



**AMPERON**  
Technologies

Simplifying manufacturing excellence

# The Challenge

Factory teams lack **quick**, **affordable** and **reliable** **real-time & predictive insights** into Operations needed to prevent issues and improve overall performance. Result : up to **50% profit loss** and **30% excessive carbon emissions**.

[McKinsey,2025]



# The Barriers



expensive machine connectivity  
using machine automation (PLC) and  
costly sensors



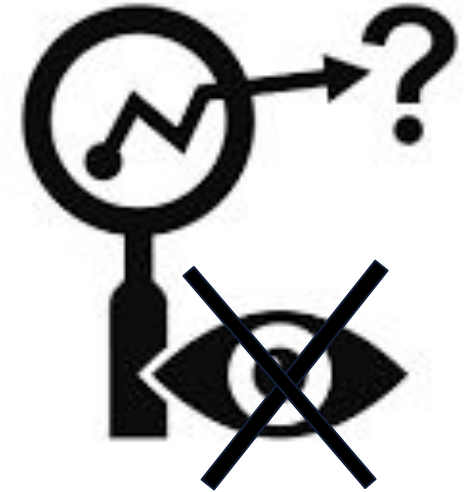
Lengthy & unreliable AI training with  
manual data



complex & lengthy integration



Inability to connect with legacy  
machines

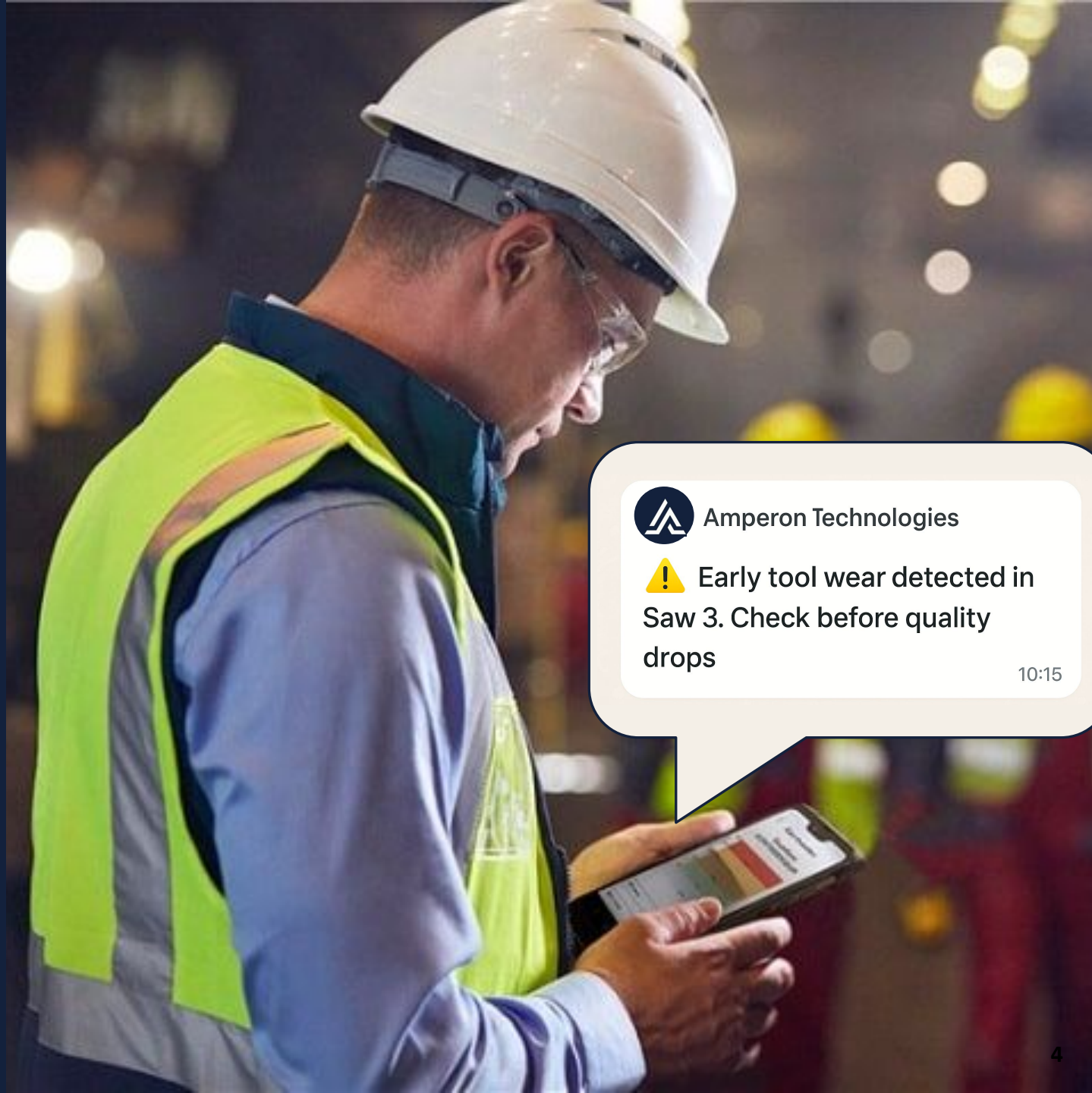


Zero insights =  
Zero improvements

# The Solution

Plug & Play

**AI-powered FactoryOps Platform** that turns **machine electricity** into **real-time & predictive insights** for **any machine** in **just one week** – at a **fraction of the cost** of traditional solutions.



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Early tool wear detected in Saw 3. Check before quality drops

10:15

# Market Size



1 Annual revenue per customer is \$ 11400 ( avg \$950 / month).

2 our beachhead strategy targets SMEs in the Plastic and Metal works segments which are subject to high competition and new carbon taxes.

3 50-60% of manufacturing equipment in some mature industries and developed regions is at least 20 years old (UNIDO, 2024).

4 Market share due maturity: 10%.

# How it works

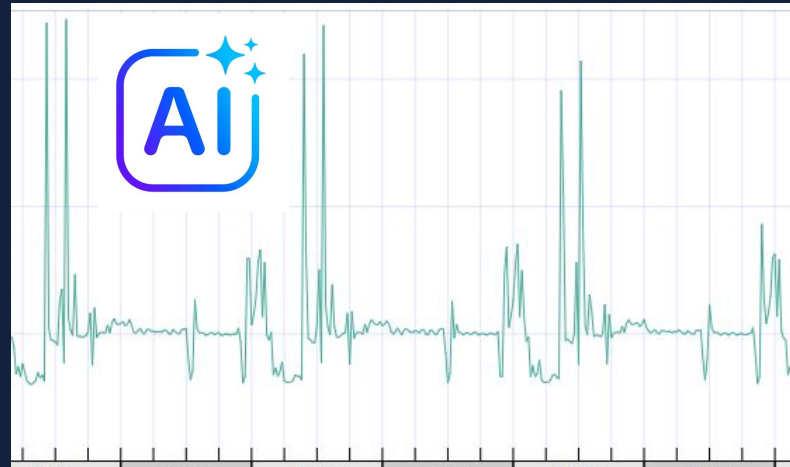
## 3 simple steps to reach sustainable peak performance

### Clip



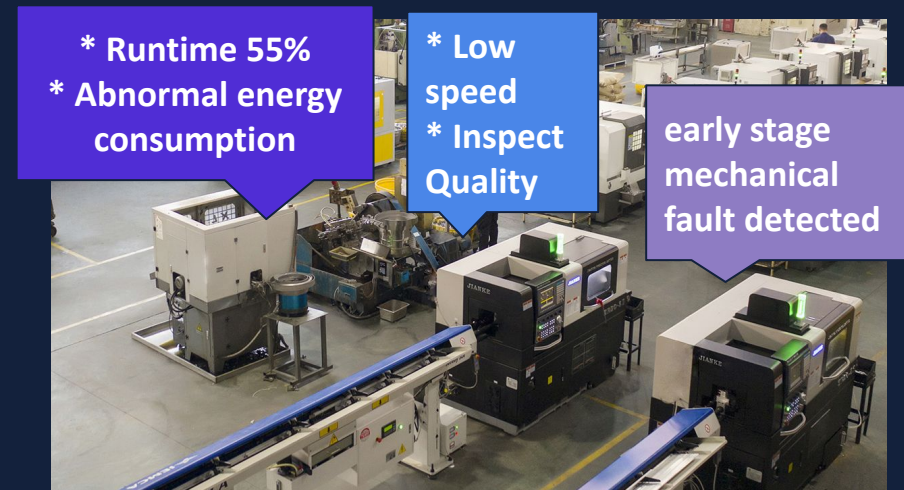
**Clip Current sensor on any machine in few seconds**

### Connect



**AI processes electricity and learns patterns in few days**

### Control

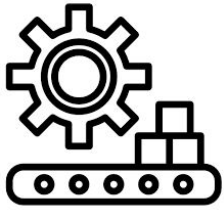


- \* Runtime 55%
- \* Abnormal energy consumption

- \* Low speed
- \* Inspect Quality

early stage mechanical fault detected

**Get RT visibility and predictive alerts from Week 1 and enjoy full production control**



# Production Performance Visibility



# Production/Product Anomaly

**Amperon Technologies**

**⚠️ Early tool wear detected in Saw 3. Check before quality drops**

10:15



# Predictive Maintenance

Report: Machine: Compresseur 1 - Moto-Blower|Status: **OK**

**Supply**

- Frequency: 50 Hz
- Voltage Unbalance: +/- 10%

**Motor**

- Power: 5.5 kW
- Nominal Speed: 1480 rpm
- NDE Bearing: 6639ZZ
- DE Bearing: 6638Z
- Rotor Bar: 38
- Stator Slot: 42

**Transmission**

- Pulley D: 200 mm
- Pulley d: 100 mm
- Belt: V groove 478

**Load**

- Fan: 8 propellers

**Current Status**

Supply	voltage	<b>OK</b>
Motor	bearing	<b>OK</b>

**Events Log**

- Date: 28/11/2024 | Details: Periodic Maintenance
- Date: 27/11/2024 | Details: Water leak into the motor

**Recommendations**



# Product Carbon Footprint

+ NEW    UPLOAD CSV    Refresh

	Production Qty.	Target Qty	Waste Qty.	Target Waste	OEE	More KPIs	Actions
1:00	350	370	5	5	73%	⌵	📄 🗑️
	Quality <b>98.6%</b> Gold: 0.0%		OEE <b>73.2%</b> Target: 85.0% - Gold: 81.0%		CO2 (Energy Intensity) <b>0.48 kWh/Pieces</b> Target: 0.46 - Gold: 0.47		
1:00	350	300	5	4	71%	⌵	📄 🗑️

# Business Model

Hardware-Enabled SaaS

## € Revenue Model

Feature based Subscription

**starting from €139 per machine/month**

- Plug & Play Hardware, easy scale and amortized into subscription
- Real-time AI-powered analytics & insights
- Continuous updates & customer success

Contract: 12–24 months minimum



## Customer Journey (ROI < 3mo)

Week 1

### Pilot (6 months)

3-5 machines \* €1K MRR

Month 6

### Facility Rollout

10–20 machines \* €2K MRR

Year 1+

### Enterprise Scale

Multi-facility \* €50K ARR

## Unit Economics

Gross Margins

**63%**

CAC Payback


**<1 mo**

## ⚡ POC-Ready for Corporates and SMEs

- ✓ Deploy pilot in 1 week – no production downtime
- ✓ 95% pilot conversion to full rollout
- ✓ Same model scales from 10 to 10,000 machines

# Competition

We provide **Real Time insights & Predictive Alerts** using just **one sensor type** and **without manual** training of AI

Competitors	year	Country	Sensors	Predictive Alerts
<b>Amperon Technolgies</b>	<b>2025</b>	<b>Tunisia</b>	<b>One</b>	<b>Automatic</b>
	2018	USA	Multiple	Manual
	2015	USA	Multiple	Manual
	2019	USA	One	No
	2020	Mexico	Multiple	No
	2010	Estonia	Multiple	No

# Founders



**Mohamed Ali Hmida**  
**CEO & CPO**

- +12 years in manufacturing
- PhD in electrical engineering
- Expert in Predictive Maintenance and Electrical signal processing

**Mariem Mnasri**  
**Sales & Buss. Dev**

- +3 years in saas Sales for factories
- Engineer instrumentation & industrial maintenance



**Amir Maaoui**  
**CTO**

- +8 years in software engineering, data processing and machine learning
- Experience working with international teams on cloud-based applications and real-time data analytics

# Traction

We have an **MVP** product and **several paying customers** in **Aeronautical and Automotive** industries



(Poland)

(France)

(Germany)

# Traction

Endorsed by **Manufacturing Organizations**: A Proven Fit for manufacturers needs in **international markets**



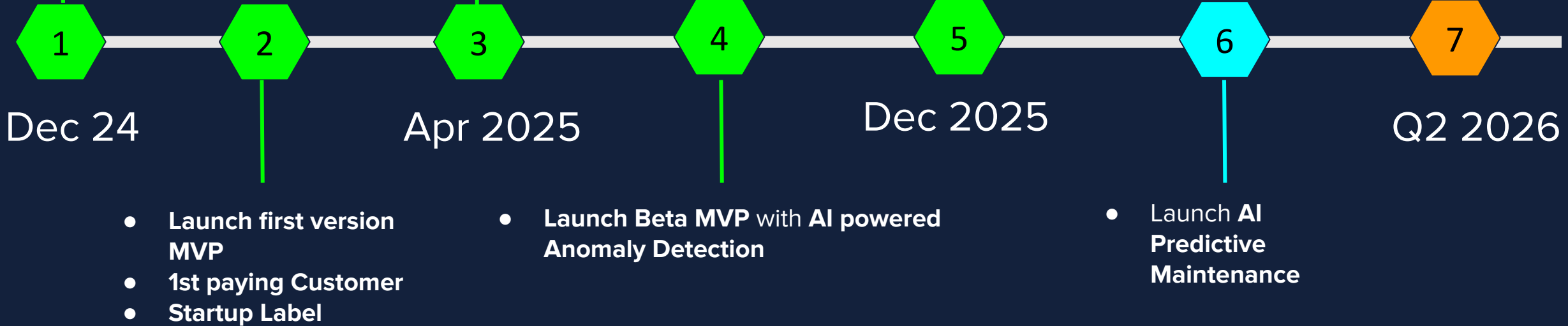
(KSA)



# Milestones

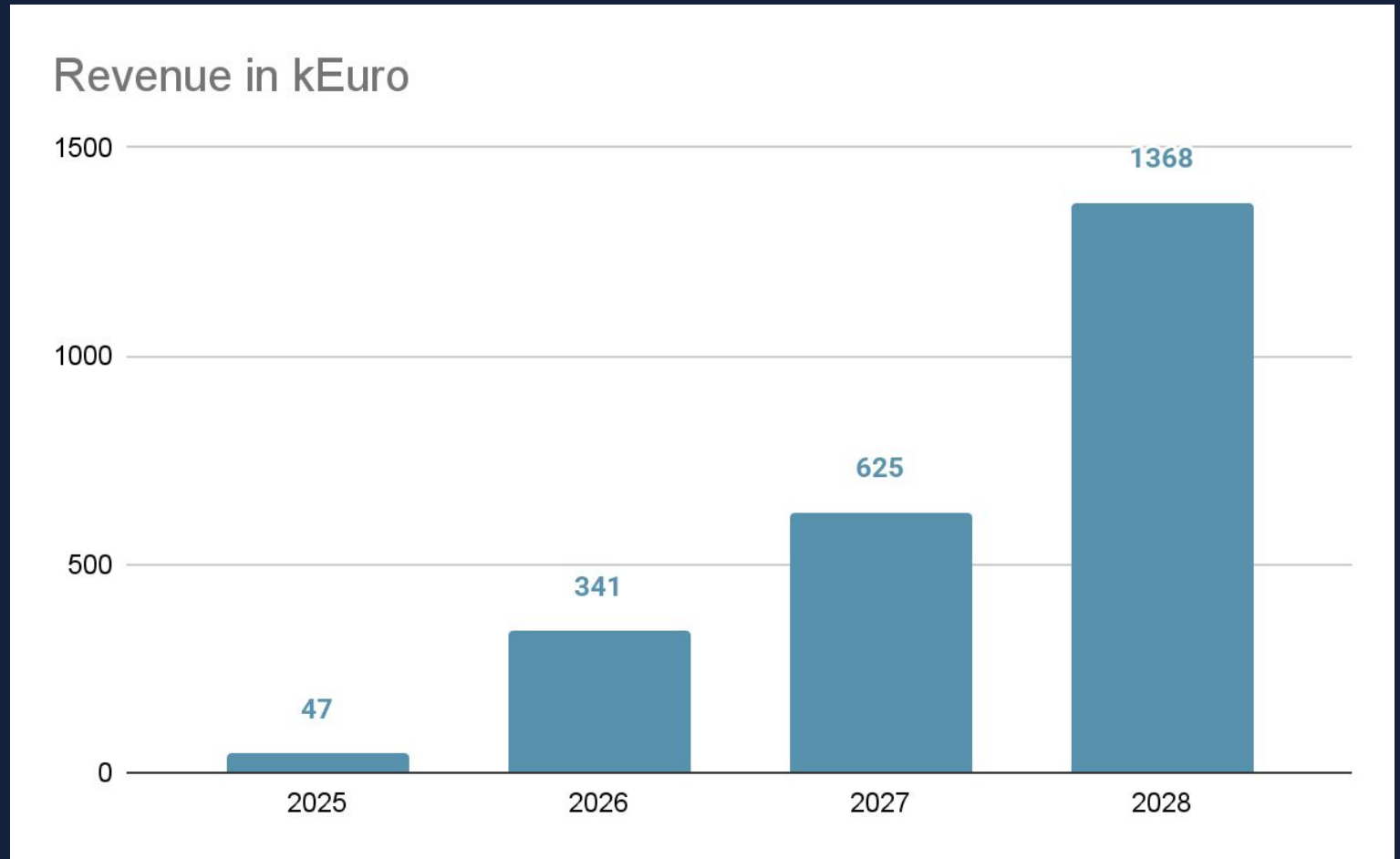


## Startup Launch



# Financial projection

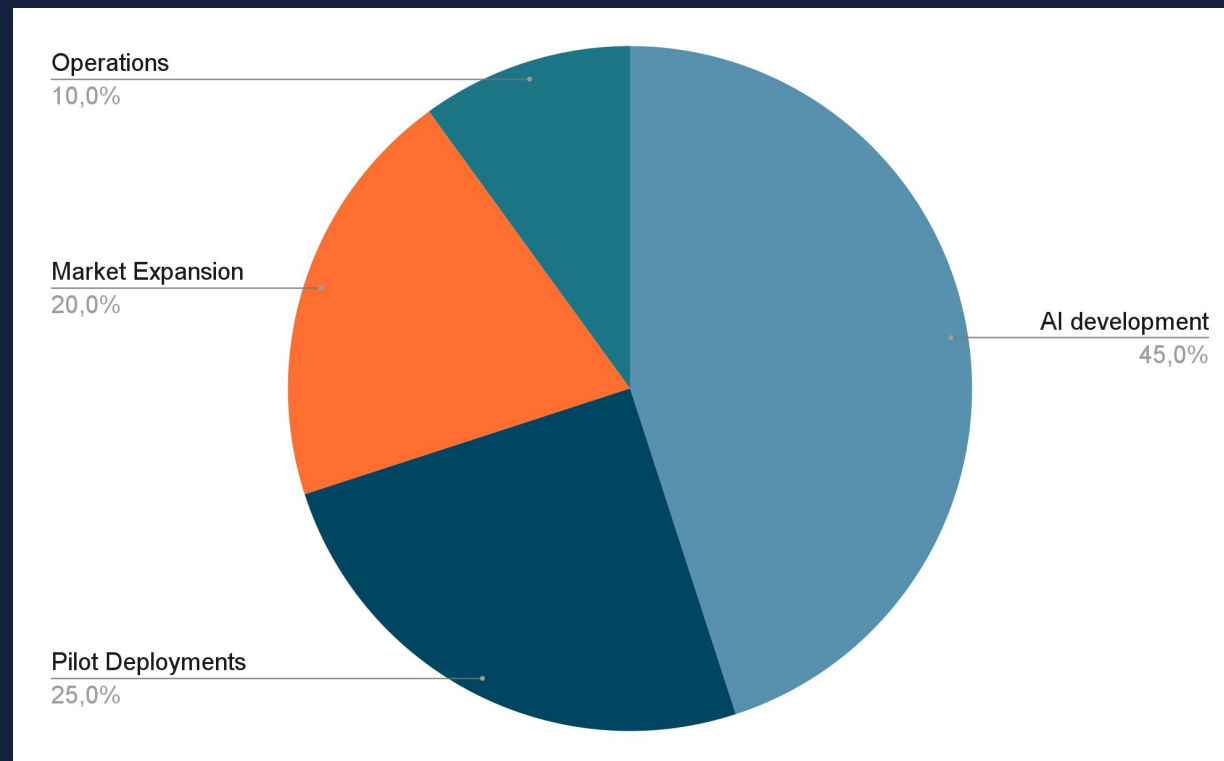
- Pilot (6mo) : 5 machines, 1000 € /month
- Rollout ( 12 mo or 24 mo ): 10 machines, 2000 € /month
- 3% annual churn rate
- Y-to-Y growth: from 80% to 140%



Year	2025	2026	2027	2028
Customer Number	10	18	40	96

# Investment opportunity

We have already secured **65k\$** in **Pre-Seed funding** with a **German Investor** to build our **MVP** with **AI based Anomaly Detection**.  
We are now raising a **Seed round of 1 M€** from **Q2 2026** to **enhance our AI for Predictive Maintenance and Expand in EU factories**.



# Join us in building the future of smart and green manufacturing with Amperon Technologies



**Contact :**

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