Simplifying the Vehicle to Cloud (V2C) Journey...
AGENDA

1. Introduction
2. aicas EDGE Suite
3. Live demo
aicas’ Growth Story.

- **2001**: 3 founders
- **2004**: 
- **2007**: 
- **2008**: 
- **2010**: 
- **2014**: 
- **2015**: 
- **2016**: 
- **2017**: 
- **2021**: 

**Revenue passing**
- **1 Mio. Euro**: 2008
- **2 Mio. Euro**: 2012
- **5 Mio. Euro**: 2015
- **10 Mio. Euro**: 2016
- **20 Mio. Euro**: 2017

**Corona speedbump**: 2020

**Licences deployed**
- **> 1 Mio. Licences**: 2008
- **> 5 Mio. Licences**: 2012
- **> 10 Mio. Licences**: 2015
- **> 20 Mio. Licences**: 2017
# aicas Automotive Focus

## Platformization

### Unification of In-Vehicle Software Platforms

- **CPUs**
  - ARM, RISC-V, X86
  - ESP32s, ST Micron, etc.

- **(RT)OS**
  - Linux (AGL, Yocto, etc.)
  - QNX, VxWorks, Android
  - PikeOS, FreeRTOS

*Works with other runtimes*
  - Docker
  - POCO
  - Hypervisor
  - OpenJDK, etc.

## OTA

### From Micro Updates to Full Updates for MCUs and ECUs

- Secure, industry standard
- Automatic success / failure detection
- Covering
  - IVI (Infotainment)
  - Headunits
  - Telematics
  - Domain Controller
  - ECUs
  - MCUs

## V2C / V2V / V2X

### Data and Software Lifecycle Management

- Full lifecycle
- V2C reference architecture for Automotive Grade Linux (AGL)
- Low Latency V2X
- CI/CD, DevOps for data and logic
- Multi cloud support (incl. cloud migration on vehicles)
- Security
- Data pipeline management from SW developers to business analysts & data managers
aicas EdgeSuite easily create, deploy, and operate cloud to edge solutions

aicas EdgeSuite reduces complexity.

- It enables to manage a single device or even large fleets of devices via one system.
- It reduces risks due to the variety of supported heterogeneous environments, platforms, standards, protocols, and operating systems.
- It offers flexibility by supporting different runtimes.
EdgeSuite on AGL
TCU Reference Design

edge device: raspi 4

aicas runtime

CAN Translator  Conn. Manager  EDP agent  Data Publisher

Services Layer

JamaicaCAR

OS: AGL 12.0.0 (lamprey)

MQTT

JamaicaEDP

Vehicles A

Vehicles B

JamaicaEDG

MQTT
Live Demo
Next steps?
Thank you for your Attention

Get in touch with us to learn more about our products!

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