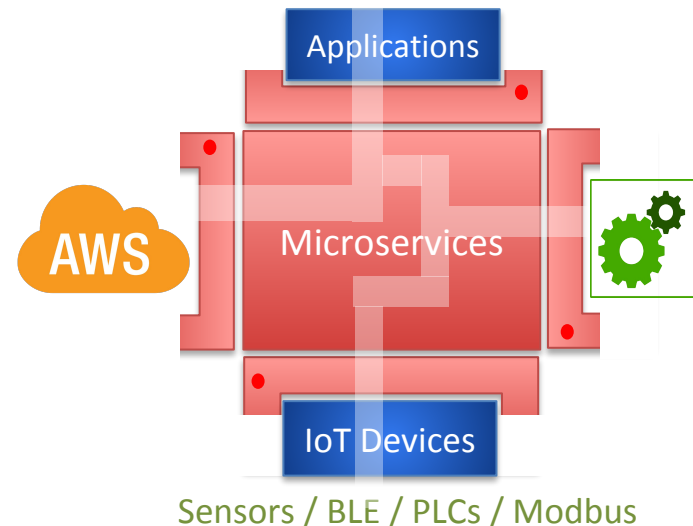# AI+Things - Rapid IoT

www.aiothings.com

What is Aiothings

- IoT hub for device OEMs and application owners
- Rapid support of new hardware
- Friendly online dashboard and API
- Easy adding new software services

Sensors / BLE / PLCs / Modbus

AI⊕Things

for Device manufacturers

- IoT cloud services
    - Web app and dashboard for data query
    - API interface to customers' online services
    - Device provisioning and authentication
    - Device management

AI◌Things

for Application owners

- Connected hardware bringing offline to online
  - Short development cycles
  - Competitive product costs
  - Ready online interface and data models
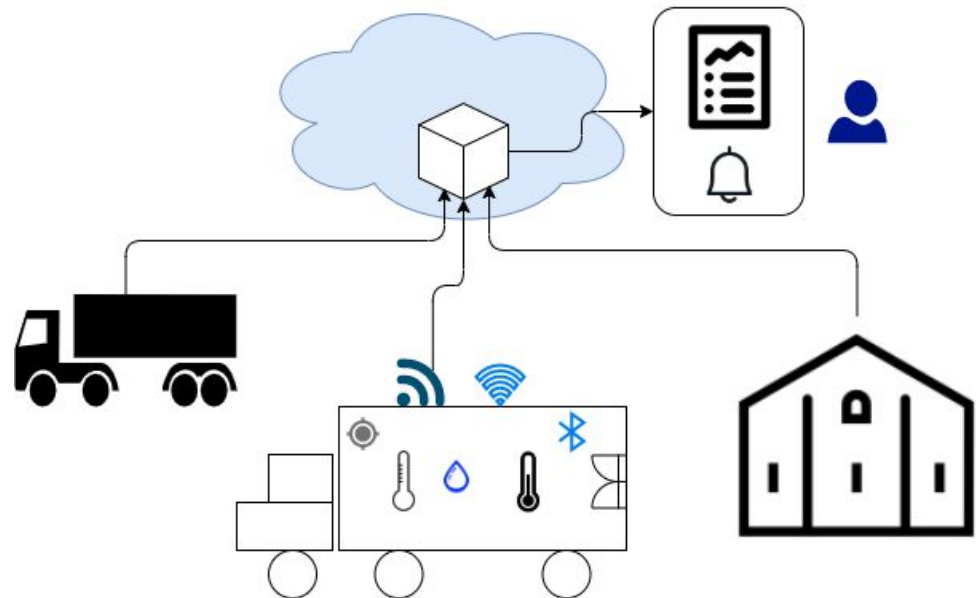 - Easy installation and configuration

AI●Things

Aiothings services

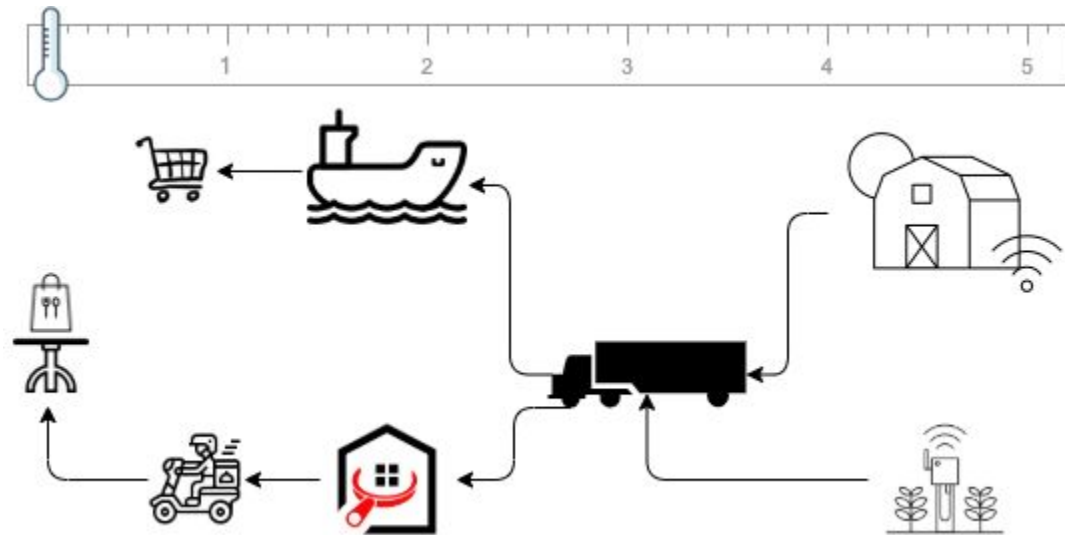| IoT Devices	Embedded Software	Device Management	Data Services	Cloud Application
Windows / Linux Industrial PC	Board Support Packages	Device provisioning	Data query and reports	Event triggers
ESP8266 / ESP32	Embedded Linux	PKI authentication	Edge computing	Message routing
Raspberry Pi	FreeRTOS	Batch firmware update	Serverless functions	Shared microservices
NXP i.MX8M	Ubuntu Core	Dashboard	REST APIs	Machine learning
MediaTek MK76xx	Node-RED	Event notification	Web app	Running logs
Nordic nRF52xx	OpenWrt	Mongoose	User notification	IFTTT
Sensor Tags	Bluetooth BLE	MQTT	Database	Connectors

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case: Cold-chain sensor hub

- Gateway and sensor tags
- Temperature, humidity, door and reefers
- LTE/3G, Wi-Fi, GNSS/GPS
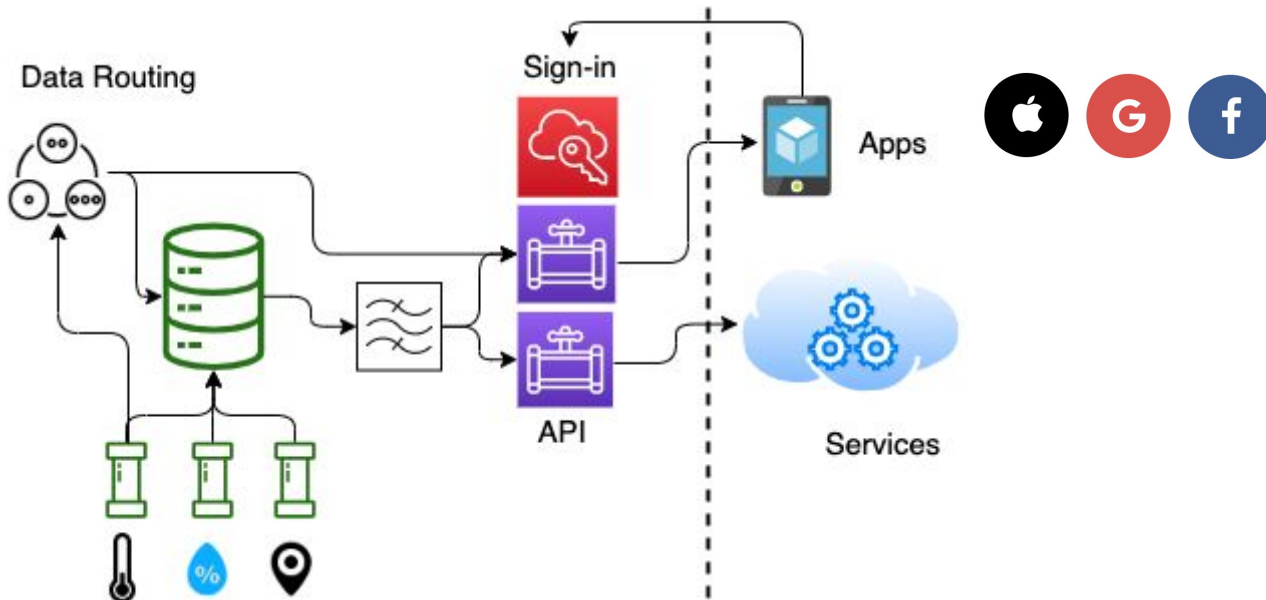- Bluetooth BLE

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case: Food safety

- Monitoring of temperature-controlled products
- Real-time sensor data to food traceability
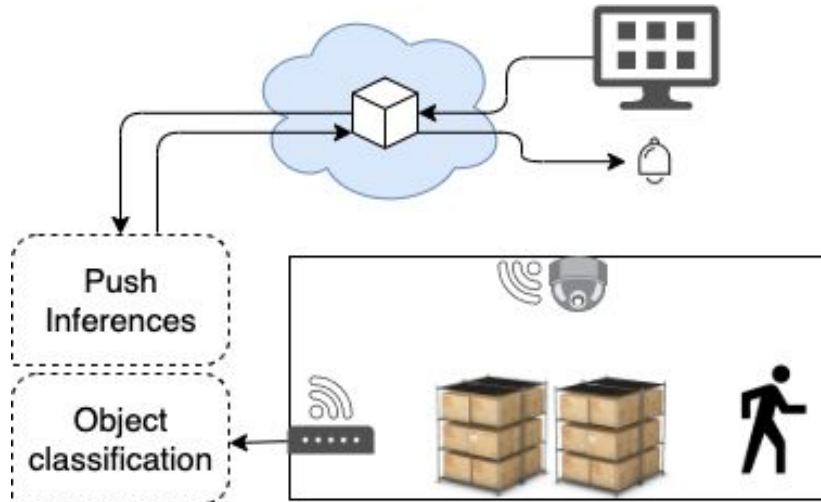- Predictive intelligence for food safety

case: IoT data services

- Data store, query, filter and processing
- Sign-in as Apple, Google, Facebook users
- API creations with keys

case: Surveillance

- Push inference functions to edge devices
- Send alert events only to cloud
- Define edge functions in groups

Solution architecture