

Disclaimer

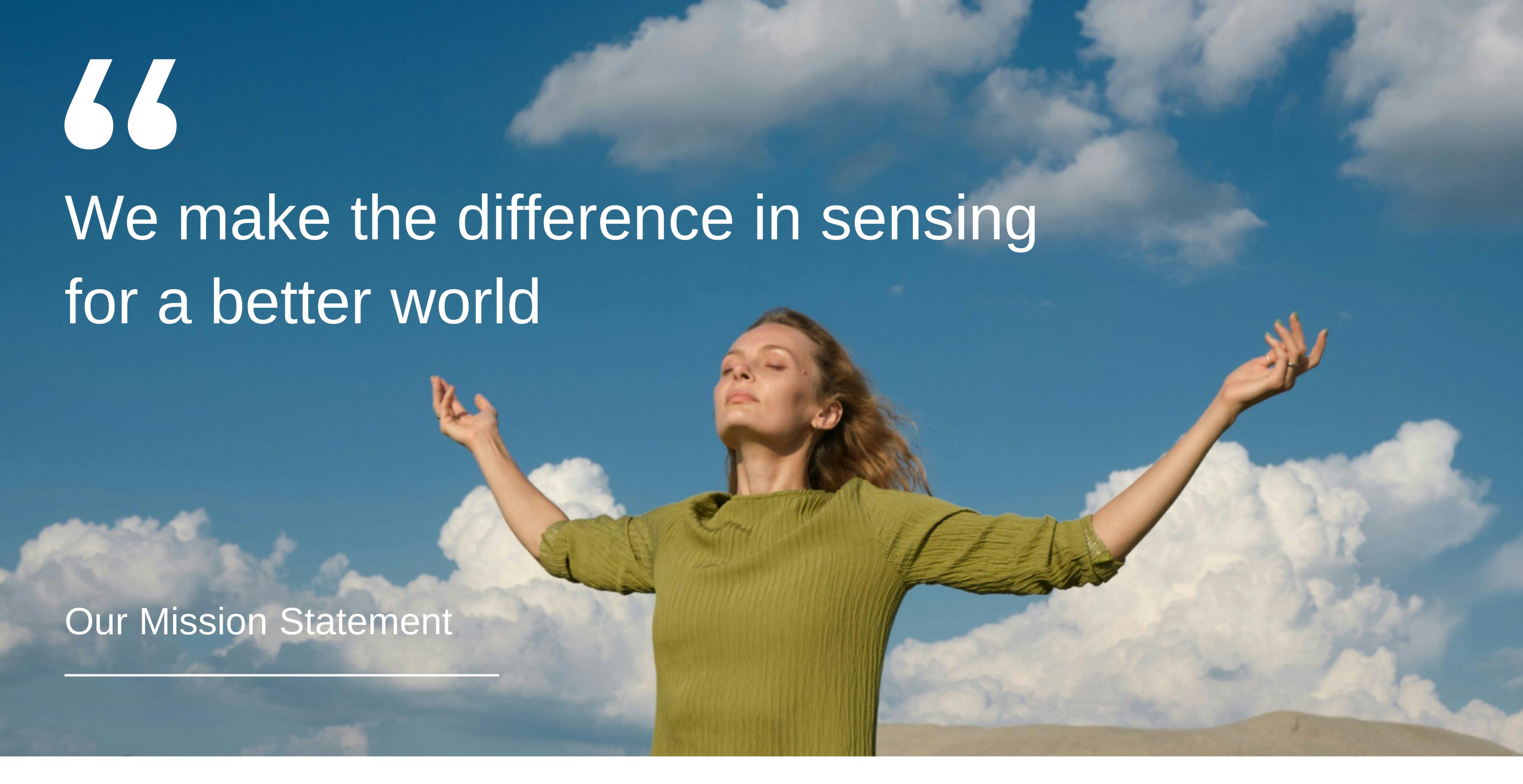
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Sensirion at a glance



A pure-play sensor company, driven by mega trends for long-term growth



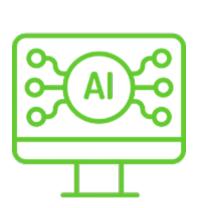
Leading position in **environmental & flow sensors** as well as entering the **leak detection** market



A deeply anchored **mindset of innovation**: it's in our DNA to continuously seek new challenges and to drive disruptive innovation



Highly diversified in end markets; long-standing customer relationship with top players in all fields



SensiSpirit: our dedicated and award-winning entrepreneurial culture to attract and retain best talents



- ~200 million sensors produced per year
- ~1.5 billion sensors sold worldwide

Sensirion's favorable position



Environmental sensing solutions



Flow sensing solutions



Leak detection



1998



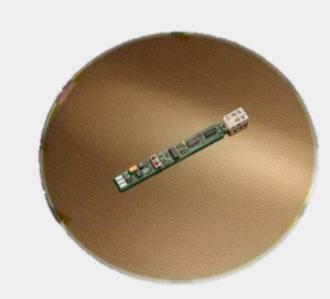
1 humidity sensor (~11 cm)

CMOSer



1 humidity sensor (< 1mm)

CMOSens®



up to 75'000 sensors per wafer

PIONEER

miniatiirizatior



Sensirion supports you through the day

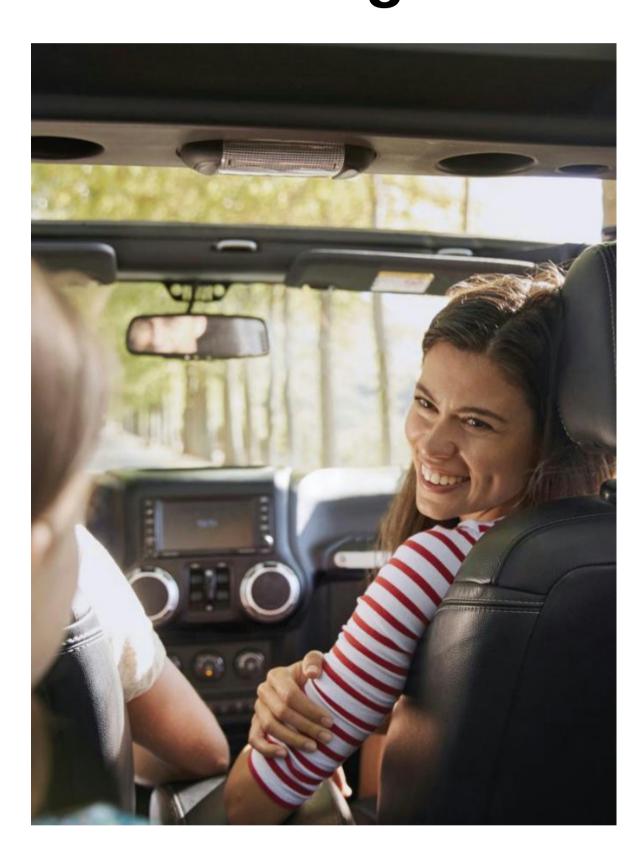
Breakfast at home



Energy optimization in the refrigerator



Commuting

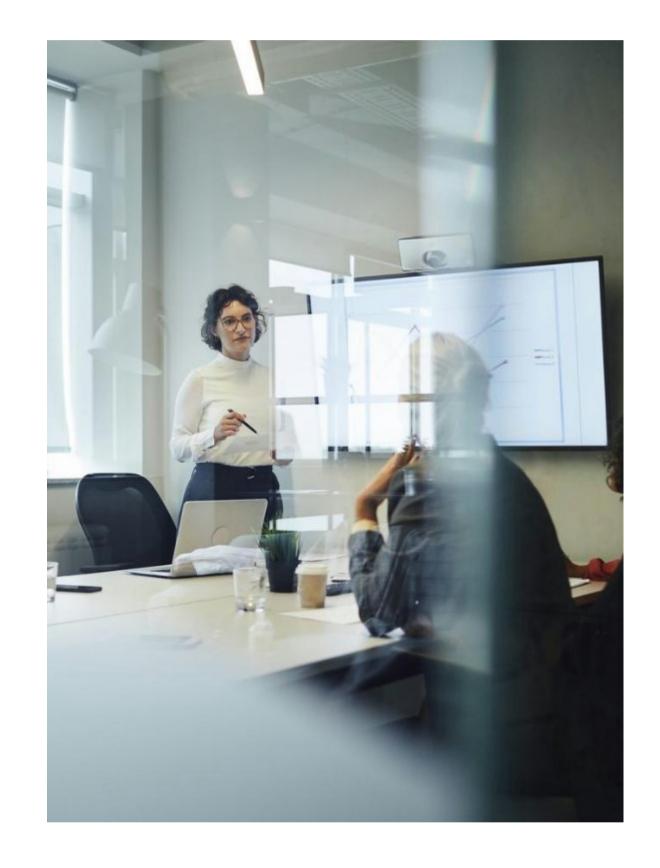


Car cabin air monitoring & car emission optimization





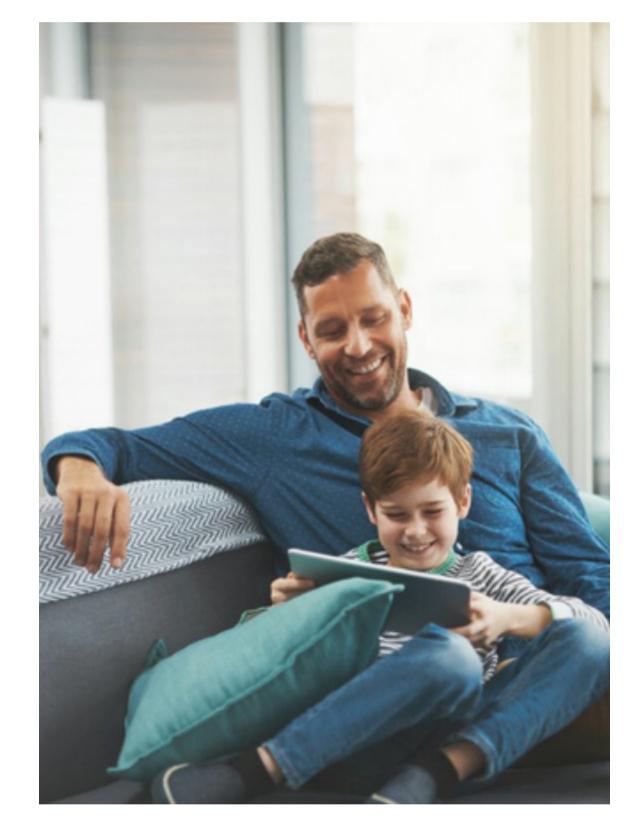
Work



Optimized ventilation & Indoor Air Quality (CO₂)



Family time

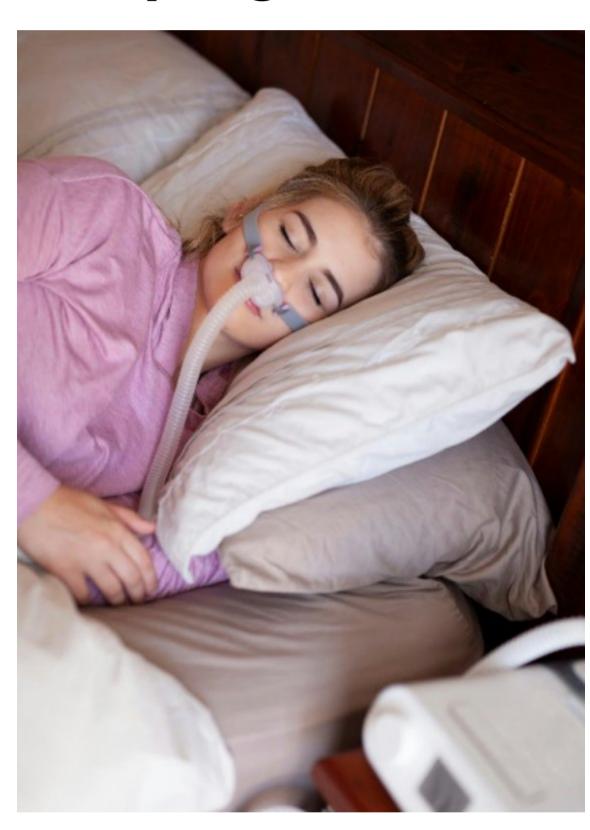


Air Purifier Heating system





Sleeping



CPAP-devices for sleep apnoe patients





Wide range of solutions across diverse end markets

		Innovation		Automotive	Medical	Industry	Consumer
		% of FY 2023 revenue		31%	19%	43%	7%
	Environmental sensing solutions	Humidity / temperature					
		Gas (VOC, Formaldehyde)					
		Carbone dioxide (CO ₂)					
		Particulate matter					
		Gas chromatography					
		Automotive Module					
الله الله الله الله الله الله الله الله	Flow sensing solutions	Differential pressure					
		Mass flow					
		Gas metering	-7 -6				
		Liquid flow					
\$\tag{\frac{1}{2}}	Leakage detection solutions	Refrigerants leakage					
		Methane leakage					
		CO ₂ leakage					
		Hydrogen leakage					



We are committed to our environmental and social responsibility

Environmental commitment and responsibility



Our innovative sensors enhance energy efficiency and help customers create eco-friendly products and decarbonize operations.



In Operations we focus our efforts on production that avoids waste, increases material efficiency, and uses natural resources thoughtfully and as sustainably as possible.



In 2021, we have kicked off an ambitious journey to decarbonize our own operations (focus first on Scope 1&2)

Social commitment and responsibility



We aim to offer our employees an inspiring and safe working environment and optimal conditions for personal and professional development.



Pillars of this commitment are equal opportunity, diversity, non-discrimination; health and safety; training and education, work-life balance, and our unique and award-winning corporate culture.



STRAFEGCUPBAFE



Strong underlying megatrends drive innovation and growth

Sensirion's sensor solutions are critical for many applications across these megatrends









Energy efficiency

- Scarcity of resources
- Governmental and societal initiatives

Environmental protection

- Decarbonization
- Electrification
- Climate change

Health and aging society

- Economic development
- Increasing health costs
- Increasing awareness around health & comfort

Safety and regulations

- Increasing awareness of safety
- Increasing regulation level

We can "make the difference" to enable these megatrends by our sensor solutions



Growth along three strategic foci

Our strategic foci



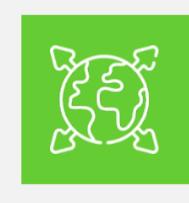
Strategic focus 3

Lay the technological foundation for long-term growth



Strategic focus 2

Go beyond our core to foster additional growth opportunities in adjacent market fields



Strategic focus 1

Drive and expand our strong market position in our core markets of environmental and flow sensing



Foundation

"SensiSpirit": unique culture of innovation and entrepreneurship



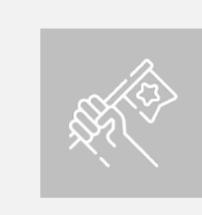
Growth along three strategic foci

Our new strategic foci



Strategic focus 3

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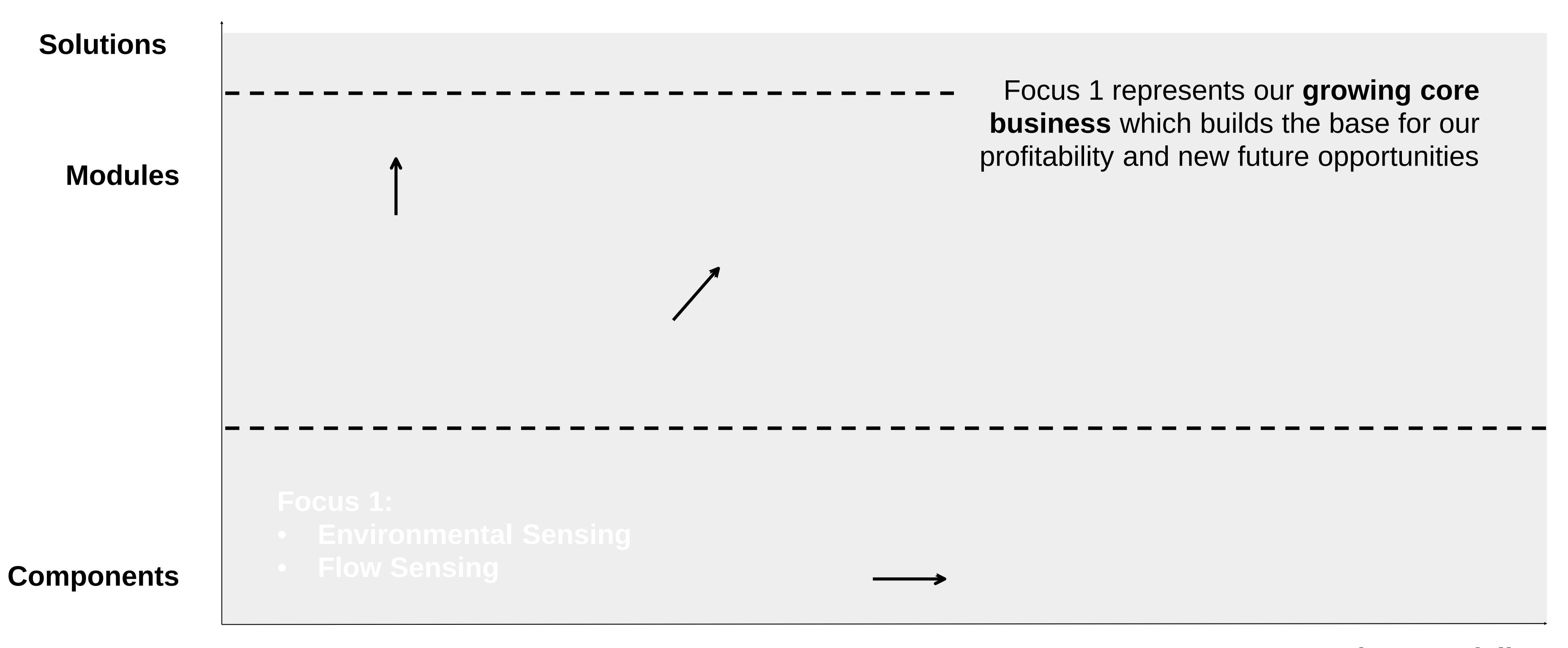


Foundation

"SensiSpirit": unique culture of innovation and entrepreneurship



Drive and expand our strong market position in our core markets



Product portfolio

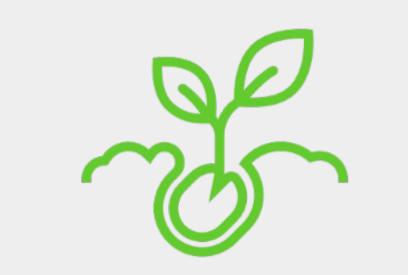
SENSIRION

Evolution of environmental sensing

Based on our humidity business we evolved Top-2 for environmental sensing

Further grow

Establish as market leader for environmental sensing and catch new opportunities



2nd Gen Miniaturized components enable new applications for further growth



Miniaturized Environmental Sensors

1st Gen.

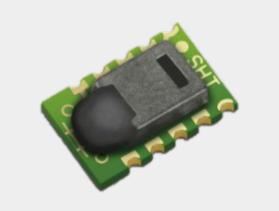
Increased customer content with new sensor modalities



Additional Environmental Sensors introduced

The beginning

Established as undisputed market leader for humidity sensors









Humidity & Temperature Sensors

1998



Today

Humidity sensing

Gaining market share in a growing market

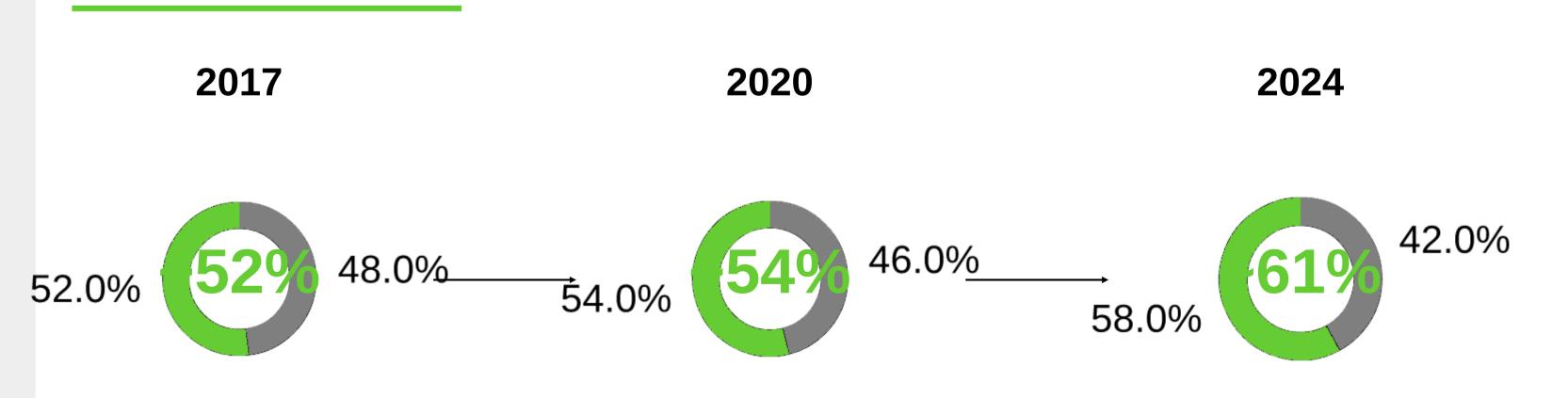


Market



- Dominating the humidity market due to long-lasting customer relationships with all major players
- Consolidating market with single digit growth
- Some competitors (e.g. ST, Denso, Alps, etc.) exiting the humidity market

Sensirion's global RHT market share

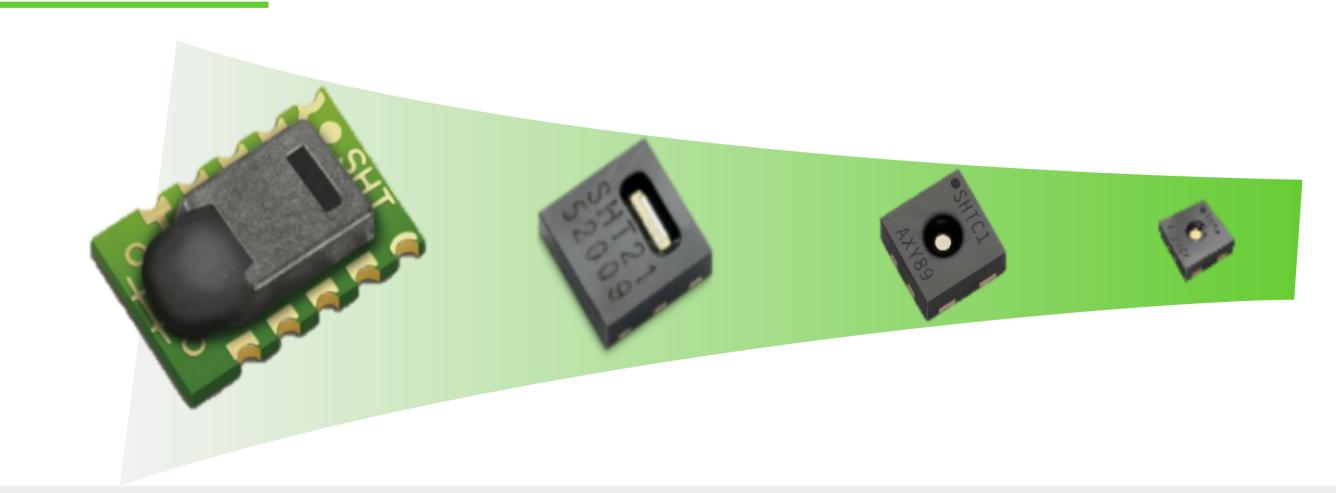




Continuous innovation with our new 4th generation

- 70% smaller sensor volume optimizes costs and raises market entry barriers
- Top performance and cost efficiency open new applications in elastic markets
- Enable premium applications with individual calibration certificates and market specialization

Evolution of 4th humidity generations



Environmental sensing

Be the one-stop-shop for environmental sensing

1st Product generation:

Develop new sensor modalities for our existing customer base



Priority

Time-to-market - "Fast market entry with innovation light".



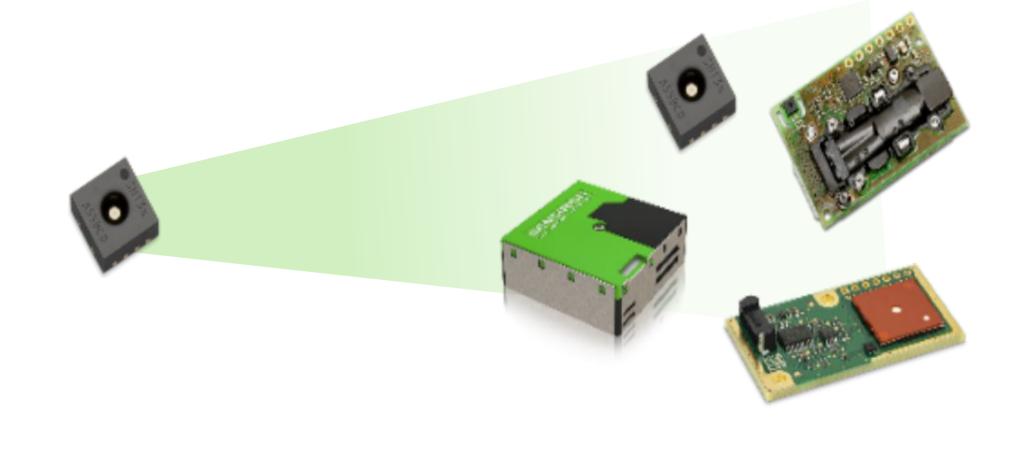
Goal

Test the market and gain market share quickly.



Approach

Use existing technology platforms to accelerate development.

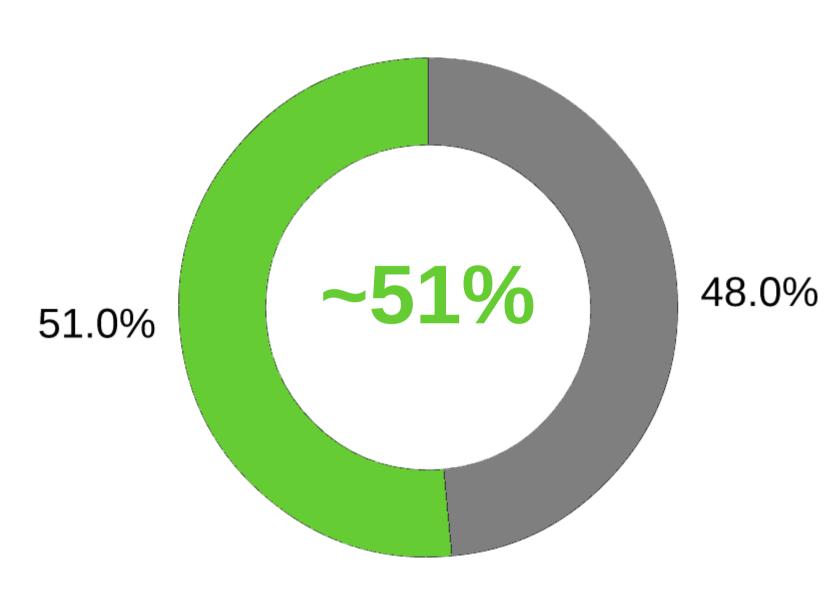


Example Application: Air Purifier

Reached market share of ~51% for "smart" Air Purifier in 4 years







Humidity



Humidity, VOC, PM2.5, Formaldehyde, CO2



Growth by miniaturization

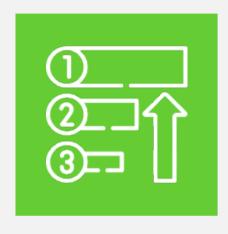
Bring Sensirion's technical competitive advantage into play

2nd Product generation:

"Miniaturization unlocks new applications and drives volumes"

1st Gen: established

2nd Gen:
Start of production
in 2025



Priority: Decreased size and improved cost-structure opens new market opportunities



Goal: Providing industry-first sensor modalities gives Sensirion the advantage of the economy of scale



Approach: Leverage high-volume component competence and market know how for dedicated miniaturization development





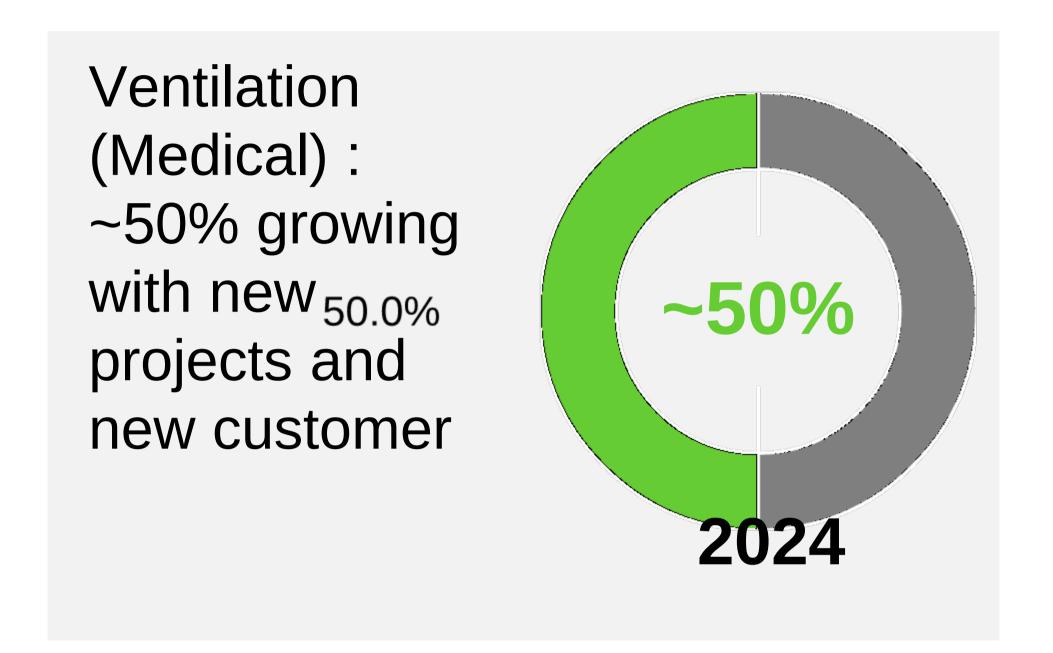
Flow sensing

Stronger than before the COVID pandemic

Flow Market

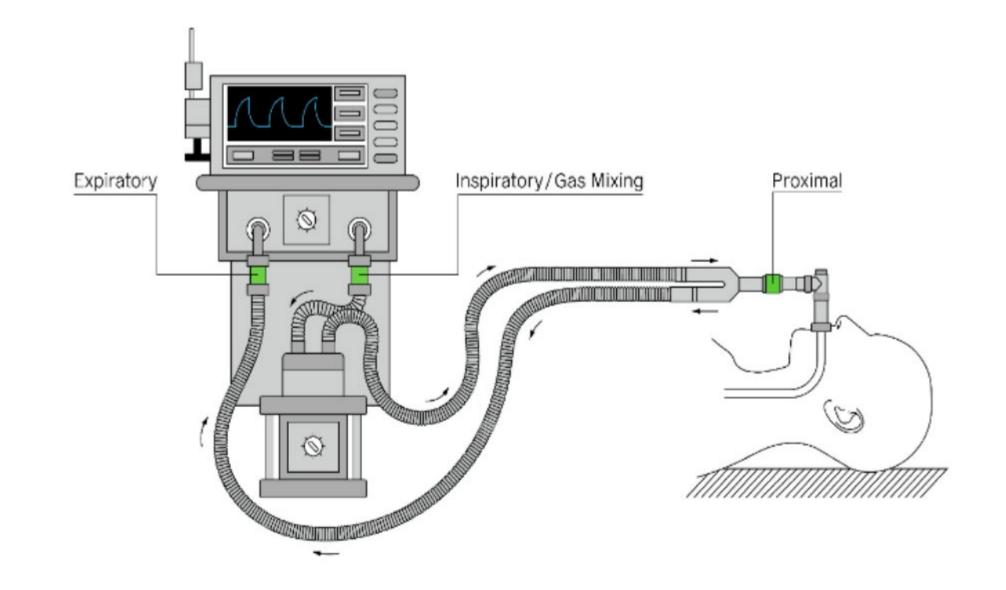
- The flow sensor market is very fragmented
- Sensirion has a high market share in certain flow applications, e.g. CPAP devices (Continuous Positive Air Pressure)

Sensirion supplies to all major CPAP (sleep apnea) manufacturers, covering more than 90% of the market.



Medical applications: stronger than before

Our ability to deliver flow sensors during the COVID pandemic increased our overall visibility and allowed us to sustainably expand our customer base.



Entering new applications such as NO-dosing or heart-lung machines enable additional future growth in the medical market



50.0

Growth along three strategic foci

Our new strategic foci



Strategic focus 3

Lay the technological foundation for long-term growth



Strategic focus 2

Go beyond our core to foster additional growth opportunities in adjacent market fields



Strategic focus 1

Drive and expand our strong market position in our core markets of environmental and flow sensing



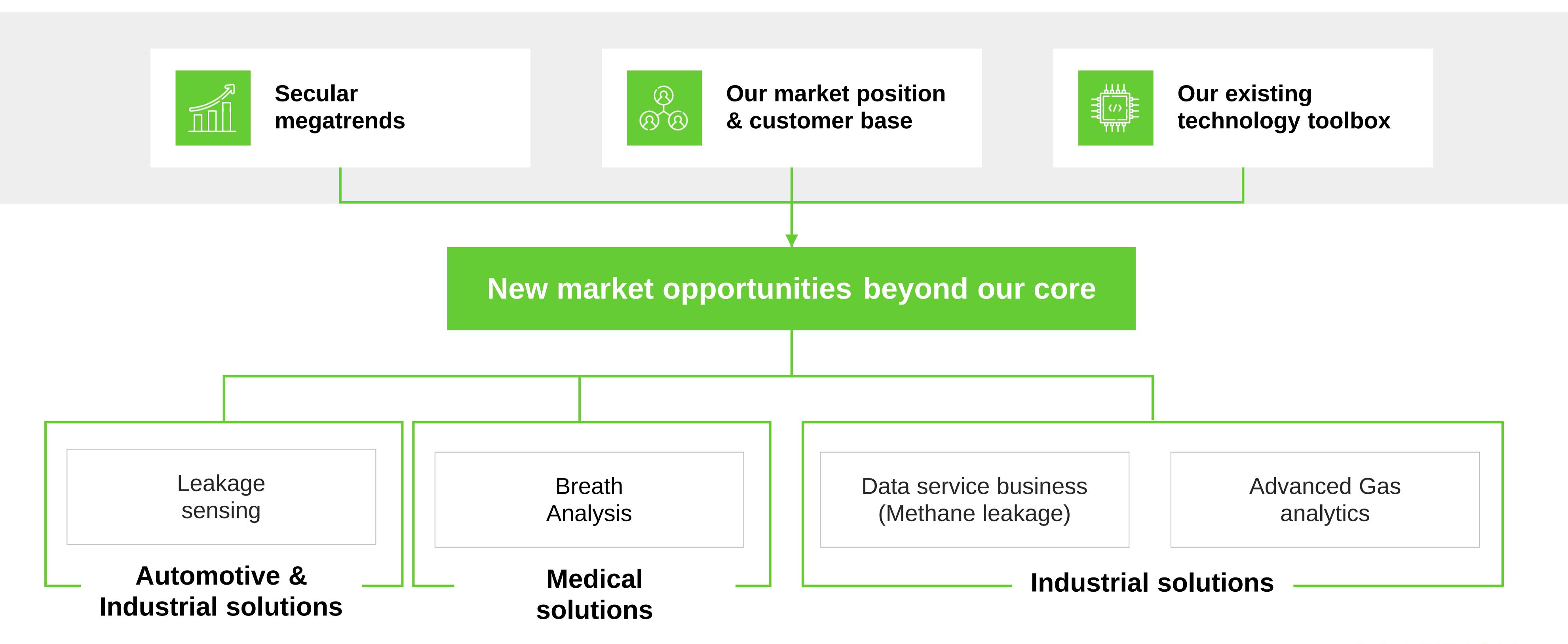
Foundation

"SensiSpirit": unique culture of innovation and entrepreneurship

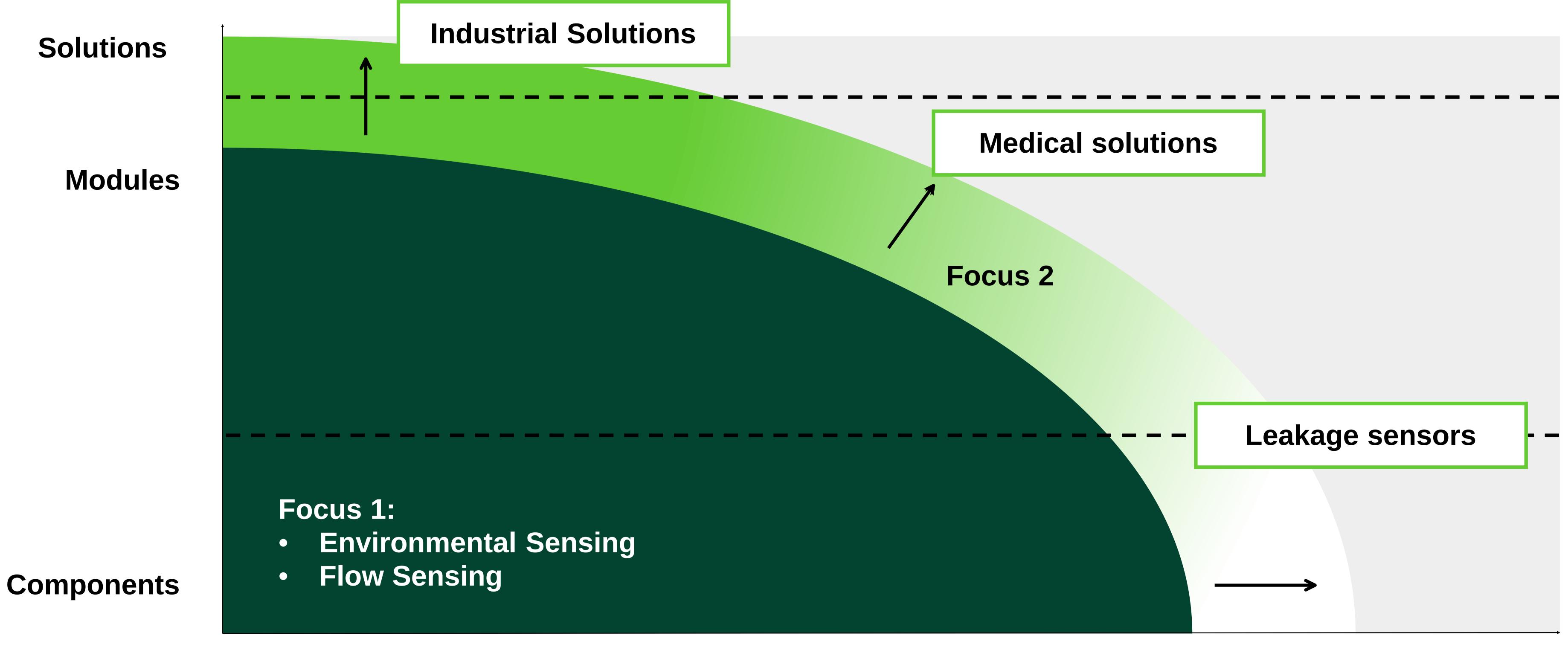


Focus 2: Megatrends drive additional growth potential

Leverage our strong market and technology leadership in our core business to expand the market.



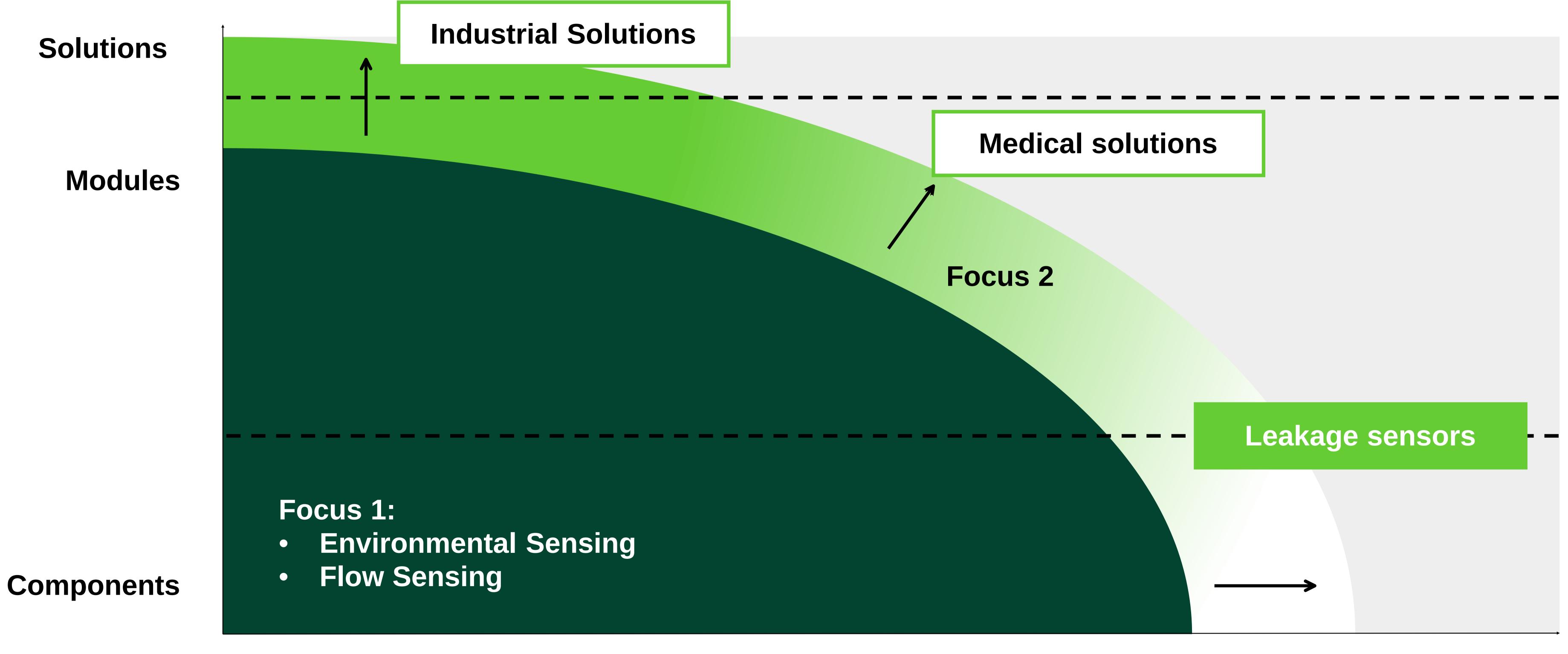
Go beyond our core to foster additional growth opportunities



Product portfolio



Go beyond our core to foster additional growth opportunities

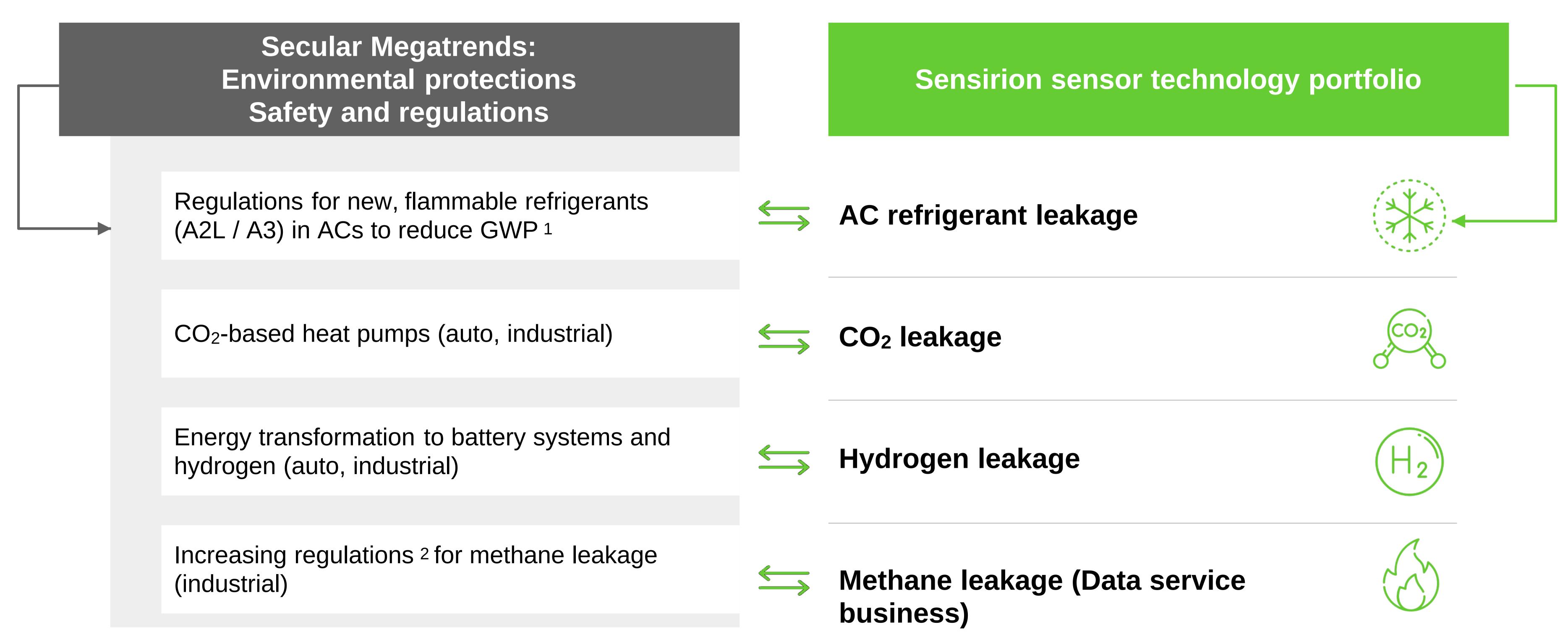


Product portfolio



"Make the difference" in leakage sensing

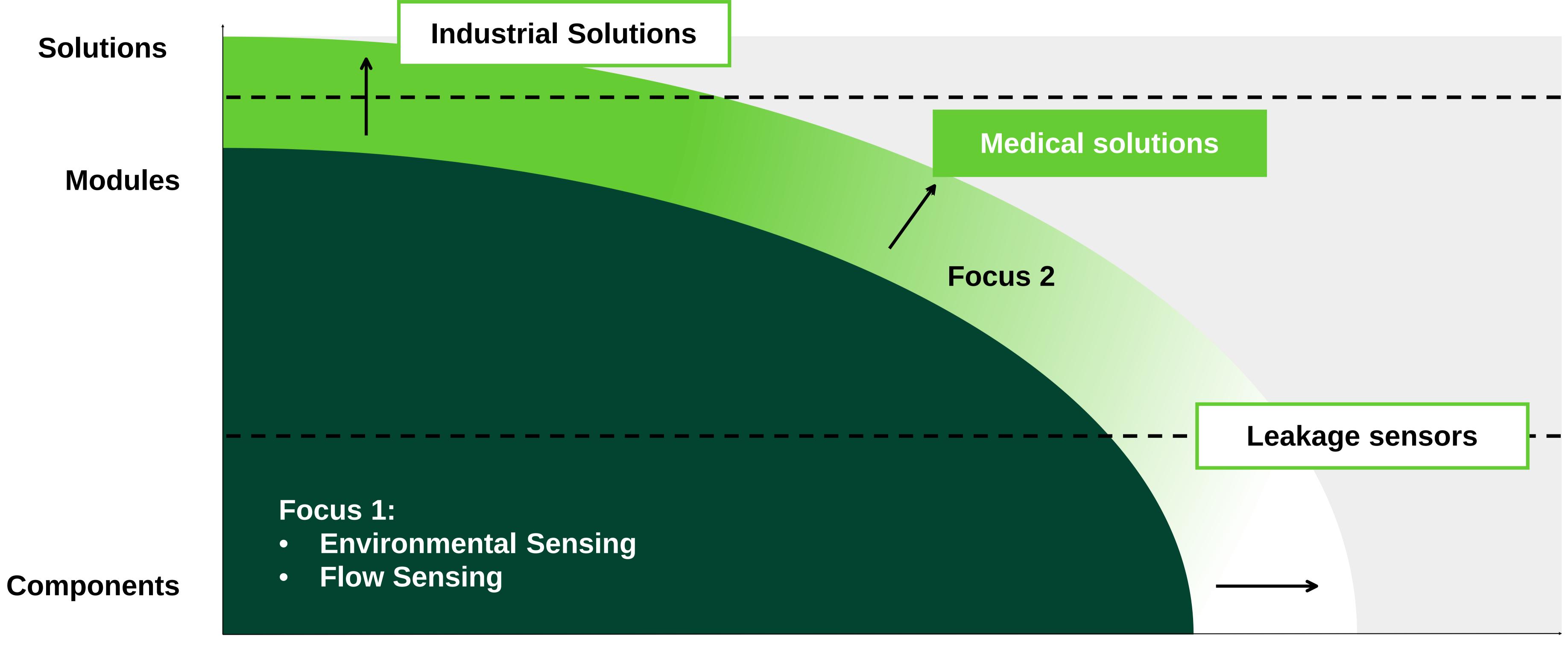
Become the leader in the emerging market for leak detection solutions in all markets



¹GWP = global warming potential: the new refrigerants (e.g. R32) have a significantly lower GWP compared to common refrigerants ²Methane Emissions Reduction Program was created under the Inflation Reduction Act of 2022 to reduce methane emission from the oil and gas sector



Go beyond our core to foster additional growth opportunities



Product portfolio



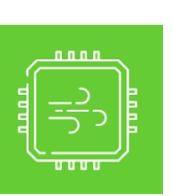
Advanced Medical solutions

"Make the difference" in sensor technology, application expertise and algorithms

Business rationale

Next level of medical breath products: combining flow and gas analysis technologies to increase treatment safety and efficiency

Sensirion's favorable position



Breath flow

- Dominant market position (#1 in CPAP & Ventilation)
- Superior technology
- Deep application knowhow



Gas analysis technology

- Comprehensive technology toolbox
- Among Top-2 in environmental sensing
- Field-proven and miniaturized



Customer base

- Broad existing customer base
- Long-term and trustful relationship with major medical players



Algorithm

 Deep application know-how



Medical solutions

Combining flow and gas technologies for medical applications



Major supporting megatrends

Health and aging society



Addressable market potential

≈100+ MCHF (in some years)



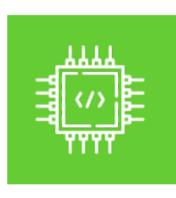
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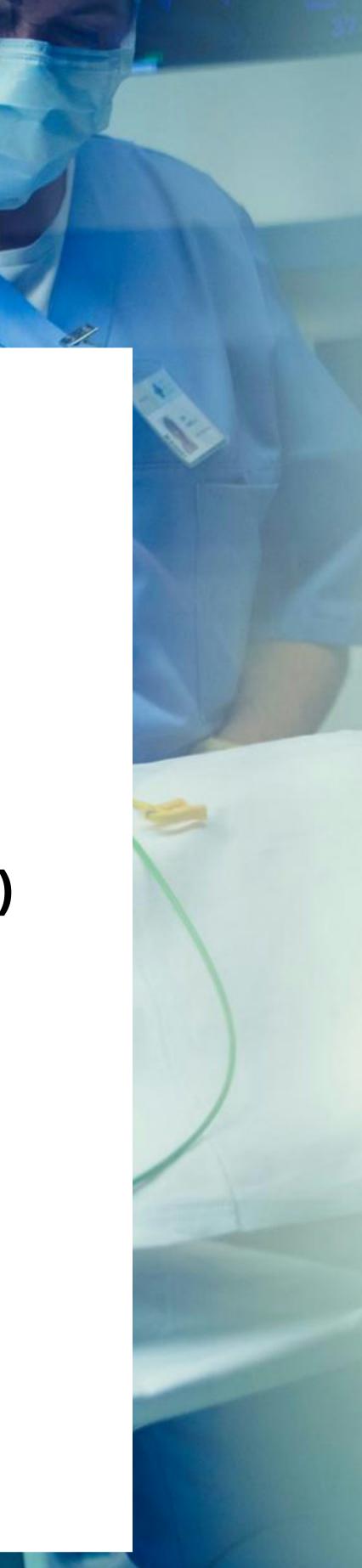
Target applications (selection only)

- Smart resuscitation: combination of flow and CO₂ (emergency)
- Respiration exchange rate:
 combination of flow, CO₂ and O₂



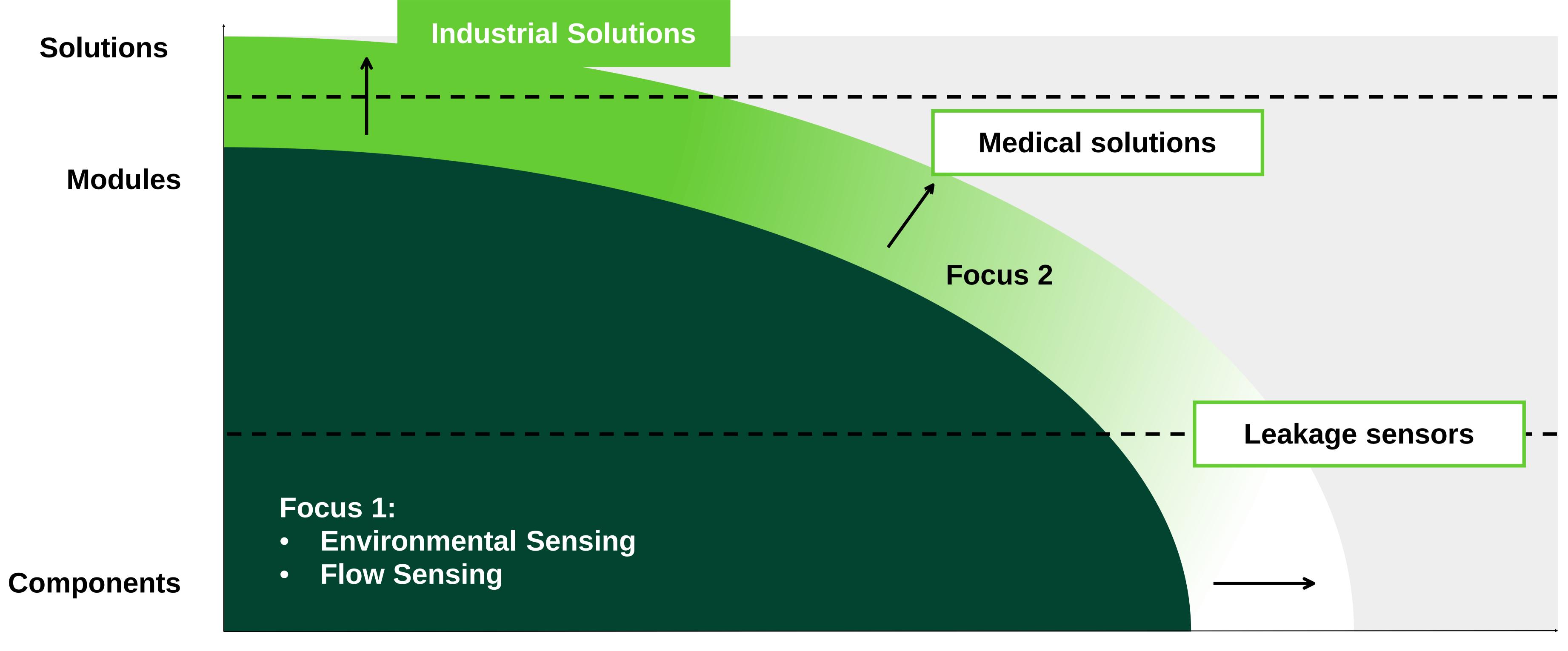
Technologies applied

Flow technology combined with CO₂ and O₂ sensing





Go beyond our core to foster additional growth opportunities



Product portfolio



Industrial solutions

"Make the difference" in sensor technology, application expertise and algorithms

Business rationale

Leverage our sensor technologies and application know-how for high-end industrial monitoring solutions, driven by secular megatrends.

Target applications we are working on (selection only)

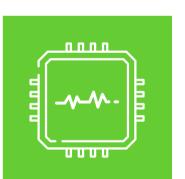
- Continuous Methane leakage detection for oil & gas industry
- Advanced gas analytics by gas chromatography

Sensirion's favorable position



Sensirion's gas analysis technology

- Comprehensive technology toolbox
- Field-proven and miniaturized



Qmicro's GC technology

- Acquired in 2021
- Superior gas chromatography technology
- Deep application-know-how by Qmicro's founders



Algorithm

 Deep application know-how



Market synergies

- Leverage our strong position in gasmetering
- Application synergies with flow applications



Methane leakage monitoring

Where technology helps to protect the climate



Methane accounts for about 16% of all global emissions ¹ Methane is ≈84x more potent than CO₂ ¹,²



Almost 15% of the methane emitted by the energy sector is caused by unintentionally leaked natural gas.



Investors, governments & buyers are increasingly demanding action from operators to comply with recent regulations in US and EU



- >50'000 active high production wells 3 in US
- >5'000 mid-stream sites in US
- Addressable market potential: 100+ MCHF
- ¹ International Energy Agency IEA "Global Methane Tracker 2024"
- ² based on global warming potential of methane over 20-year-timeframe (GWP20)
- ³ US Energy Information Administration (EIA), high production wells > 100 BOE/d

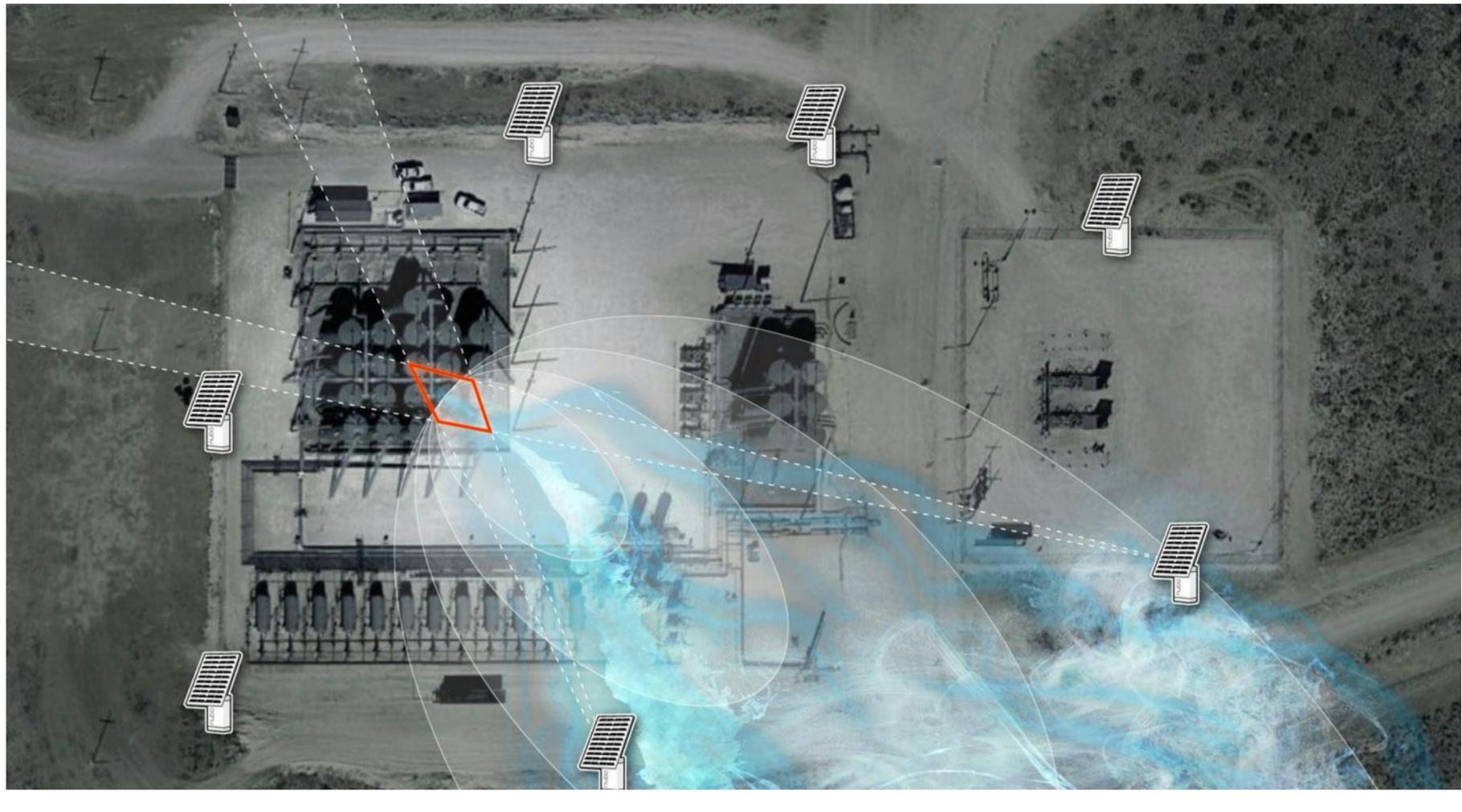




Our solution: Nubo Sphere

End-to-end continuous methane emissions monitoring solution







Leak detection and repair



Emissions quantification, reporting and reconciliation



Alerting; Emission localization and quantification



Continuous monitoring enables fast reaction time and a complete picture of emissions



Growth along four strategic foci

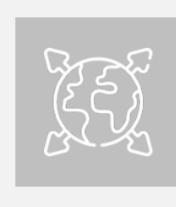
Our new strategic foci



Strategic focus 3



Strategic focus 2



Strategic focus 1



Foundation

Lay the technological foundation for long-term growth

Go beyond our core to foster additional growth opportunities in adjacent market fields

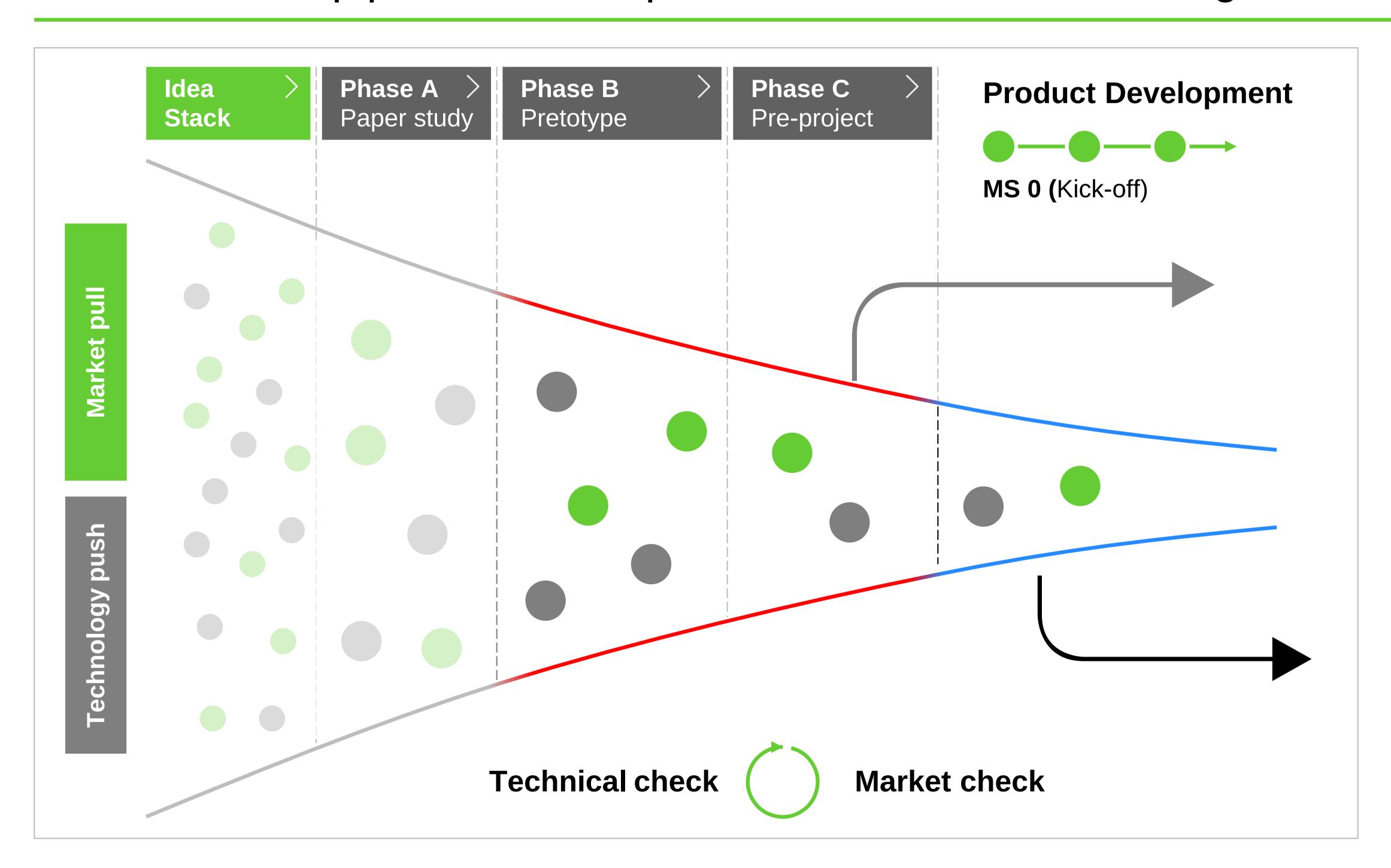
Drive and expand our strong market position in our core markets of environmental and flow sensing

"SensiSpirit": unique culture of innovation and entrepreneurship



Our innovation is embedded in a structured process

We have a full pipeline of new product ideas at different stages of maturity





Several projects in phases B and C

- Currently, several promising product ideas are in phase B (pretotype) and phase C (pre-project).
- It is too early to disclose due to competition and M&A reasons.



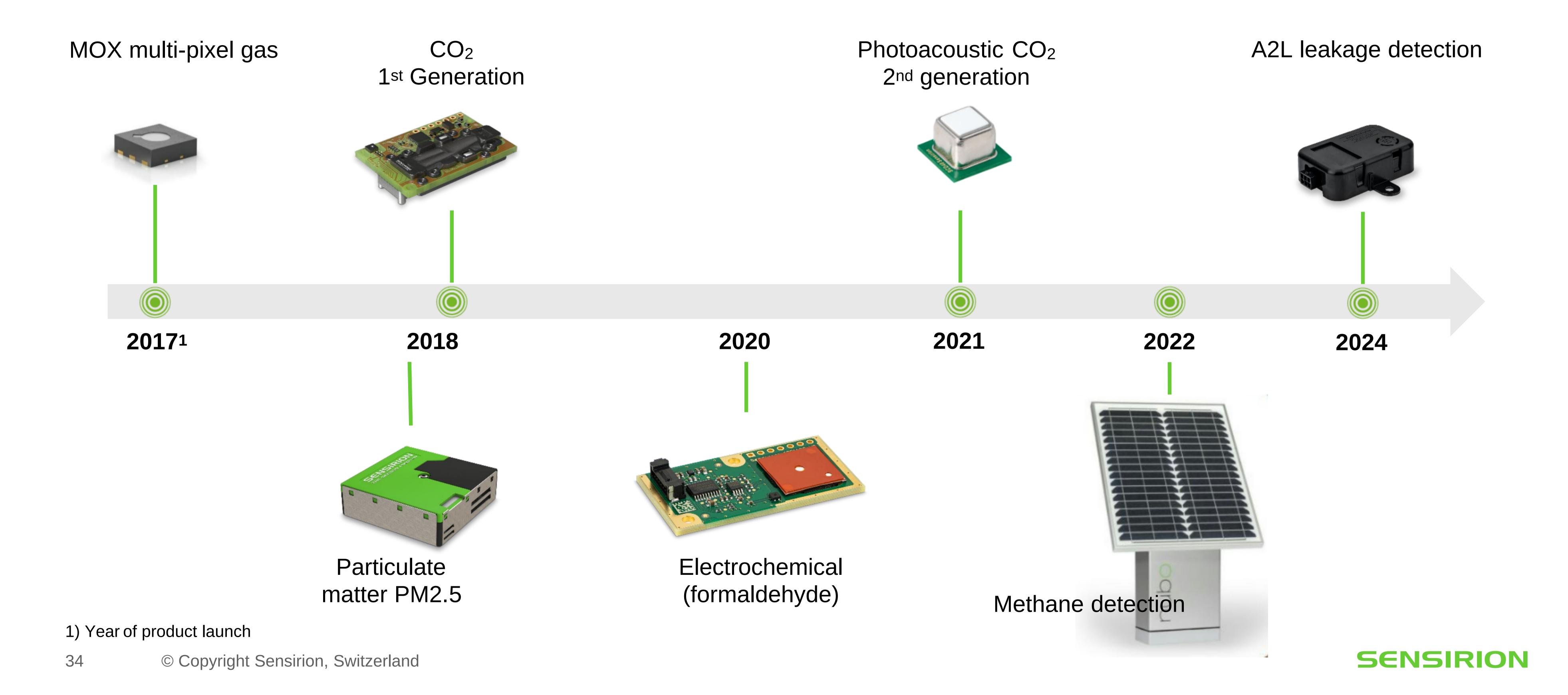
New product ideas in first development stage

- Medical solutions projects
- Industrial solutions projects
- Furthermore, we are working on advanced spectroscopic technologies based on low-cost IR laser systems



Focus 3 topics drive new product innovations

Numerous products were initially kicked-off by focus-3 initiatives





Summary: growth along three strategic foci

Strategic foci

Sensirion strategically well positioned



Strategic Focus 3 Develop technologies for long-te

Develop technologies for long-term growth

- to drive innovation and technology developments to address future megatrends
- to secure long-term sustainable company growth



Strategic Focus 2

Become market leader for the entire environmental market

- to become the leader in the emerging market for leak detection solutions
- to become a solution provider for selected focus applications in medical and industrial markets



Strategic Focus 1

Drive and expand our strong market position in our core markets of environmental and flow sensing

- to monetize our brand-new portfolio of miniaturized environmental sensors and to enable new growing applications
- to leverage our technology platforms and to react fast to future opportunities



Foundation

"SensiSpirit": unique culture of innovation and entrepreneurship

to attract and retain the best people based on an exceptional and award-winning culture



Confirmed mid-term guidance for next cycle



We see many promising additional business fields in all three strategic foci



We maintain the innovation power with lower R&D spending of 18-20% (instead of 22-24%) due to the higher portion of module business



As a result, we expect the average **EBITDA level** to remain stable in the mid to high teens over the next medium cycle.

(CHFm)	Avg 2020-2024 ³	Mid-term ¹	Comments
Annual revenue growth rate (CAGR)	~12% 1,2	Low- to mid-teens %	 ✓ Secular megatrends supports revenue growth ✓ Sensirion aims to grow above market by leveraging its leading technologies and new applications
EBITDA margin	~20% 4	Mid- to high-teens %	 ✓ R&D spending of 18-20% of revenue to support long-term technology development ✓ We keep our conservative accounting principle to expense R&D spending almost fully

¹ At fixed foreign currency exchange rates; mid-term means "averaged target over cycle of 3-5 years" ² Without (with) COVID-19-related ventilator business



³ FY 2024 at mid-point of annual guidance ⁴ adjusted for AiSight one-off impairment and restructuring costs

SENSIRION