



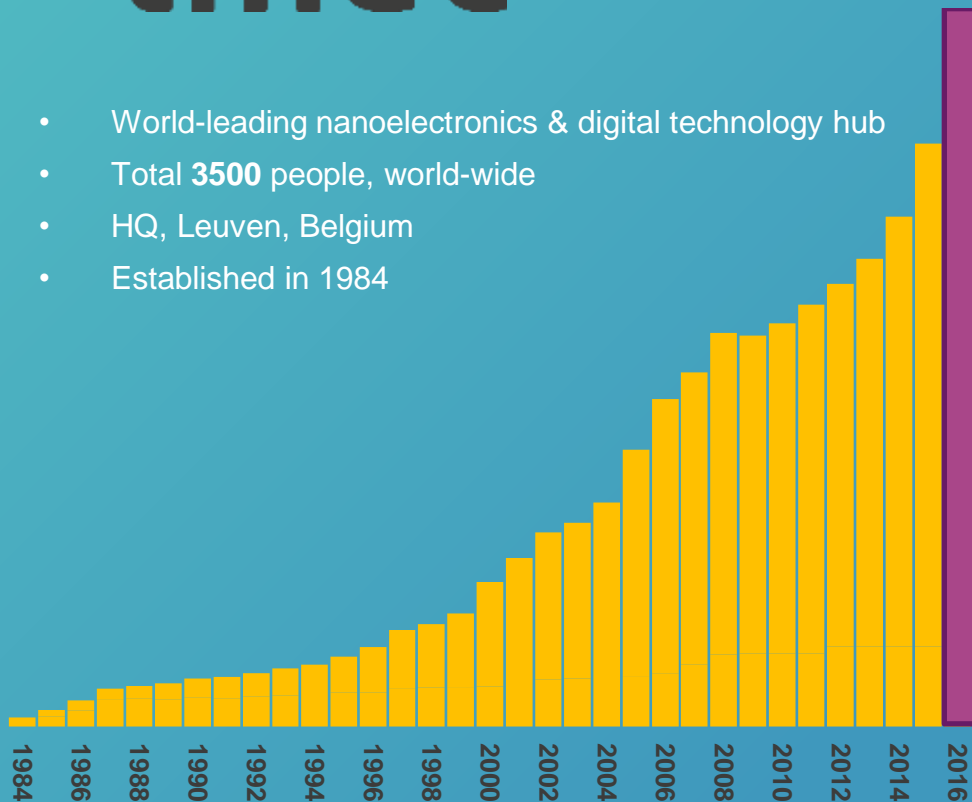
imec

DRIVING INNOVATION IN THE ECOSYSTEM

IMEC INNOVATION SERVICES



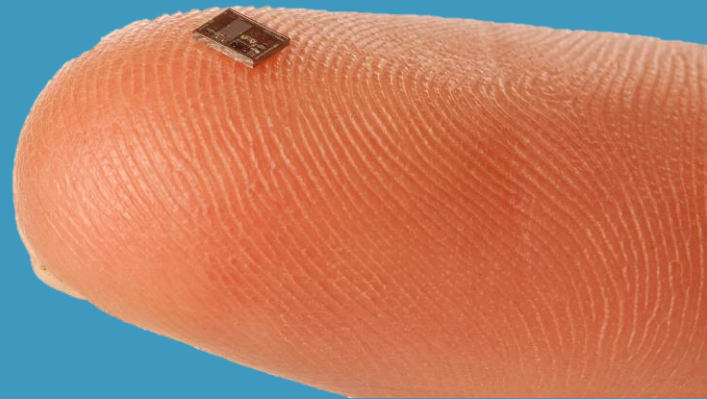
- World-leading nanoelectronics & digital technology hub
- Total **3500** people, world-wide
- HQ, Leuven, Belgium
- Established in 1984



About imec ...

REVENUE

2017: 546M€





HQ

BELGIUM

LEUVEN HQ - GHENT



THE NETHERLANDS

EINDHOVEN



USA

SAN FRANCISCO



USA

ORLANDO



INDIA

BANGALORE



CHINA

SHANGHAI



JAPAN

TOKYO



SINGAPORE

**TAIWAN
(HSINCHU)**

**Innovation
Services
Center**

IMEC INNOVATION SERVICES AND SOLUTIONS
CAN HELP YOU TO SET YOUR INNOVATION IN MOTION,
FROM IDEA CREATION TO DESIGN, PROTOTYPING, TESTING AND
PRODUCTION IN ANY VOLUME.

APPLICATION DOMAINS

SMART HEALTH



SMART MOBILITY



SMART CITIES



SMART INDUSTRIES



SMART ENERGY

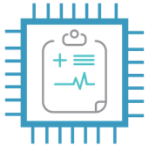


SMART EDUCATION

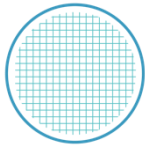


SEMICONDUCTOR & SYSTEM TECHNOLOGIES

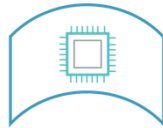
CORE CMOS



SENSOR TECHNOLOGY



FLEXIBLE TECHNOLOGY



PATTERNING TECHNOLOGY LOGIC TECHNOLOGY MEMORY TECHNOLOGY INTERCONNECT TECHNOLOGY 3D INTEGRATION OPTICAL I/O

DIGITAL TECHNOLOGY PLATFORMS

NETWORKING



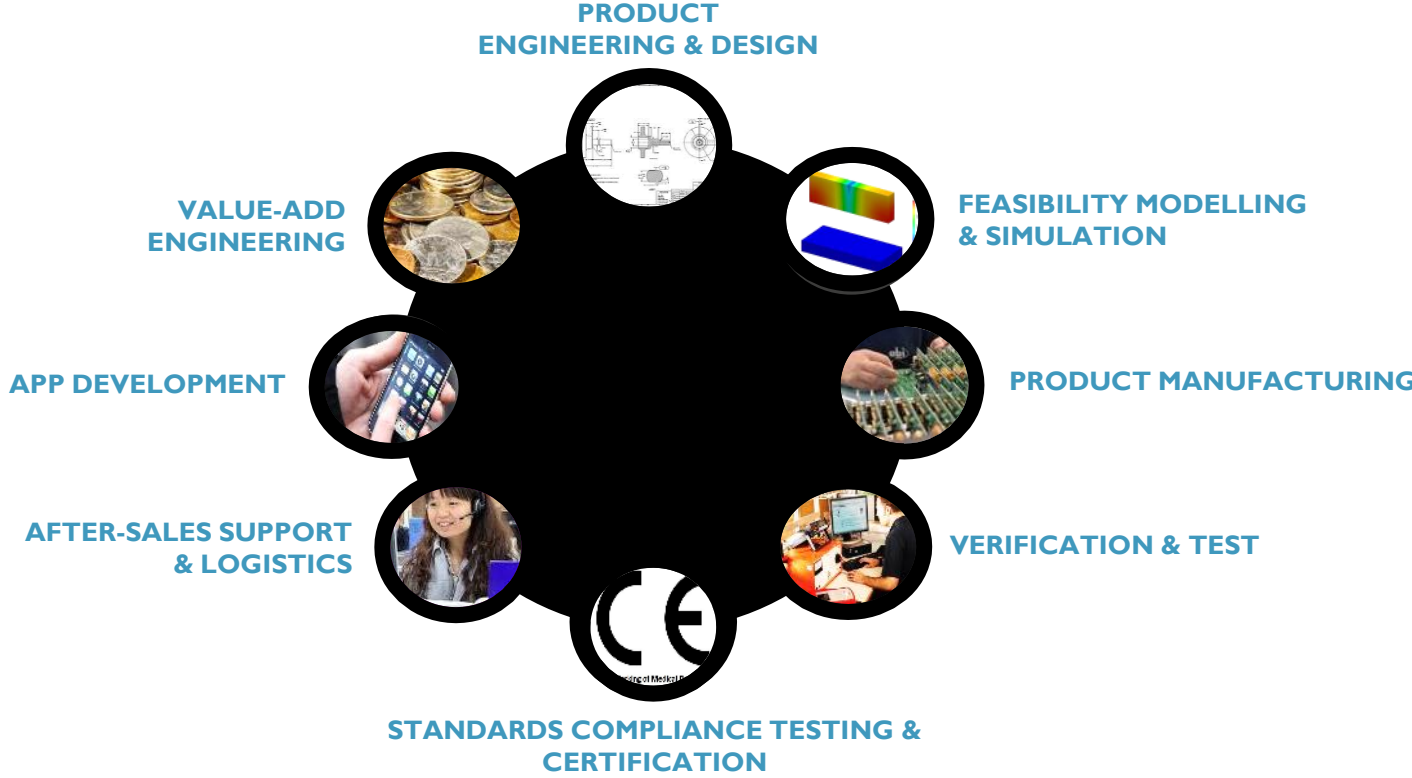
DIGITAL PRIVACY & SECURITY



SOFTWARE & DATA MANAGEMENT SKILLS



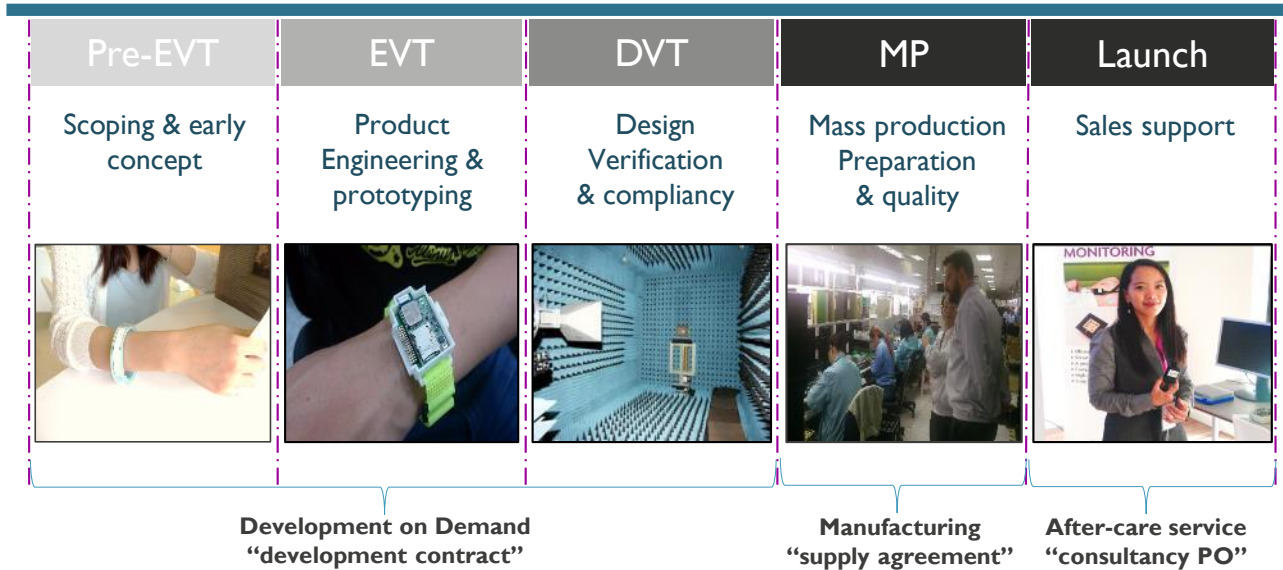
OUR SERVICES



NPI PROJECT APPROACH

CLEARLY DEFINED MILESTONES

- A typical NPI project phased approach is used. There are 3 common contract types appropriate to each phase respectively (development contract, supply agreement contract, consultancy contract).
- Performance and specification based commitments are typical.



A GREAT TEAM

75 STAFF

PROFESSIONAL METHODS

BROAD DIVERSITY OF SKILLS

NICE MIX OF EXPERTS & GENERALISTS

WELL CONNECTED TO THE ECOSYSTEM



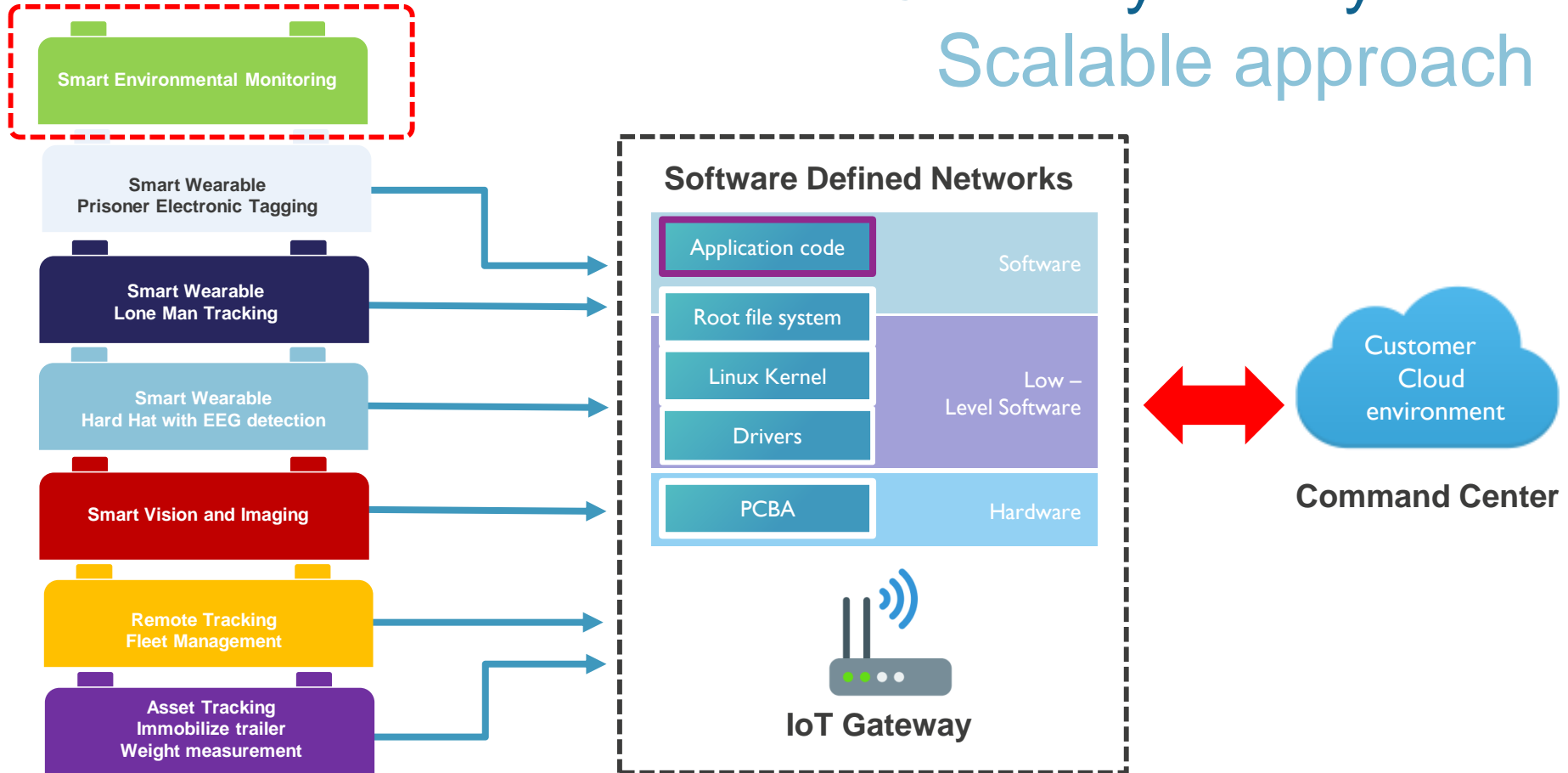


imec IoT platform

SMART REMOTE ENVIROMENTAL MONITORING

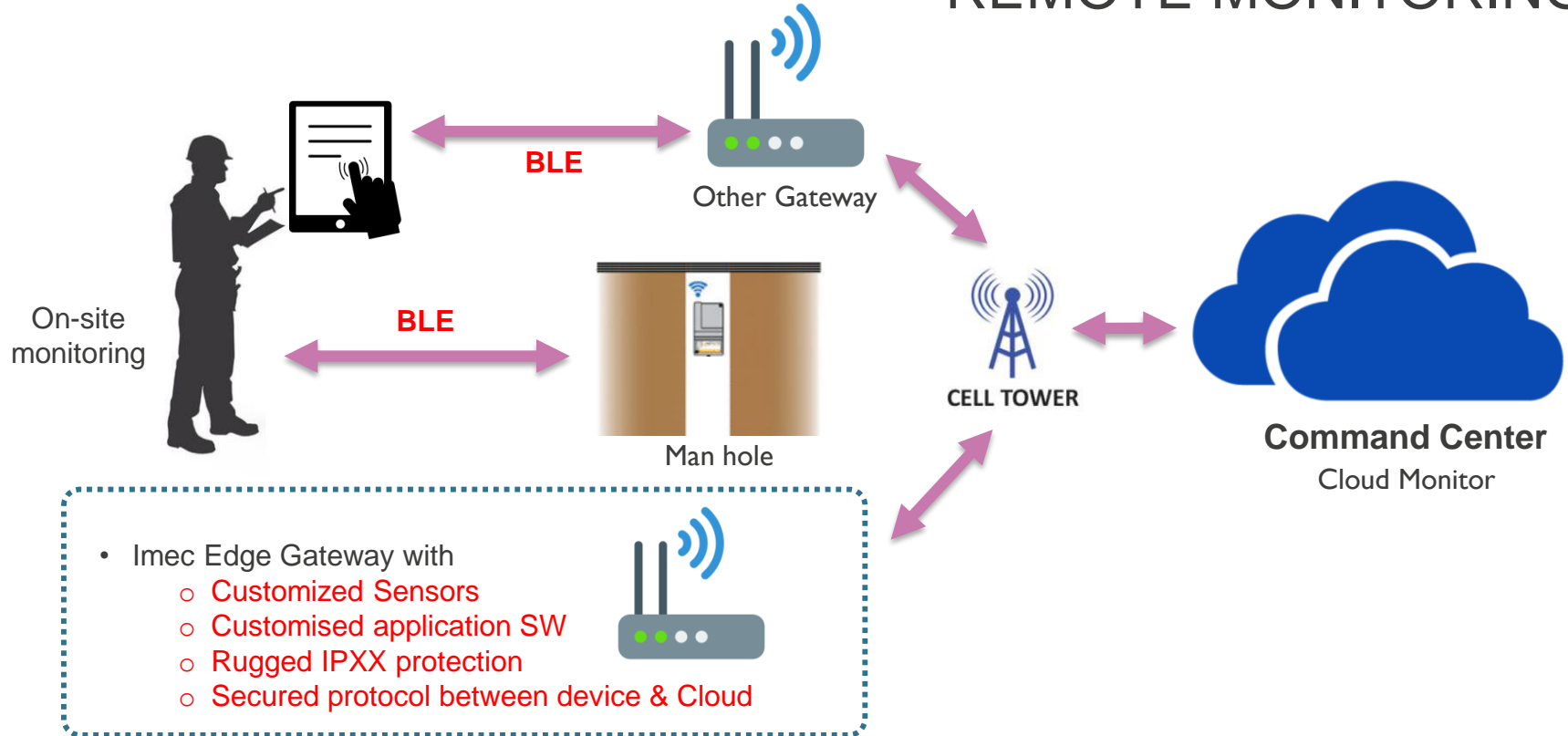
IoT Gateway Ecosystem

Scalable approach

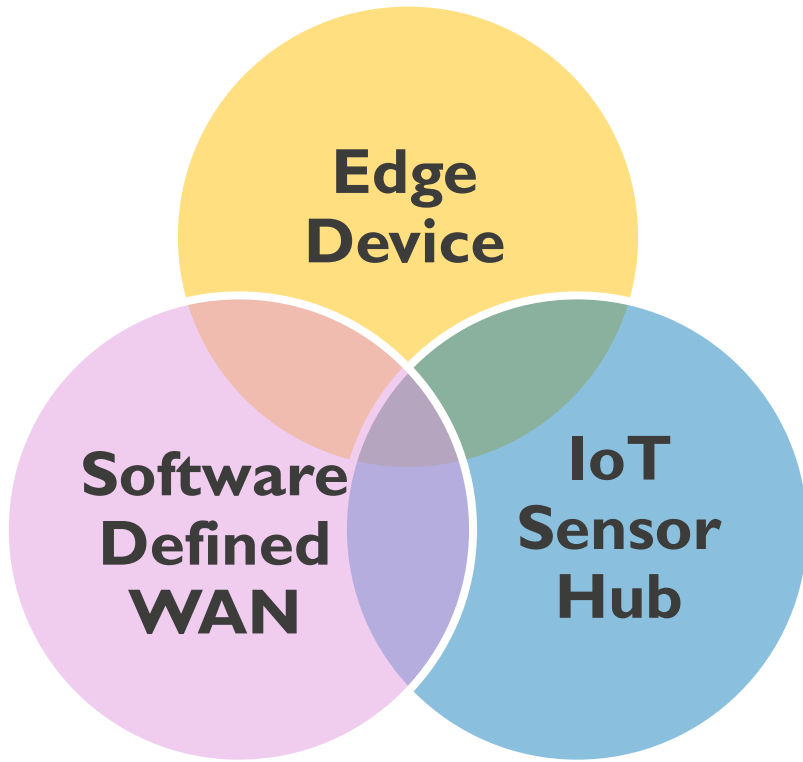


SMART ENVIRONMENTAL MONITORING

REMOTE MONITORING



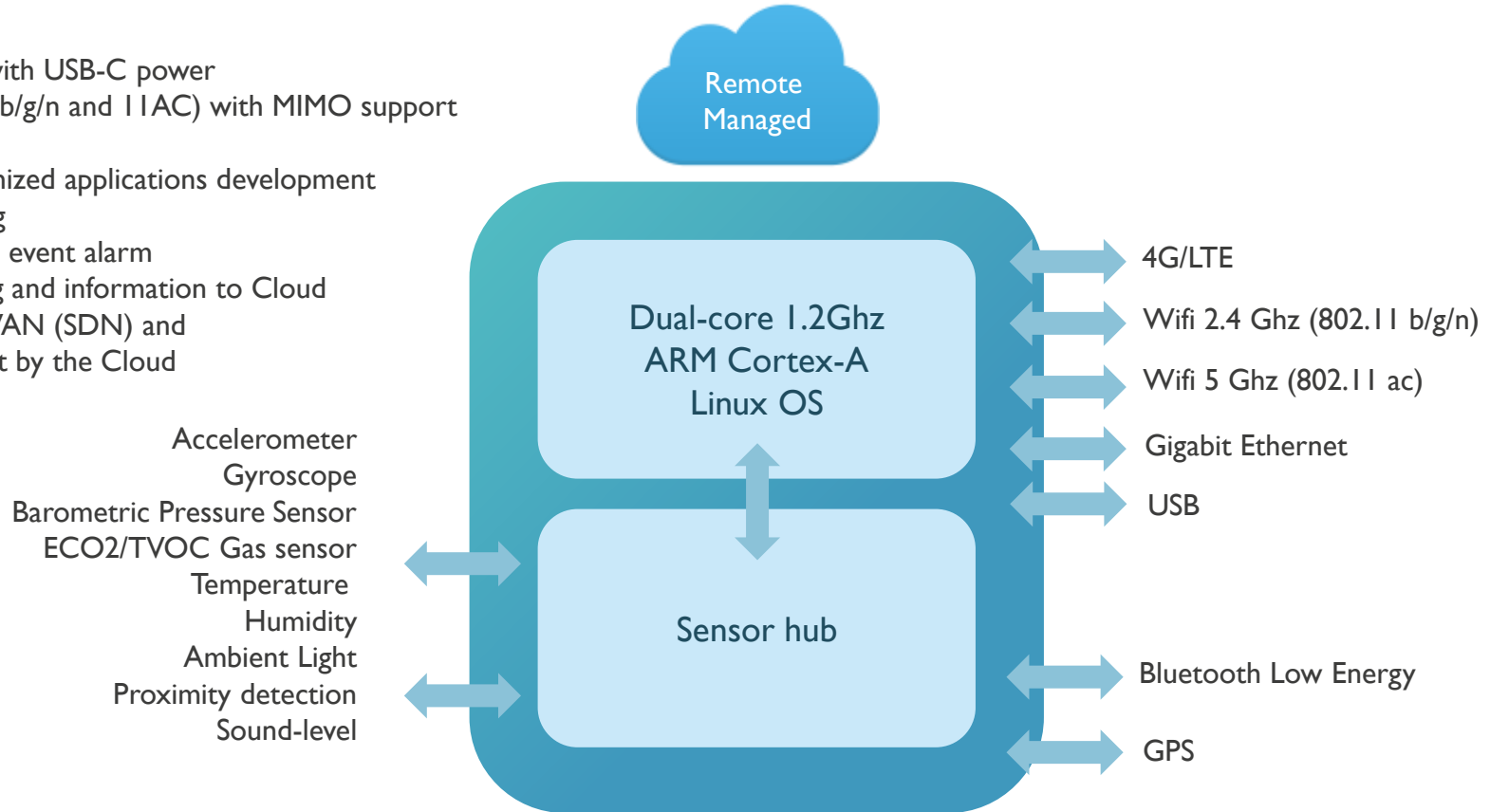
GPS / GMS / NB-IoT / BLE



IMEC EDGE GATEWAY

OVERVIEW

- Smartphone-sized with USB-C power
- Wifi dual bands (11 b/g/n and 11AC) with MIMO support
- LTE Cat 4
- SW SDK for customized applications development
- Environment sensing
- Edge computing and event alarm
- Local data recording and information to Cloud
- Software Defined WAN (SDN) and remote management by the Cloud



IMEC EDGE GATEWAY DIMENSIONS

- Length: 132,5 mm
- Width: 73,4 mm
- Height: 17 mm

FULL CUSTOM BOARD DESIGN

Plastic and Ruggedized encasings available

132,5 mm

I Mec IoT gateway (non-rugged)



73,4 mm

iPhone X (2017)



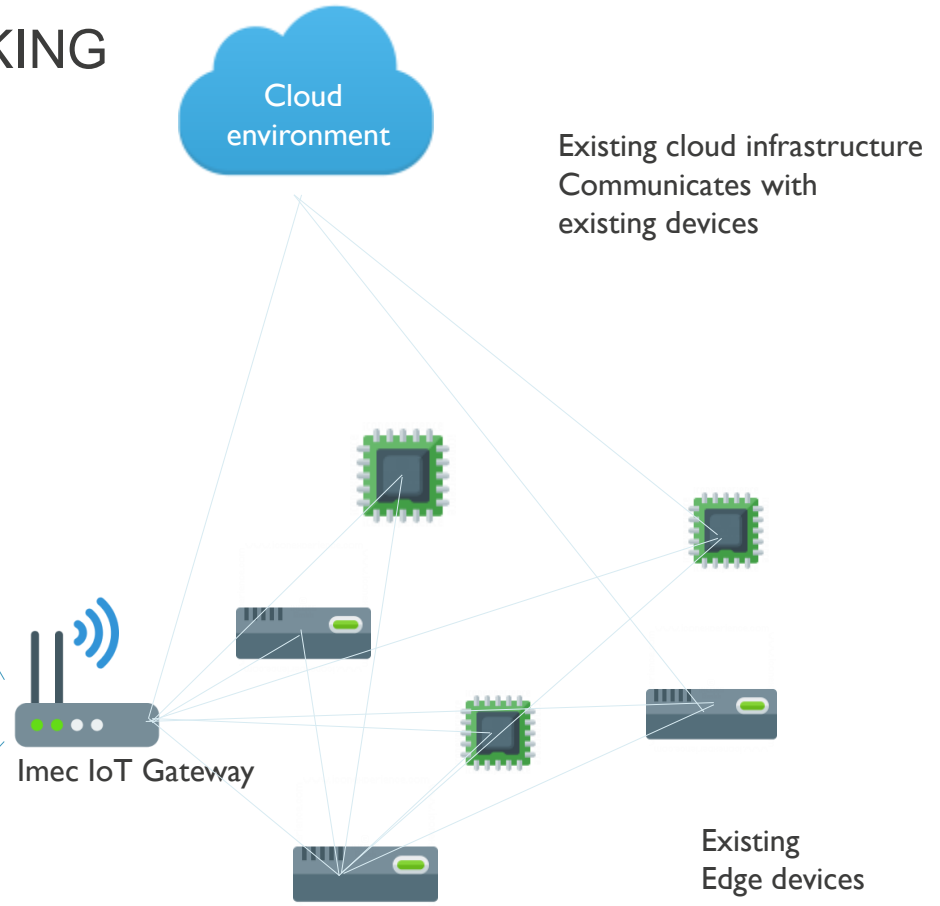
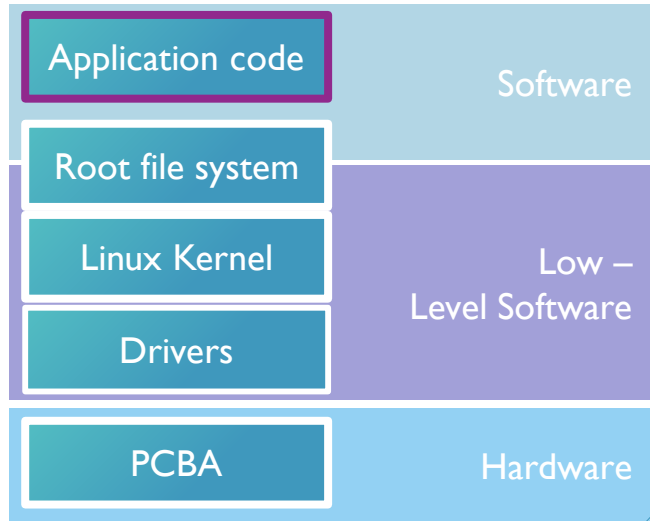
143,6 mm

70,9 mm

SOFTWARE DEFINED NETWORKING

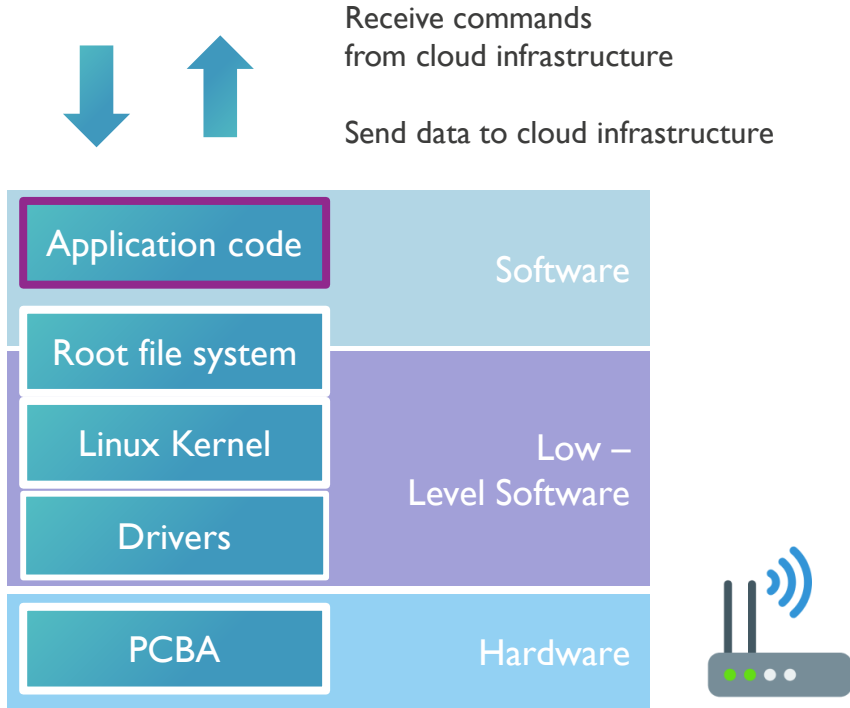
FLEXIBLE SOFTWARE STACK

Use our API to integrate your own dedicated application software and seamlessly integrate into your legacy environment.



SOFTWARE DEFINED NETWORKING

FLEXIBLE SOFTWARE STACK



Endless Possibilities

- Control underlying network devices.
 - Switch Wifi 802.11ac to monitoring mode
 - Switch WAN connection to use 4G/LTE
 - ...
- Monitor usage of underlying networking devices
- API to receive data from integrated sensors
 - Make If-this-then-that style applications
- API to control integrated sensors
 - Change sample rate
- API to receive data from external sensor
 - BLE connected sensors
 - Connected image sensors
 - ...
- API to control external devices
 - Connected image sensor
 - Text-to-speech voice commands
 - Actuators
 - ...



mec

embracing a better life