CPS/IoT Ecosystem

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CPS/IoT Ecosystem

- HRSM Project
- 2017 – 2021

Partners
- TU Wien (CPSG, BIG, DSG)
- Austrian Institute of Technology (AIT)
- IST Austria
CPS/IoT Ecosystem
CPS/IoT Ecosystem Challenges

Device/Service Discovery

Service Configuration

Software Deployment & Maintenance

Edge/Fog Management

Data Ownership and Rights Management
Use Case "Smart Buildings"

mobile-robot/battery/status
00:50:56:ab:49:1e/spi1/adc0/port0
CPS/IoT Ecosystem Goals

Hardware building blocks
- µControllers, Sensors, Actuators, Communication, Gateways, ...

Communication protocols
- BT, WiFi, ...
- MQTT, CoAP, ...

Software components
- Field device programming and configuration
- Edge/Fog management
- Cloud components
CPS/IoT Ecosystem

Smart Building
CPS/IoT Ecosystem

Smart Production
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Smart Farming
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Smart Mobility