COMARCH Technologies

COMPANY OVERVIEW

Facts & Figures

Krakow. 11.09.2015

Motivator

Increase awareness of Comarch expertise in order to find opportunities to build successful collaboration for H2020 projects

Comarch Introduction





REVENUE

BILLION

PLN (2014)

1993
FOUNDED

POLISH CAPITAL- HEADQUARTERS

LOCATED IN



THOUSANDS



OF SUCCESSFULLY COMPLETED

PROJECTS

ON 5 CONTINENTS

IN OVER 40 COUNTRIES



Publicly traded on Warsaw stock

exchange since

1999



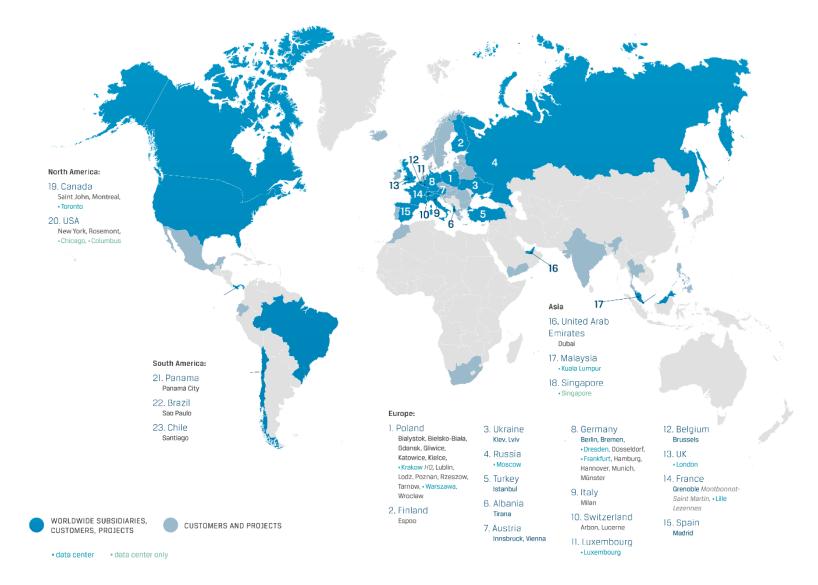
High ranking in IT analyst ratings:



Analysys Manson, EU Indrustrial R&D Investment Scoreboard, Gartner, IDC, TOP200 IDG, Truffle 100 and others.

(PROGRAMMERS, COMPUTER SCIENTISTS AND ECONOMISTS), GRADUATES FROM THE BEST POLISH AND FOREIGN UNIVERSITIES

- 46 Subsidiaries& associates
- **49** Cities
- 23 Countries
- 4 Continents



Diversified Portfolio of Products & Customers





Telecommunication



Financial Services



FMCG



Retail



Travel



Oil & Gas

















































































OUR EXPERIENCE

FP7 & H2020 Projects



FP7 3 ongoing projects

- NI2S3 http://cordis.europa.eu/project/rcn/92075_en.html
 developing security systems based on NEC Information and Integration Services to integrate multi-source information
- Future ID <u>www.futureid.eu</u>
 creating, developing and stimulating European, cross borders identity solutions (smartcard, smart tokens, biometry)
- SAWSOC <u>www.sawsoc.eu</u>
 guaranteeing the protection of citizens and assets, and improving the perception of security by citizens

H2020 3 submitted projects

- DS-03-2015 Critical Infrastructure Protection (CIISMES)
- DS-04-2015 Cyber Security Management (Fortress)
- BES-06-2015 Border and External Security (CROB2AUT)







OUR VISION

End-to-end Solution for your Business



Research and innovate to develop scalable, secure and highly accessible building blocks (HW & SW) for the world of digital economy in order to build the Internet of Things













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Smart Home, Smart Living





Resource Planning and Management





Microlocation and Navigation



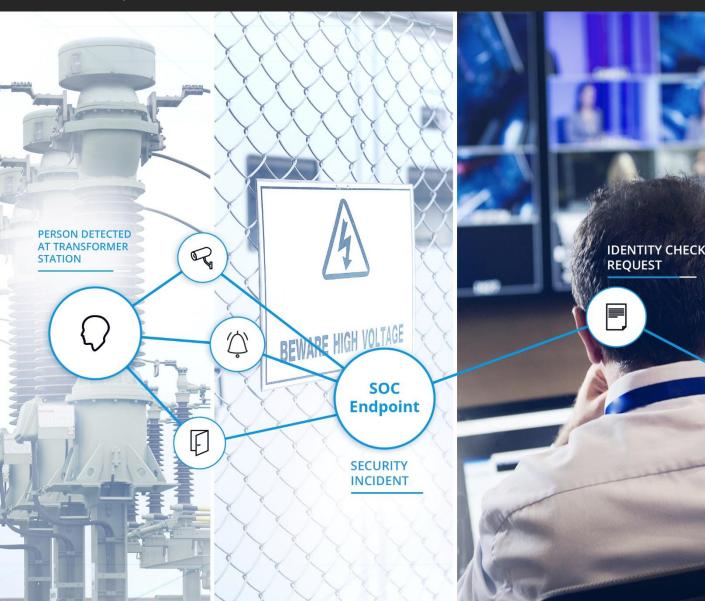


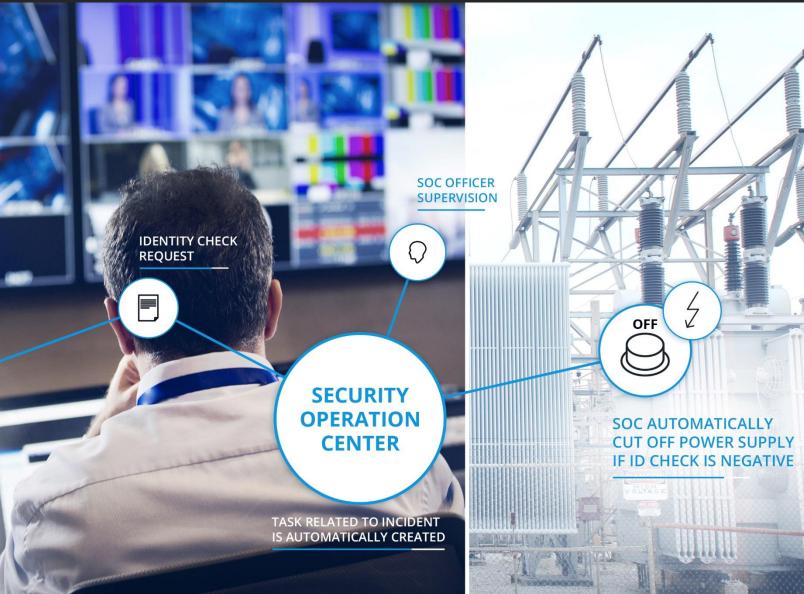




Security in M2M Communication







Data Gathering, Analysis & Management





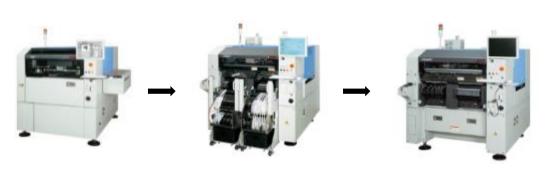
HARDWARE SMART ELECTRONIC

R&D Center, Design, Prototyping

loT Lab in Kraków













Internet of Things



Cyber Security



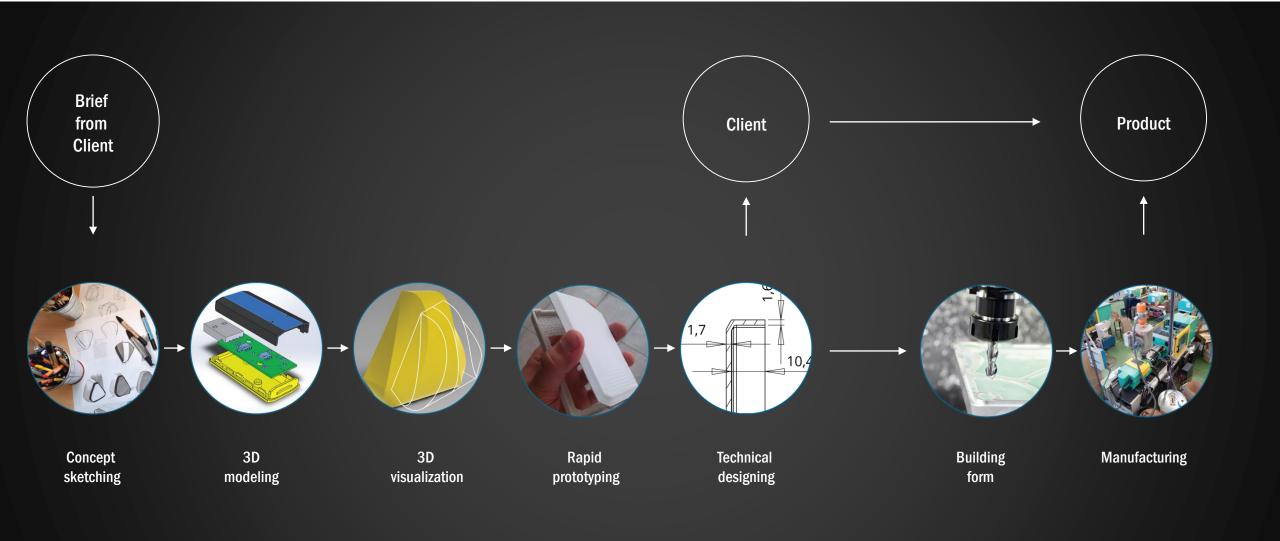
Healthcare





Industrial Design & Manufacturing / Comarch IoT Lab



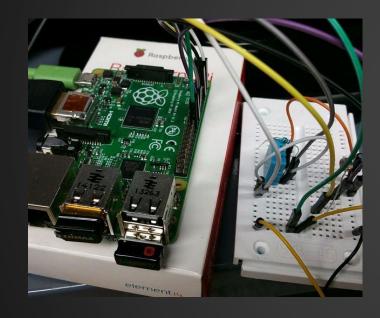


Prototype Going Commercial



25

Transforming ideas into commercial products.



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\$200 lot prototype

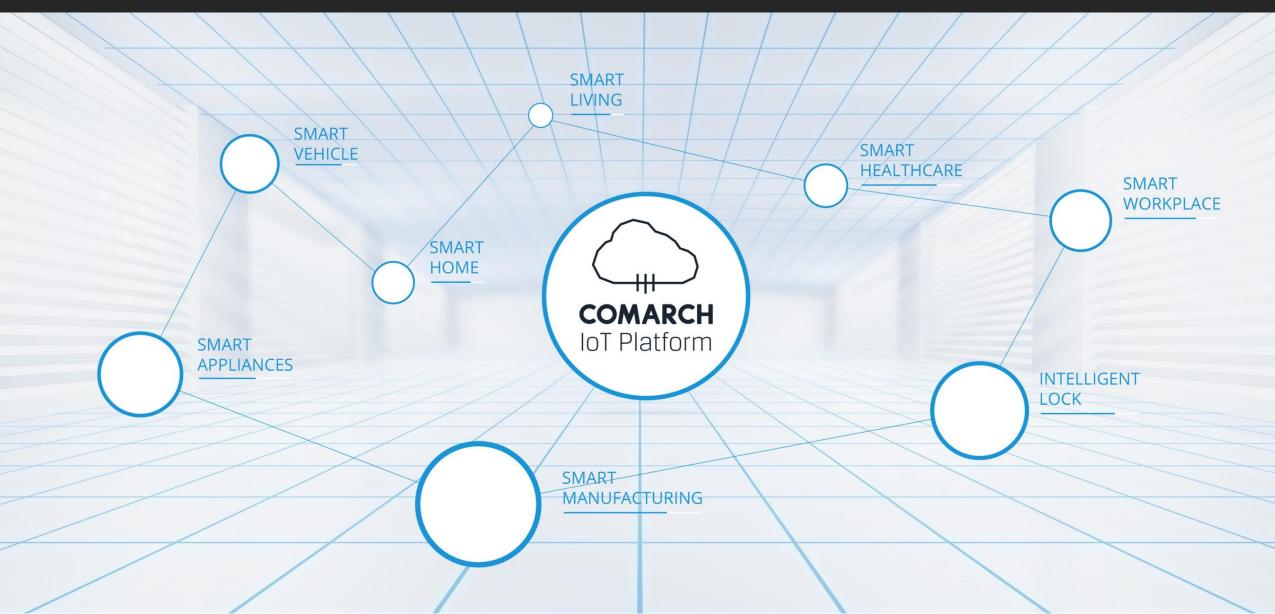
\$20 lot commercial device

INTERNET OF THINGS

Smart Solution for Smart Business BigData processing

Where Does It Fit?



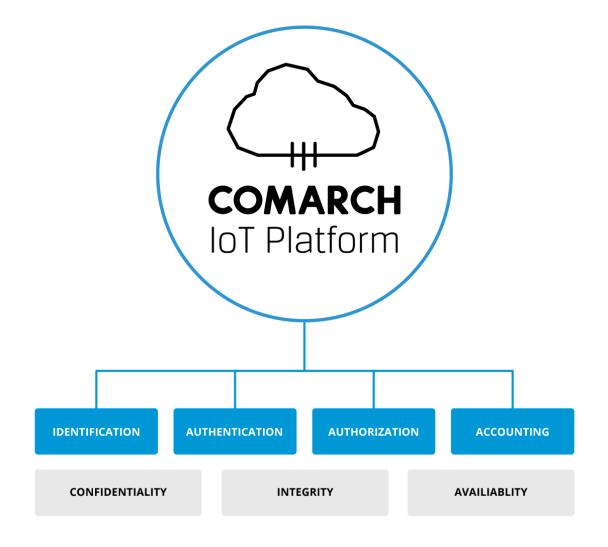


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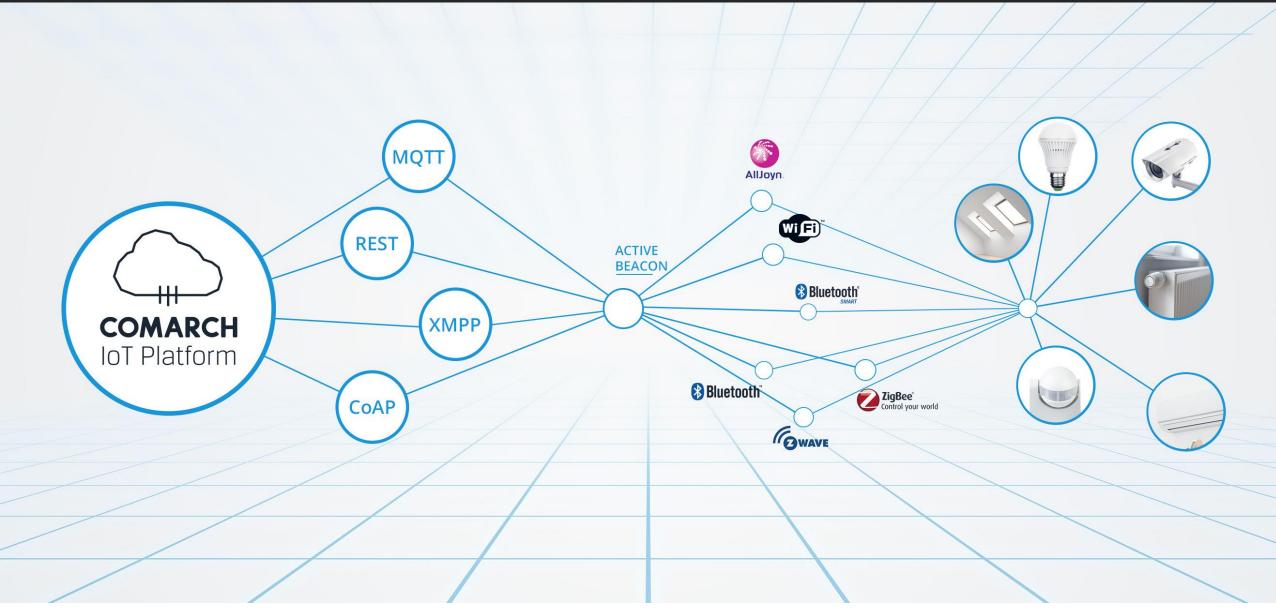
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- Holistic cloud solution for IoT-based business
- Hardware independency
- Interoperable SW&HW development kit
- Compatibility with Comarch Intelligent Chip
- Compatibility with Comarch beacon
- Simplicity of IFTTT (If This Then That) approach
- Support for various communication standards/protocols
- Scalability and flexibility through open APIs
- End-to-end communication and data security
- OTA (Over-The-Air) maintenance







CYBER SECURITY

Safety & Security of Business Operations



Identity & Access Management

- Multiple autentication & authorization methods
- Centralized Identity management & access control
- Easy integration with legacy systems
- Modular architecture adaptible to organization needs
- Single sign-on to applications supported by DRACO

Authentication & Authorization

- Strong methods of user's autentication
- Various methods of transation authorization
- Advanced Elliptic Curves Cryptography mechnism
- Protection against electronic theft and phising attacks
- Support for electronic signature

Security Assurance & Consulting

- Monitoring & control of activiy on server resources
- Admin access control & simplification
- Separations of roles & duties
- Passwords management
- Compliance with industry standards and best preactices



Comarch Security Devices



- World class and innovative HW solution.
- Provides authentication and authorization in most demanding digital ecosystems
- Prevents from tampering, spoofing, eavesdropping and message forgery
- Offers the strongest security method based on e.g.
 the Elliptic Curves Cryptography mechanism
- Conscious and interactive transaction data validation
- Full control over the entire R&D process as well as SW&HW design and development



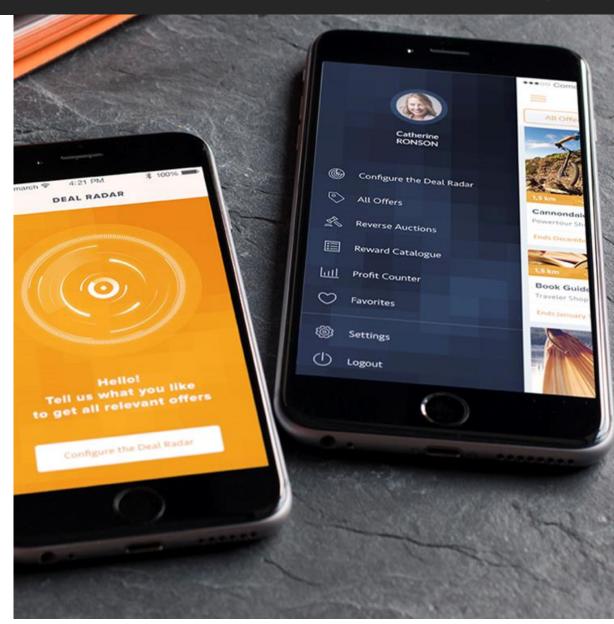
SERVICES MOBILE APPLICATIONS

Software Development, Delivery Platforms, Outsourcing

Mobile Solution Services



- Support for the entire design and development process for Customers
- Software development of mobile applications and mobile frontends
- Deployment of mobile service delivery platforms for telecom operators and mobile phone manufacturers
- Portfolio of out-of-the-box mobile apps available on Android, iOS, Windows Phone, Blackberry, Tizen, Symbian
- Outsourcing & body leasing of mobile competences





- **Loyalty Program Management**
- **Personal Finance Management**
- **Mobile Banking**
- **Mobile Investments**
- **Mobile Insurance**
- **Data Gathering**
- **Conference Content Management**
- **Online Shopping**
- App Market













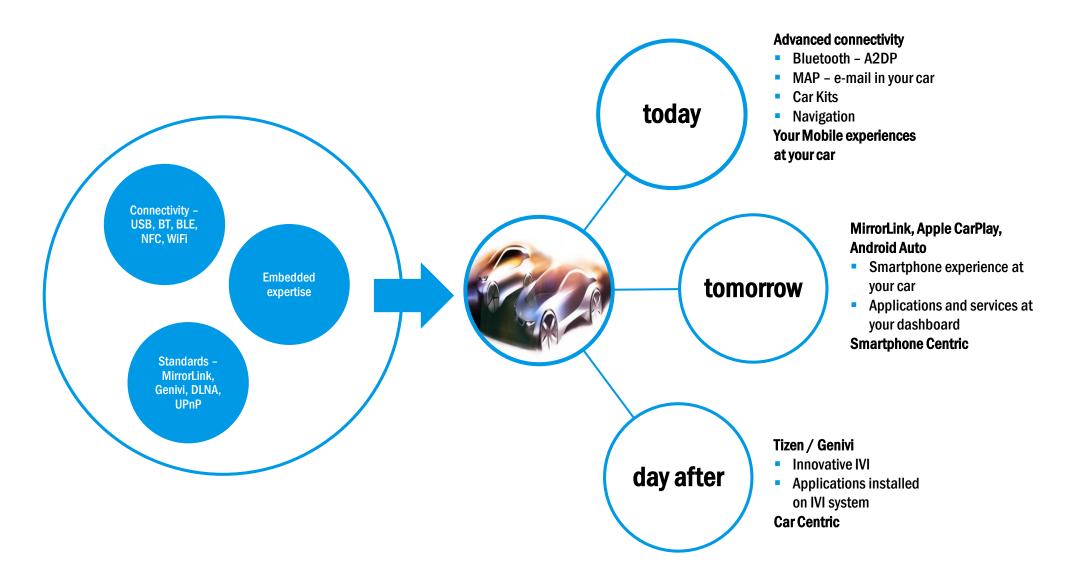




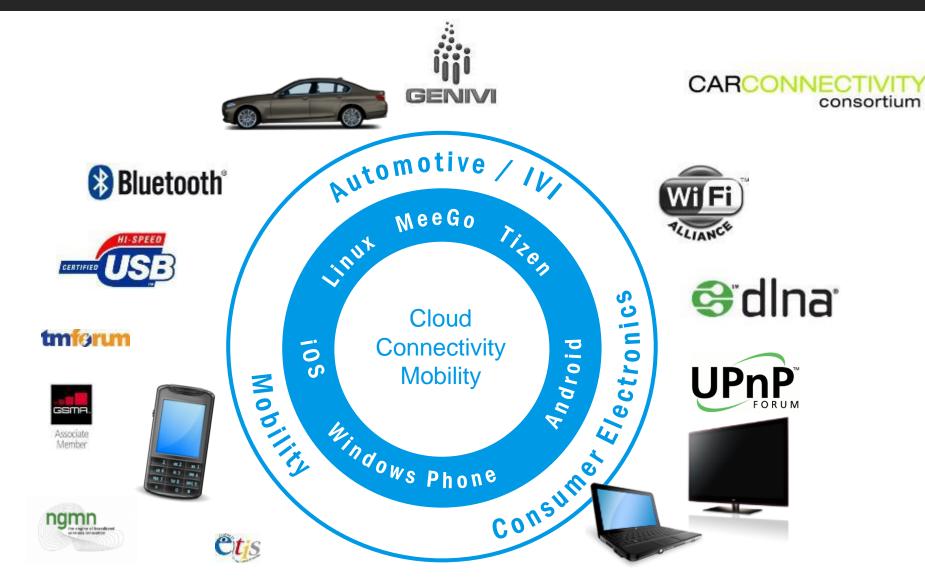
PRODUCTS & SERVICES FOR AUTOMOTIVE

Connectivity, Certification, Quality Assurance









OTHER AREAS OF EXPERTISE

APP Development, Smartphones, Local Connectivity

COMARCHTechnologies

Thank You!

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