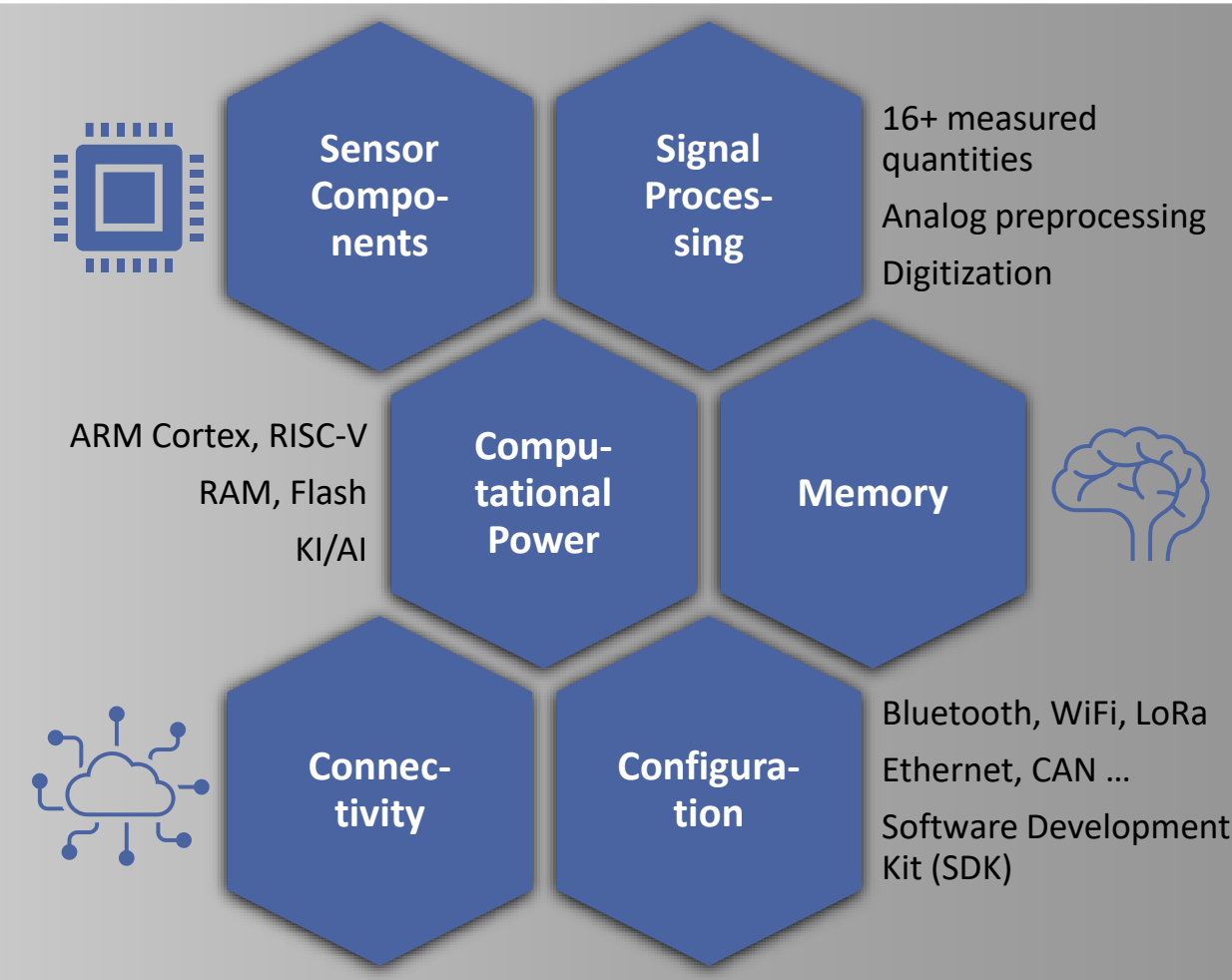


Next Step in IIoT:  
Authorized Data Access Seamlessly  
Integrated into IIoT Sensor Modules  
**Sep 14, 2022**  
**Zurich-Oerlikon, Switzerland**



# Intelligent Sensor Technology

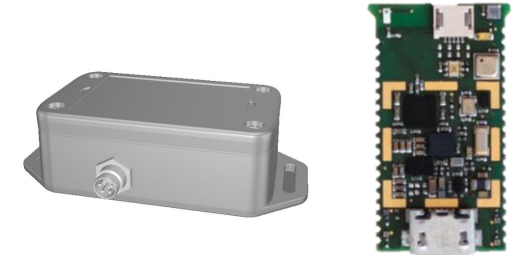
## How does it look like?



Highly Integrated Systems

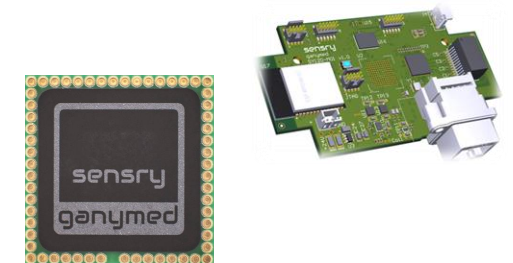
### sensry kallisto®

Recommended for *entry into any type of conventional and industrial IoT application*



### sensry ganymed®

Best choice for your *performance leap into advanced artificial intelligence IoT applications*



# Kallisto SY020-Series

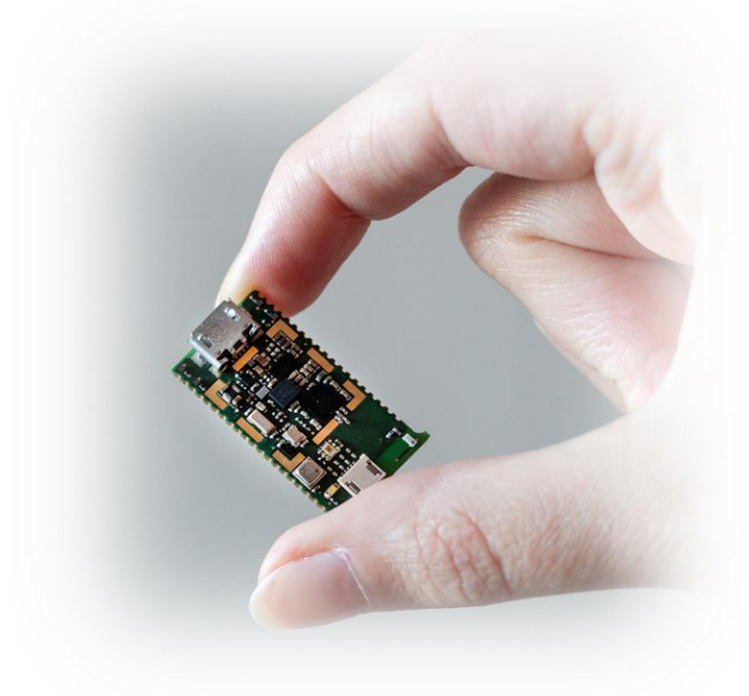
## New Industry Standard IOT Device

### Features & Benefits

- Embedded ARM Cortex M4F with RAM 256 kB & Flash 1 MB
- Power management for long battery life
- Wireless Qi or USB charge
- I<sup>2</sup>C, I<sup>2</sup>S, SPI, UART, USB 2.0, GPIOs
- BLE 5, NFC-A
- Variety of Sensors
  - Motion (acc, gyro, geomagnetic)
  - Ambient (temperature, pressure, humidity)
  - Light-to-Digital (ambient light)
  - Gas (CO<sub>2</sub>, TVOC)
- 2.2 – 5.5 V

### Target Applications

- Any Industrial IoT application
- Focus on Industrial IoT, Logistics, Smart Building



available  
now



# Ganymed SY120-Series

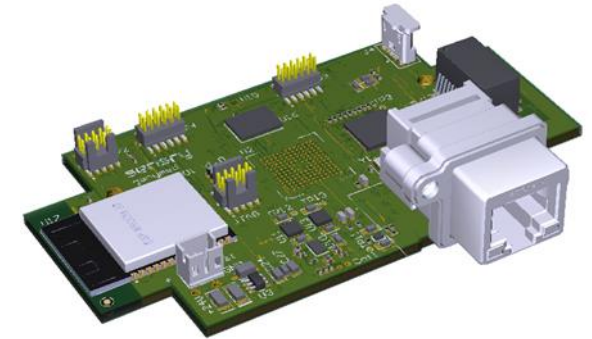
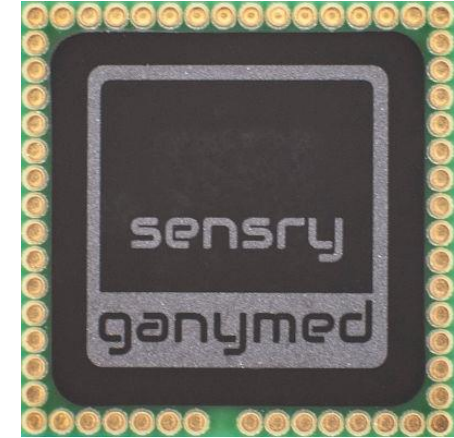
## Next Gen Edge Device

### Features & Benefits

- Multicore: 8+1 RISC-V cluster cores
- 4 MB SRAM & 1 MB MRAM
- Multiple digital & analog interfaces
- CAN-FD\* core
- Ethernet-TSN\*\* core
- High Security: TRNG, OTP, AES, Secure Boot...
- Variety of sensors (→ like SY020)
- Customizable package-on-package peripherals
- Software ecosystem (SDK, code examples ...)

### Target Applications

- Industrial IoT requiring high computational power, e. g. predictive maintenance
- Edge computing device for AI and NN (neural networks)



\*FD = flexible data rate

\*\*TSN = time sensitive networking

# Enabling Communication of Installed Assets

## How does this work?

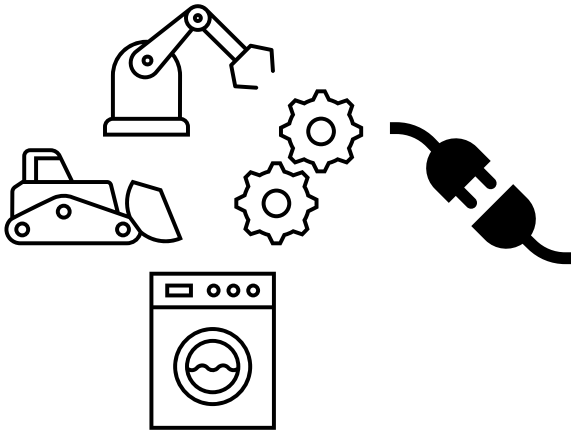
Stationary Solution



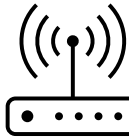
**sensry**  
UNIVERSAL SENSOR PLATFORM

Manufacturers of IoT Gateways

Provider (SaaS) Cloud connectivity and IoT platforms



**sensry kallisto**  
**sensry ganymed**



Bluetooth, WiFi, LoRa



# Enabling Communication of Installed Assets

## How does this work?

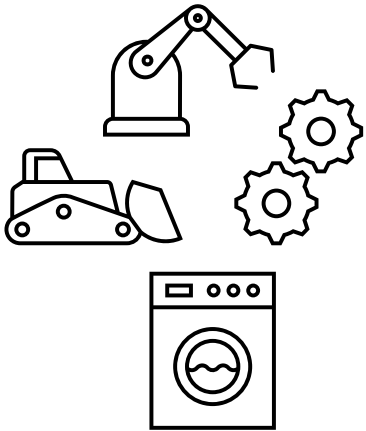
Mobile Solution



**sensry**  
UNIVERSAL SENSOR PLATFORM

**sensry**  
UNIVERSAL SENSOR PLATFORM

Provider (SaaS) Cloud connectivity and IoT platforms



**sensry kallisto**

**sensry ganymed**



NB-IoT, LTE-M



Authorized Data Access  
(stationary & mobile)

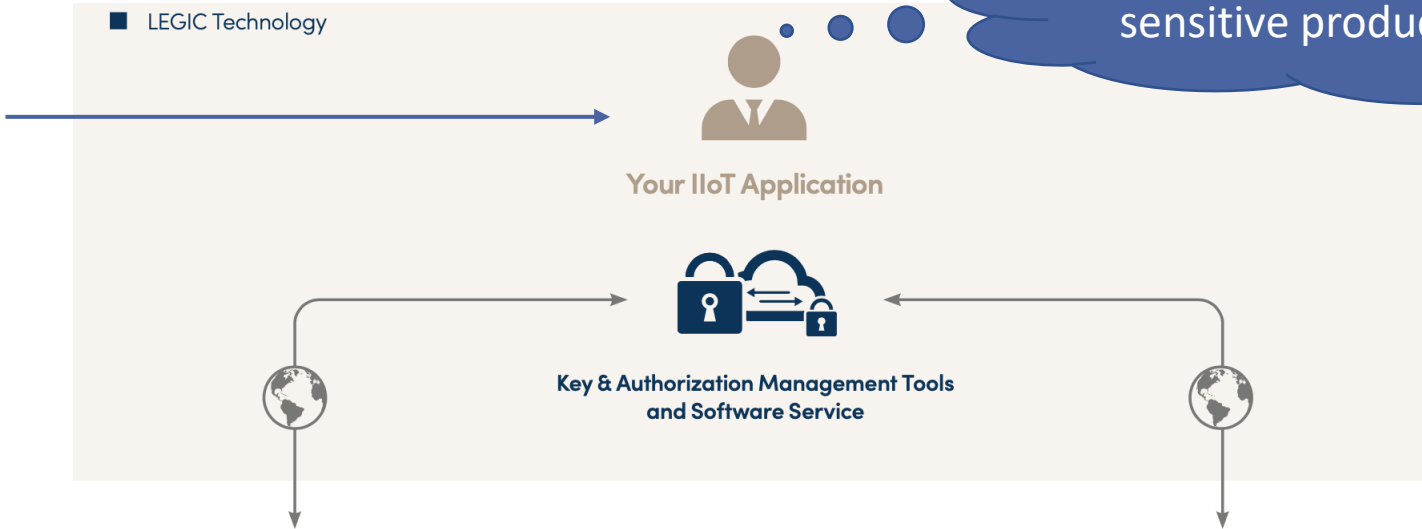
- Protection of your own data and knowledge
- Opportunity for new, digital business processes

# Authorized Data Access

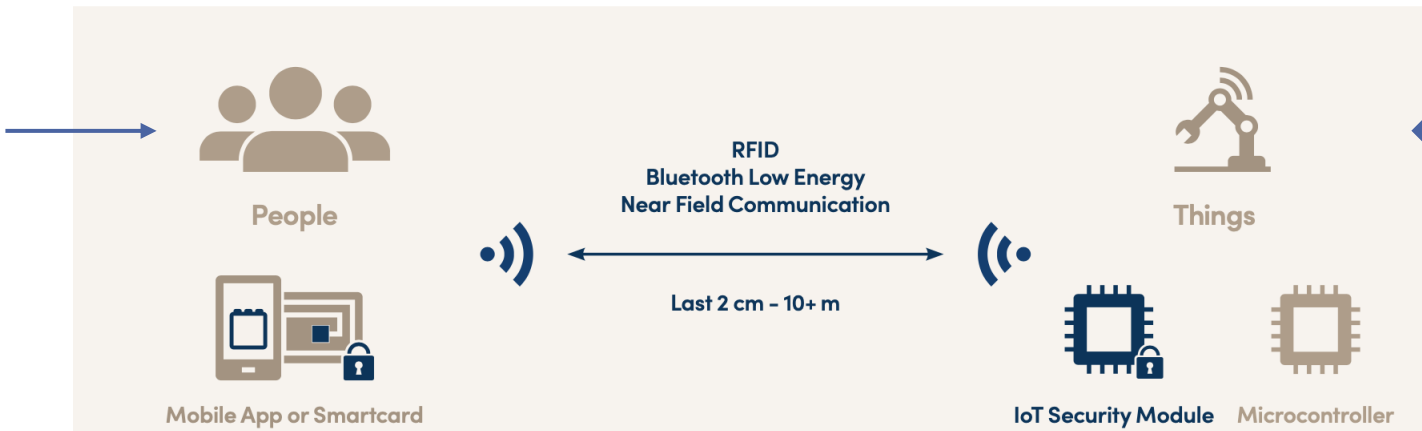
## Making it work with LEGIC's SM-6310 on-board

How do I protect my sensitive production data?

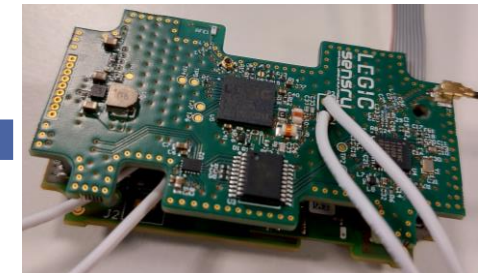
Machine operators  
Maintenance needs



Machine manufacturer  
Maintenance supplier



Solution:



Courtesy of LEGIC Identysystems

# Kallisto-based XDK successor

## Continuation of the XDK roadmap

### Features & Benefits

- **SM-6310** - *new*
- **WiFi** - *new*
- Bluetooth Low Energy (BLE 5)
- Embedded ARM Cortex M4F with RAM 256 kB & Flash 1 MB
- Power management for long battery life and charging
- I/O ports for extensions
- Variety of Sensors
  - Motion (acc, gyro, geomagnetic)
  - Ambient (temperature, pressure, humidity)
  - Light-to-Digital (ambient light)
  - Gas (CO<sub>2</sub>, TVOC)
  - Acoustic (microphone)
- 24 V (M8 connector, 4 pins)

### Target Applications

- Any Industrial IoT application – *now including data-selective use cases*
- Focus on Industrial IoT, Logistics, Smart Building

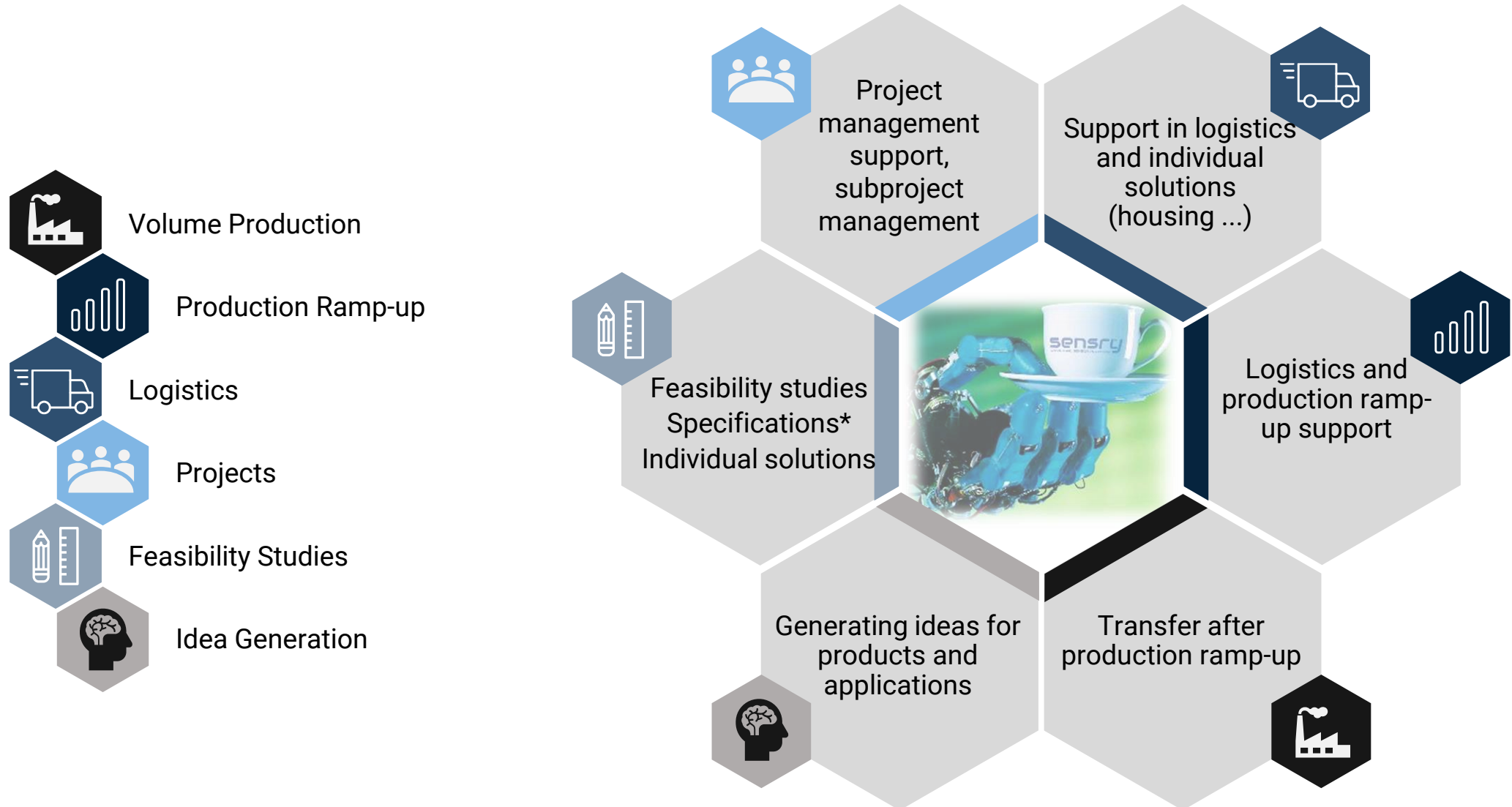


*Prototypes can be ordered now!*



# How do you get this unique benefit?

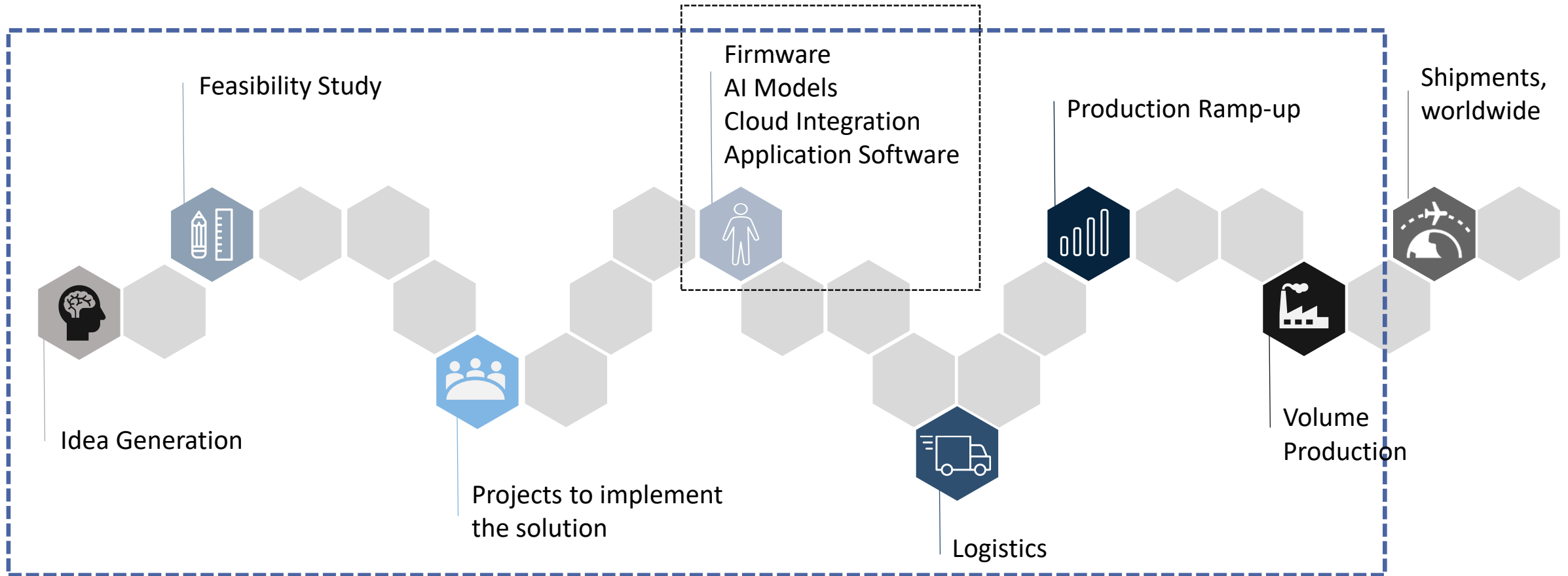
## Our Range of Services




\* System architecture, sensor selection...

# Our Service Spectrum

## Customer-centric support from the idea to production



 Spectrum of **sensry**

 Extent of customer involvement or of another IT vendor/partner (can be a separate project)

# Summary

## Sensry: Who are we? What do we offer?

- 1 One-Stop-Shop for powerful IoT sensor modules incl. firmware (software development kit)
- 2 Industry-experienced experts, each with a technical background and at least 20 years of practical experience
- 3 Network of highly reliable partners for development and production (high volume)
- 4 Focus on industrial IoT, logistics/transportation and smart buildings
- 5 Consistently elaborated roadmap for own IoT standard products
- 6 High flexibility to realize customer-specific adaptations with short development and lead times





Thank you very much  
Q&A

**Sensry**<sup>®</sup>  
UNIVERSAL SENSOR PLATFORM

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Winner of  
Launchpad ofvIDTechEx  
April 10 – 11, 2019

Startup of the Year  
February 14, 2020

