

TECHNICAL SEMINAR

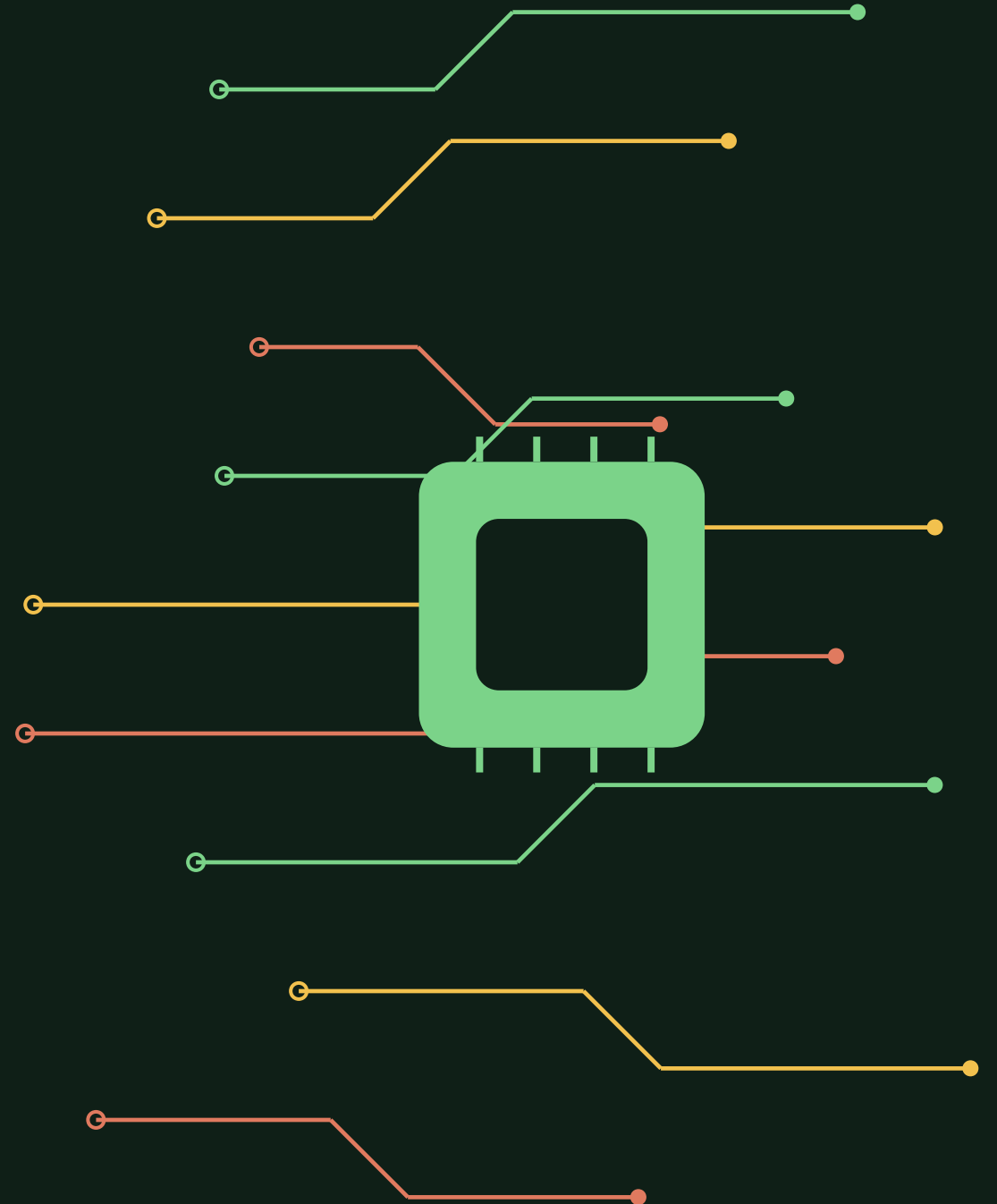
Internet of Things (IoT)

Connected devices that sense, think and act

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DATE
2026

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Agenda

01 Introduction

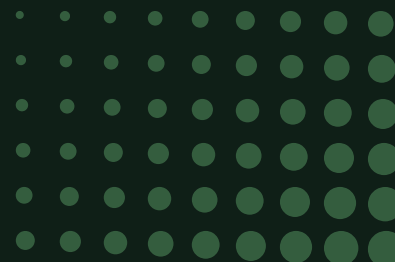
02 Architecture

03 Trends

04 Adoption



Image



KEY IDEA

**When everyday
objects can talk,
everything gets
smarter.**

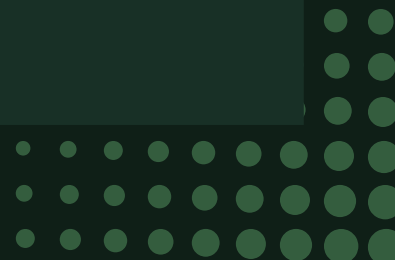
Why it matters

Overview

- IoT connects sensors and devices to the internet
- Data from devices drives automation and insight
- Used in homes, farms, factories and cities
- Security and power are key design challenges

KEY IDEA

Design for low power and secure updates from day one.



How it works



Sense

Sensors measure the
world



Connect

Wi-Fi, BLE, LoRa or cellular



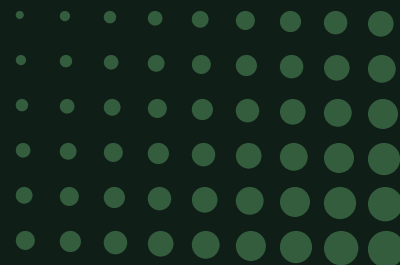
Analyse

Edge or cloud processing



Act

Alerts and automatic
control



Core components

01

Devices

Sensors and actuators.

02

Connectivity

Networks and protocols.

03

Platform

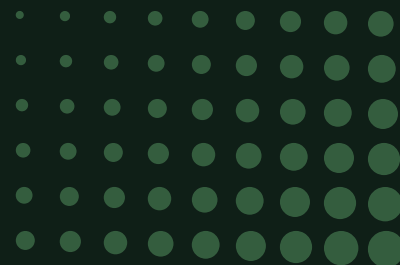
Data, dashboards and rules.



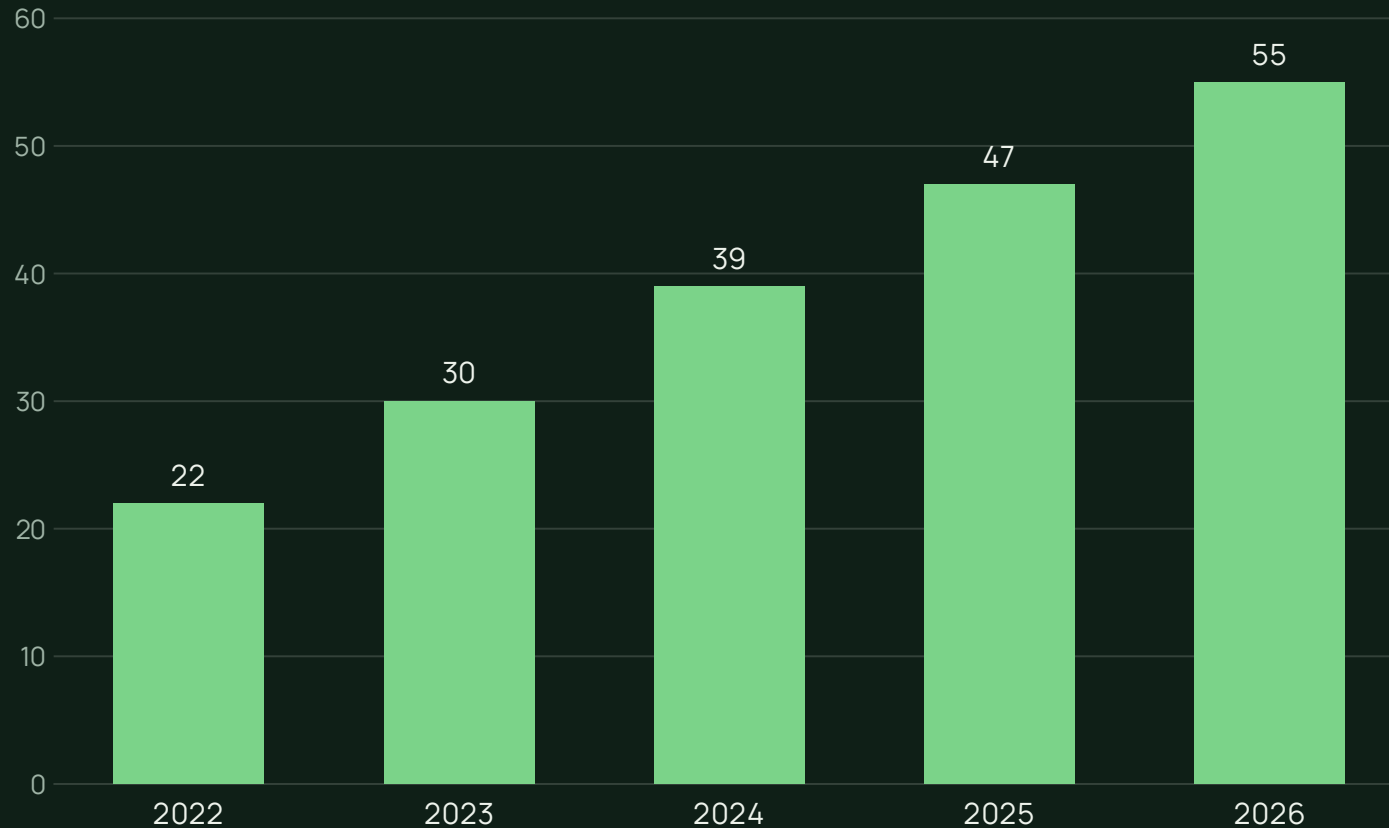
Tools and options

Layer	Popular choices	Notes
Boards	ESP32, Raspberry Pi	Cheap prototyping
Protocols	MQTT, HTTP, CoAP	Lightweight messaging
Platforms	Dashboards and rules engines	Start with open source

Generic examples; pick what fits your project.

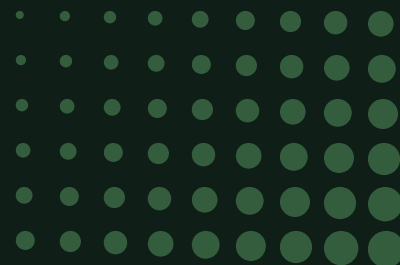


Adoption over time



Adoption keeps rising as tools mature (sample data).

Sample data for illustration – replace with your own figures.



Use cases



Image 1

Smart agriculture

Soil and weather sensing



Image 2

Smart homes

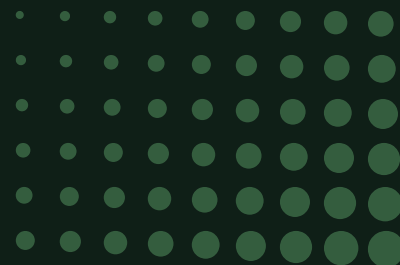
Lights, locks and energy



Image 3

Industry

Predictive maintenance



Benefits and risks

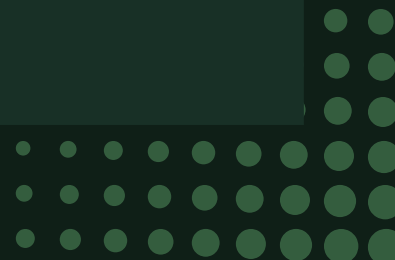
Benefits

- Real-time visibility
- Automation saves cost
- New services possible

vs

Risks

- Security vulnerabilities
- Battery and power limits
- Interoperability gaps



Best practices

01

Secure by default

Unique credentials per device.

02

Plan updates

Over-the-air firmware.

03

Collect less

Only the data you need.



Getting started roadmap

Week 1

Learn

Core concepts and a tutorial

Week 3-4

Pilot

One real use case

Week 2

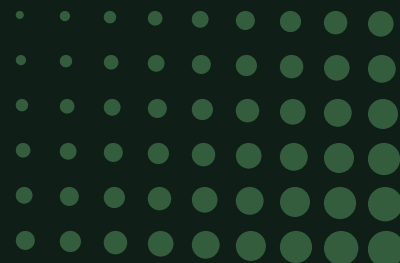
Prototype

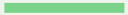
Small proof of concept

Month 2

Scale

Standards, monitoring,
training





Questions?

Thanks for your time.

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