

Institute of Microelectronic Applications



IMA s.r.o.

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Praha, Pardubice



Goal of this teaser

IMA is seeking for

- Further Development & Distribution of advanced scalable identification and access control systems
- Boosting of IoT exploitation (sensor & power actuators)

IMA offers

- Bridging European R&D landscape for Korean partners
- Distribution of common outcomes in Europe

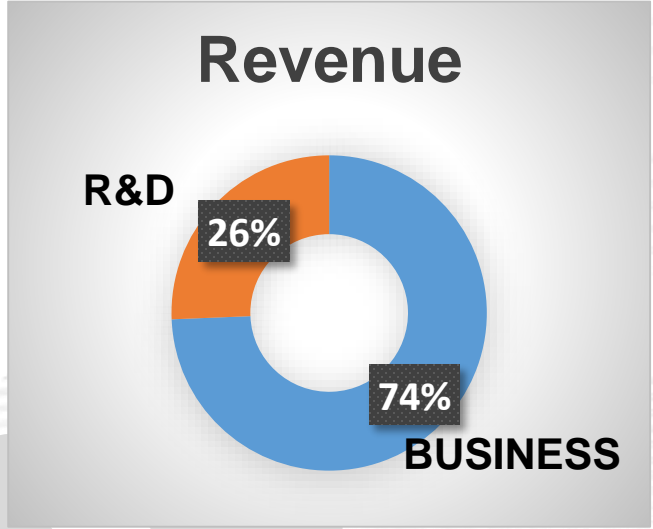
IMA - Who we are?

- ☾ 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 ...

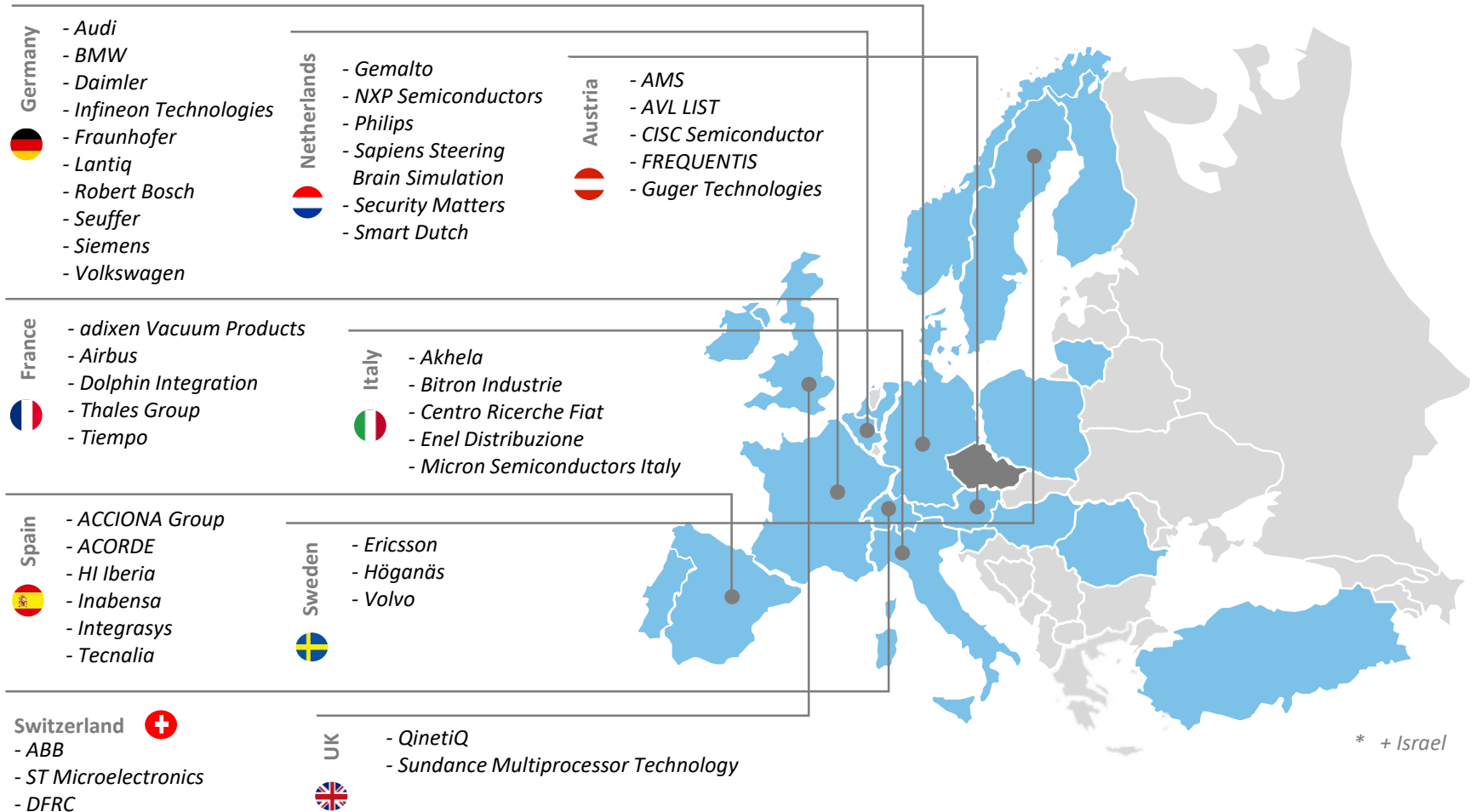
IMA within Europe



Selected business partners



Ecosystem of R&D projects with 250+ partners. 2/3 industrial, 1/3 from universities, research institutes and other academic institutions.



Selected academic partners



Czech Republic

- Charles University (*First Faculty of Medicine*)
- CVUT - Czech Technical University in Prague
- Brno University of Technology (*Institute of Microelectronics, CEITEC*)
- Technical University Liberec

Germany

- Eberhard Karls University Tübingen
- Fraunhofer Institute
- Friedrich Alexander University Erlangen
- Hochschule Amberg-Weiden
- Leibniz University Hannover
- TU Braunschweig
- TU Dortmund
- TU Kaiserslautern
- TU Darmstadt
- TU Dresden

United Kingdom

- Royal Holloway and Bedford New College, University of London
- Science and Technology Facilities Council
- The University of Bristol
- The University of Manchester
- The University of Sheffield
- University of Sussex

Netherlands

- Eindhoven University of Technology
- The Delft University of Technology
- University Medical Center Utrecht

Israel

- Technion, Israel Institute for Technology

Latvia

- Riga Technical University

Greece

- Harokopion University of Athens

Slovenia

- Jožef Stefan Institute

Norway

- University of Oslo

Italy

- Università Di Bologna
- Università del Sannio
- Università di Perugia
- University of L'Aquila
- Politecnico di Torino
- Sapienza Università di Roma
- Università Degli Studi di Firenze
- Università Degli Studi di Pavia
- Università Degli Studi di Cagliari
- Università Degli Studi di Genova

Spain

- Fundacion Tecnalia Research & Innovation
- Instituto Tecnológico de Informatica
- Universidad de Seville
- Universidad Politécnica de Madrid
- Universitat Autònoma de Barcelona
- Universitat Politècnica de Catalunya
- Universitat de Girona

Austria

- Austrian Institute of Technology
- FH Joanneum
- TU Graz
- TU Vienna

Portugal

- Instituto de Telecomunicacoes
- Instituto Superior de Engenharia do Porto
- INESC-ID LISBOA

Sweden

- Chalmers University of Technology
- KTH Royal Institute of Technology
- Lulea University of Technology

Romania

- Institutul de Cercetare-Dezvoltare si Inovare POLITEHNICA

Finland

- University of Eastern Finland
- University of Oulu

Denmark

- Technical University of Denmark

Poland

- Gdansk University of Technology
- Warsaw University of Technology

SMARTporter a glance

- ③ Secure scalable id system
- ③ Deterministic access control in parallel with fuzzy behaviour profiling
- ③ Sensors on LP WAN integrated
- ③ Advanced BCD SiC Power Actuators for site management

SMARTporter concept

Deterministic

Smart Site Management

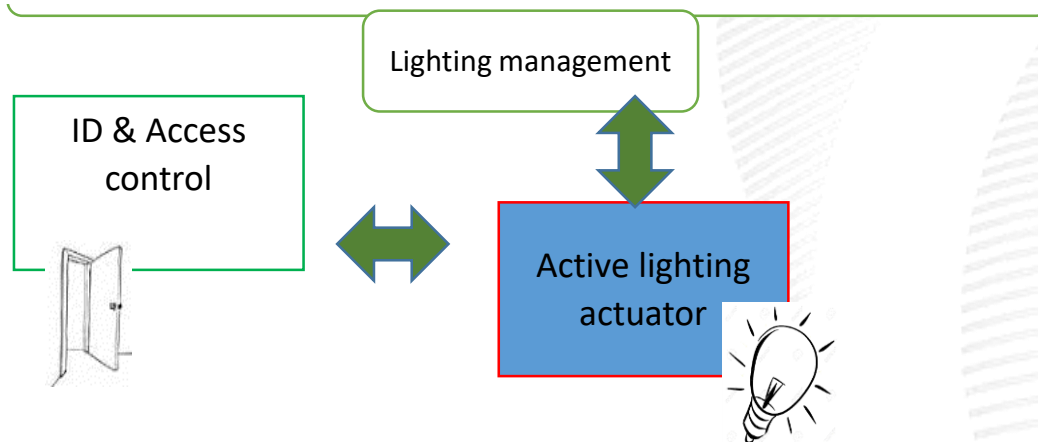
Cyber - Physical - Systems

**ACCESS CONTROL
IDENTITY
MANAGEMENT**



- Wireless bGrid™
- LP WANs
- Sensors

General Data Protection Regulation



Scalability

Access Control Systems for *the small and the big*

Certified for NSA level 4 "Strictly confidential"

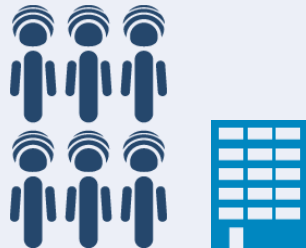


IMaporter Mobile

Standalone system

Mobile managed

Innovative
identification

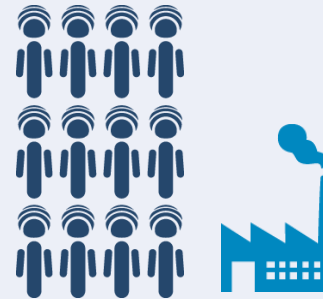


IMaporter Basic

Centrally managed

Broader usage

Advanced functions



IMaporter Pro

Robust solution

Universal usage

Interface for
integrations



IMaporter Cloud

Remote control

Variable functions

Cost effective SaaS

MobileAccess



Id via mobile device

- Tap – touch based up to 5cm
- Proximity – lighting up devices display in range of reader



BLE remote control

- Identification over distance
- Trigger using a button
- Ideal for parking lots and gates

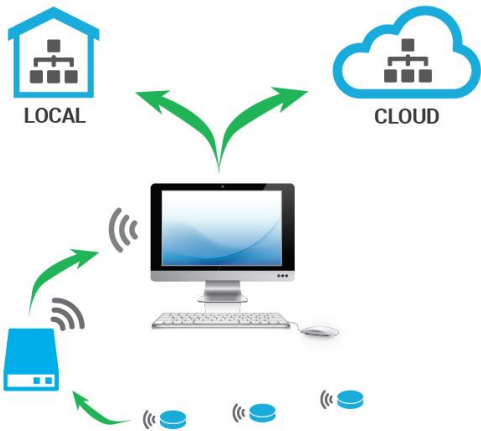


Cloud management

- Web service 24/365
- Automatized mobile key management
- Secure key transfer
- API interface for easy third-party integrations
- Time-limited keys

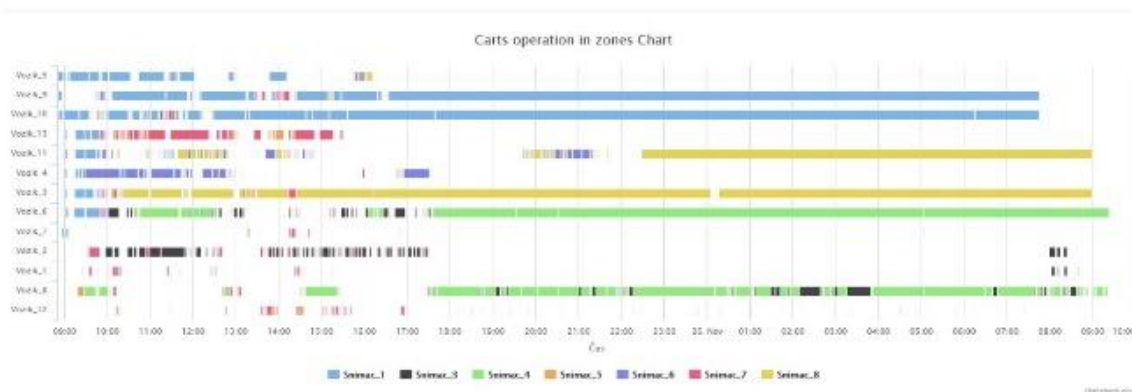
SMARTPorter in tracking mode

Localization service for industrial environment



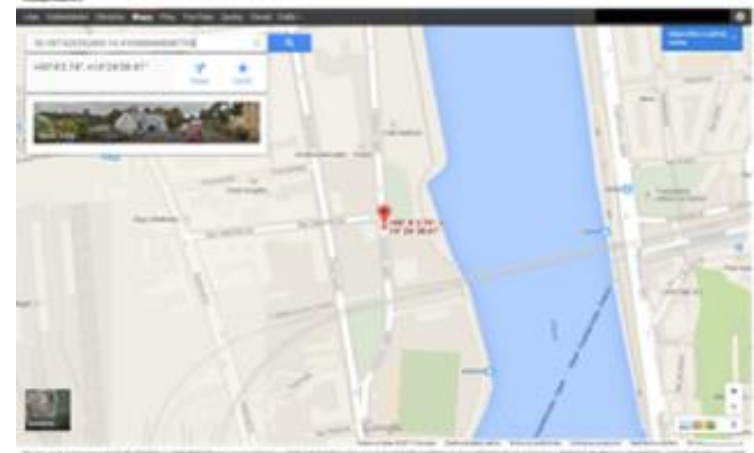
- ☾ Tools and assets monitoring
- ☾ Scalable SaaS service
- ☾ Simple installation

place for time selector



...or in checking service

Supervision for service and maintenance



IMAporter– FOXCONN / DRYAK farm



Arms factory Sellier & Bellot / Water power station ČEZ



University of veterinary and pharmaceutical sciences in Brno





**Communication Asia 2016
Singapore -> London -> Shanghai**

Let's recall the

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☉ IMA is seeking for

- Further development & Distribution of advanced scalable identification and access control systems
- Boosting of IoT exploitation (sensor & power actuators)

☉ IMA offers

- R&D
- Small / large access systems
- integration of the id system into the company ecosystem



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