



Providing \$5T critical infrastructure with smart energy decisions

Number of employees: 5
CEO: David Suter
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Raising: \$4M Seed Investment (SAFE)
Traction: Tier 1 Co-Development & 3 Pilots
Investors: IIA & NetZero \$1M +
Location: Israel – Ramat Gan



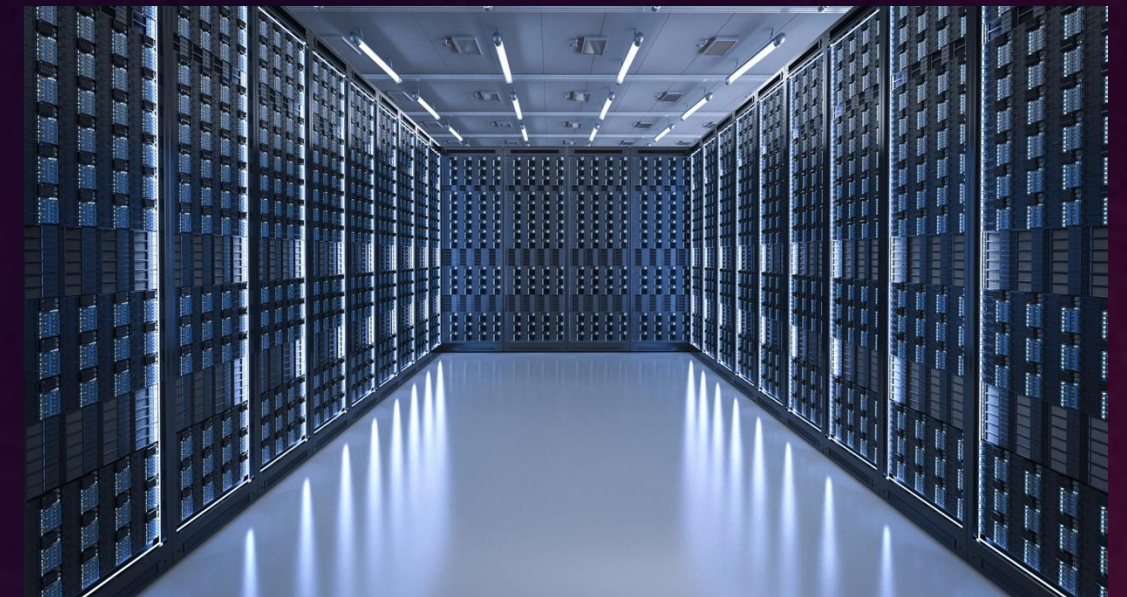
Lack of molecular-level insights



High-value assets
underutilized
in **chemical plants** and
bio reactors.



Operational faults,
misrouted energy &
regulatory exposure for
gas grids.



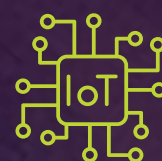
Overpower & outages,
cripple cities, power grids,
airports, hospital and
data centers.

Smallest analyzer on a chip targeting critical infrastructure



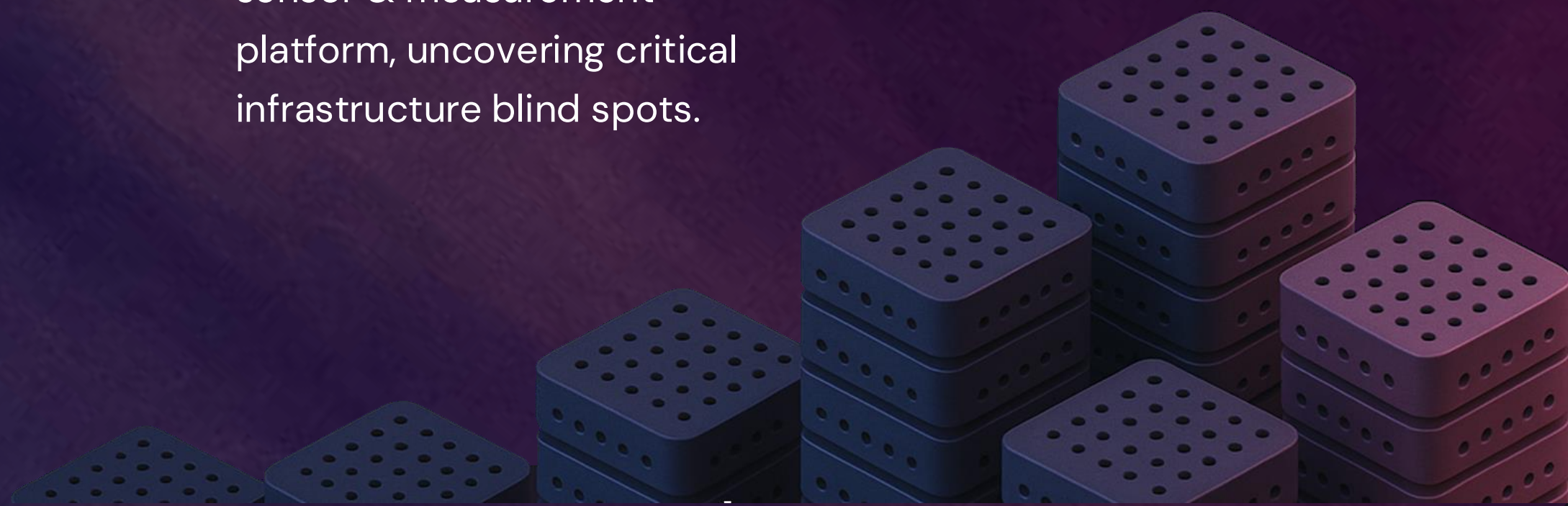
Molecule Analysis on a semi conductor chip

Reliable, fast response and highly sensitive multi-gas sensing on a chip. Secure, ATEX-compliant and scalable.



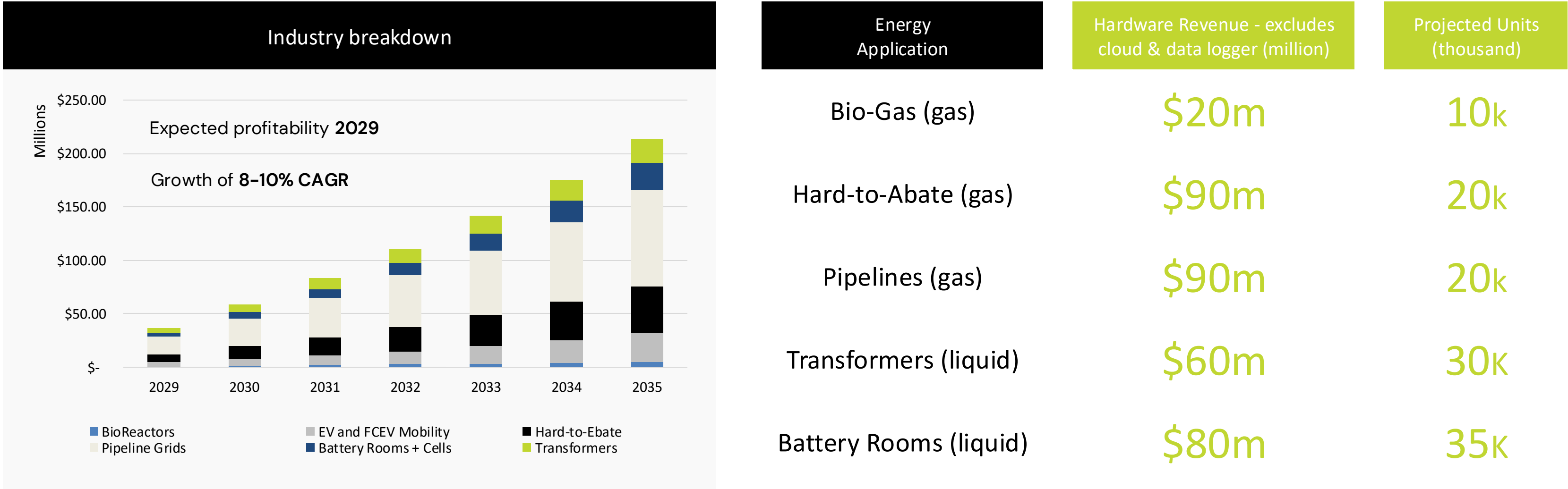
IoT Instrument array & algorithm

Micron scale plug-and-play sensor & measurement platform, uncovering critical infrastructure blind spots.



Path to \$200M+ Yearly Revenue

Revenue Growth Outlook, 2029–2035 – TAM, SAM & SOM in backup slides



3 Pilot Traction



Biogas
plant

**Increasing energy
yield by 50–60 %**

Validates commercials within real
industrial environments,
accelerating commercial readiness
and adoption.

Beta unit installed
300 units by 2030

Employees: 98,000 | \$18.46B Revenue



chemical
Refinery

**\$6M–\$7M annual
potential savings**

Advances Fast Sense core
technology and IP through cutting-
edge research collaboration,
strengthening differentiation.

Unit being prepared for
Q1 2026

Employees: 1,800 | \$7.54B Revenue



Pipeline
standards

**Slashing operational
costs by up to 22 %.**

Enables large-scale utility trials,
showcasing Fast Sense impact on
grid-level hydrogen monitoring and
safety.

Unit being prepared to be
installed by Q3 2025

Employees: 15,420 | \$12.99B Revenue

From Prototype → Product



Validated Technical readiness (TRL 6–7)

Development

Technology development

Validate & accelerate lab-scale sensor testing

Customer trials pilot

On site validation against current gold standards



Market readiness (TRL 8–9)

Deployment

Transition into commercial pilots

Located at early demonstration hydrogen sites.

Ready to operate & market

Critical infrastructure sales integrating customer workflow.

Manufacture for Multiple Deployments & Calibrate

Data Governance Protocols

Nano Particles AI Room

ICO Quality Assurance and Compliance standards

Sensor Revenue + AI Services

Primary Revenue Stream



Unit Sales

H₂, CH₄, CO₂ & VOC
molecule analyzer

\$4,500/Unit



Subscription

MRR on gateway, AI molecule
digestor & oxidation unit

\$ per month

Additional revenue



Chip License

Sell as OEM to licensed
technology & peripherals
for non-energy domains **or**
electricity/power grid
management

Features



Fast Response

Our sensors detect and analyze hydrogen in seconds, enabling instant interventions.



Scalable

Rapidly uncover hidden blind spots with minimal upfront investment and low operating costs.



No Downtime

Ultra-compact, mount seamlessly for no downtime or complex configuration.



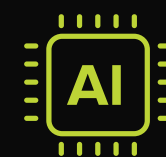
Multipixel

Hot-swap interchangeable sensor heads & upgrade components on-the-fly without rewiring.



Secure Protocol

4-20mA, HART, BLE, LTEM & RS485 comms snaps into existing local control systems.



AI Suggest

Measurements insights sent to control center ingesting safety & combustion effect.

Operators & Scientists

DAVID SUTER – CEO

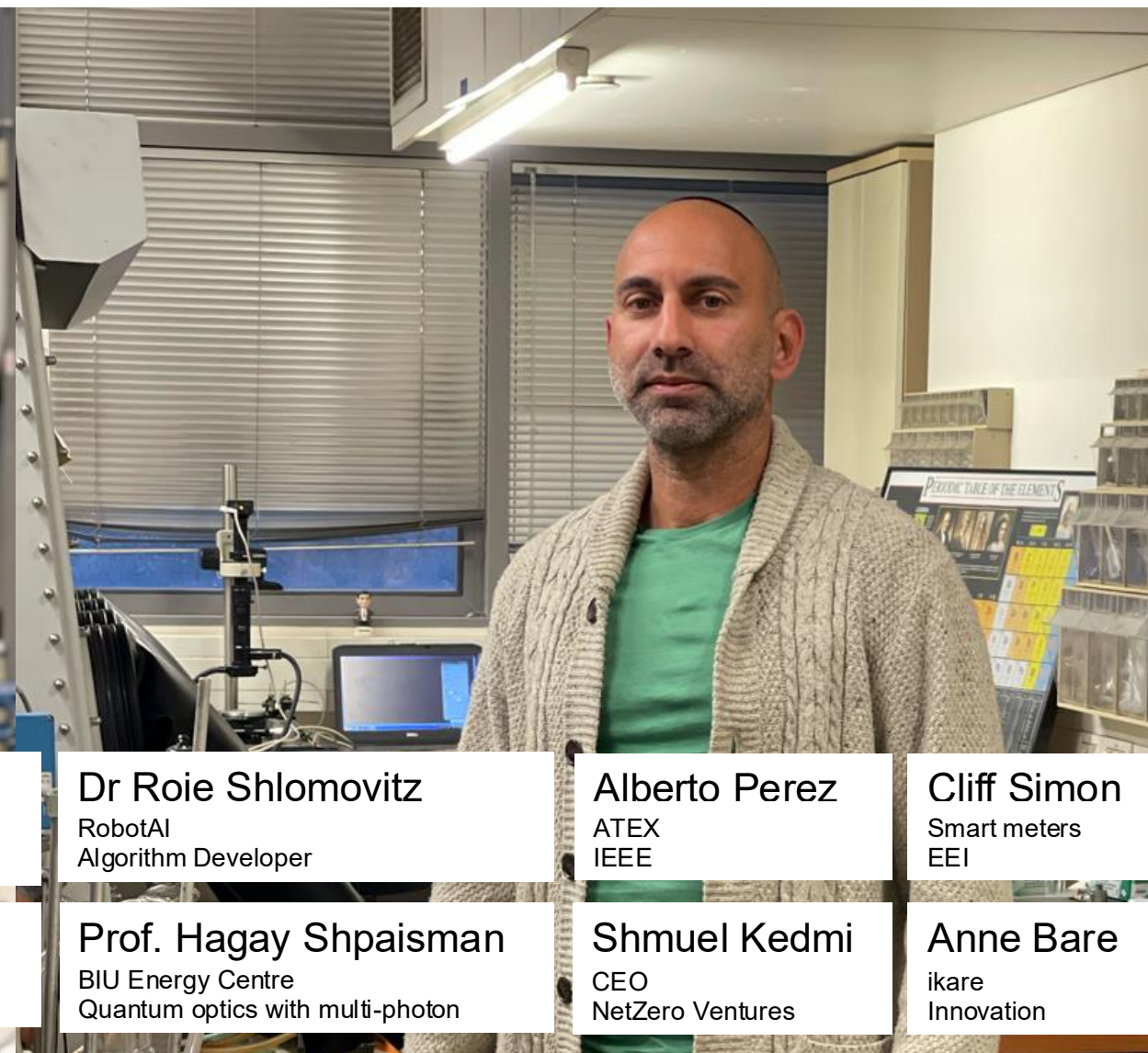
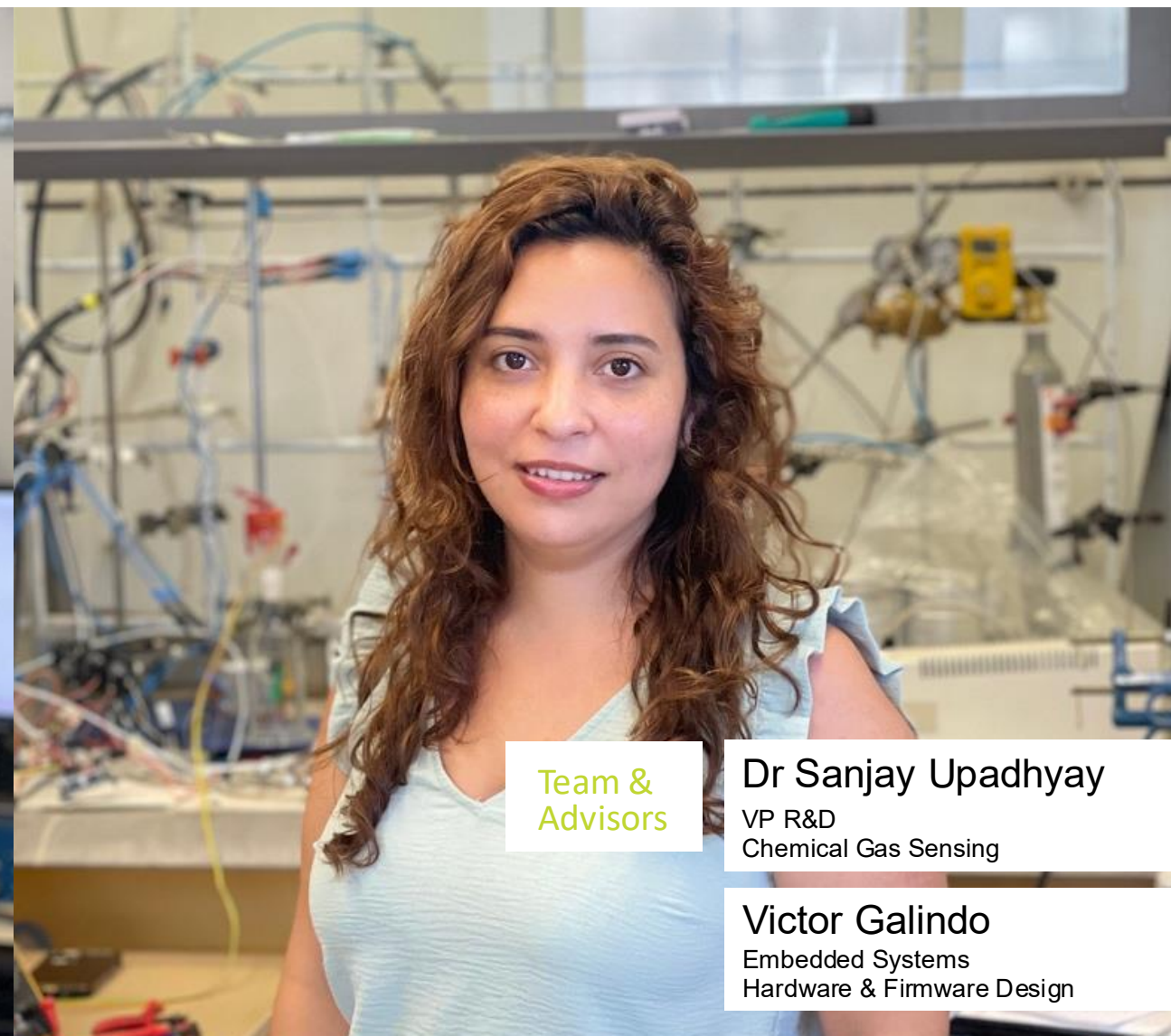
20 years innovation. Metrology advisory for European Union. Intel prize winner.

DR MELINA ZYSLER – CTO

PhD in Nano Chemistry. 26 articles in nanomaterials for energy devices.

PROF DAVID ZITOUN – CSO

25 years Energy devices. \$50M management of R&D funds. 10 Patents.



Team & Advisors

Dr Sanjay Upadhyay

VP R&D
Chemical Gas Sensing

Victor Galindo

Embedded Systems
Hardware & Firmware Design

Dr Roie Shlomovitz

RobotAI
Algorithm Developer

Prof. Hagay Shpaisman

BIU Energy Centre
Quantum optics with multi-photon

Alberto Perez

ATEX
IEEE

Shmuel Kedmi

CEO
NetZero Ventures

Cliff Simon

Smart meters
EEI

Anne Bare

ikare
Innovation

Thank You

Thank you for your attention! We look forward to collaborating.
Please reach out with any questions.

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Faster, and more sensing range

IoT-Ready

1000X

New Data Points

Low to high PPM levels of sensitivity to Hydrogen, methane, and CO₂ composition data

Gas Quantification

100X

Low Power

Integration into smart industrial systems, enabling on-device intelligence with minimal power and activation time.

Embedded

100X

More Compact

Patented Nano-structured sensor surfaces for the worlds first ultra-miniaturized gas sensors.

**TAM – 75k corporations with**

Industrial, grid operators, utilities, midstream gas **compliance safety** orgs requiring H₂, CH₄, VOC, CO₂, C1-C4 and O₂ gas sensing.

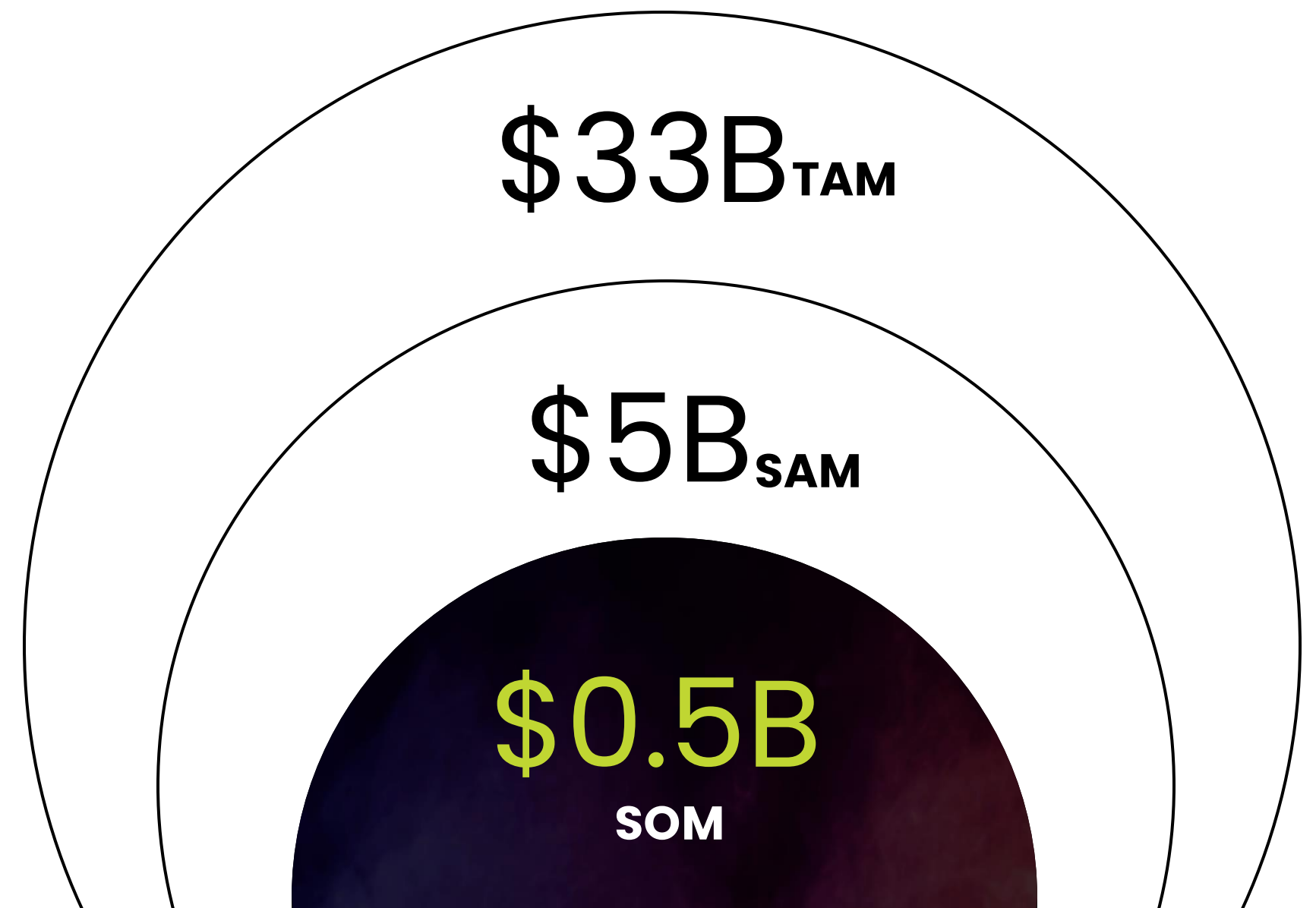
SAM – 15k corporations with

Specific H₂ & CH₄ energy & environmental gas separation verticals. Rapidly growing need for real-time sensing.

SOM – 4K corporations with

Biogas, pipelines, refineries, **transformers, battery backup power** with safety-critical, high emission, high yield or **infrastructure-heavy burden** with immediate need.

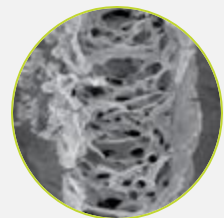
**\$200M+ in
revenue from
sensors and
services**



Instrumental Nano Particles Tech

Fast Sense Ltd.'s technology leverages nanotechnology-based sensing materials, microscale electrode arrays, and advanced signal processing

Sensing Material



Synthesized nanoparticles

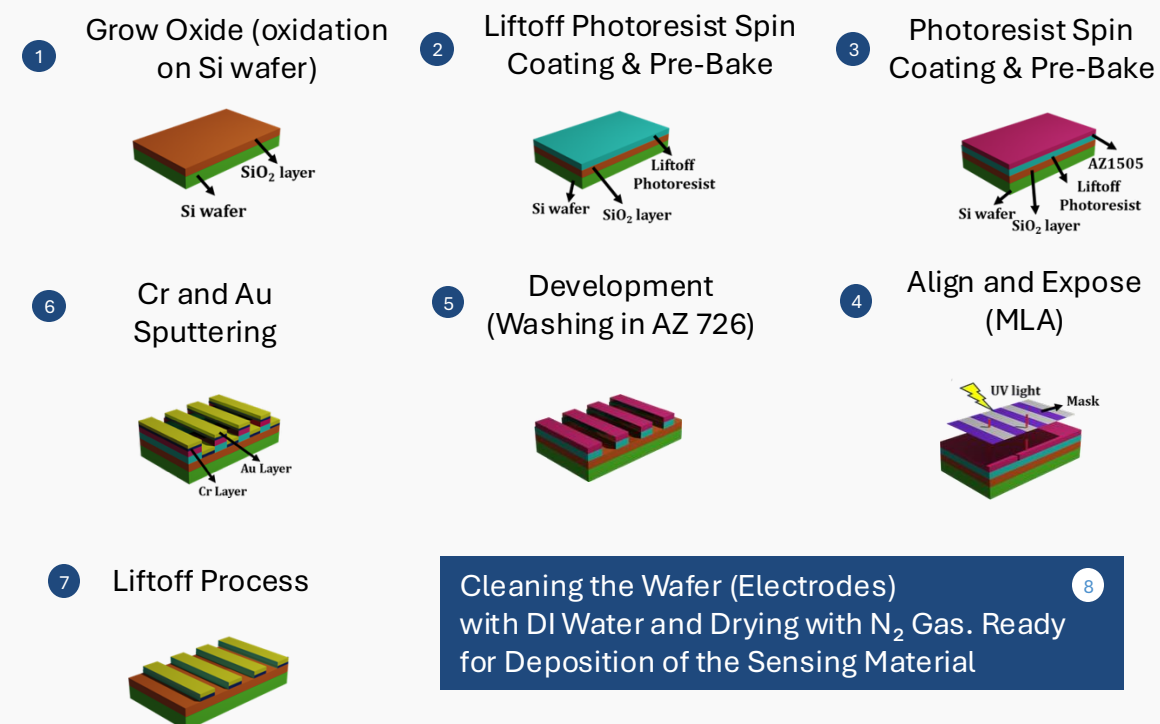
Nano-engineered materials chosen that offers **high surface area** and **tunable selectivity** to specific gases e.g. H₂

6 ± 1 nm Mixture of semiconductor and + metallic NPs

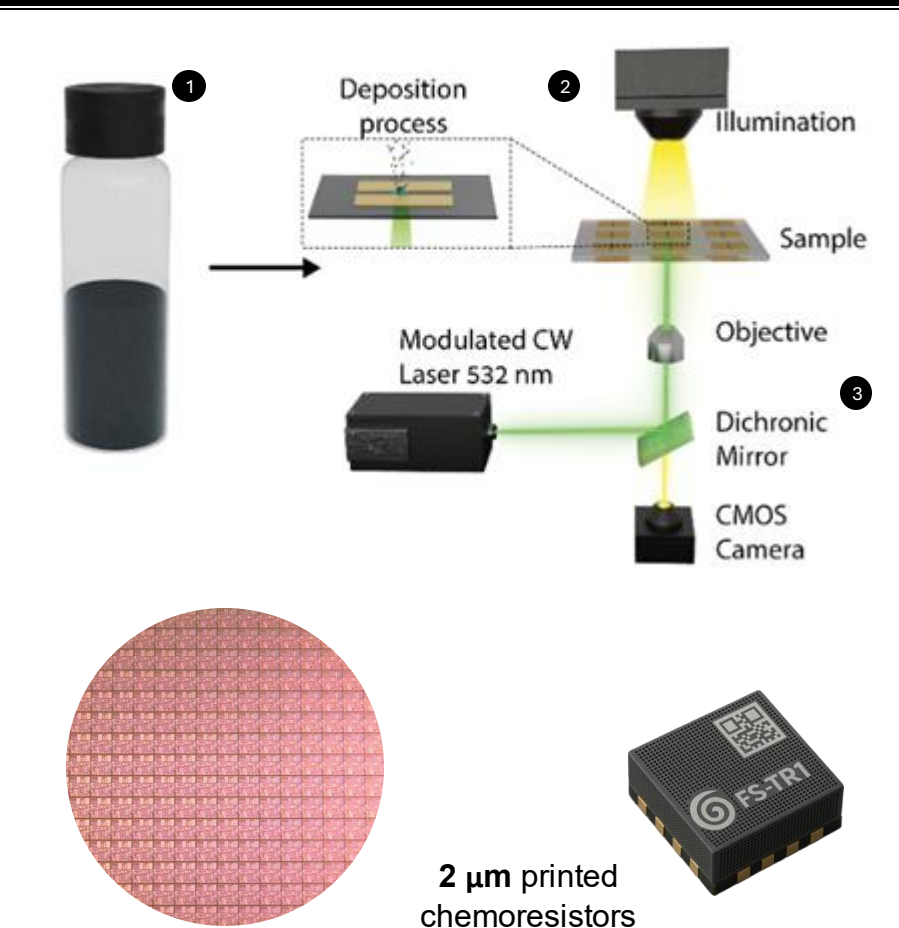
+

Core chip (Pure-play MEMS Foundry)

Fast Sense leverages advanced MEMS lithography and metallization to produce high-performance, scalable sensor chips through a trusted foundry, ensuring precision, reliability, and readiness for functional sensing material integration.



LIMBT (AI Digital Fabrication)





Validated by Tier 1



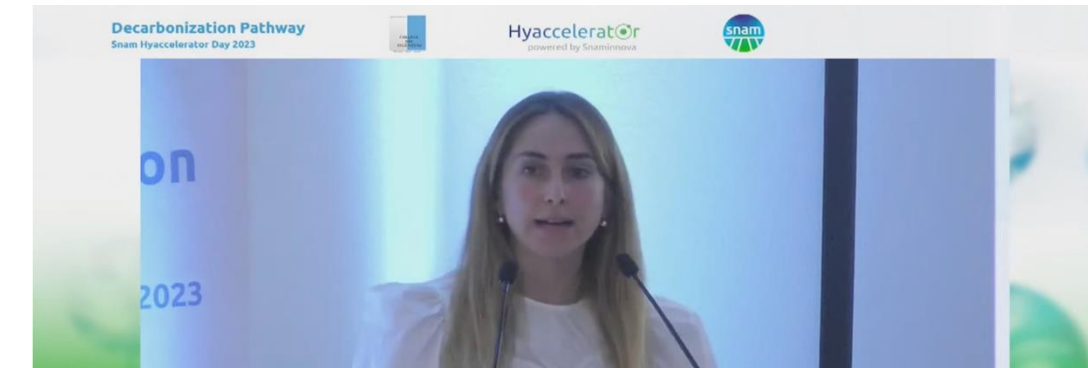
Market Insights

Bulky analyzers (\$50K+) or low-performance single-gas detectors.
Cannot scale across energy infrastructure. Delays in safety, billing & optimization



Co Dev Agreement

Commercials signed with top 3 O&G company in Europe, a refinery SOW obtained and Tier 1 leading Pipeline certification body partnership.



Awards & Partners

Awards including prize money from Nova (LG), Free Electron (E-ON), Hyaccelerator (SNAM) and Sustainable Energy Venture (Pietro Fiorentini).



Prototype to Deployment

Fast Sense plans from moving from prototype to deployment through a strong go-to-market network, leveraging strategic partnerships, distribution partners, and tier-one customers to accelerate market adoption.

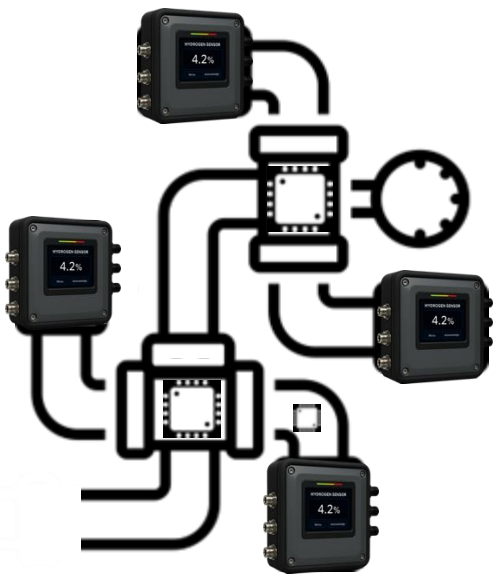
Strategic Partnerships



Distribution Partners

Tier One Customers

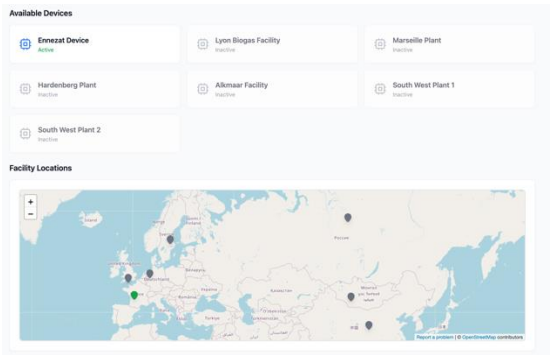
Gas Concentration 0.1% - 99.9%
Accurate to 3-5% within range
Resolution of 0.1% repeatability
Response time 4 sec



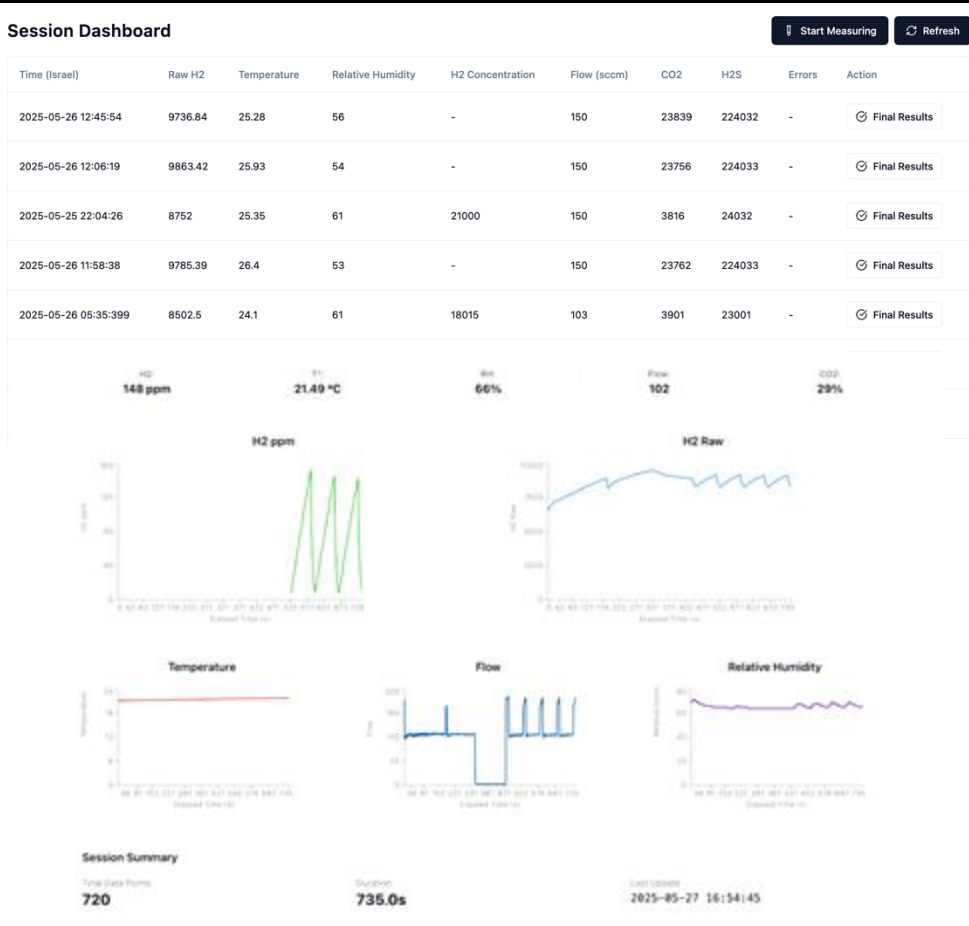
Real-time, Reliable, Accurate and Miniature Embeddable Sensors on a Chip (End nodes)



Management Cluster Gateway (LoRaWan/5G)



Cloud-based Optimized Data Collection (API Endpoints)



Dashboard of Clustered End Node Sensors (ModBus or HART)