

# We Hold Gases Accountable



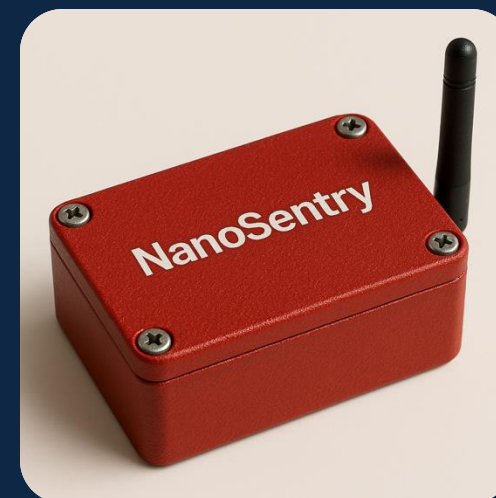
## The Challenge



Fugitive emissions of  
greenhouse gases are invisible

How do you make the  
invisible visible?

## A Tale of Two Systems or Why Are We Still Using Canaries?



Current Sensors are Expensive, Short-Lived and Non-specific



...just like the



## NanoSentry offers Real-Time IoT Monitoring with Lower TCO



Methane

Ammonia

Hydrogen

Hydrogen sulfide



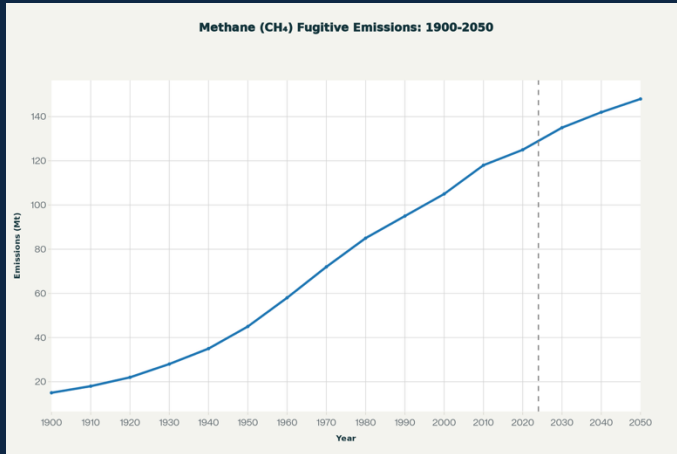
## Legacy Canary Systems vs. Next-Gen IoT Sensing



	Market Leader	NanoSentry
Primary Focus	Alarms	Monitoring, measuring, alarms.
Calibration	Regular calibration required for sensor drift	Pre-calibrated with auto-calibration
Lifespan	Months	Years (no consumables)
IoT	Not native. Must be connected to external modules	Native IoT with LoRa Wan, WIFI, SIM or wired
Reading Frequency	Reports every 15 minutes, multi minute response time	Every few seconds with instant readings.
Gas Selectivity	Non-selective	Extremely selective
Power consumption	High - must be plugged in	Low - can be battery powered
Sensitivity	0-100 ppm	Single digit PPM
Software	Logbook generation, calibration reports, firmware updates, external module connectivity	Web-based dashboard with real-time readings, alerts, leakage heatmaps, AI predictions, reporting.
Total Cost of Ownership	€€€€€€€	€€

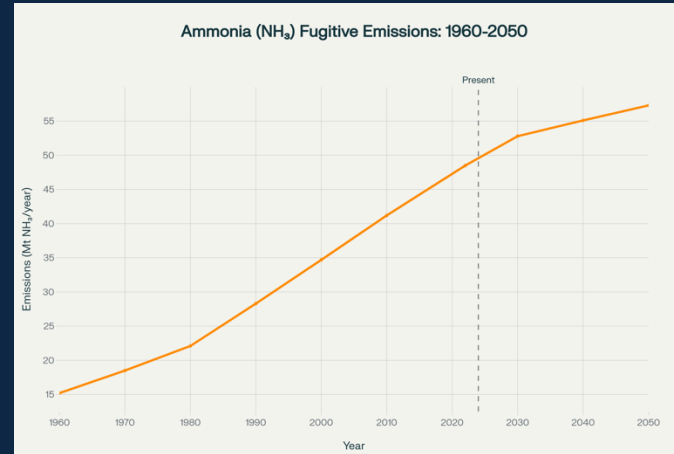
## Fugitive Emissions to 2050: The Sky is the Limit

### Methane



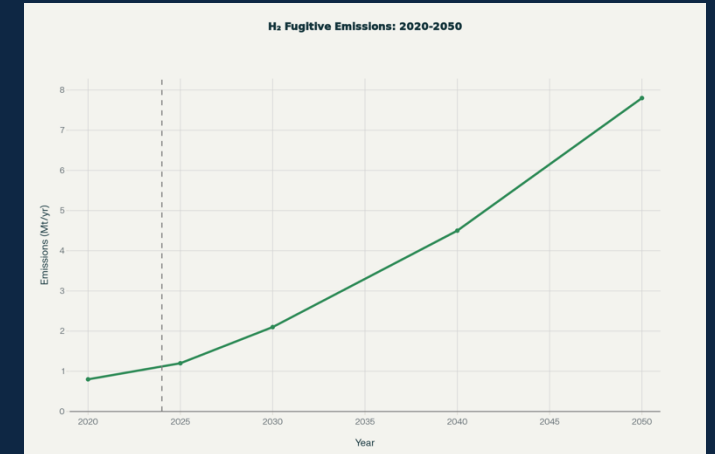
- Emissions doubled since 1970s
- Oil & gas leaks = 1.5% of global GHG

### Ammonia



- Emissions doubled since 1970s
- Toxic gas from agriculture & energy

### Hydrogen



- Not tracked until 2020
- Set to surge as methane replacement

EU Methane Regulation (EU) 2024/1787 establishes mandatory Leak Detection and Repair Surveys Quarterly

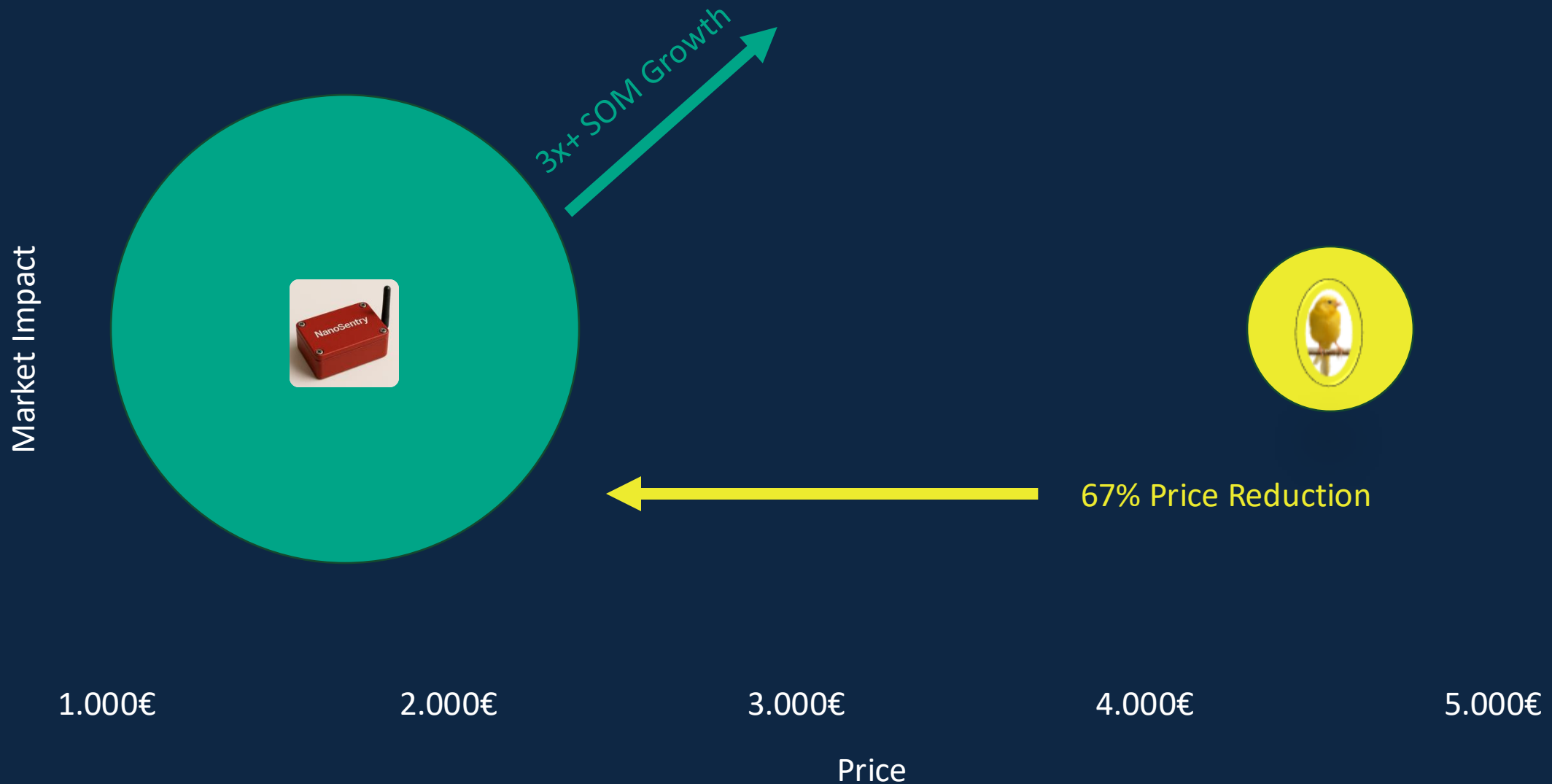
## Concentration: 20% of the Emitters Hold 80% of the Market

Industry Segment	Spain	EU-27
Oil & Gas Upstream	2 Companies	> 60 Companies
Gas Transmission	1 operator	42 TSOs
Ammonia Production	3 plants	42 plants
H <sub>2</sub> Project Developers	~ 18	> 60
Livestock Producers	171k farms	4.1 M farms
- Pigs	~ 32k farms	~ 1.23 M farms
- Cattle	~ 89k farms	~ 2.0 M farms
- Poultry	~ 77k farms	~ 2.67 M farms

- Repsol, the largest oil & gas upstream company in Spain is an investor
- We are working with 3 EU TSOs jointly planning over 6.000 km of H<sub>2</sub> pipelines
- We have Spain's second largest pork producer as a client.
- There are approx. 160.000 industrial barns in Catalunya, Aragon and Castilla y León.

We have developed deep industry relationships with key players in a concentrated emissions market.

We Dramatically Grow the SOM by Reducing the Cost



# We Bring Data to the Dashboard



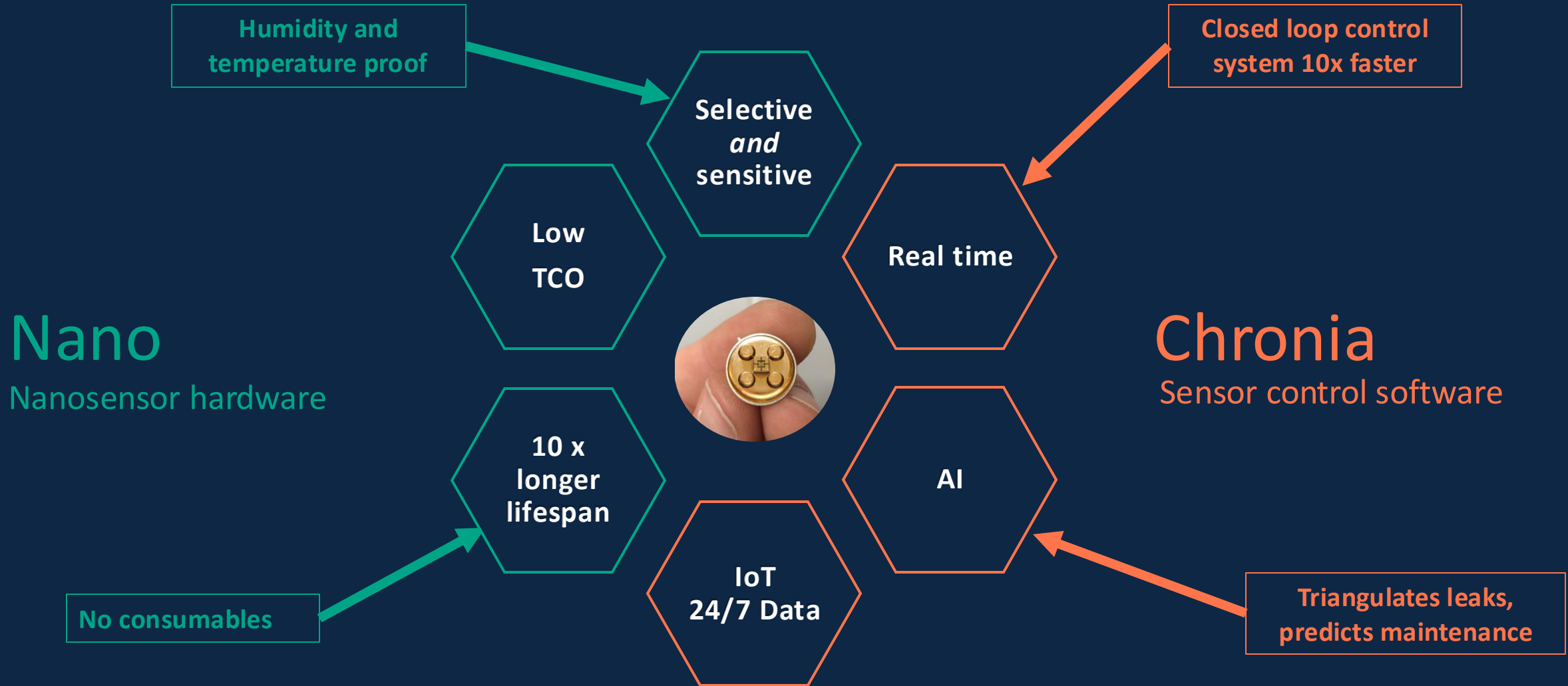
Dashboard 3

dashboards.nanochronia.com

Individual Nodes Values | Realtime - last 1 minute | Edit mode

Device ID	Temperature	Humidity	CO <sub>2</sub>	Ammonia Sensor-A	Ammonia Sensor-B
END-DEVICE-FSS4 (0.4, 0.8) Battery: unavailable	27 °C	41 %	581 ppm	19941 Ω	25639 Ω
END-DEVICE-FSS5 (0.3, 0.4) Battery: unavailable	28 °C	47 %	942 ppm	8383 Ω	26767 Ω

Hardware + Software + Intelligence = Market Leadership

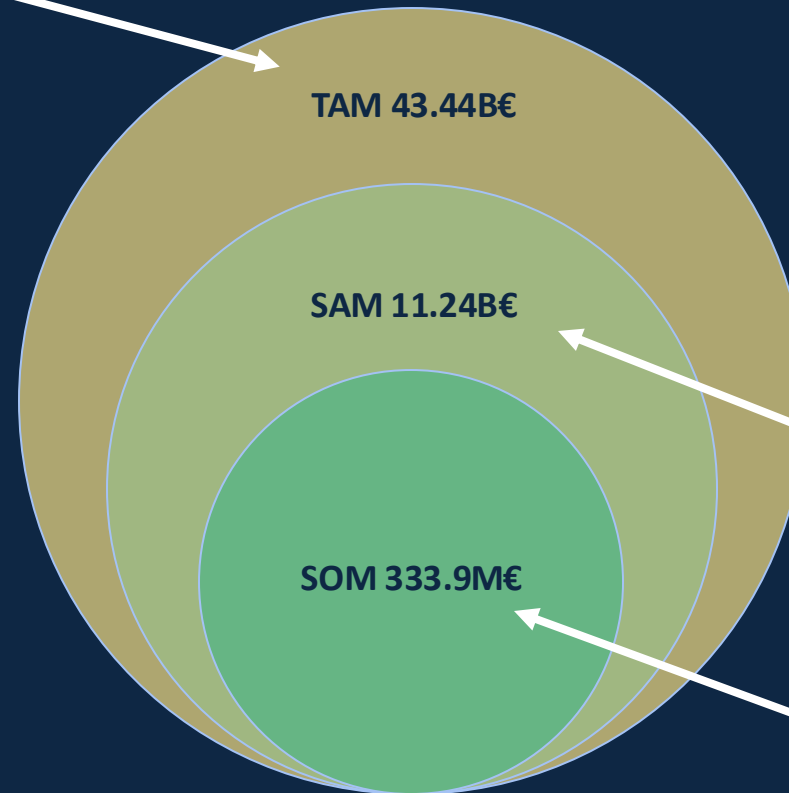


Incumbents Are Slow and Expensive. We're Built for Real-Time



## Capturing Just 3% of the Addressable Market Yields >300M ARR

Total market demand  
for fugitive emissions  
sensors



Market demand for  
MOS sensors of H<sub>2</sub>,  
CH<sub>4</sub>, NH<sub>3</sub> and H<sub>2</sub>S

NanoChronia's  
potential market  
share

EU Fugitive Emissions  
regulations driving demand  
for gas sensors



## Strategic Support Across the Ecosystem

Over 20 year's R&D from:



Has obtained over 1.5 million € in non-dilutive financing from



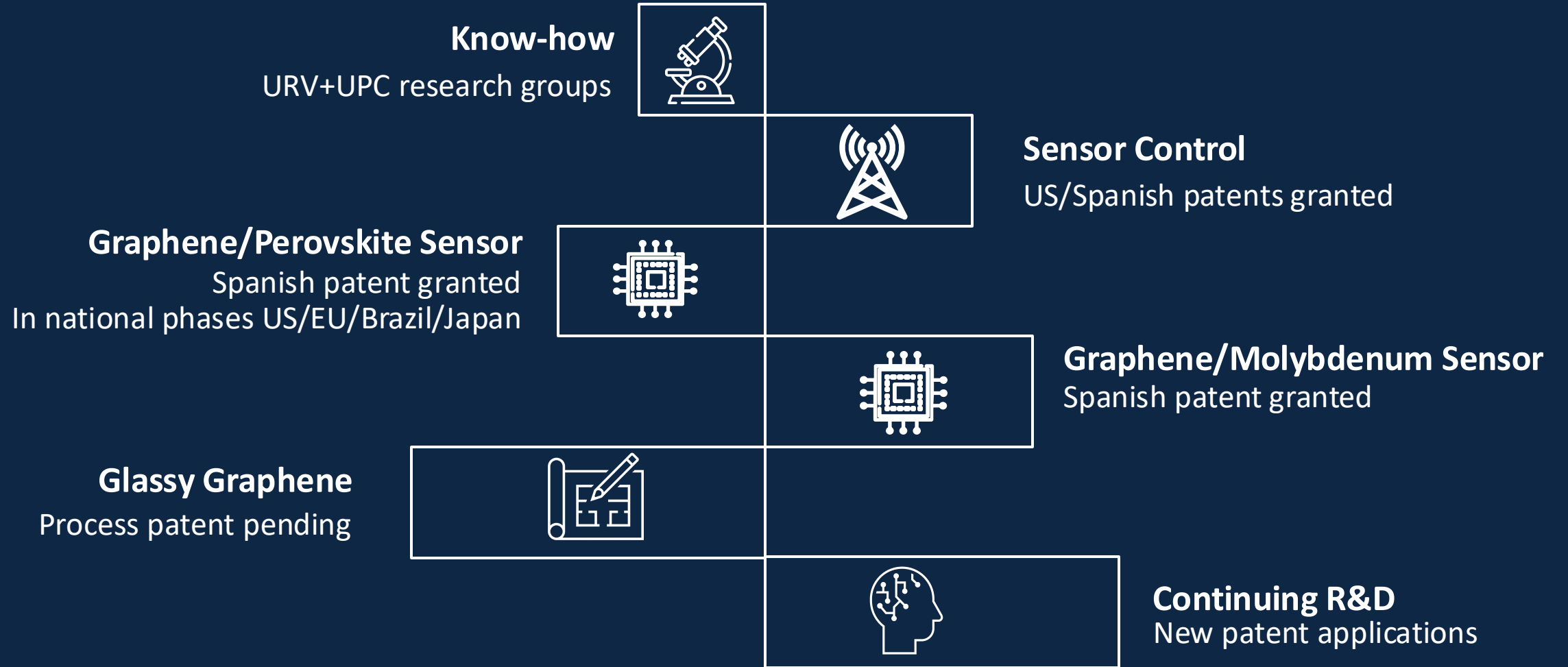
Certified as a Startup by ENISA



With the backing of



**We Have Three Patents Granted, One Pending**



## Bridging Business Expertise with Scientific Innovation



**Tomer Alon, Co-founder CEO**

Serial entrepreneur, both in alternative energy and medical device industries. MBA Derby



**Paul Brown, Co-founder COO, CFO**

A lawyer by training and an entrepreneur by vocation. MBA IESE



UNIVERSITAT  
ROVIRA i VIRGILI



**Eric Navarrete**

**Cofounder, CTO**

Chemist. Ph.D. in Technologies for Nanosystems.



**Eduard Llobet**

**Cofounder, Senior Advisor**

Telecom Engineer, PhD, Professor of Electronic Technology.



**Foad Salehnia**

**Material Scientist**

Ph.D. in Nanoscience and Technology



**Adrià Marcos**

**R&D Engineer**

Ph.D in Electronic Engineering



UNIVERSITAT POLITÈCNICA  
DE CATALUNYA  
BARCELONATECH



**Manuel Domínguez-Pumar**

**Cofounder, Senior Advisor**

Full professor at the Polytechnical University of Catalonia (UPC).



**Nil Solà**

**Telecom Engineer**

Masters in Engineering



**Mahsa Naghavi**

**Data Scientist**

Ph.D. in Analytical Chemistry

# Our Twofold Sales Strategy Doubles the Market

Repsol investment



## B2B Sales + Software Licenses

Energy Industry  
• Fugitive emissions

Heavy Industry  
• Alternative energies

Transportation  
• H<sub>2</sub>, NH<sub>3</sub>, batteries

## Sensing as a service (SaaS)

Livestock producers  
• Regulatory compliance

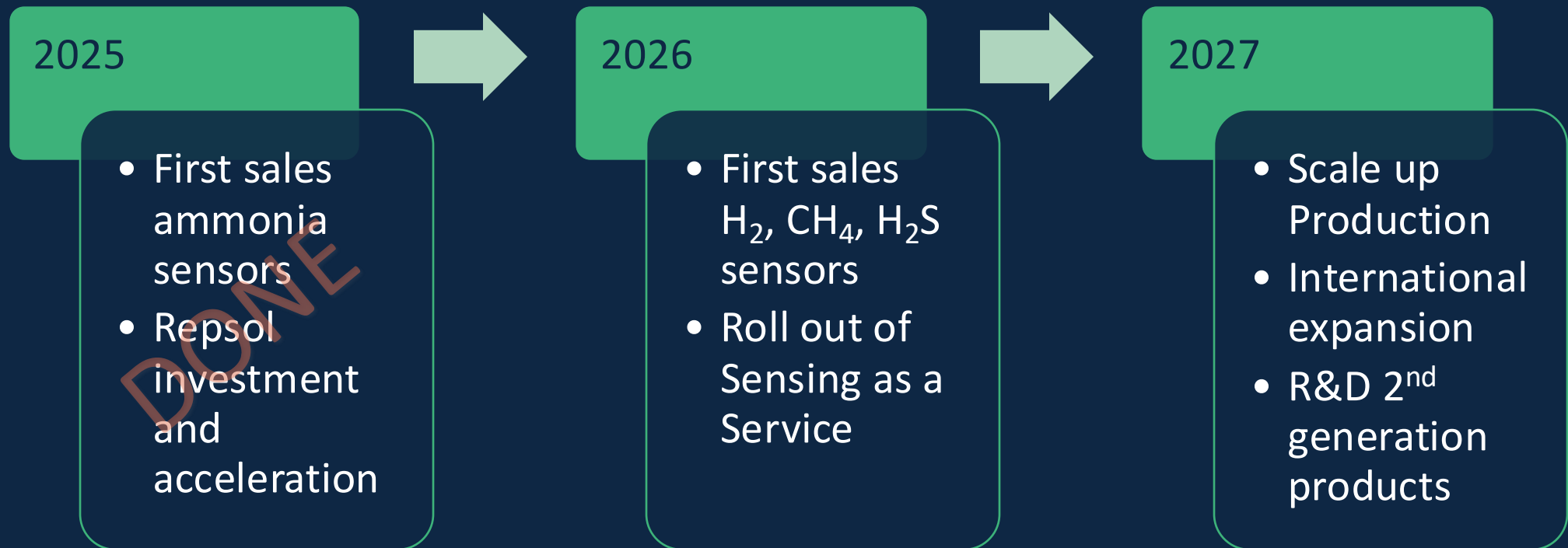
SMEs  
• Alternative energies

Homeowners  
• H<sub>2</sub> /CH<sub>4</sub> blending

One of Spain's top pork producers with 850+ farms client

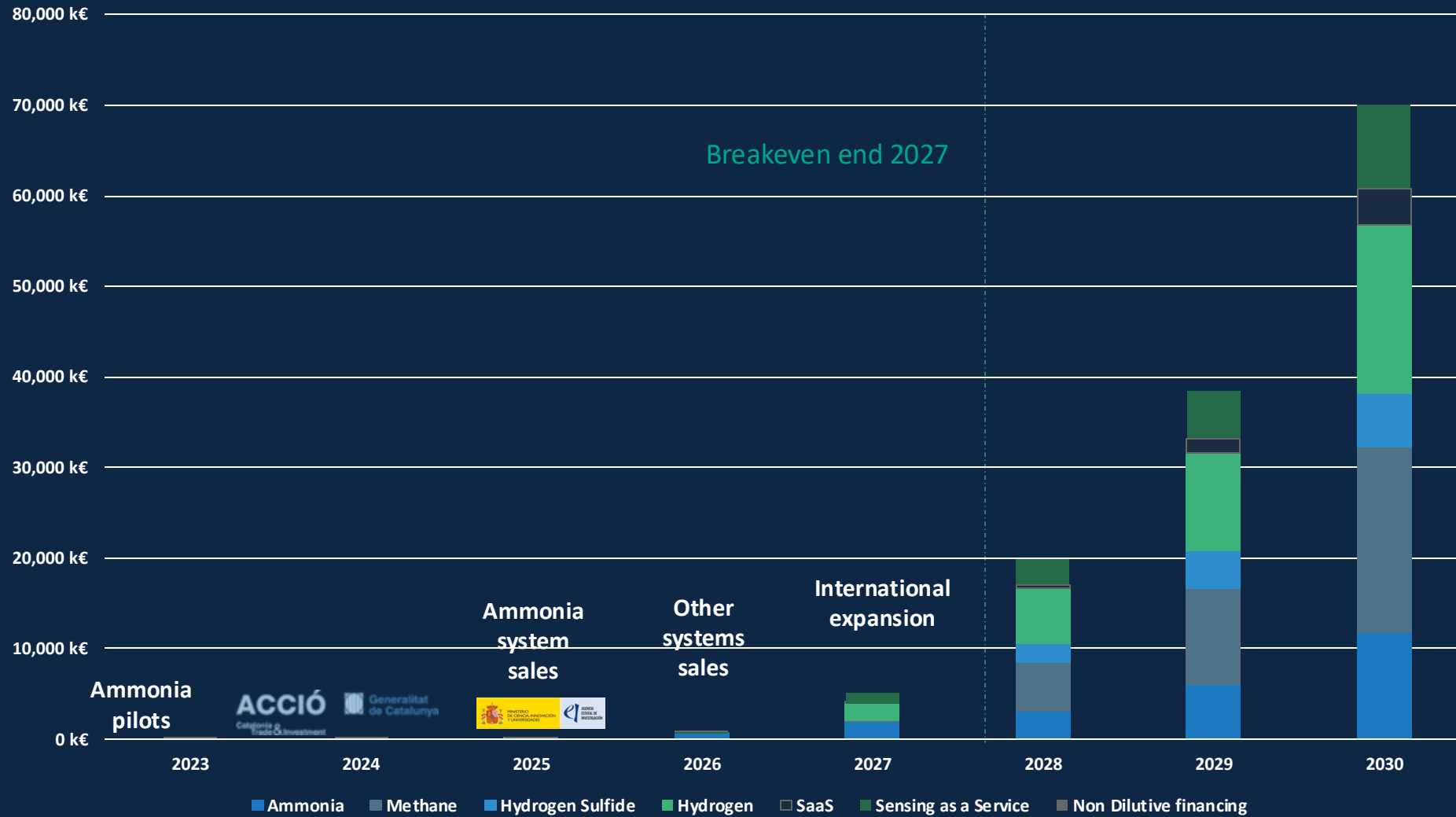


## The 1,000 Day Launch Plan is on Target



# From Zero to 70 Million in 4 Years

Revenue Breakdown



This 3.5M€ Seed Round Will Bring Us to Market in 12 Months

2024-2025

Tranche 1 2026

Tranche 2 2027

108%  
Oversubscribed

250K € to fund  
company  
through the  
NH<sub>3</sub> pilot  
process

1M € to  
complete the  
development  
phase

2.5M+ € to  
scale up the  
production +  
sales

First ammonia system  
sales

Hydrogen,  
Methane and  
Hydrogen Sulfide  
sales

International expansion

Milestones: