IoT Solutions

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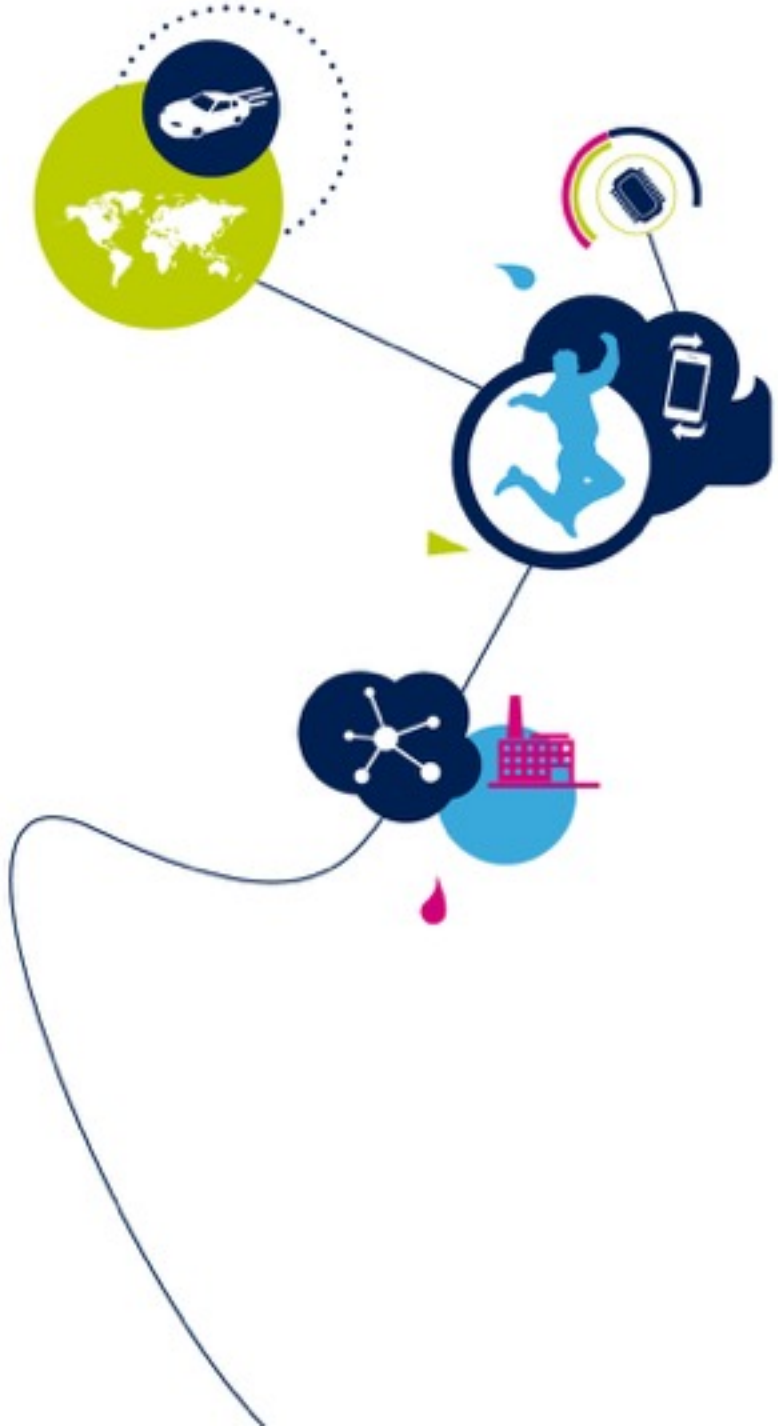
ST Central Labs



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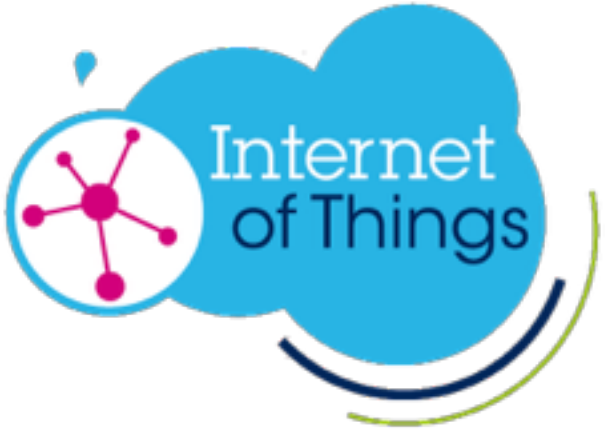
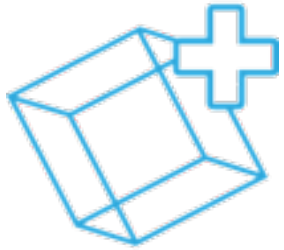




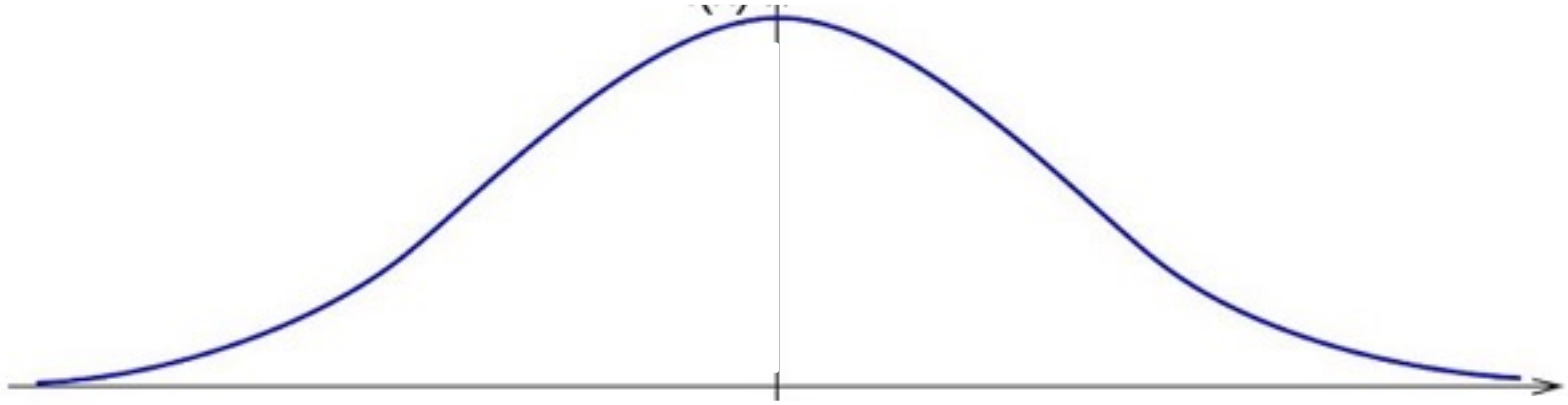
Smart Things

Smart Home & City

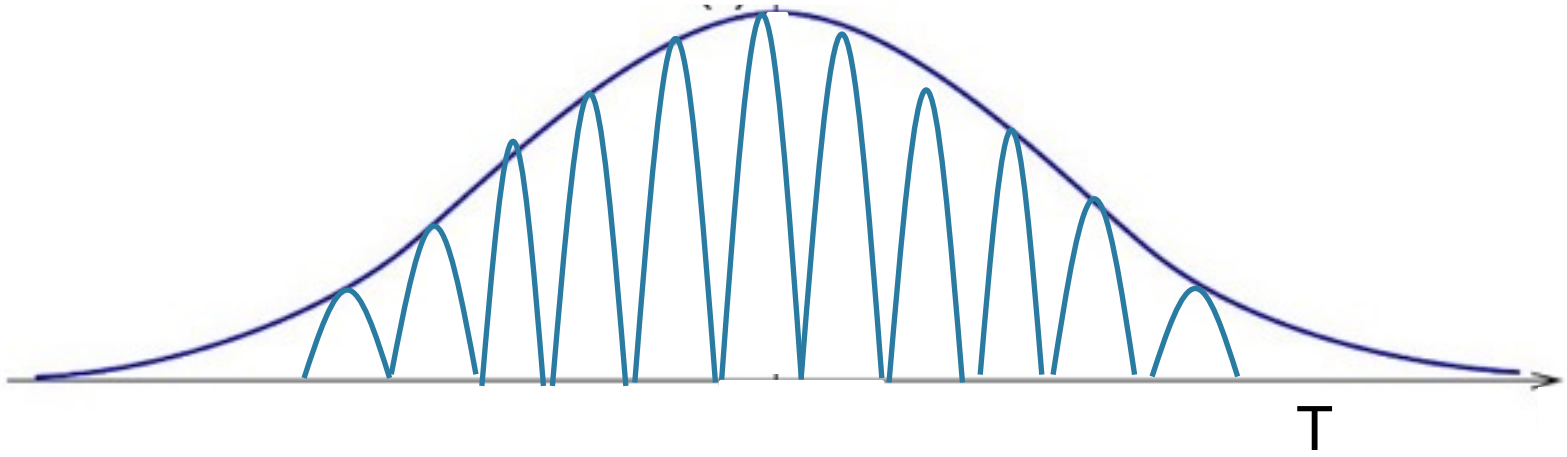
Smart Industry

Smart Driving

Traditional markets



IoT



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The Building Blocks of the IoT

	Processing	Security	Sensing & Actuating	Connectivity	Conditioning & Protection	Motor Control	Power & Energy Management
Smart Things	Ultra-Low Power to High Performance	Scalable security solutions	Full range of sensors and actuators	10 cm to 10 km	Nano Amps to Kilo Amps	Power conversion Monitoring Drivers	Nano Watt to Mega Watt
Smart Home & City							
Smart Industry							

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ST Strategy and Offer for the IoT

IoT is an end-to-end system from device to cloud involving many actors

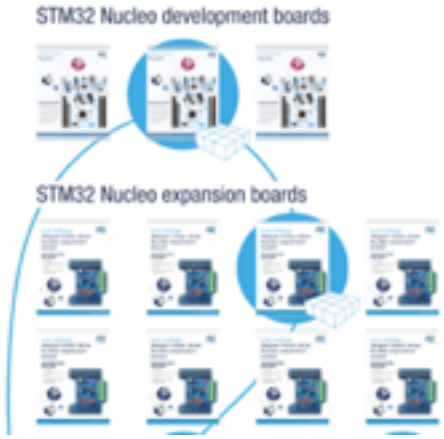
ST has a coherent strategy to cover the market needs

The right building blocks for IoT devices	Lower barriers for developers getting started	Lower barriers from prototyping to first product	Lower barriers to connect devices to the Cloud	Enable product & service commercialization

Building Blocks

- Processing
- Security
- Sensing & Actuating
- Connectivity
- Motor Control
- Power & Energy Management
- Conditioning & Protection

Stackable Boards & modular SW



Application specific SW

- Audio Algorithms
- Sensor Fusion

Pre-integrated Software for vertical Applications

- Smart Home
- Building automation
- Wearable

Integration of Cloud Provider SDKs

- amazon webservices
- Microsoft Azure
- Watson IoT

Ready to use Smartphone Apps

Partner Program

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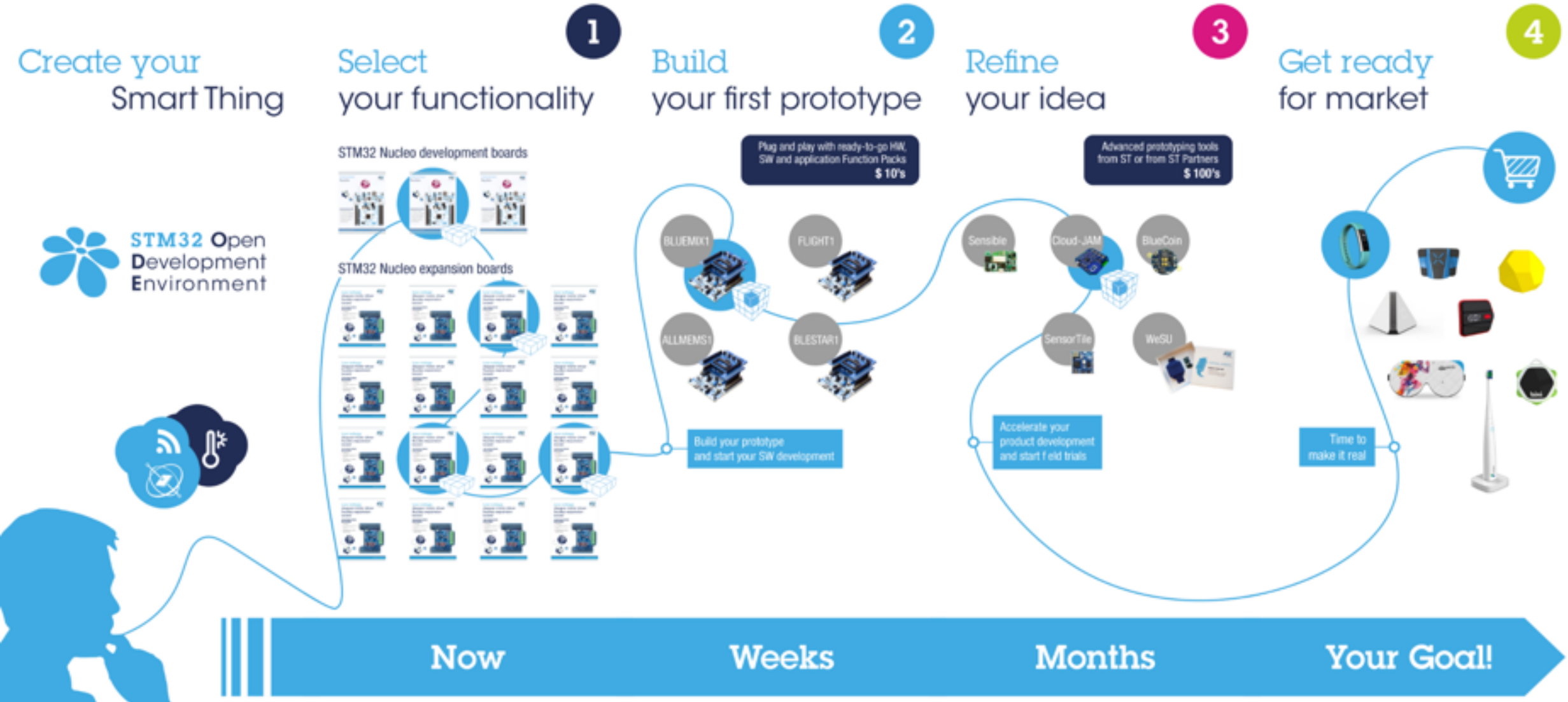
Partner Program

IoT Product Development

Make it easy and make it fast



Modular Hardware

27 development boards and growing… in two flavors (Processing & Security)

Covering all STM32 microcontroller families
and different development needs

32 expansion boards and growing… covering all the key functions

Sense (5)	Connect (9)	Power Drive (3)	Move Actuate (12)	Translate (3)
Motion & environmental sensors	BLE	Power management	Motor drive	Audio amplifier
Proximity sensor	Wi-Fi	LED boost	Actuator	OpAmp
Microphone	Sub-GHz			
	NFC			

ST Solutions for the IoT

INTEGRATION

Common SW Platform

3 Cloud Provider SDKs supported, enabling sensor-to-cloud

131 SW packages from drivers to full application examples and Mobile Applications

STM32 Open Development Environment

Wearable | IoT Smart Things | Smart Home | Building automation

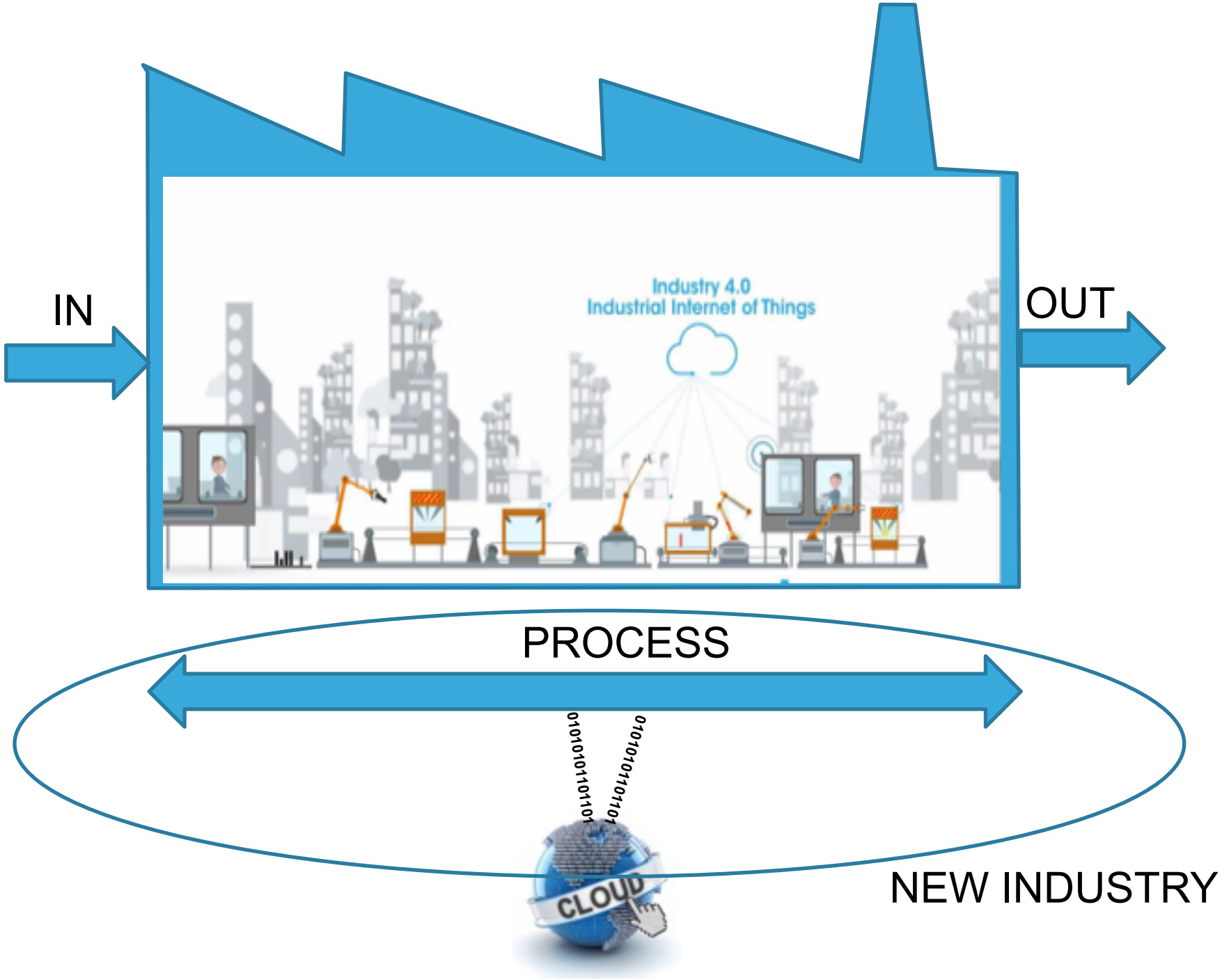
Modular Hardware

27 STM32 Nucleo development boards
Covering the broad portfolio of STM32 MCU families

32 STM32 Nucleo expansion boards (X-NUCLEO)
Offering peripheral functions

Form factor boards

ST & 3rd party form-factor boards


IN
Industry 4.0
Industrial Internet of Things
OUT
PROCESS
CLOUD
NEW INDUSTRY