

IMA

...within R&D



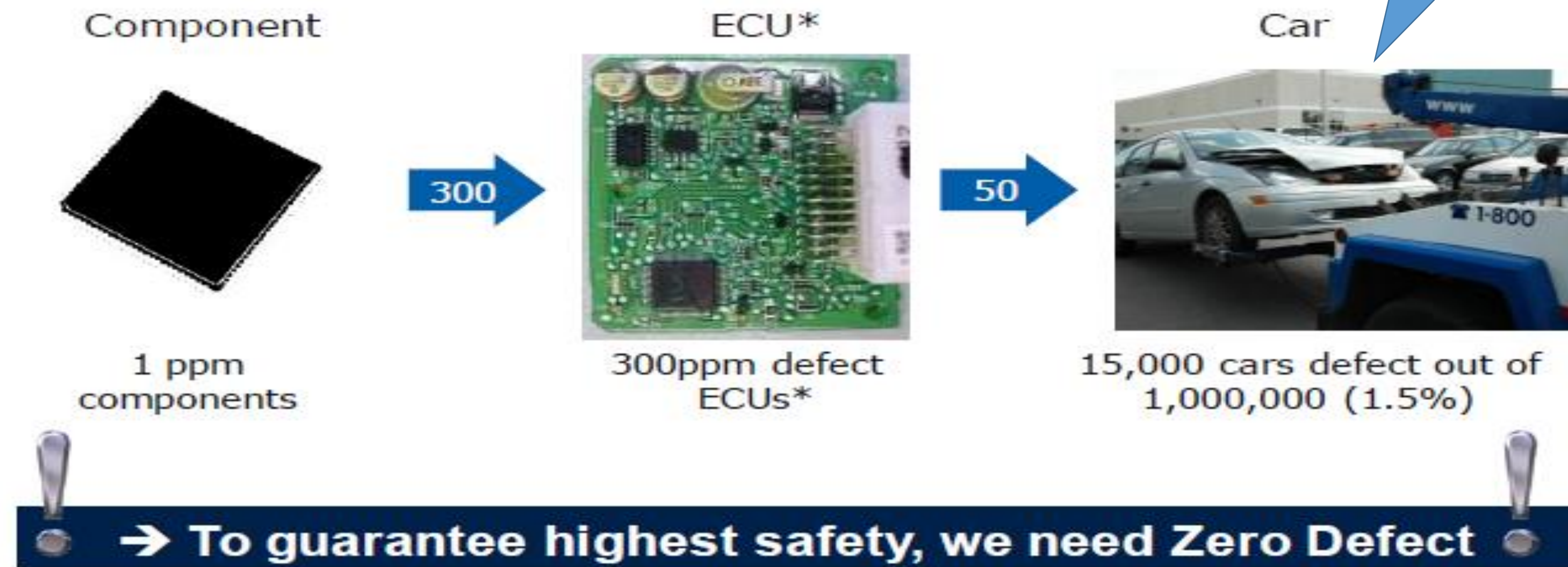
Augmented Reality for head-up-display

Spoléháte na vlastní
oči?

 **ima**

Zero Defect products to guarantee the highest safety possible

1ppm (1 defective part per million) is close to Zero Defect.
Would 1ppm not be enough?



*ECU: Electronic Control Unit

Figure 2: Effect of a small failure rate at semiconductor level and the final vehicle level failure rate

Může to fungovat?

An aerial photograph showing a vast, dense field of electronic waste, including circuit boards, capacitors, and wires, spread across a dry, brownish ground. A blue speech bubble is overlaid on the right side of the image.

Chytré město?



Tenhle nadhled nám
chybí !



IMA - Who we are?

- ☾ Leading supplier of id systems to private / public sectors in the Czech Republic

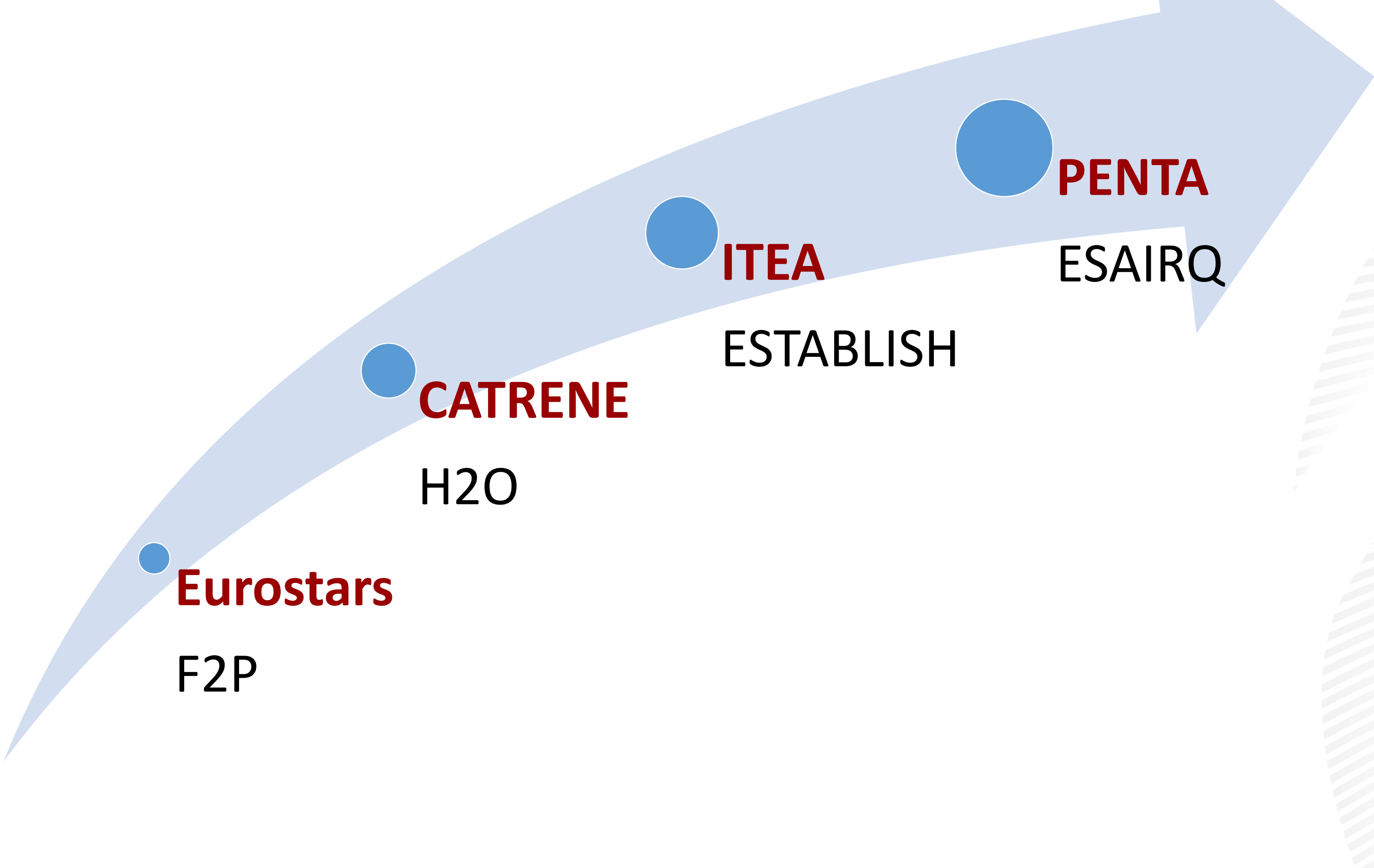


- ☾ 70+ employees, annual turnover around 4 mil EUR
- ☾ In house R&D, production and supply/service chain
- ☾ Facts:
 - Daily managed hundreds of thousand users
 - 25 years of Technology Scouting
 - Resounding customers:
ČEZ, ŠKODA Auto, PANASONIC, LEGO, Foxconn, Marks & Spencer, Puma ...

IMA within Europe



Current IMA Involvement...



WHAT TECHNOLOGIES WERE USED TO ACHIEVE THE GOAL?

IMAporter Basic Access Control System

IMAporter Basic is a smart identification solution utilizing innovative mobile technologies and supporting user identification using NFC (Near Field Communication) and BLE (Bluetooth Low Energy). The system uses a wholly new approach to the arrangement of the components, when all intelligence is concentrated in the smart reading terminal, while an external switching module protecting the system from brute-force attacks is connected via an encrypted data line.

IMAporter Basic can be operated online, offline or as a standalone device fully managed from an Android NFC device. Communication with a central PC is available over Ethernet or a Serial line.

IMAporter Key Mobile Access Solution

IMAporter Key is an add-on platform available for all systems from the IMAporter family. IMAporter Key enables Mobile Access using any Android or iOS mobile device equipped with either NFC or BLE technology. The solution includes a cloud-based ID management system for an easy and secure identifier assignment over SMS, QR code or email.

CUSTOMER QUOTE

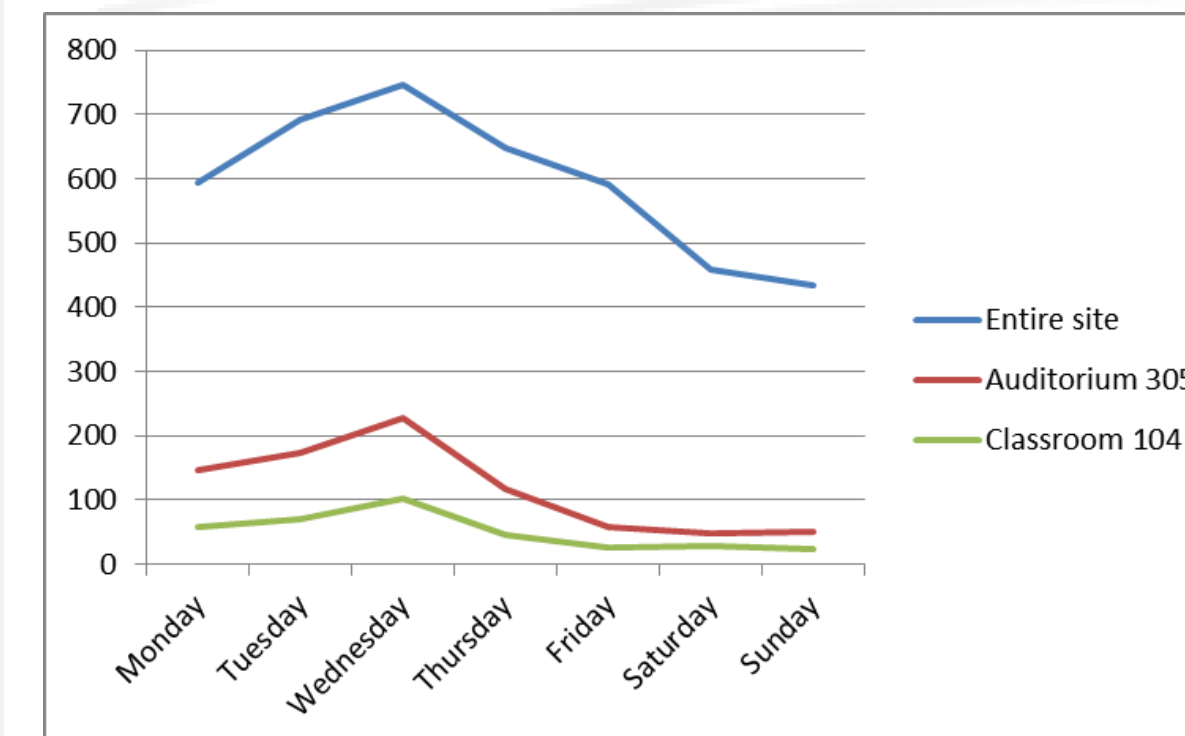
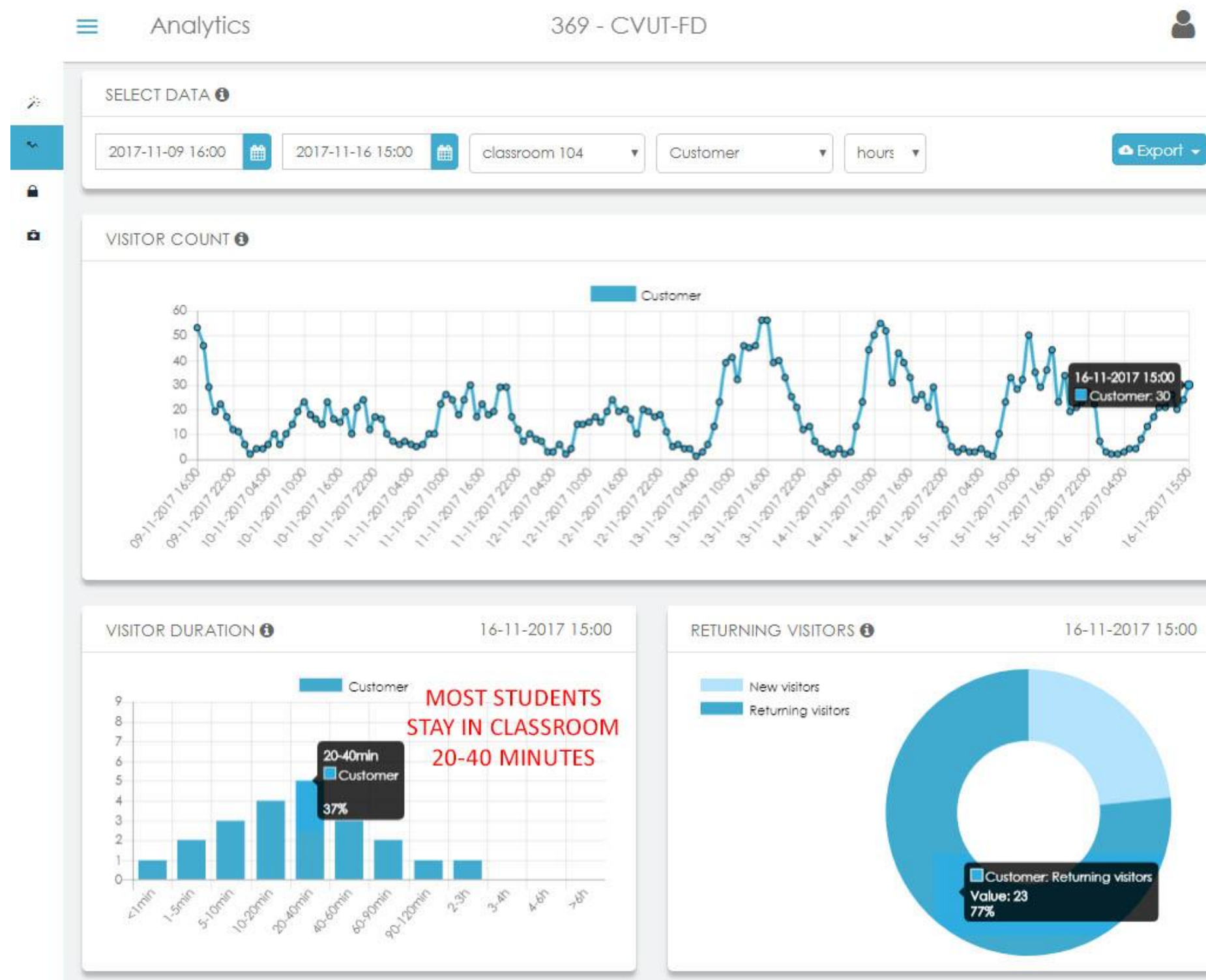
“The IMAporter system has proven its ability to efficiently secure residential buildings, while maintaining a simple and comfortable door opening. Apart from ID keyfobs and city transport cards, we are now prepared for user identification via mobile devices with NFC or BLE technologies.”

Charlie Sjömark
Building Manager



Eurostars F2P

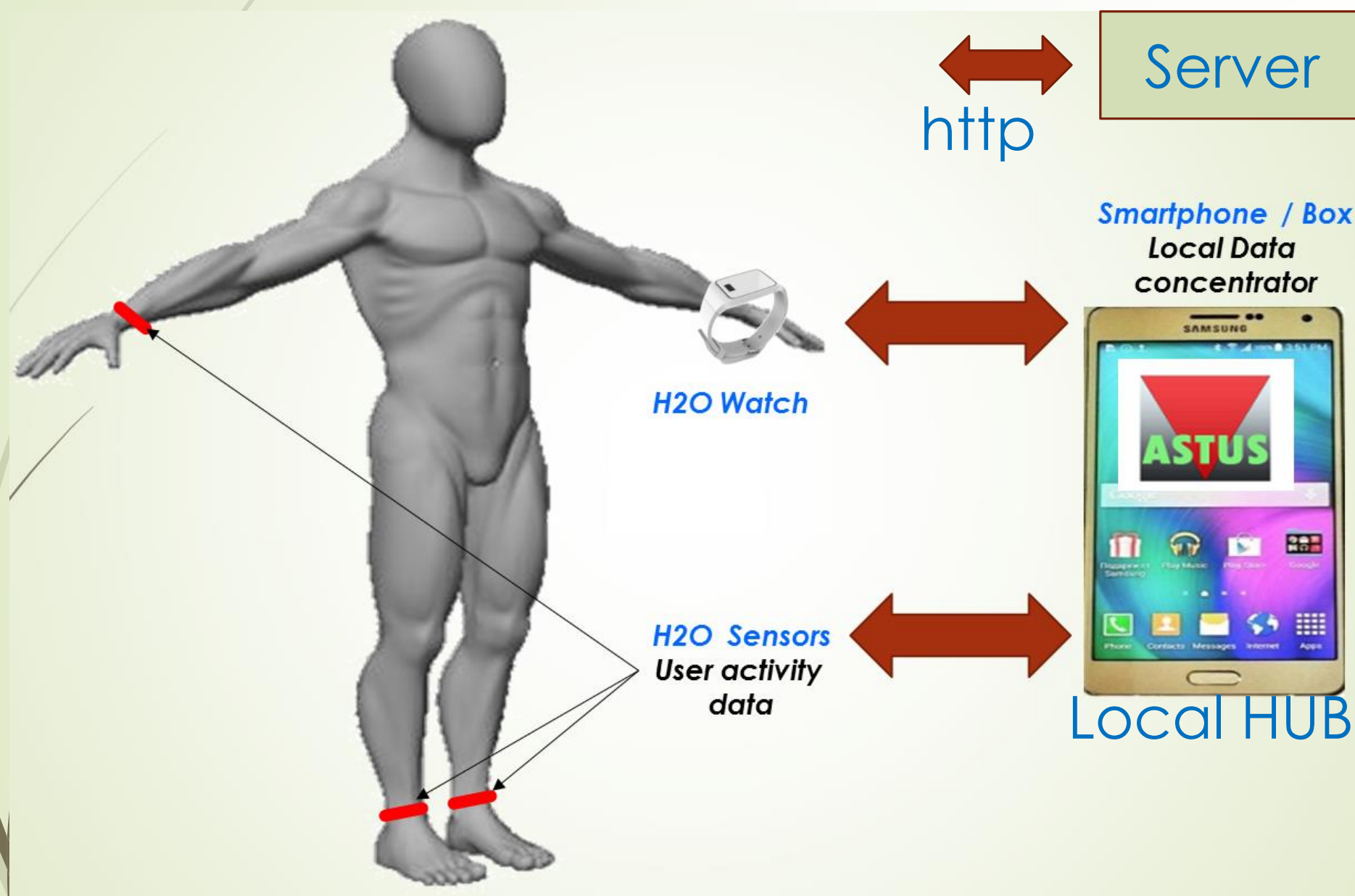
Analytics for Test Site ČVUT Konviktská



Access Control and Crowdsensing

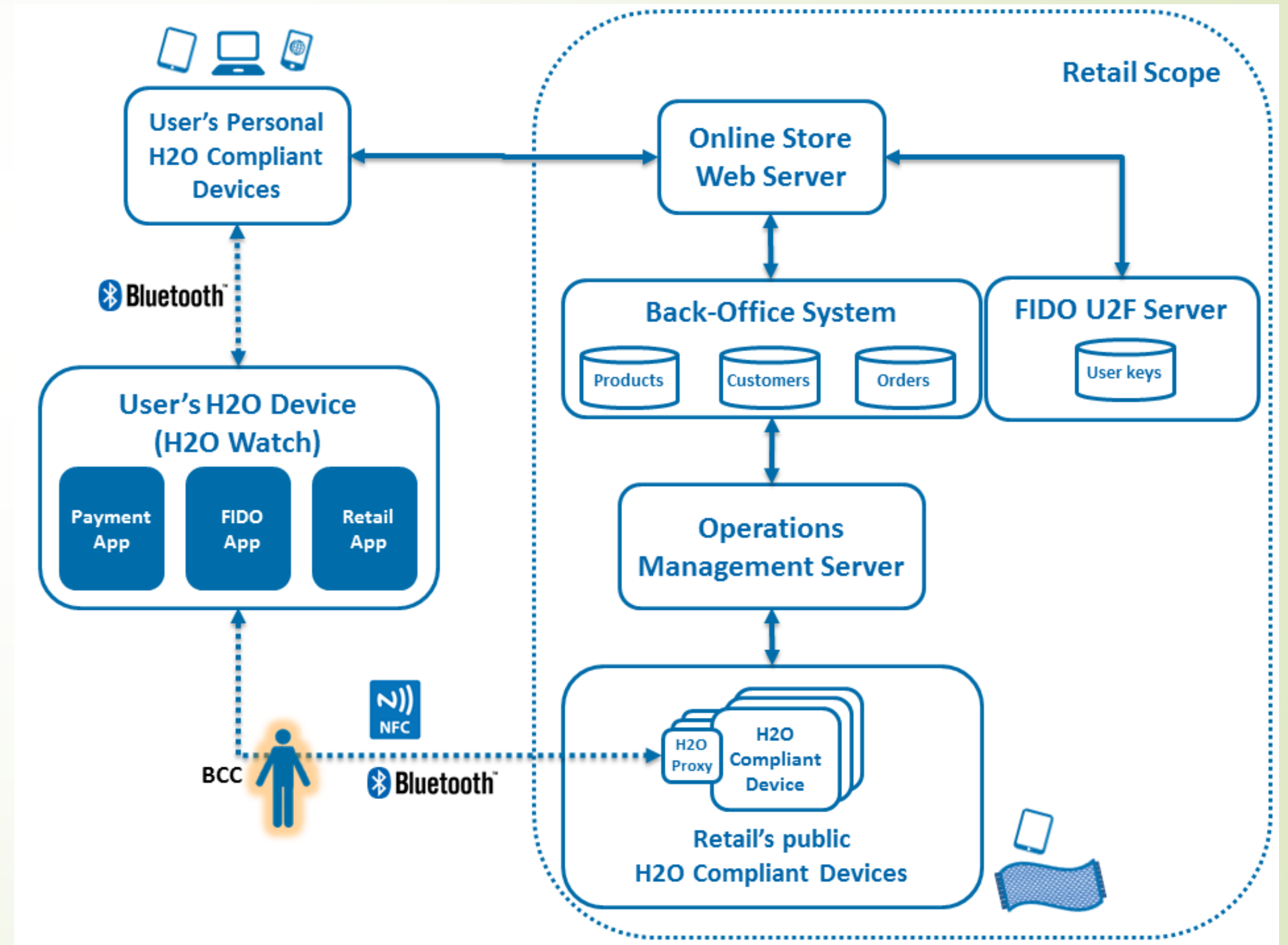
➤ **ASTUS** platform components for:

e-Health - Medical Data Travel » In Telemedicine

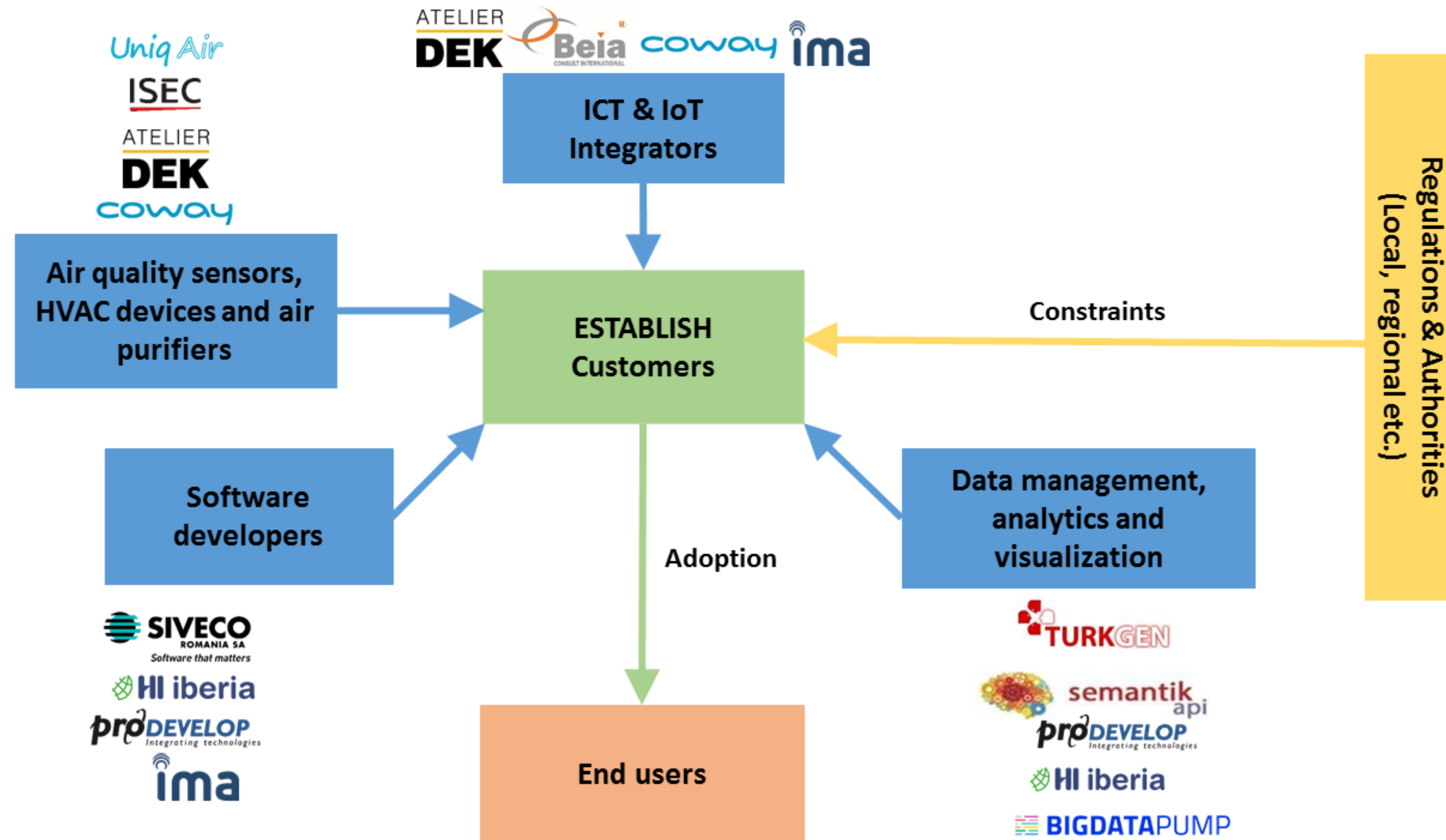


➤ **Worldline** platform components for:

Online shopping - omni-channel retail

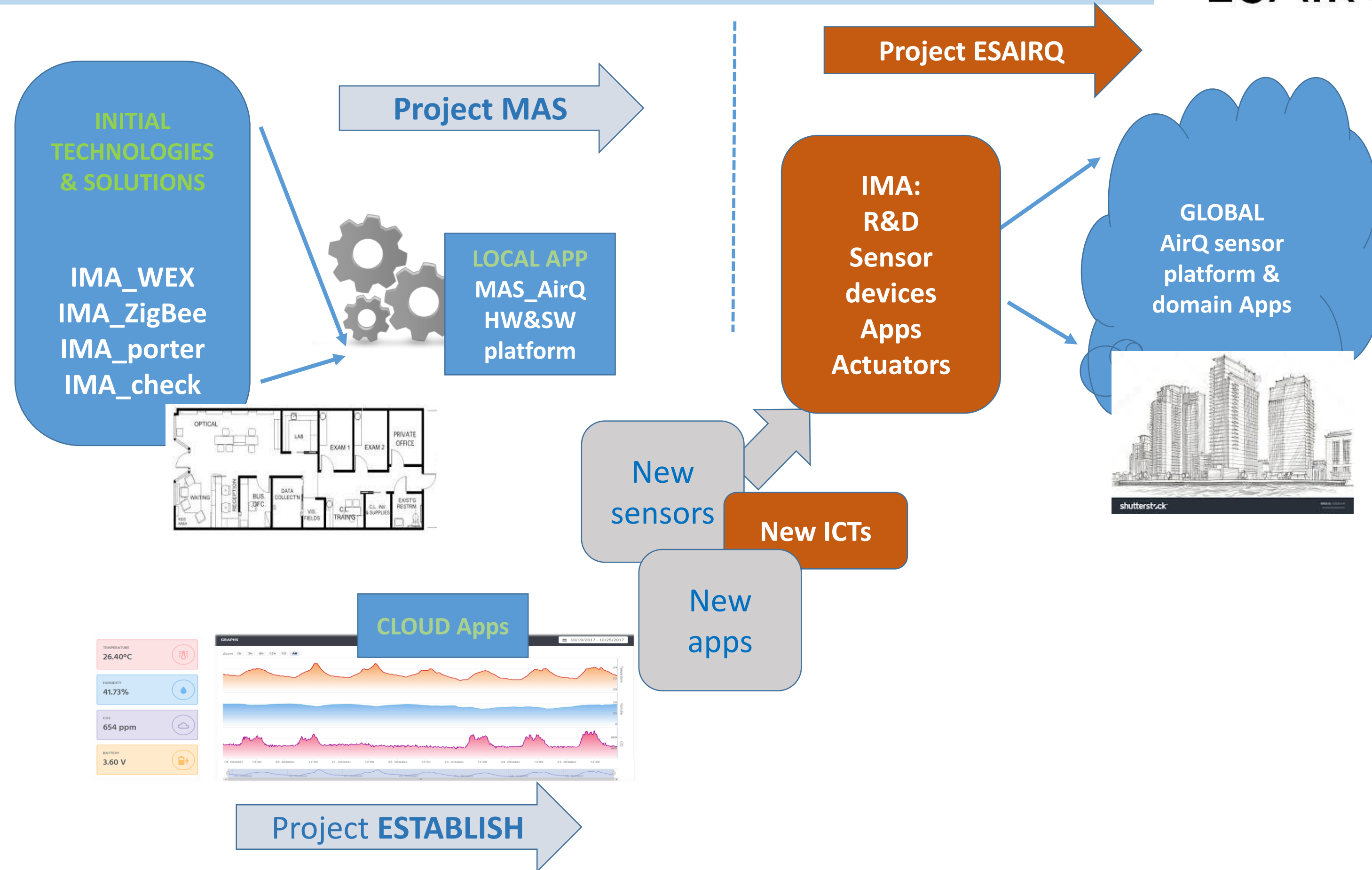


ITEA ESTABLISH

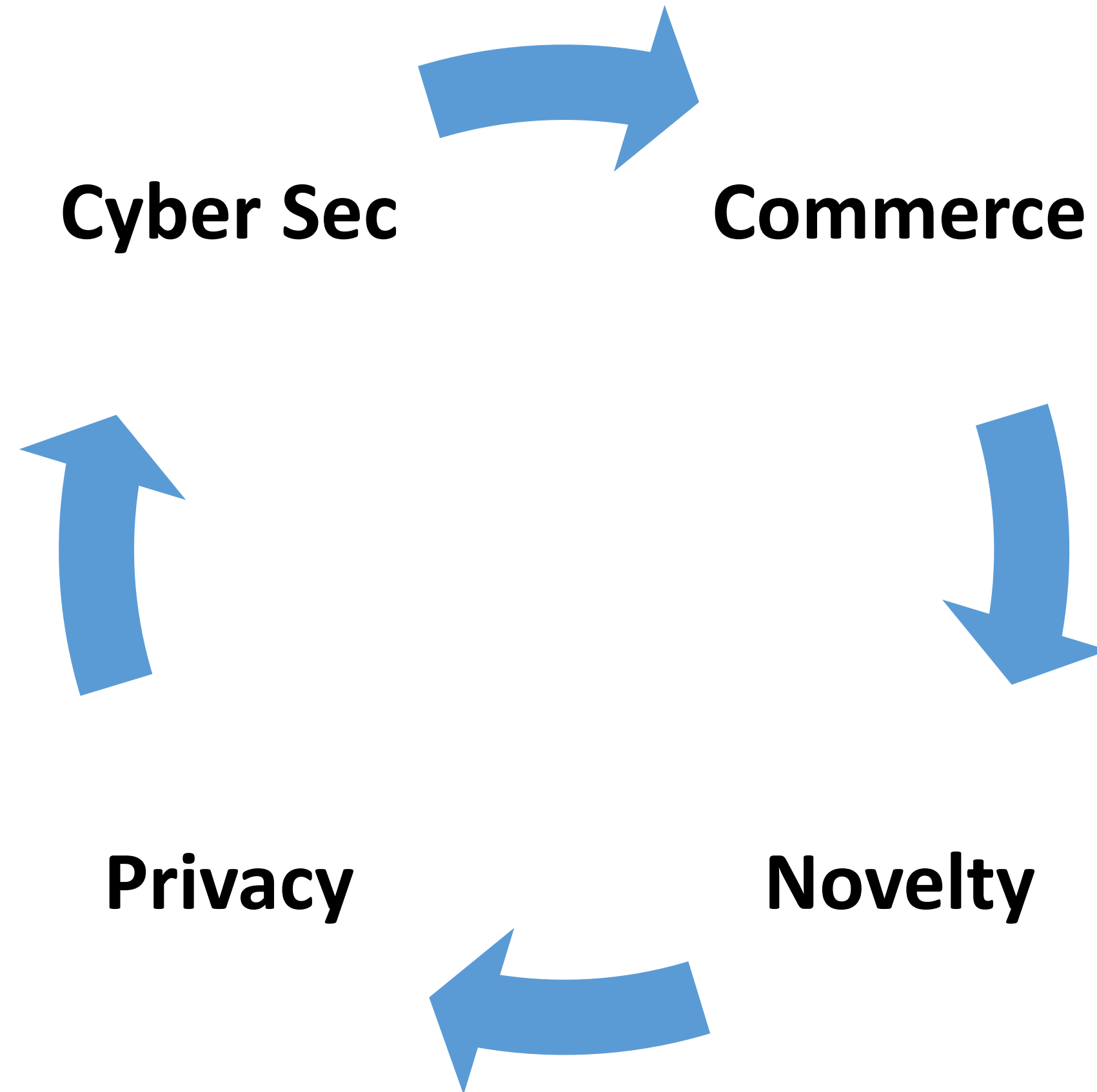


IMA in PENTA ESAIRQ

EU project context



IMA Proofed Concept of Involvement



Abstract of the concept follows...

Novelty Understanding

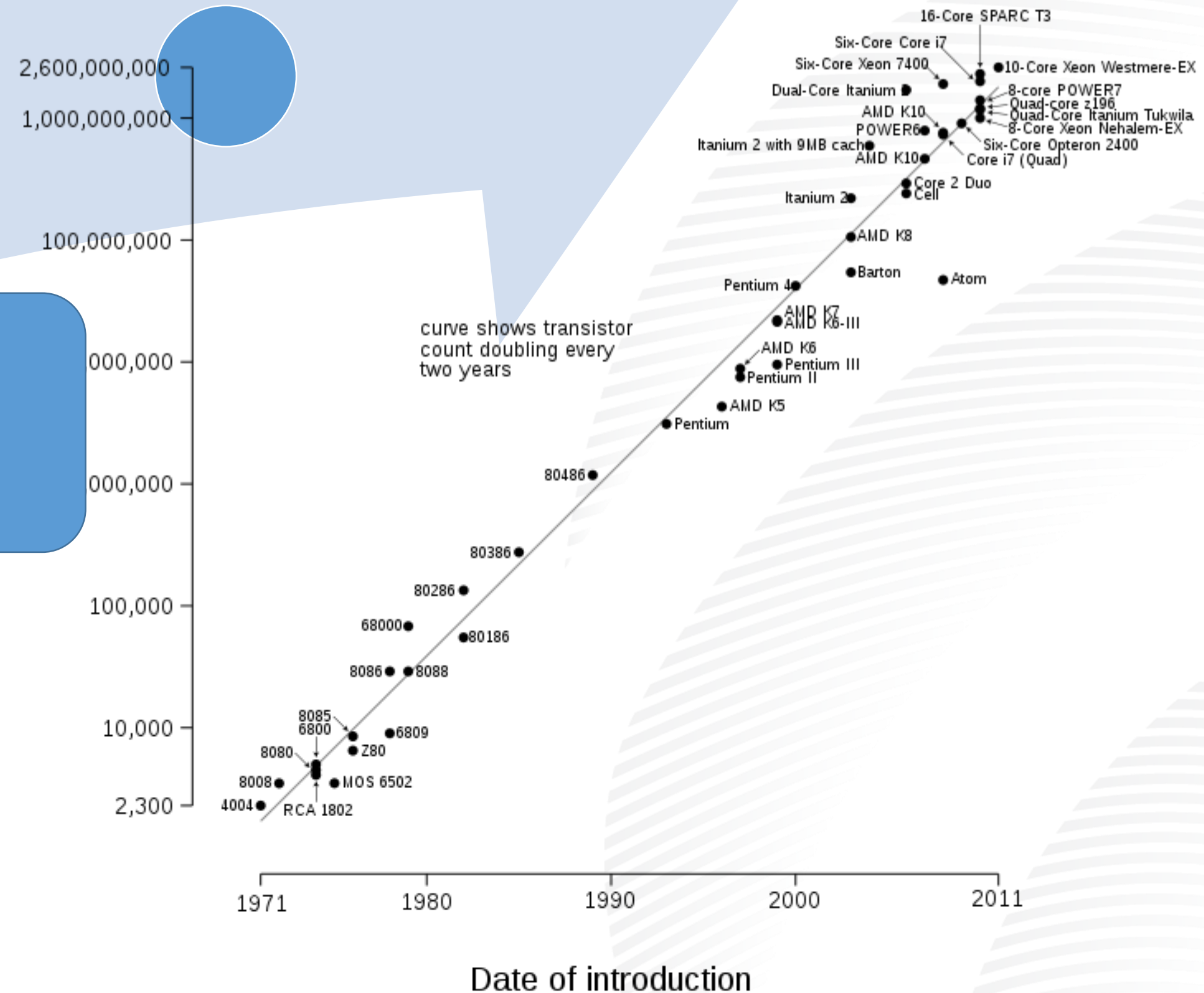
Jádro neuronu
6-100 μm

Novelty

© Gordon Moore (14nm)

© Qubit

Microprocessor Transistor Counts 1971-2011 & Moore's Law

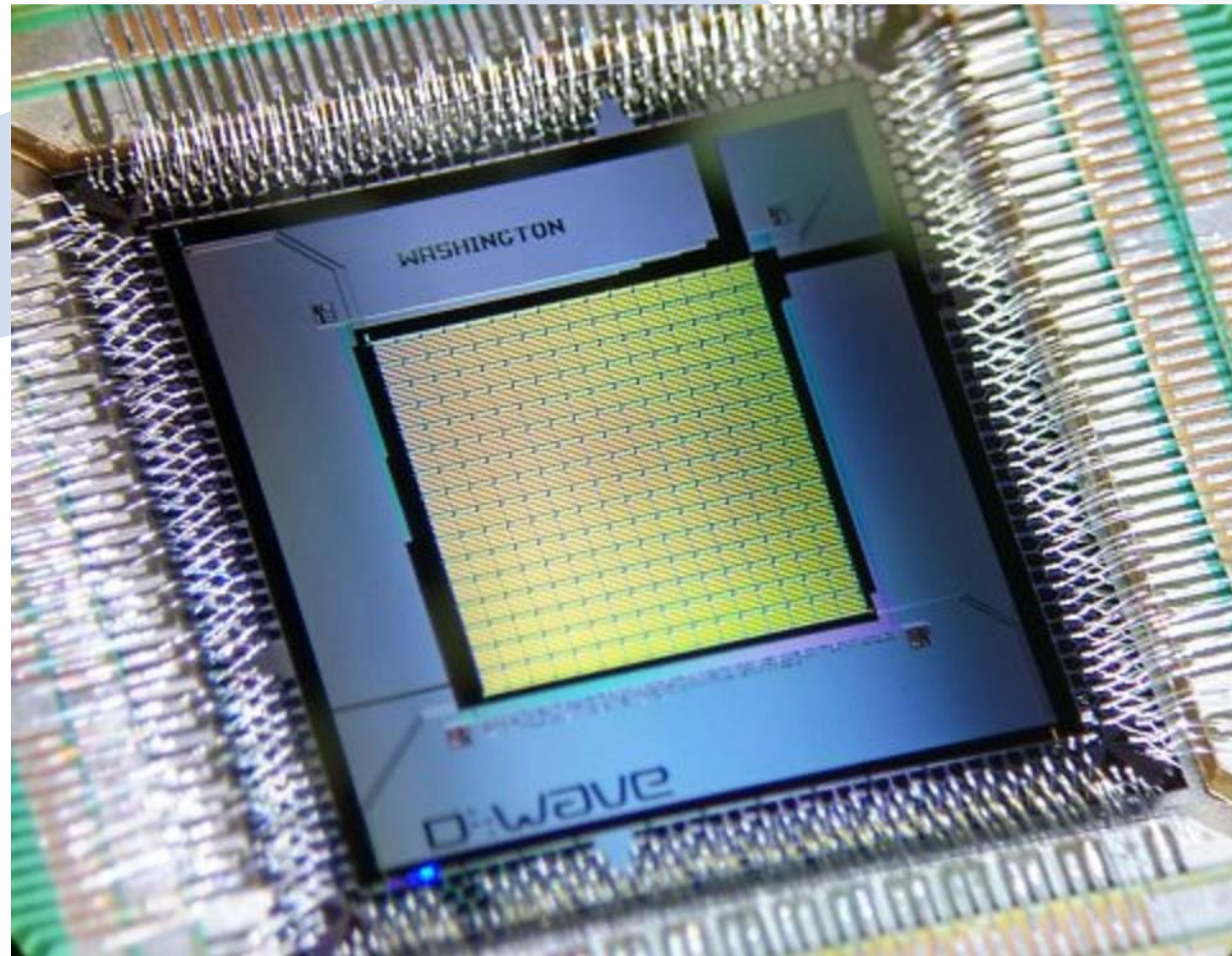


HW Understanding

Novelty

© Gordon Moore

© Qubit



Privacy Understanding

Privacy

© ALEXA

© Termovize

Novelty

© Gordon Moore

© Qubit

amazon echo

Always ready, connected, and fast. **Just ask.**



all without getting off the
voice is not supported.

"Alexa, lock my back door."

"Alexa, is my front door locked?"

Data-big-meta

Neagregovat data

Cyber sec

© Zdravý rozum

© Praxe

Privacy

© ALEXA

© Termovize

Novelty

© Gordon Moore

© Qubit

IMA Target



Novelty

- © Gordon Moore
- © Qubit



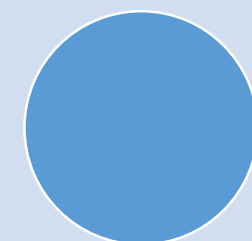
Privacy

- © ALEXA
- © Termovize



Cyber sec

- © Praxe
- © Zdravý rozum



Commerce

- © R&D
- © Produkt / Investice
- © SaaS, AaaS

Fusion between video analytics and mobile phones for large- scale scenario („F2P project“)



ROLE PARTNERŮ F2P

DFRC (CH)

Koordinátor projektu

Lokalizační systém mobilních zařízení

Analytický backendový server

IMA (CZ)

Modulové rozšíření přístupového systému
IMApporter K4

Ochrana osobních údajů

Demonstrátor ČVUT

Rozpočet IMA:
11,6 mil Kč, z toho 50% dotace

APROKS (CZ)

Integrovaný systém CCTV – ID

Demonstrátor fotbalový stadion

LABFIS (KR)

Algoritmy pro rozpoznání obličeje

Video analýza a koordinace

SEJOONG IS (KR)

Video analýza a infrastruktura

F2P MARKETING & DISSEMINATION

CommunicAsia 2016

- ☾ 31/5/2016 - 5/6/2016
- ☾ Singapore
- ☾ Project booth
- ☾ Participants: DFRC, LABFIS, IMA, APROKS, SEJOONG IS

IFSEC London 2016

- ☾ 18/6/2016 - 23/6/2016
- ☾ London
- ☾ Project booth
- ☾ Participants: DFRC, IMA, APROKS



F2P ENVISIONED APPLICATIONS

Zabezpečení kancelářských prostor - Praha

- ☾ Dodávka v roce 2018
- ☾ Rozpočet cca 2mil Kč
- ☾ Identifikace, vstup pomocí mobilu, párování ID (CSI), sledování pohybu a výskytu zaměstnanců



Bytové komplexy Seoul, Jižní Korea (7000 bytů)

- ☾ Projekt pro 2018/2019
- ☾ Rozpočet cca 50-100mil Kč
- ☾ Přístupový systém do bytů s identifikací kartou / mobilem / obličejem a sledující výskyt a pohyb osob pomocí mobilních telefonů





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