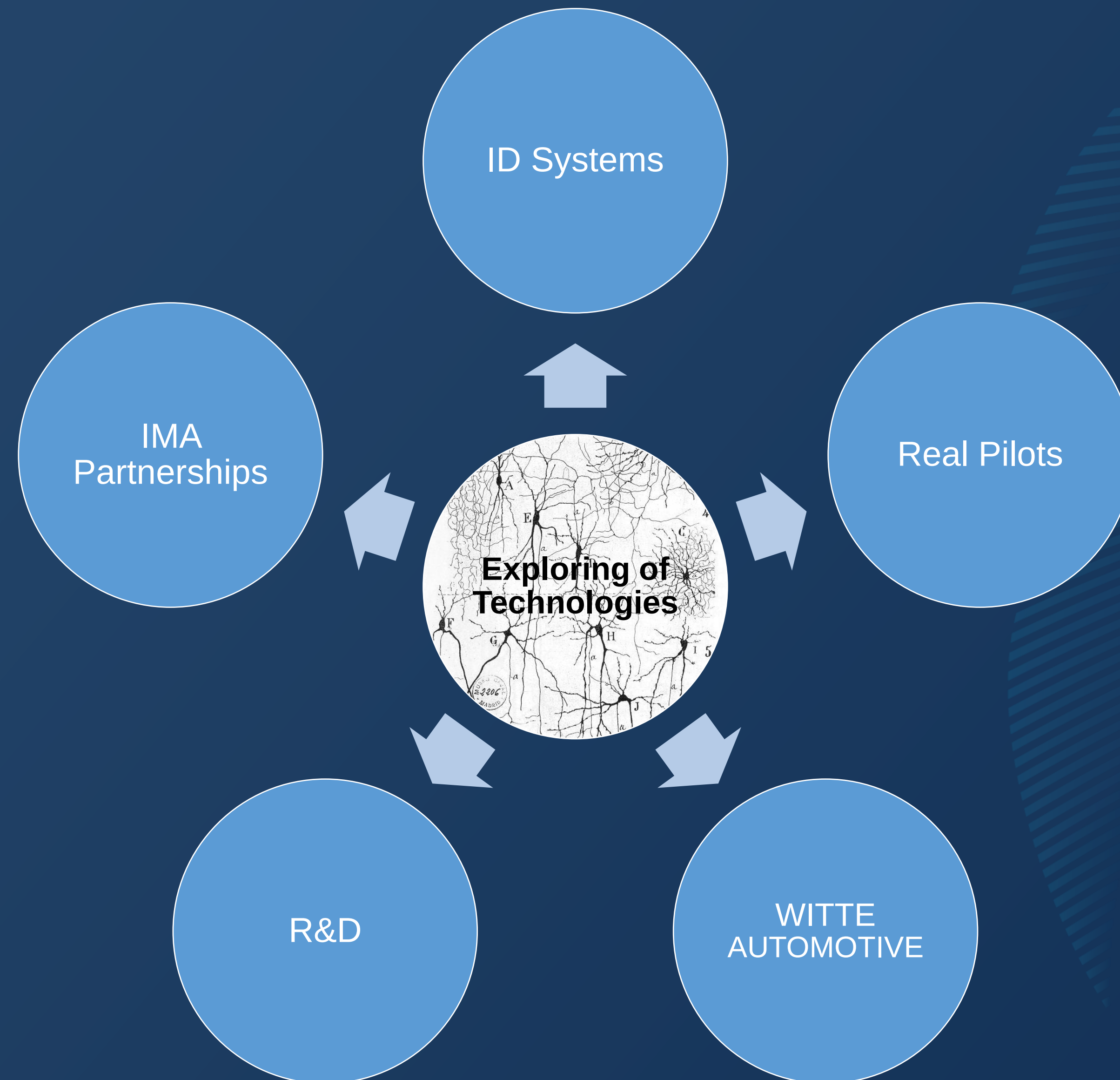


IMA status - reminder

IMA is member of WITTE Automotive since Jan 2021
(SME -> LE)



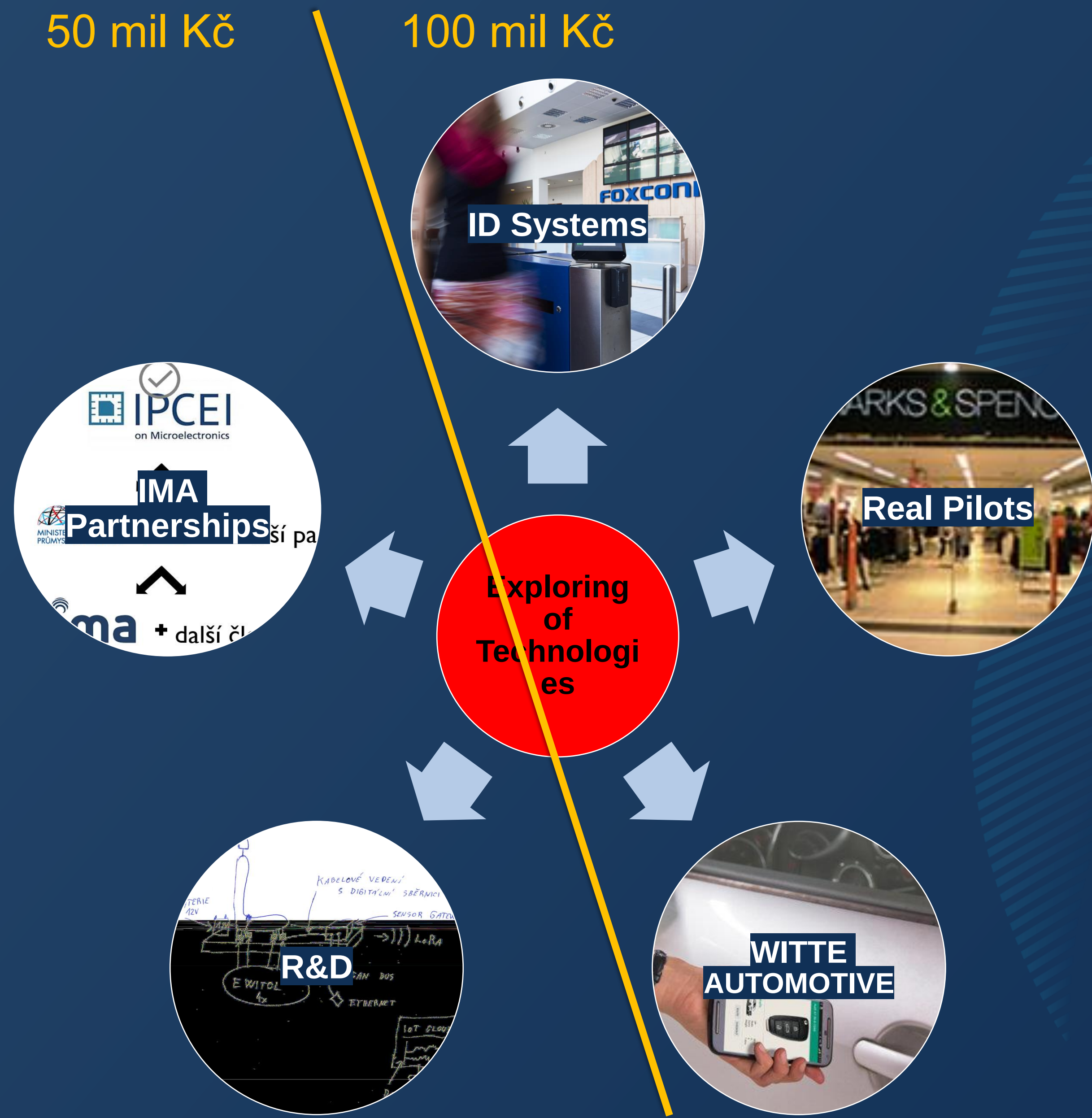
Overall IMA activities



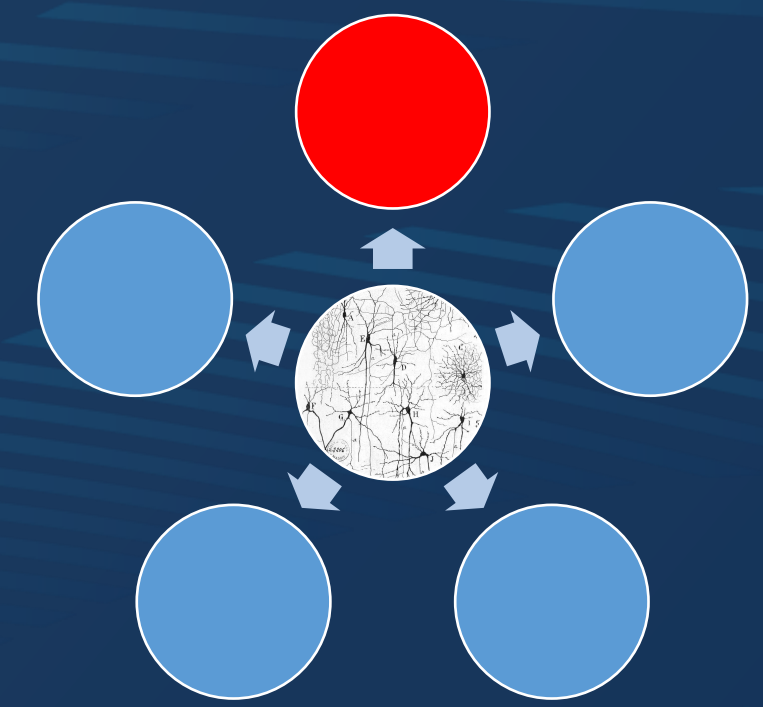
Overall IMA activities



Overall IMA activities



ID systems - our native activity



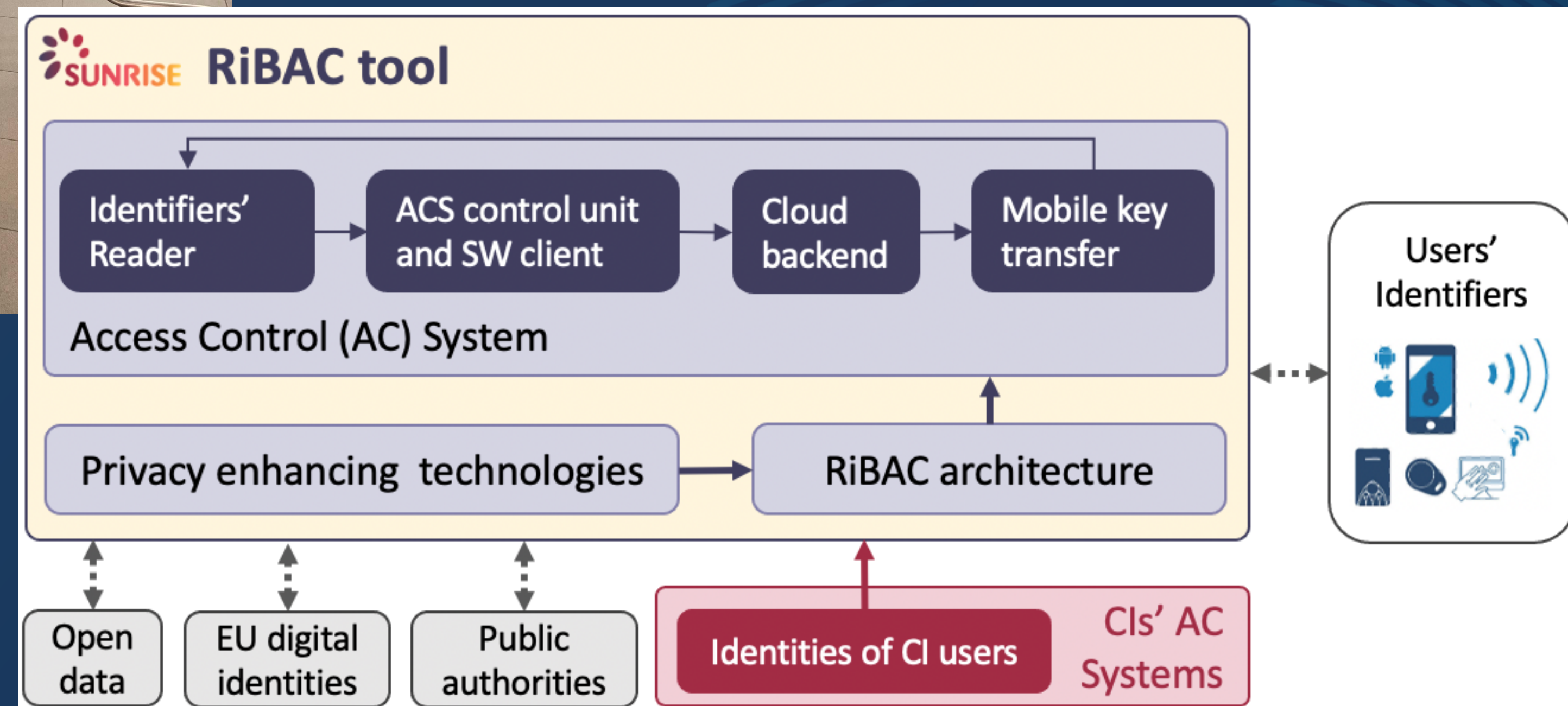
© IDSIMA -> IMAporter PRO

© IMAporter IDcloud -> generic
IMAporter IDcloud -> ISIC

© Critical infrastructures

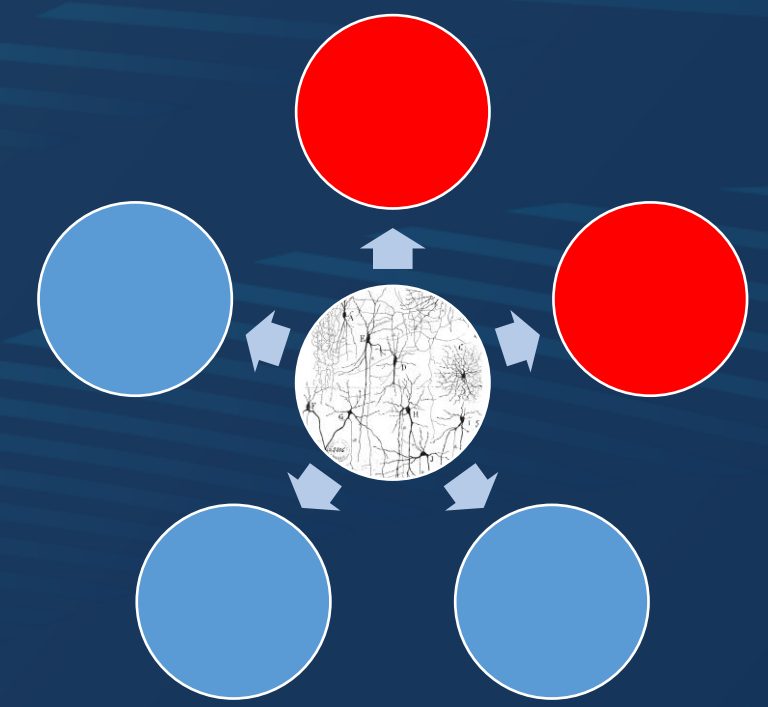
● SUNRISE

● ADOPSIO

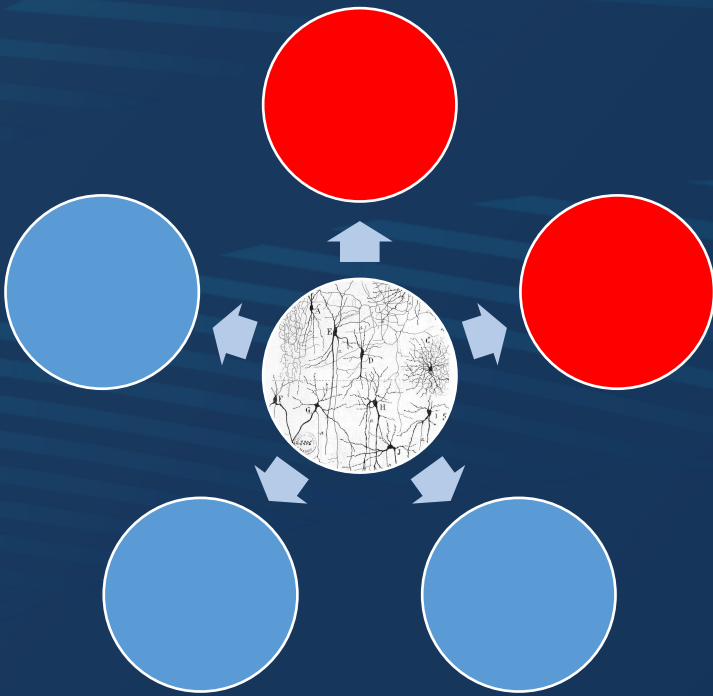


Real pilots

- IoT
- Localization
- EDGE
- Kiosks
- Vending machines
- Industry4.0

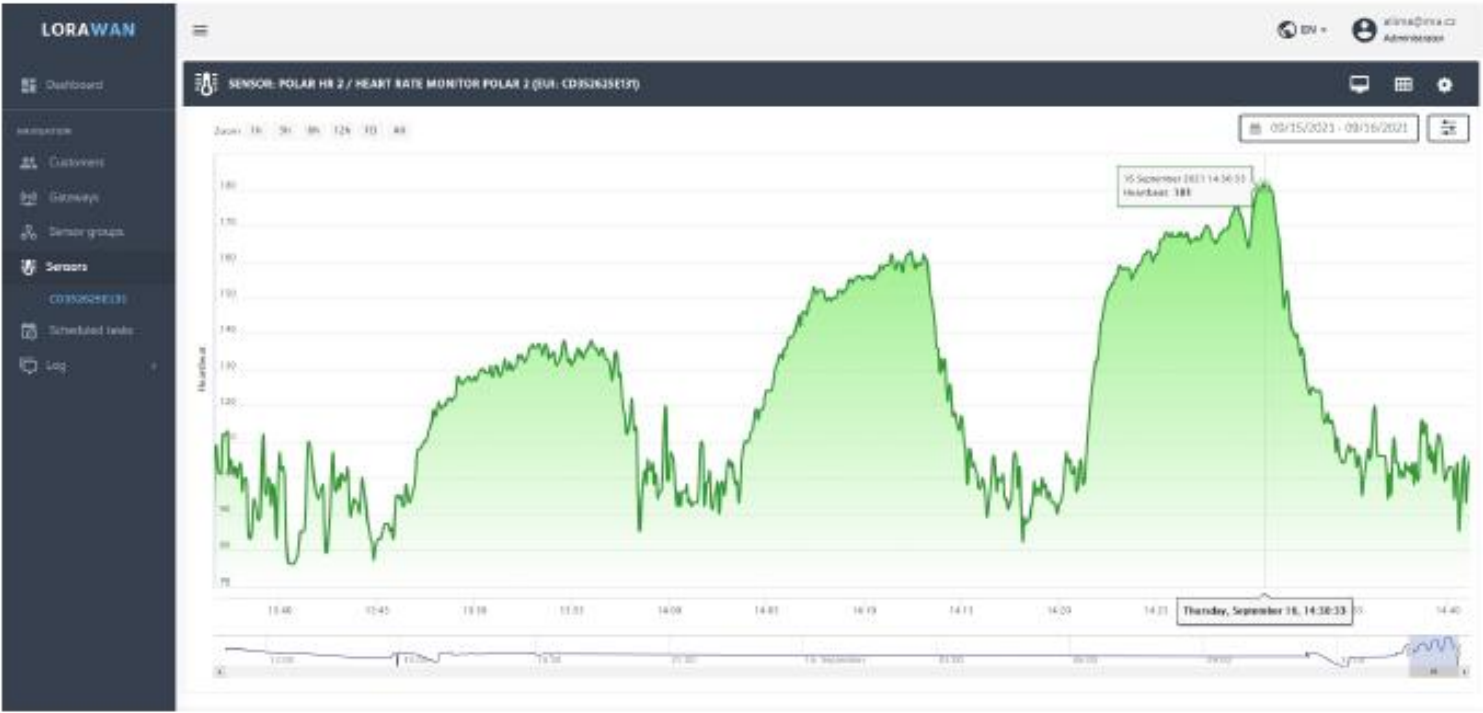


Real pilots

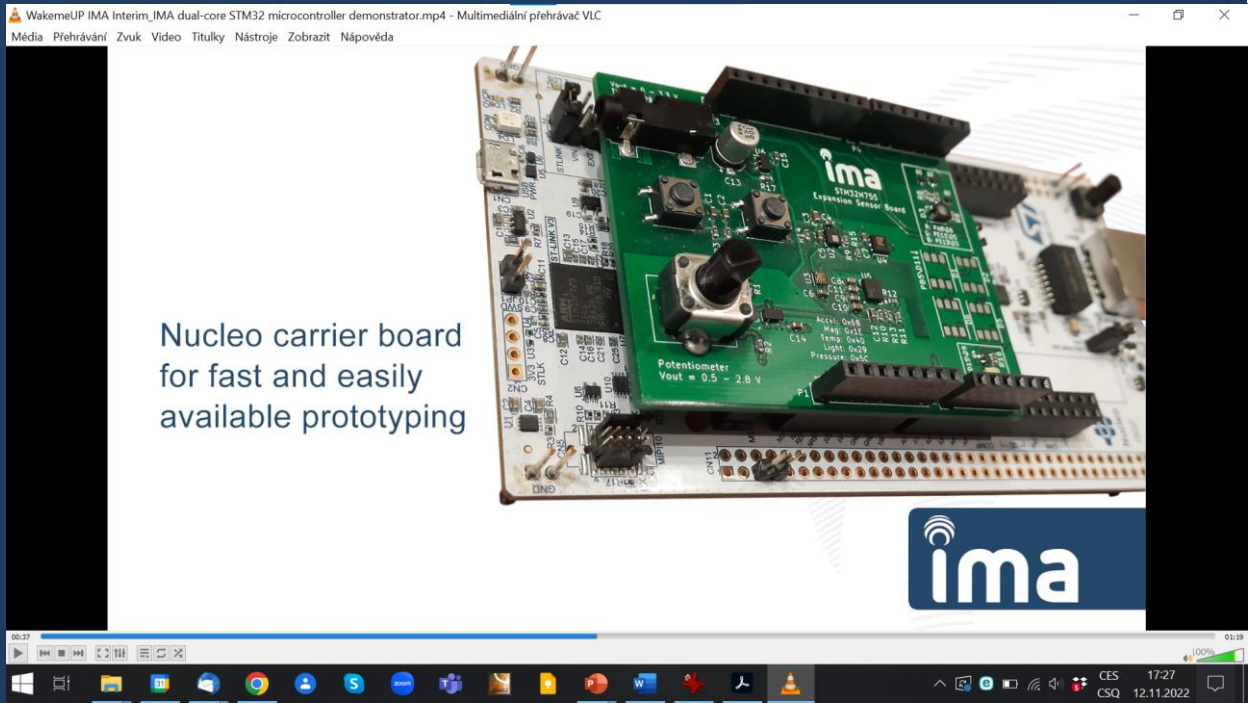


- IoT
- Localization
- EDGE
- Kiosks
- Vending machines
- Industry4.0

Pilot testing in Prague fitness



Heart rate sensors produced by Mio and Polar were used. Two athletes tested various fitness machines; such as a treadmill, a rowing machine or a stepper. The data was stored in Azure cloud and graphically visualized.



WITTE AUTOMOTIVE

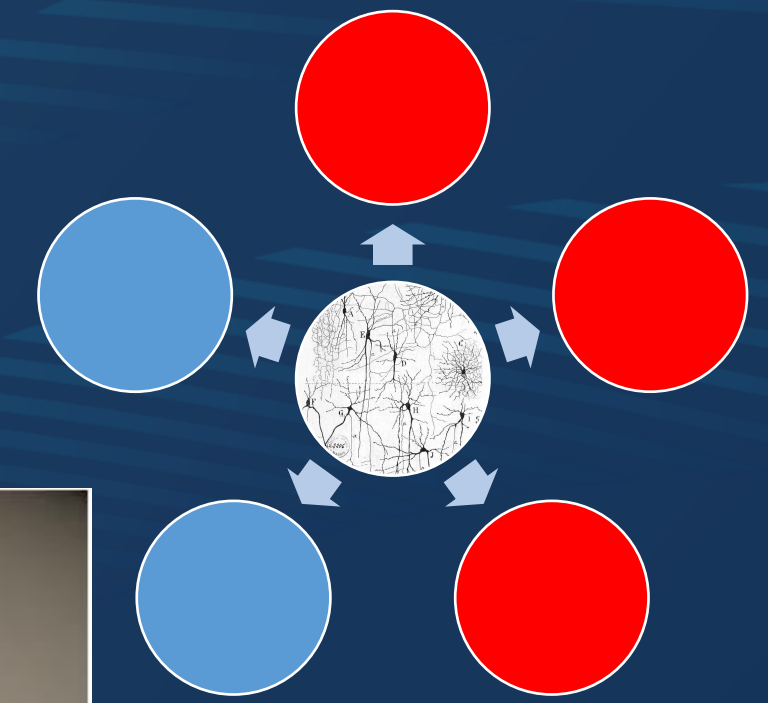
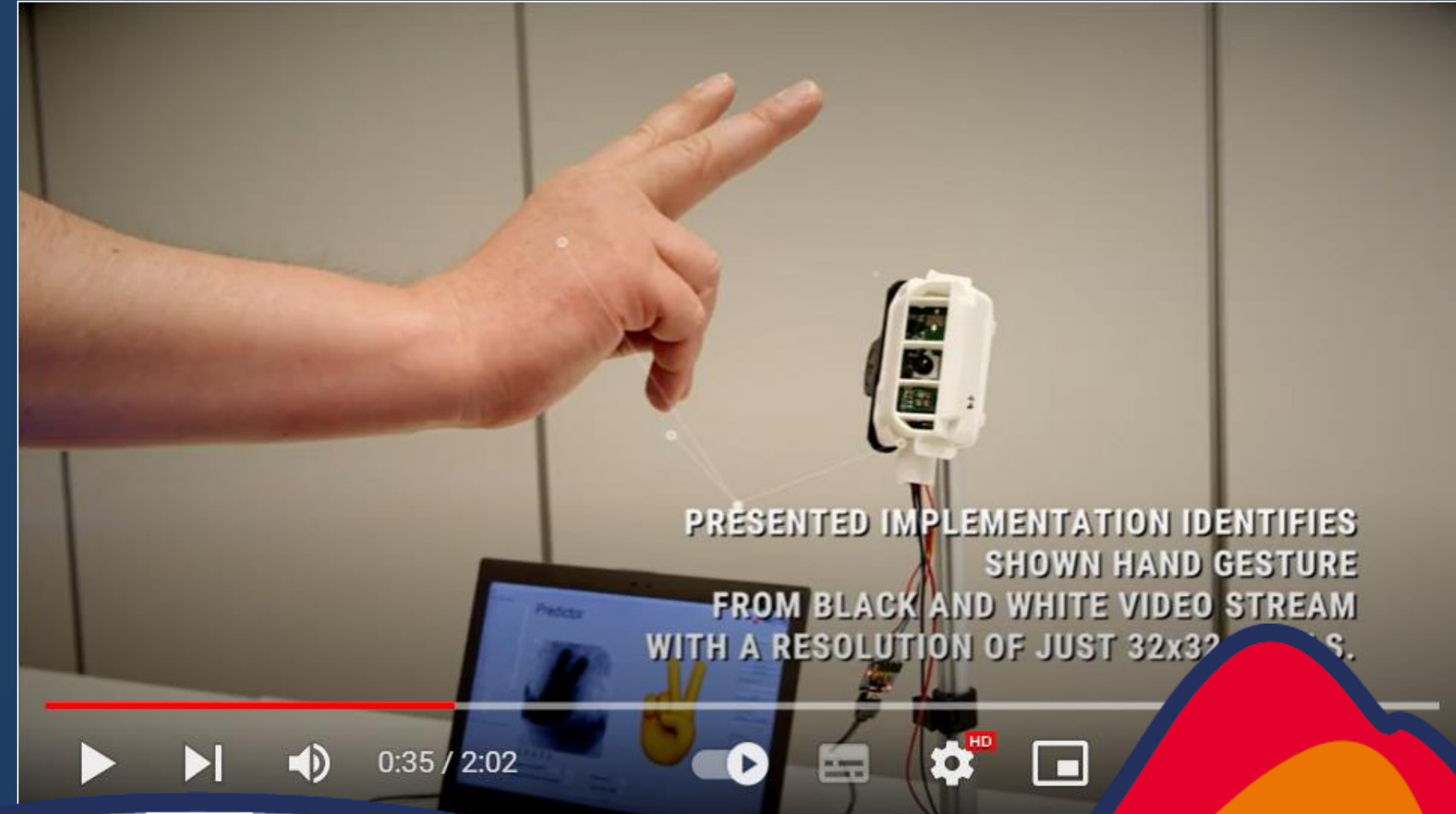
© E-latch, power slide doors

© Technologies

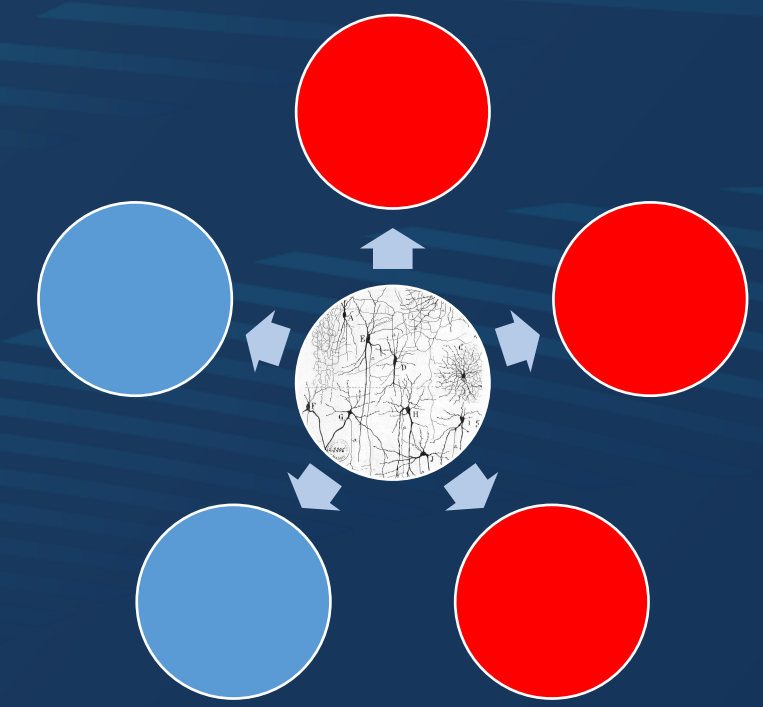
ToF, radar, NFC

MCU HW/SW, AI SW

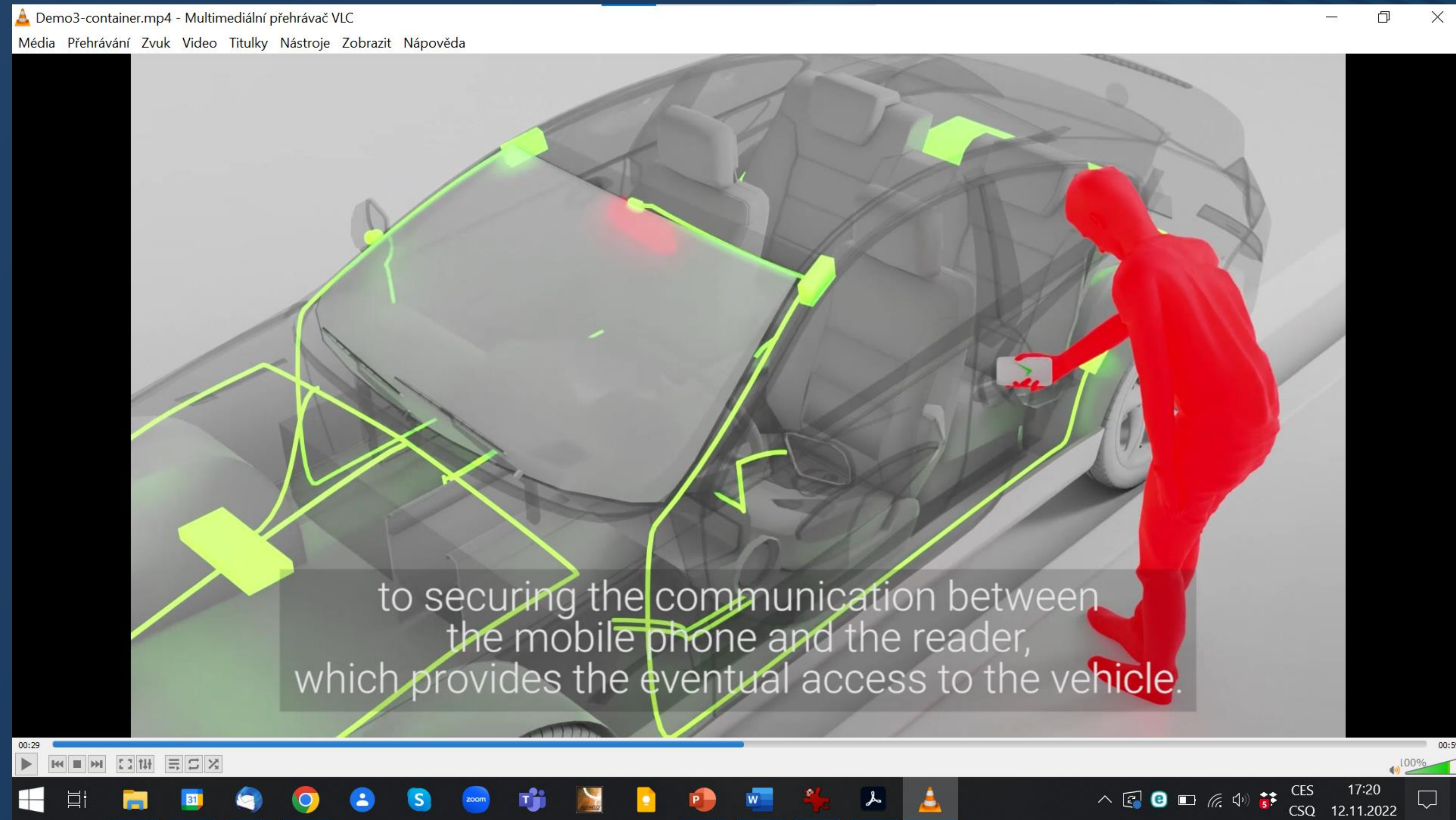
© Testing



WITTE AUTOMOTIVE

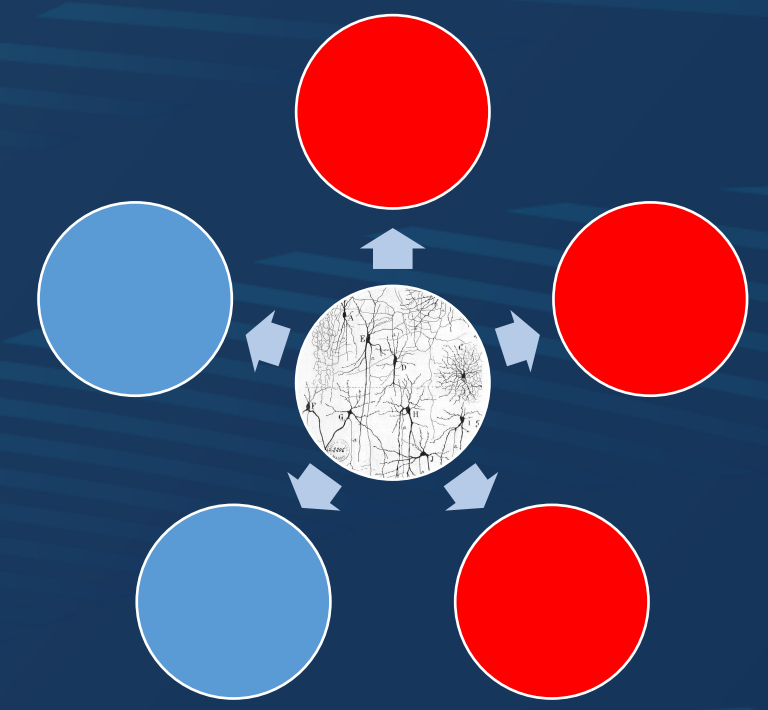
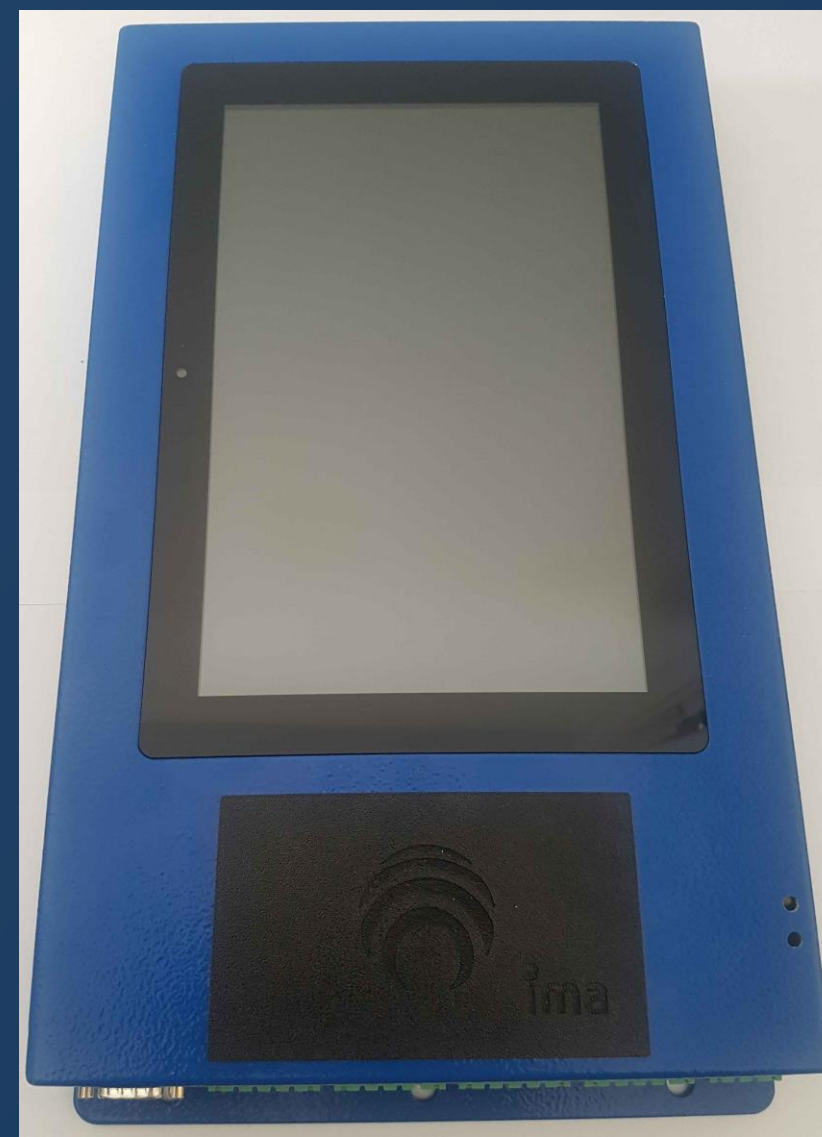


- © E-latch, power slide doors
- © Technologies
 - ToF, radar, NFC
 - MCU HW/SW, AI SW
- © Testing

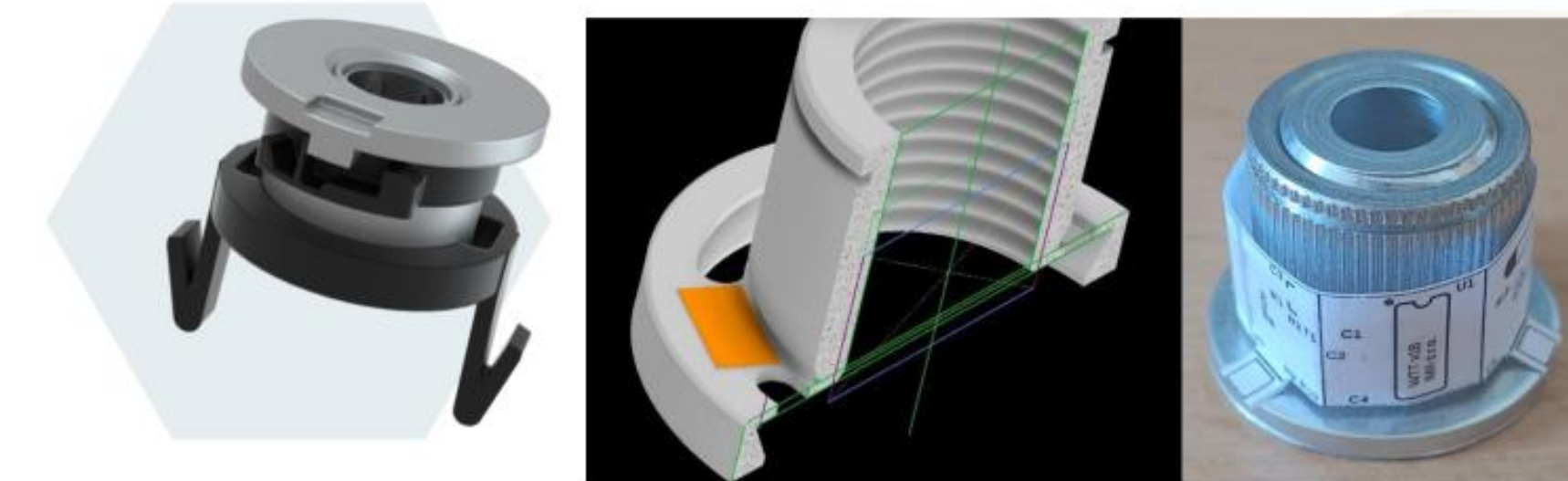


WITTE AUTOMOTIVE

- ☾ AI / EDGE
WITOL DAIS
- ☾ Industry 4.0
WITTE Nejdek ScanPoint...



eWITOL



☾ WITOL -> eWITOL

- Mechanics – Add deformation area
- Electronics – Flex PCB around eWITOL
- Load sensors (strain gauges)
- Accelerometer, light, temperature...
- Automotive gateway for CAN and IoT

☾ Use cases - scenarios

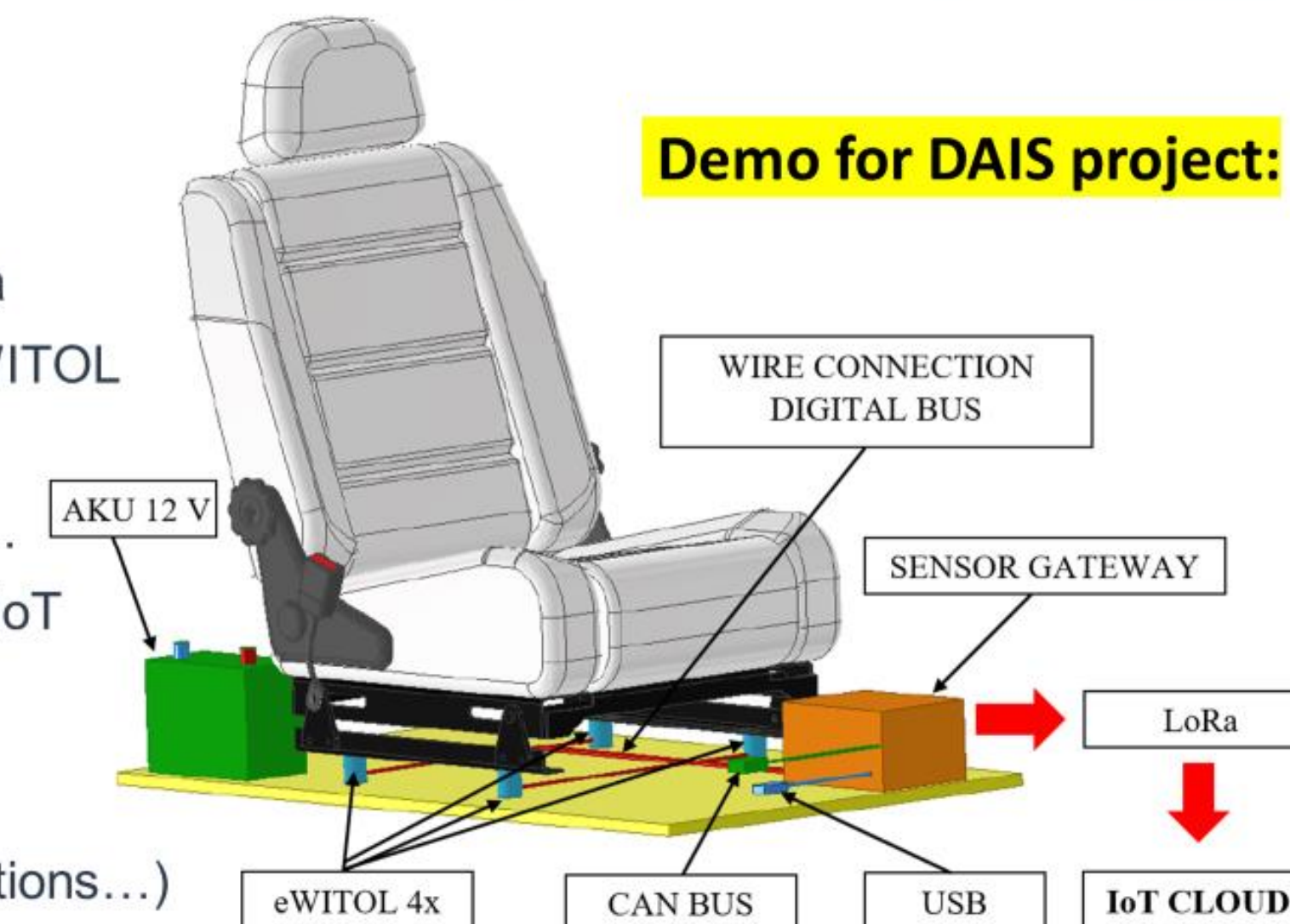
- Car seat (Passenger? Child? ...)
- Glass mount on the building (vibrations...)
- Medical surgery for bones extension

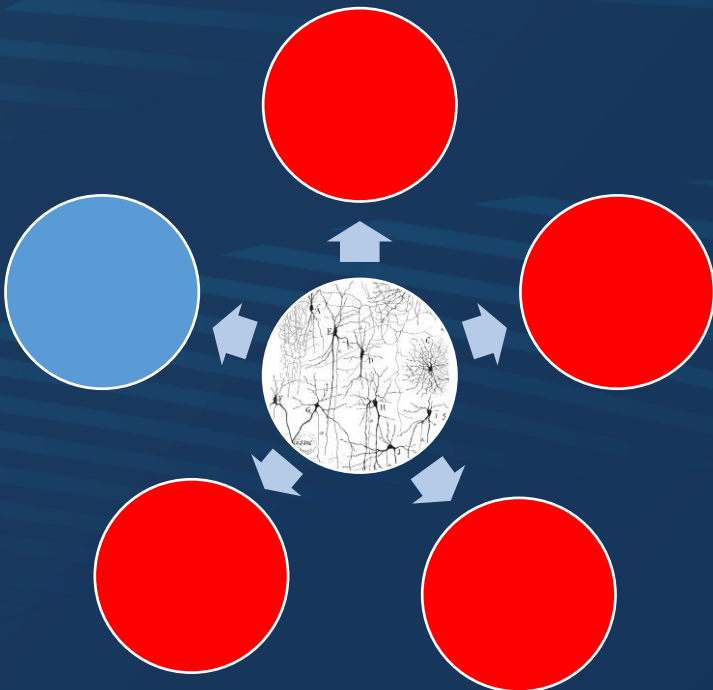
☾ Cooperation with technical universities in Liberec and Brno

- Mechanical part manufacture - Liberec, Secure data collecting - Brno

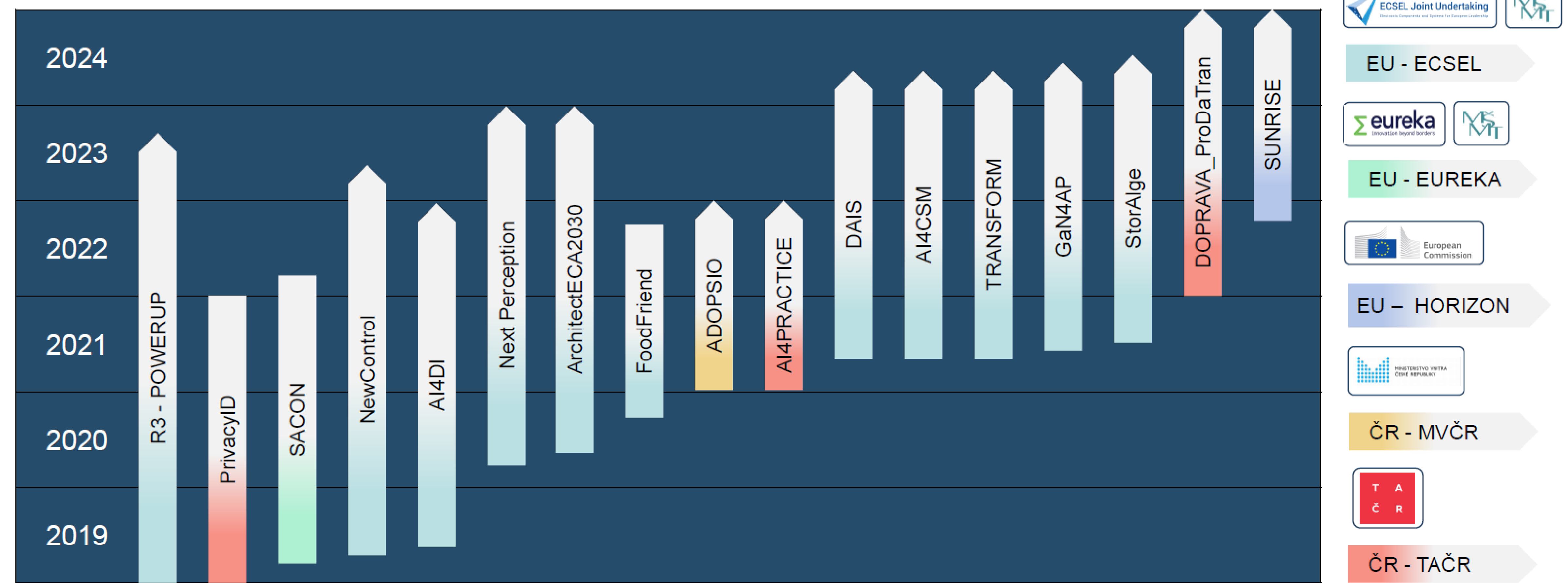
☾ Cooperation with WITOL team on specifications and tests

Demo for DAIS project:





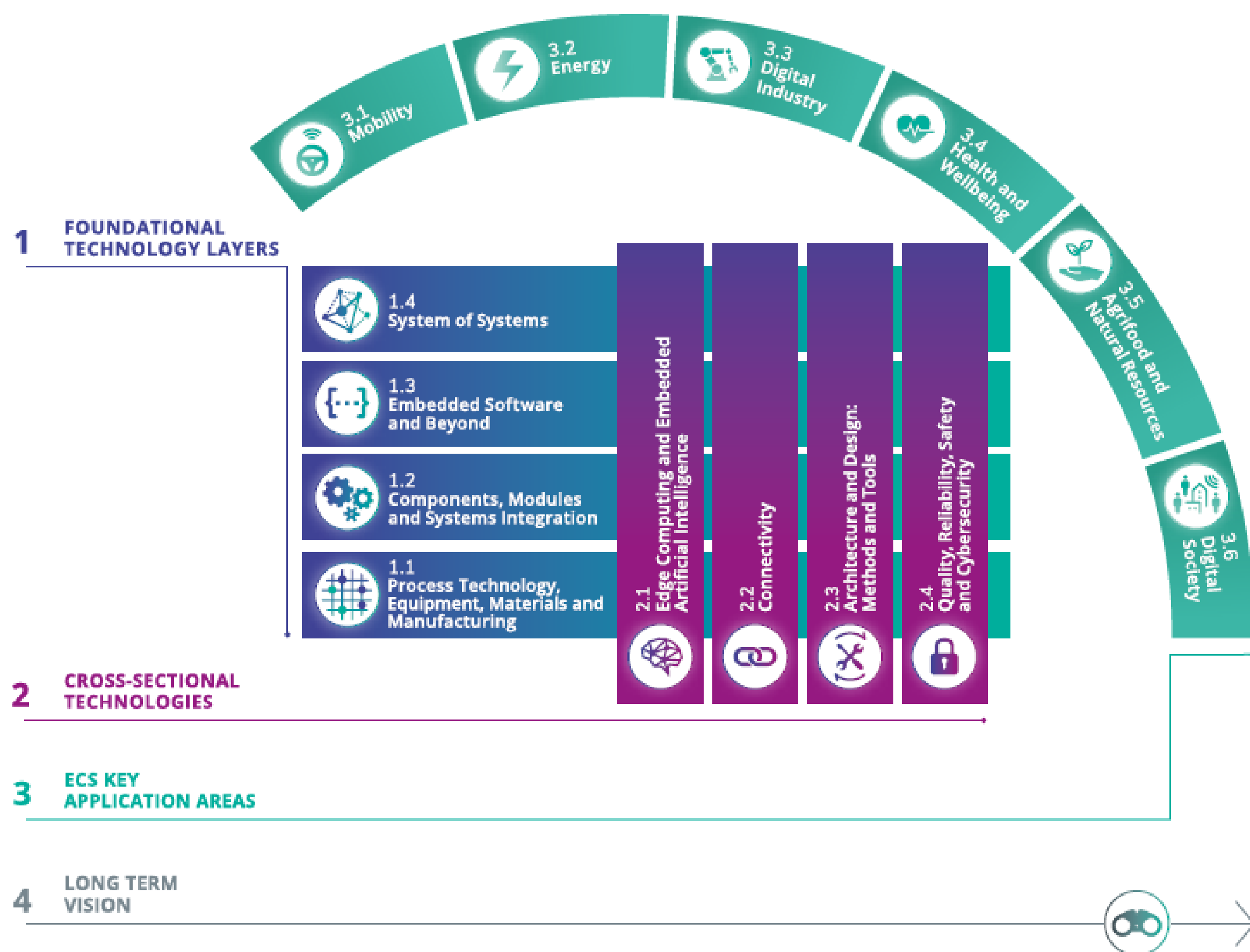
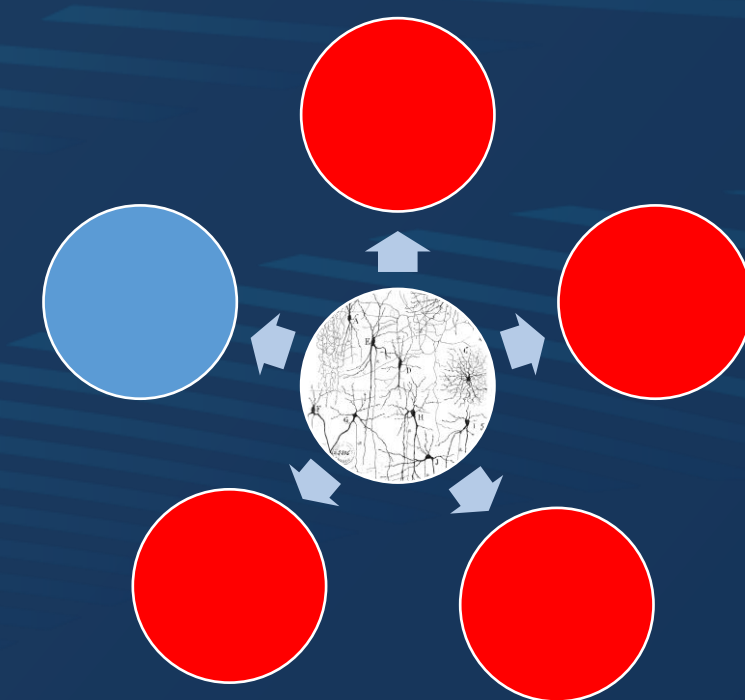
Ongoing czech and international projects



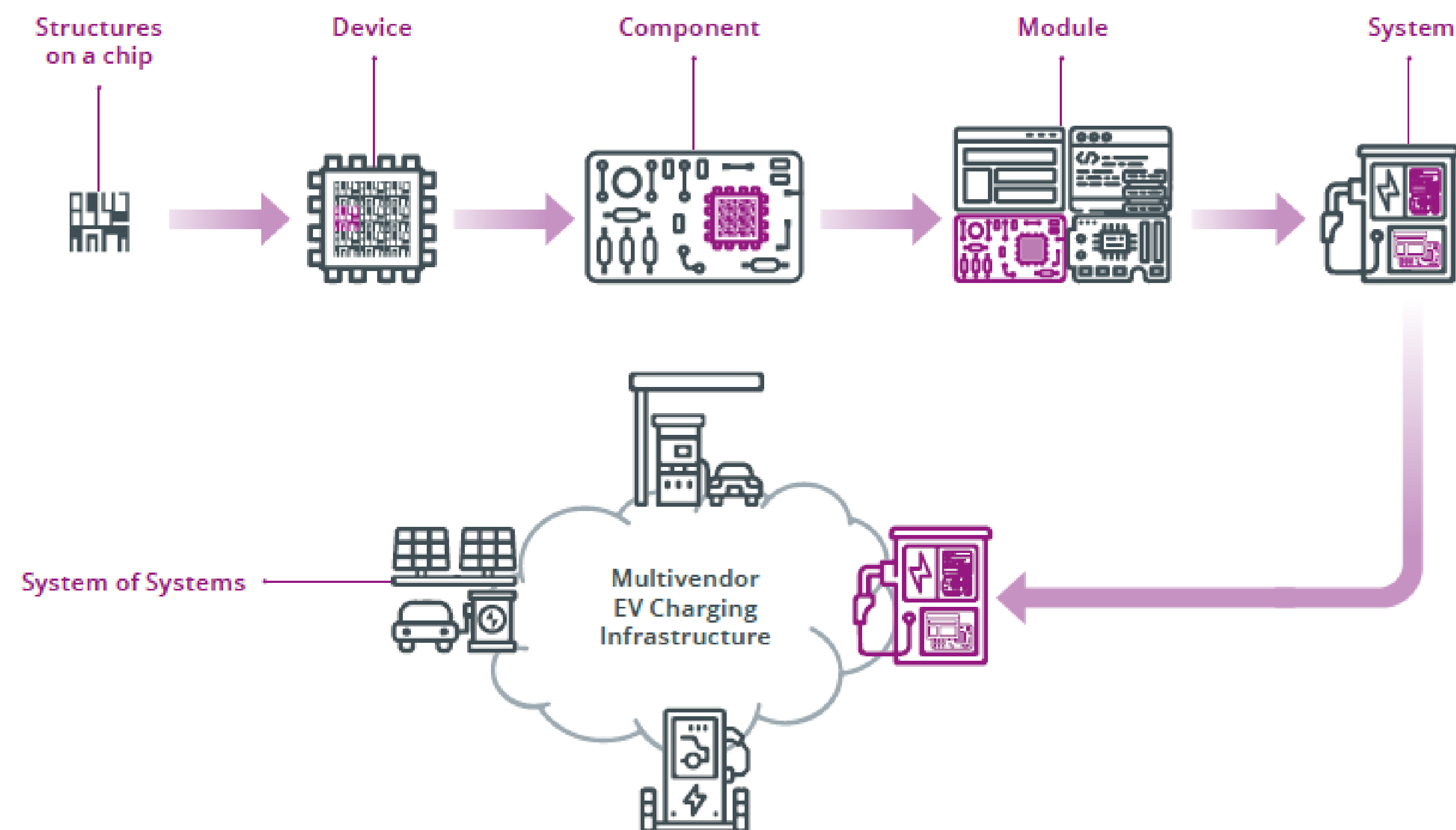
R&D

ECS-SRIA 2022

ELECTRONIC COMPONENTS AND SYSTEMS Strategic Research and Innovation Agenda 2022

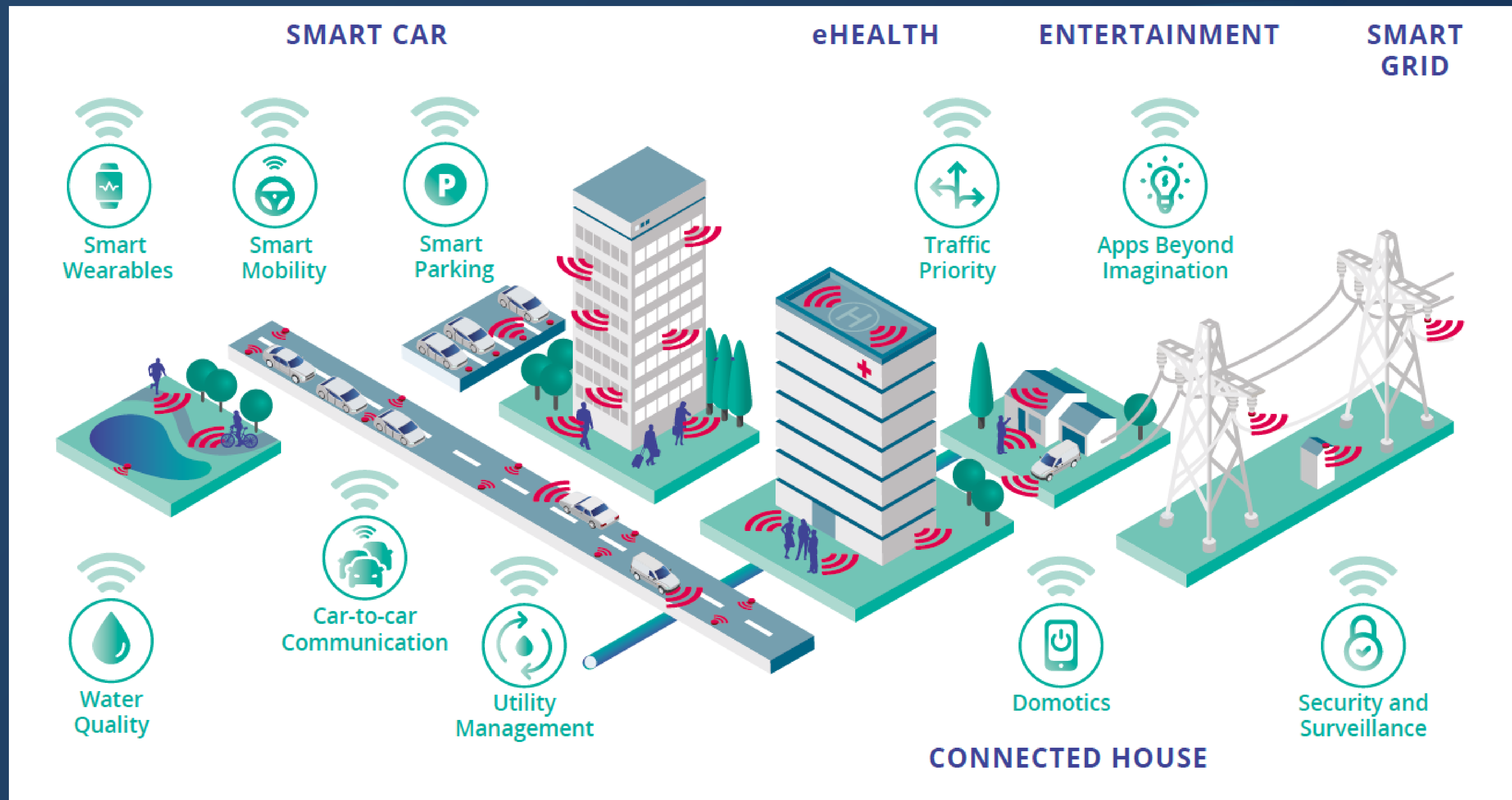
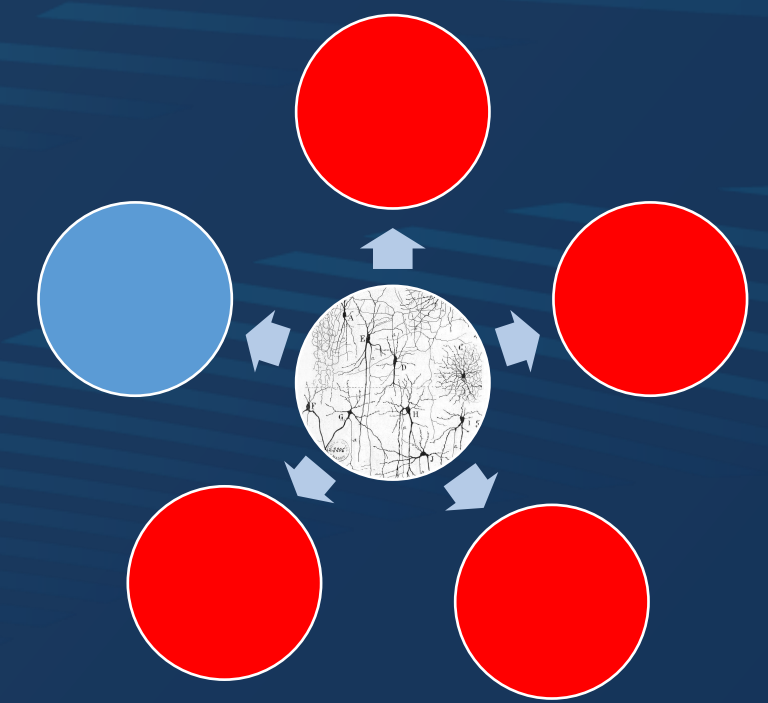


EXAMPLE OF ELECTRONIC COMPONENTS AND SYSTEMS

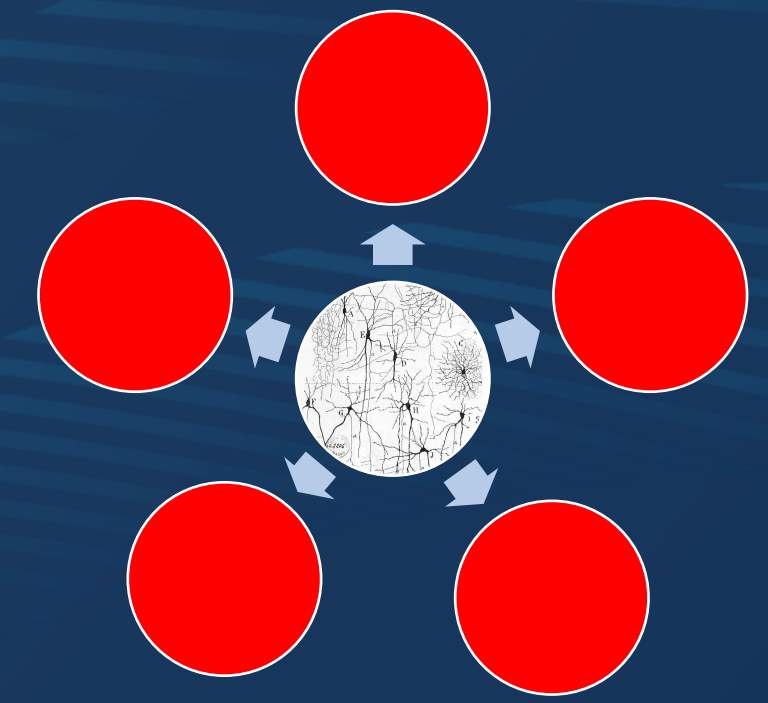


R&D

5G / 6G ...cost effective solution for SMART ...



IMA partnerships



© Elektrotechnická asociace České republiky

© KDT JU
Key Digital Technologies Joint Undertaking

© AENEAS

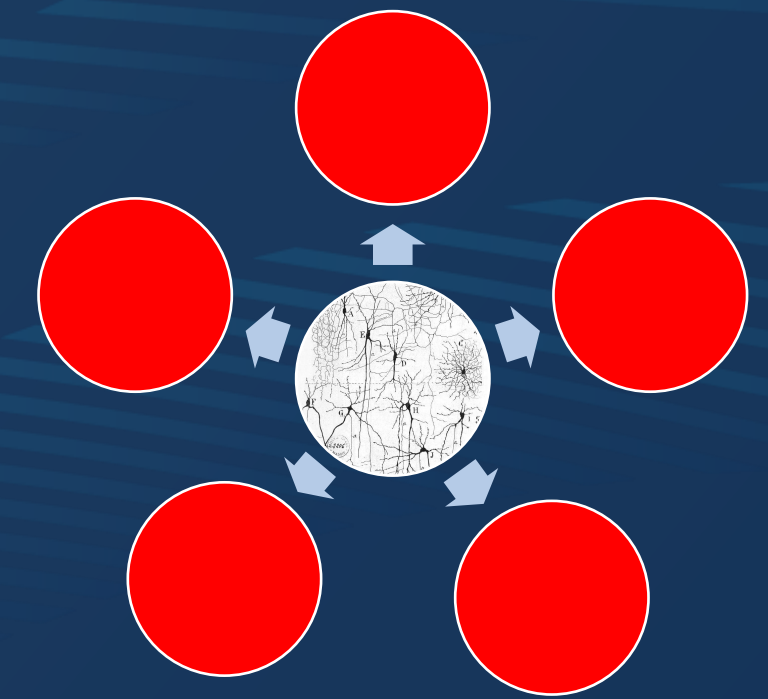
© INSIDE

Observation:

© The European Chips Act

© Important Projects of Common European Interest
(IPCEI)

IMA partnerships



- Ⓒ Elektrotechnická asociace České republiky (ELA)
- Ⓒ KDT JU
Key Digital Technologies Joint Undertaking
- Ⓒ AENEAS
- Ⓒ INSIDE

Observation + Consulting -> MPO, MŠMT:

- Ⓒ The European Chips Act
- Ⓒ Important Projects of Common European Interest (IPCEI)



ima



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