



■ Deploy

Connect

Optimise

IoT

Security

IA

Wireless

Plug&Play

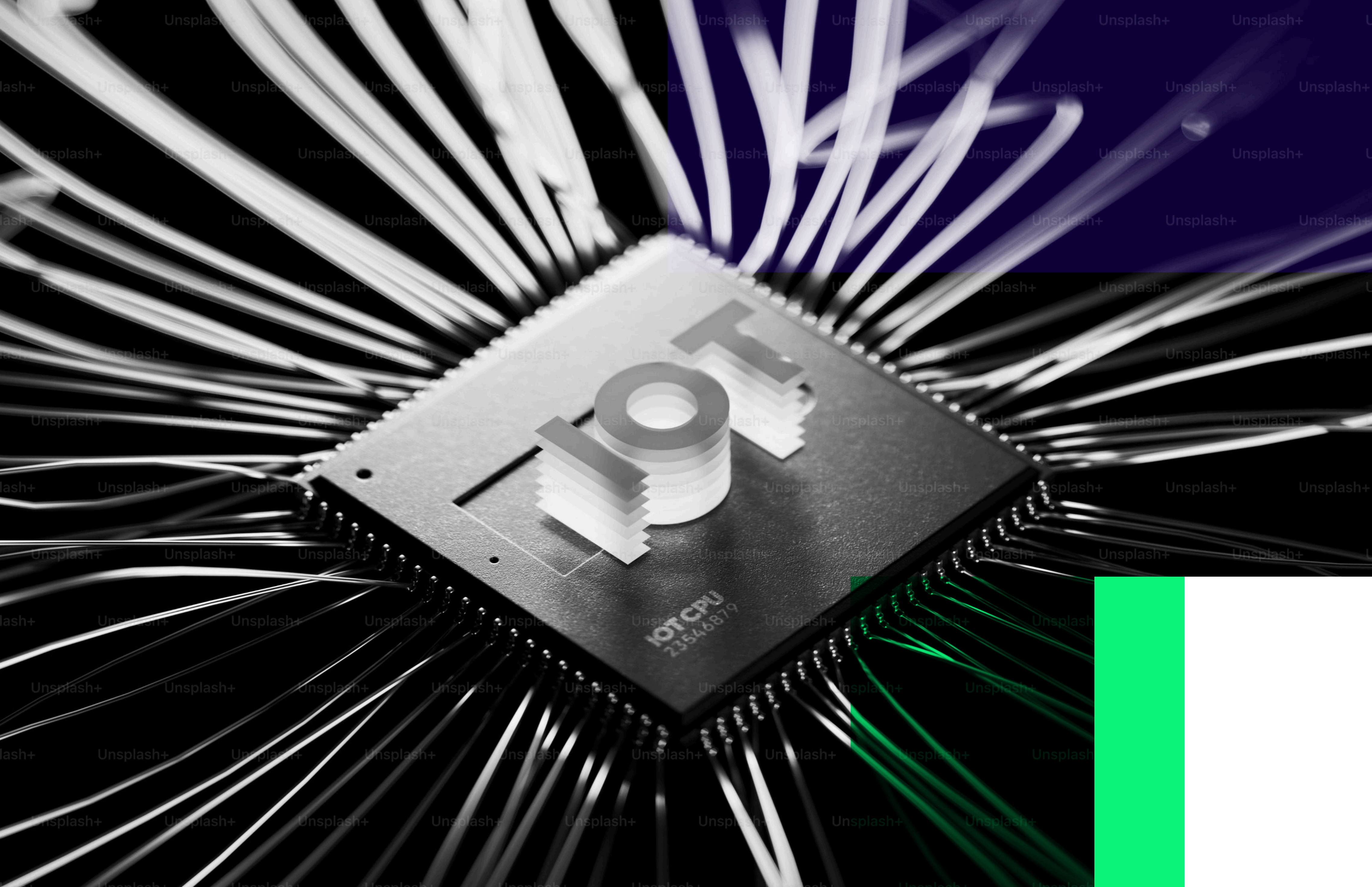
 sycon.fr

 hello@sycon.fr

 01 89 54 39 94



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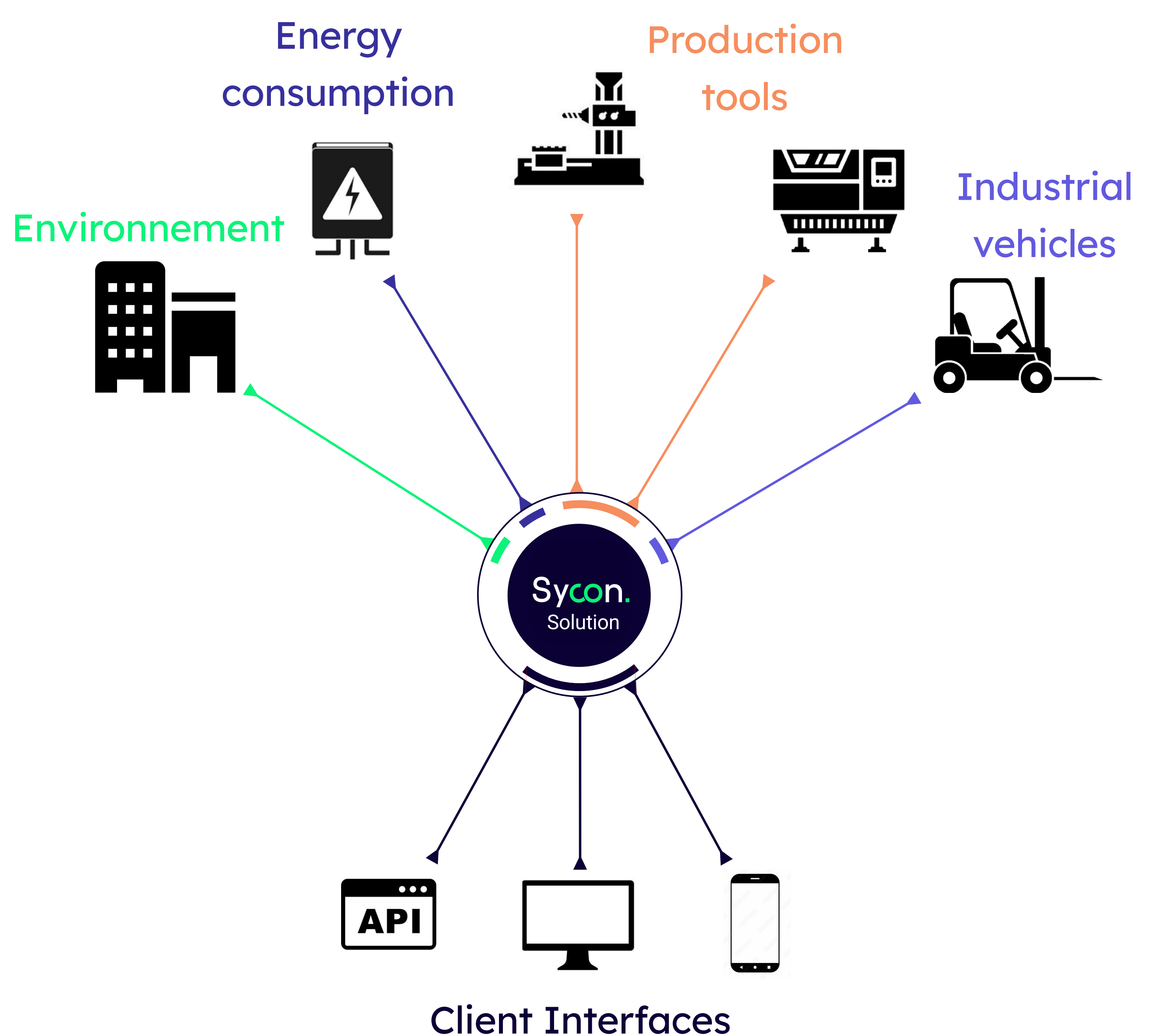
Who are we ?

Sycon offers an innovative ecosystem to support industries in their digital and sustainable transition, leveraging advancements in microelectronics, communications, data analysis, and artificial intelligence. Our solution ensures optimal data utilization, from collection to visualization.

Our Solution

Our system is based on a smart and connected device, designed to be seamlessly integrate with machine tools, key points in the production line, and even external equipment like vehicles.

This device can collect and securely store a wide range of relevant data from machines and their environment, including vibrations, energy consumption, temperature, and more. The data is then processed and made accessible on any digital platform.



3-15% **Energy Cost Reduction, CSR Approach**
Real-time monitoring and optimization of consumption
Tracking environmental impact

5-10% **Production Optimization, Failure Anticipation**
Real-time machine monitoring
Early detection of machine deviations
Real-time alerts

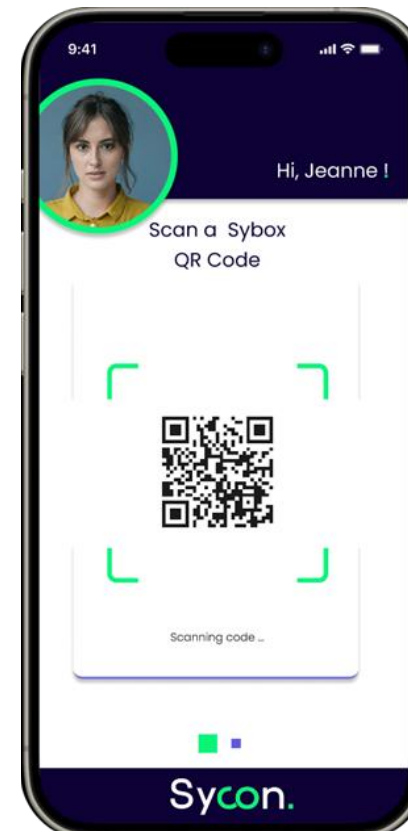
Deployment

1



Place the device on the equipment you want to monitor.

2



Activate the device by scanning its QR code and linking it to your user account on our website.

3



Access monitoring information through our web interface or integrate it into your tools using our API.

30
min

Deployment
Plug & Play

5G
Private

Deployment of a private 5G network, without infrastructure

Key features

Internal Sensors :

- Environmental
 - Temperature, atmospheric pressure, humidity, air quality, CO2, light
- Mechanical
 - Vibrations
- Geolocation
 - Horizontal (accuracy: 30m)
 - Vertical (accuracy: 1m)

External Sensors :

- Electrical Consumption
 - Wireless
 - Range
 - < 35A, < 180A, < 500A
 - 220V, 380V, ...

Power Supply :

- USB-C (5V)

Connectivity :

- Between devices
 - DECT-NR+ (private 5G without dedicated infrastructure at 1.9GHz)
- To the cloud
 - LTE-M / 5G / NB-IoT

Installation

- Magnetic - Screwed - Glued

Dimensions

- 90x65x26 mm

Cybersecurity

- Encryption
- VPN
- Access controls
- Choice of trusted cloud provider
- Secure boot
- No physical gateway (no SPOF)

A **simple** and **secure** solution at every level



■ They work with us



“ Why is this project crucial?

Optimizing production: The sensors measure temperature, humidity, CO2, and vibrations to detect anomalies and understand the root causes of defects.

Sustainability: This data will help improve not only performance but also the environmental conditions of our processes, reducing our carbon footprint.

Precision & performance: By installing these sensors across various machines, we aim to enhance resource management and minimize downtime. ”



 sycon.fr

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 01 89 54 39 94

 5 rue Noël Pons, 92000 Nanterre

Sycon.