

spectris

Spectris plc

Particle Measuring Systems

4 June 2024





Andrew Heath
CEO
Spectris plc

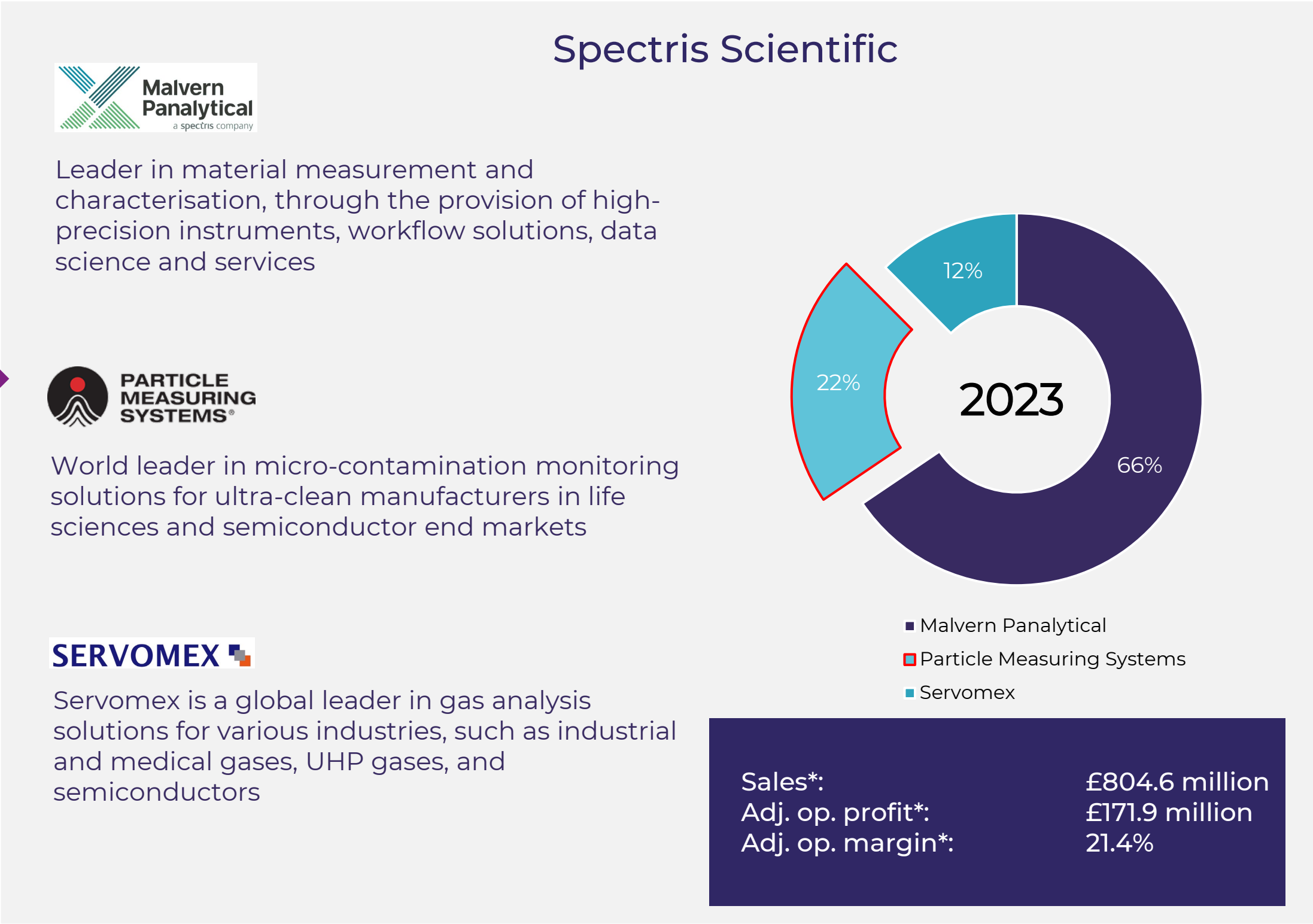
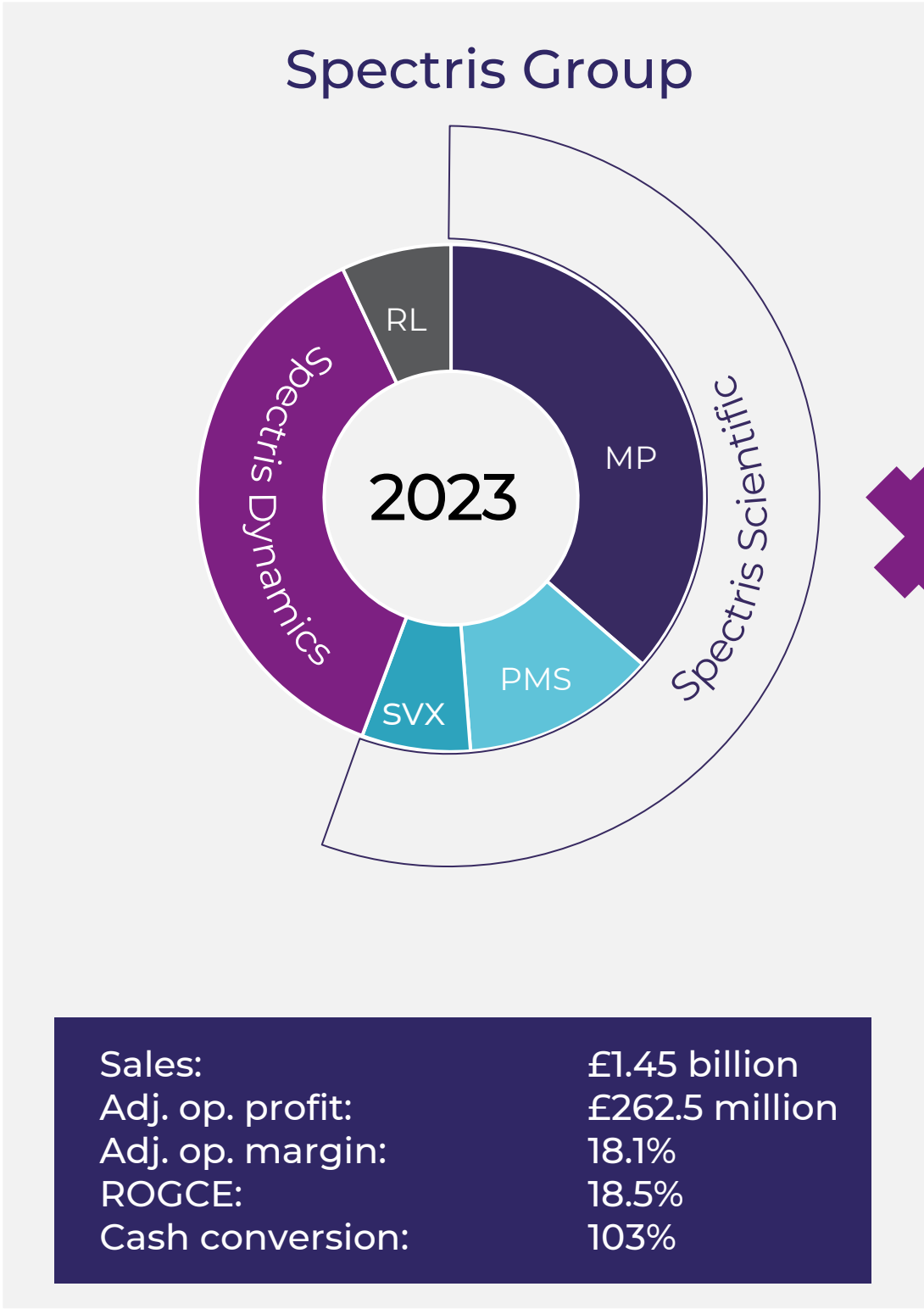


Andy Cowan
President
Particle Measuring
Systems



Mathew Wootton
Investor Relations Director
Spectris plc

Please submit your written questions using the 'Questions' box that sits below the video player



* Spectris Scientific financials for 2023 including Servomex

Strategy for Sustainable Growth



Leading sustainable businesses



Compounding growth



Purpose-led

Delivered through our business model

Our Purpose

We are harnessing the power of precision measurement to make the world cleaner, healthier and more productive.



Our Commitment

to being a sustainable business partner, investment proposition and employer



▶ Great businesses



▶ Structural growth markets



▶ Customer centricity



▶ Investing in growth



▶ Operational excellence



▶ Investing in our people



Underpinned by
Our Values

Be True

Own it

Aim High



Particle Measuring Systems

Without measurement there is no control



Providing solutions where detecting the smallest particles and ensuring ultra-clean is mission critical



spectris

“Detecting a 10nm particle sitting on a penny is equivalent to seeing a person standing on the moon”

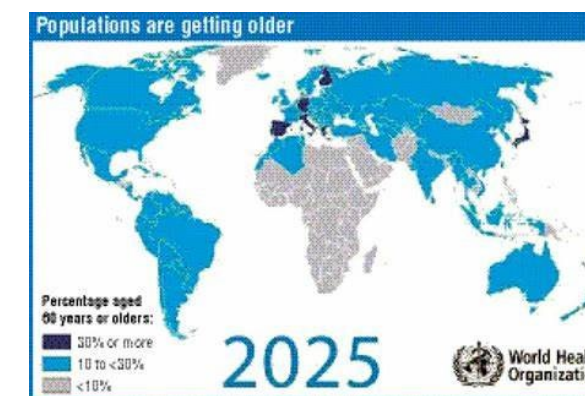


“Your fingernail grows 1nm in approximately 1 second”



Playing a critical role supporting our customers address a number of mega trends

Artificial
Intelligence



Population
change

Software
defined
vehicles



The Internet
of Things



**PARTICLE
MEASURING
SYSTEMS®**



New
medicines



Regulation

A world leader in micro-contamination monitoring solutions for ultra-clean manufacturers

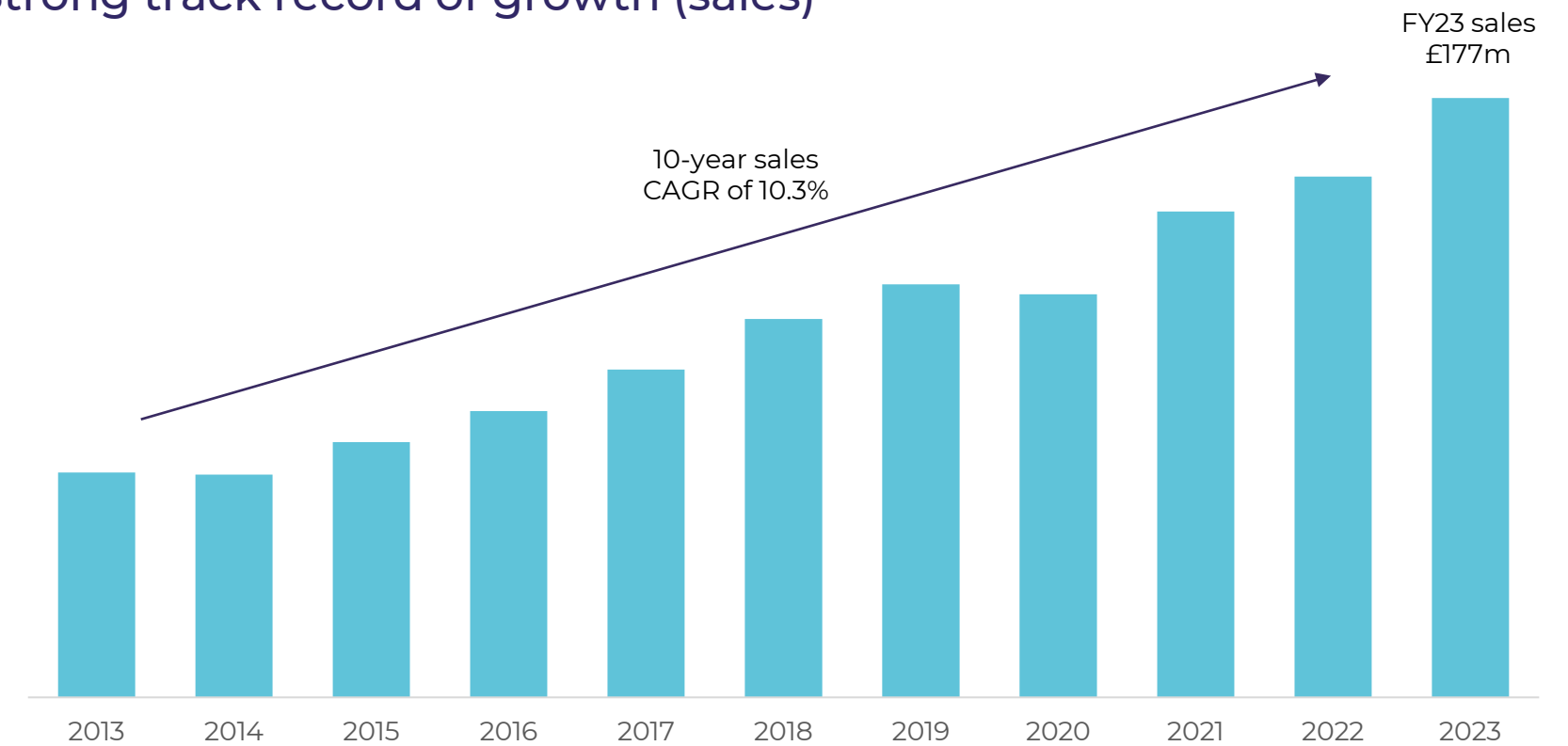


Overview

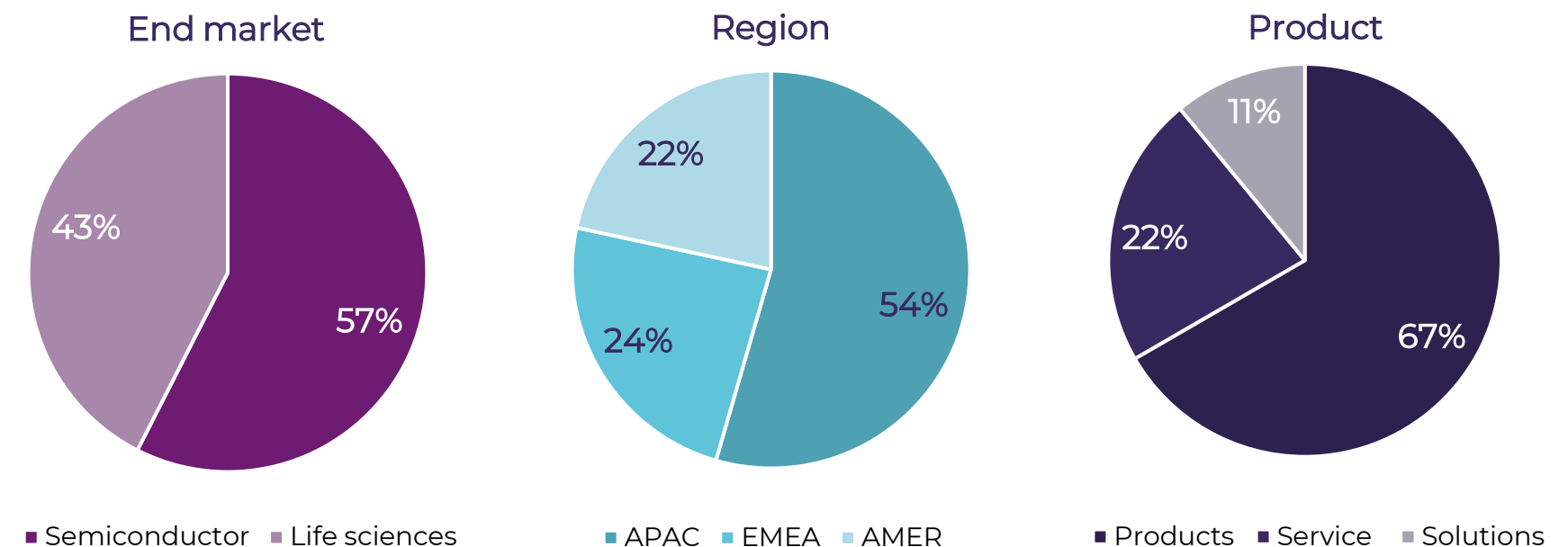
- Established in 1972
- Headquartered in Boulder, Colorado with 700 employees in 23 sites across 16 countries
- The inventor of laser particle counting
- Premium provider of contamination monitoring solutions
- Strong track record of technological innovation with 260 patents
- Large installed base with ~80,000 instruments in the field



Strong track record of growth (sales)

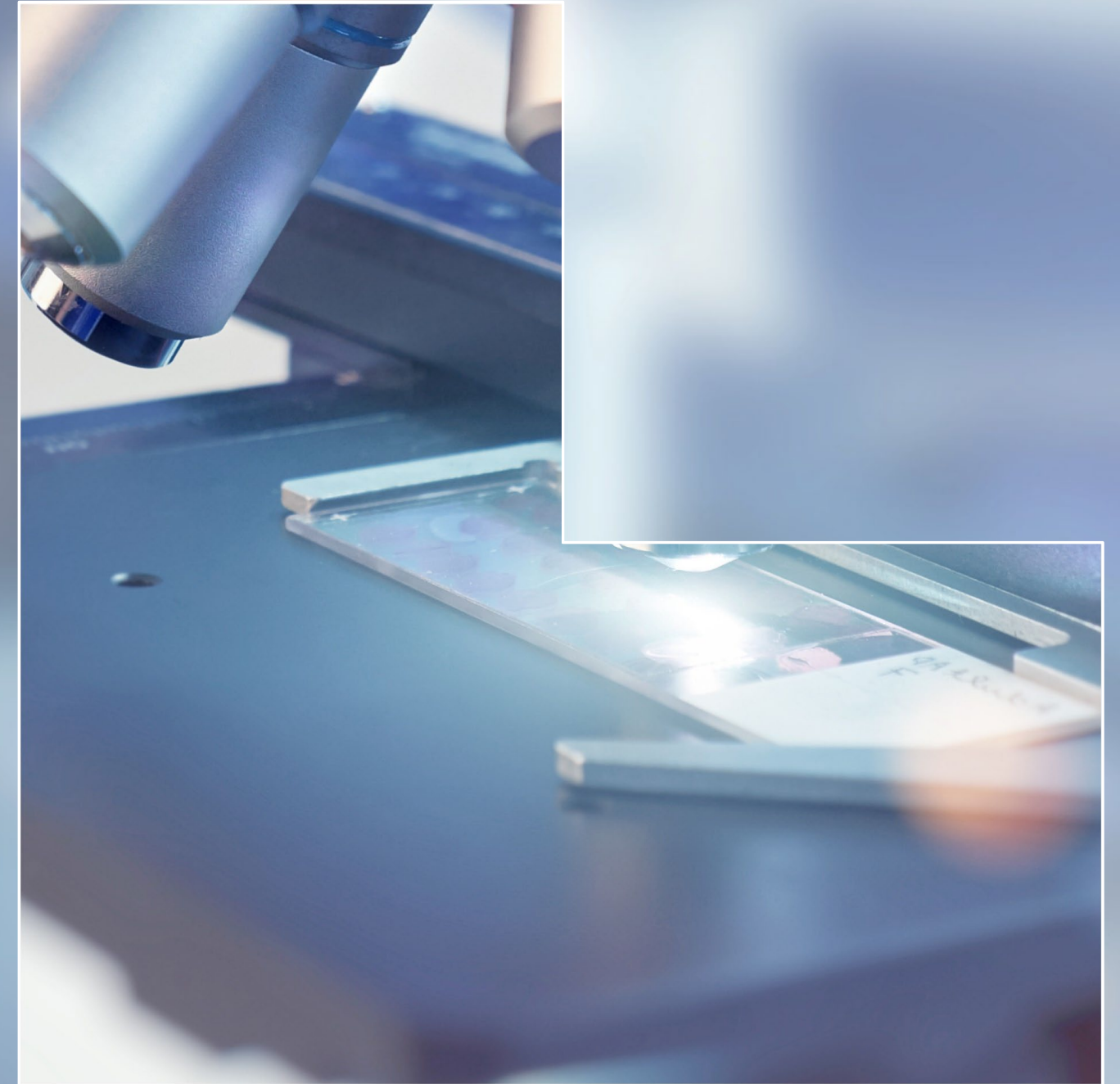


Sales breakdown (FY23)



spectris

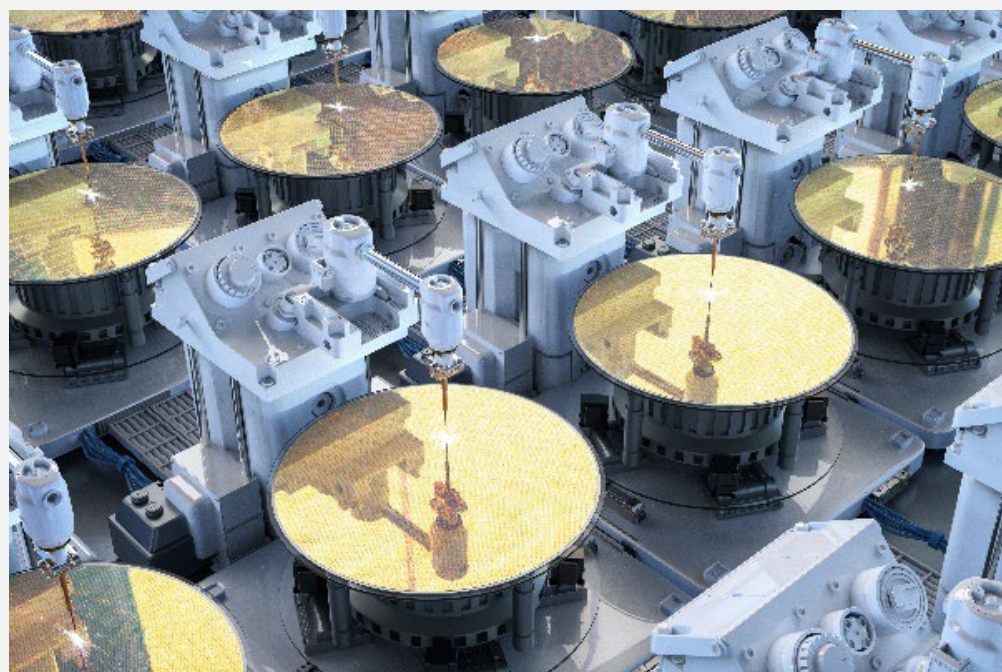
Our markets



Leading portfolio of mission-critical products and solutions for semiconductor and life sciences markets



Semiconductor



Capability

- Large, global semiconductor manufacturers and their suppliers
- Instruments and solutions to monitor purity of air, gases and liquids
- Ensure semiconductor supply chain and manufacturing processes are contaminate-free

Customer purchase criteria

Semiconductor-specific

- Highest sensitivity and quality
- Applications knowledge and expertise

Common to both

- Technical Leadership
- Breadth of product portfolio
- High-touch customer engagement

Life sciences



- Aseptic manufacturers in biopharma and vaccine sub-segments
- Continuous air sampling solutions to help prevent microbial contamination
- Environmental monitoring systems for data integrity and regulatory compliance

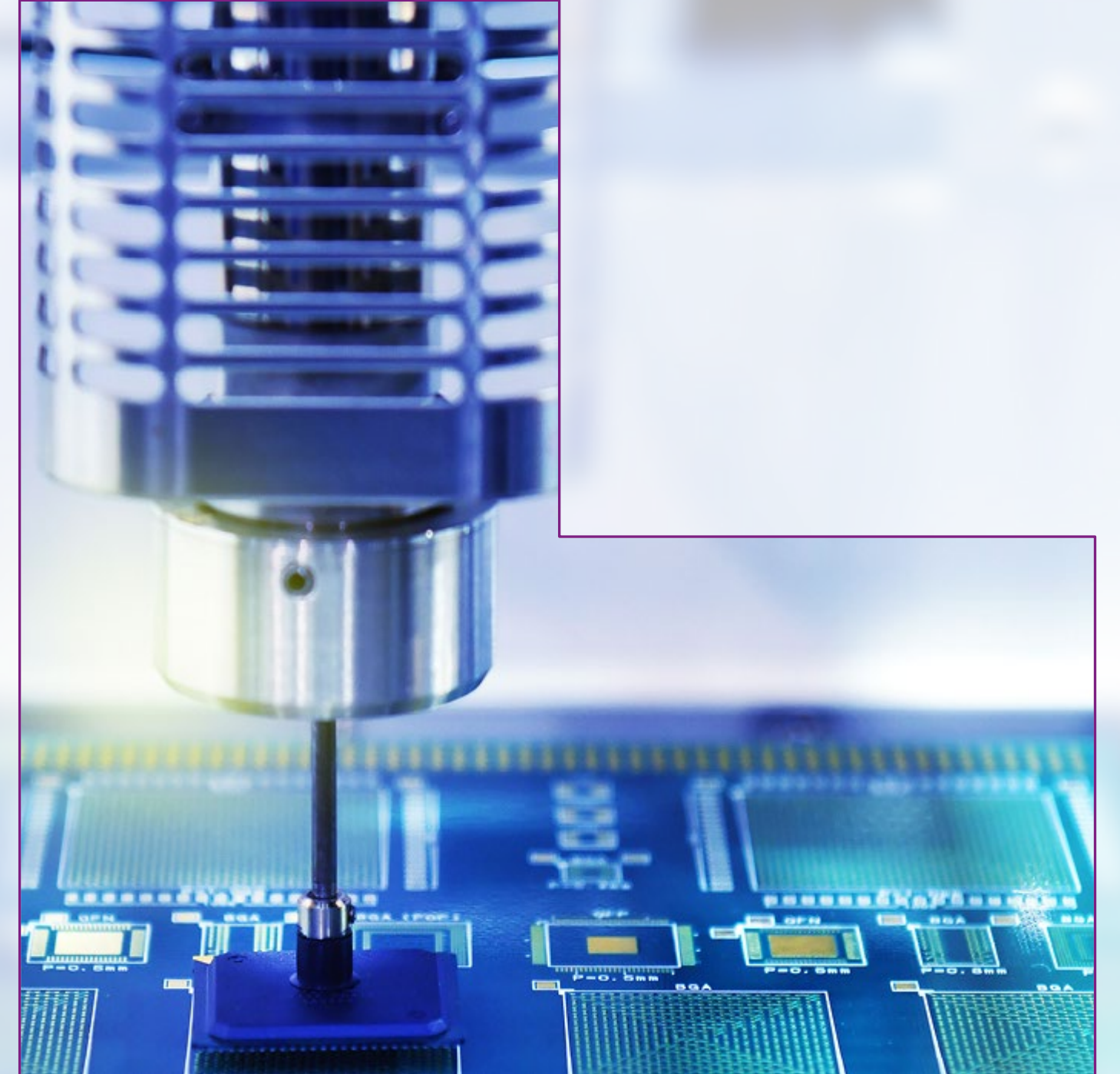
Life sciences - specific

- Environmental monitoring solutions provider
- 1st class advisory service
- Regulation/compliance

- Global presence with dedicated teams locally
- Standardised global service

spectris

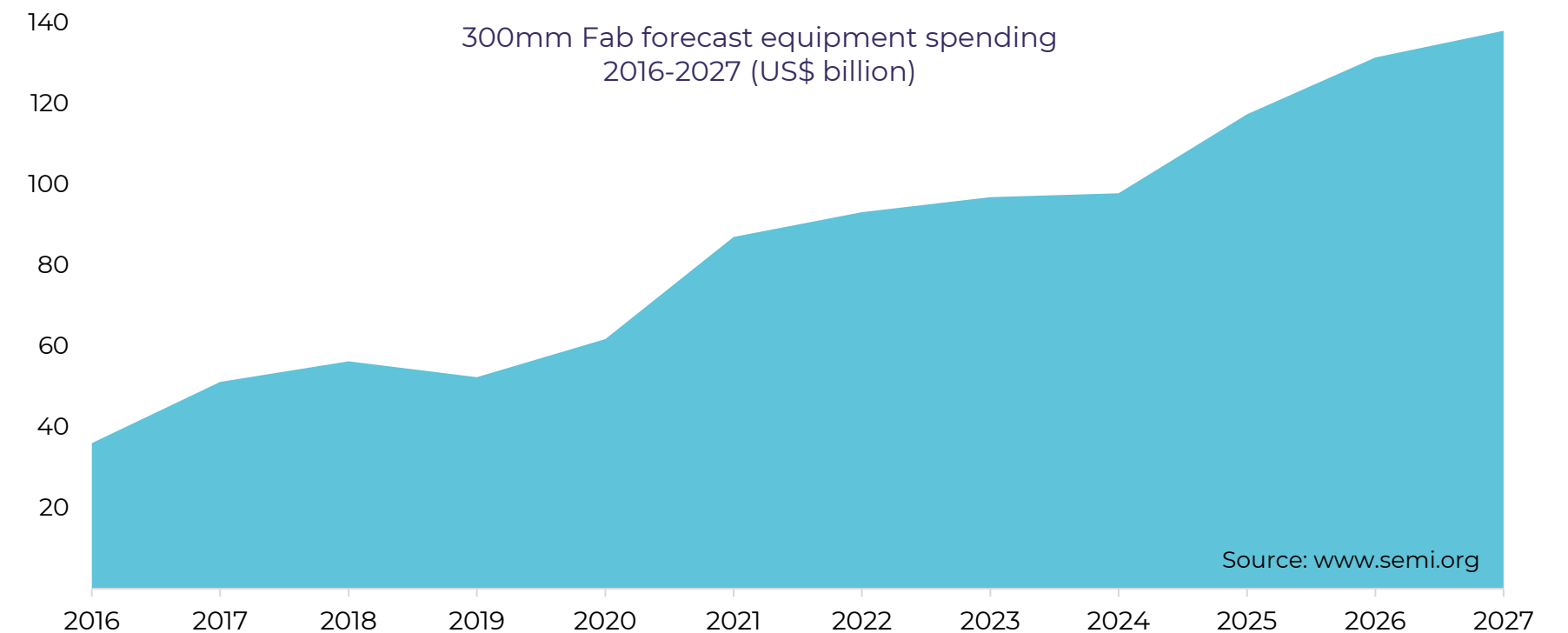
Semiconductor



Semiconductor – serving the high-growth market of semiconductor manufacturers and their suppliers

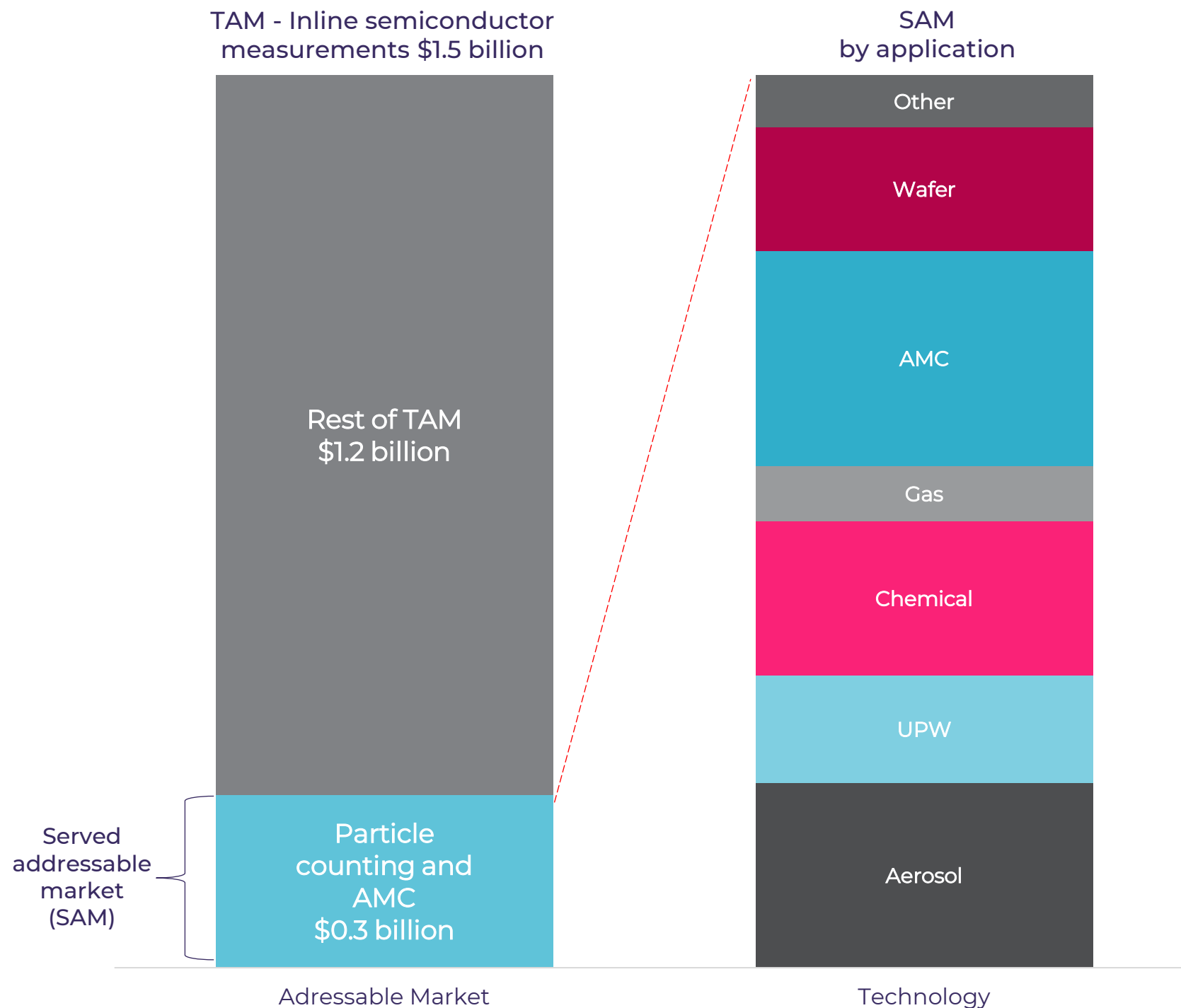
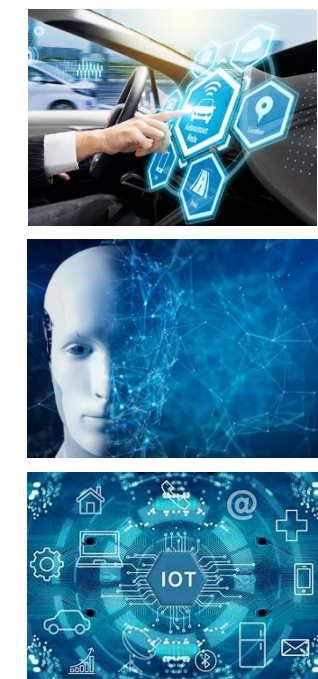
Where do we play in semiconductors?

Market growth

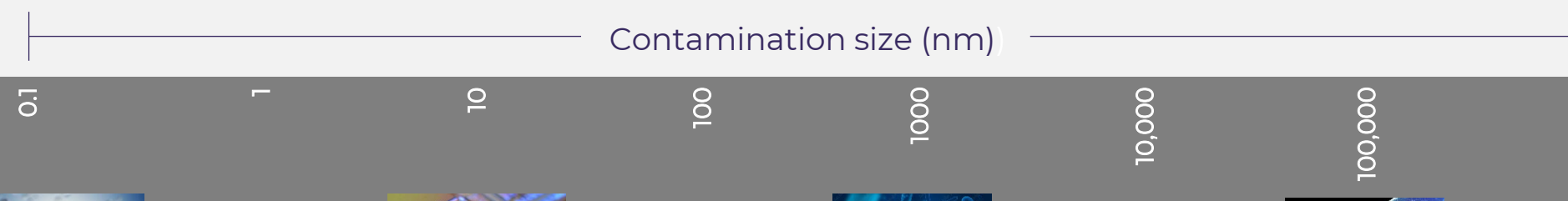
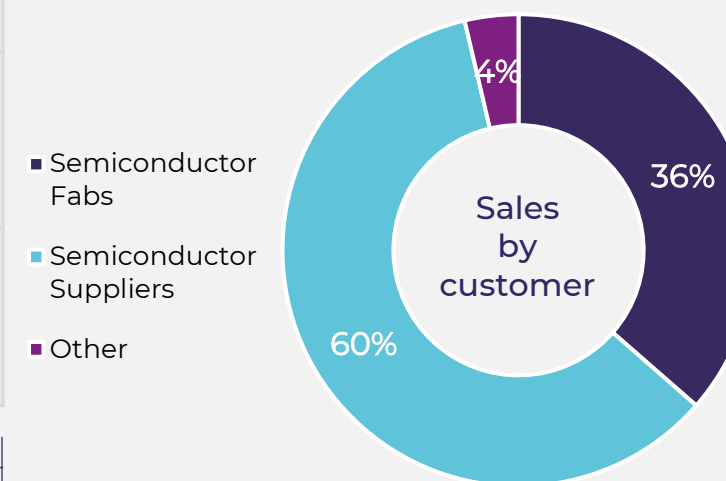
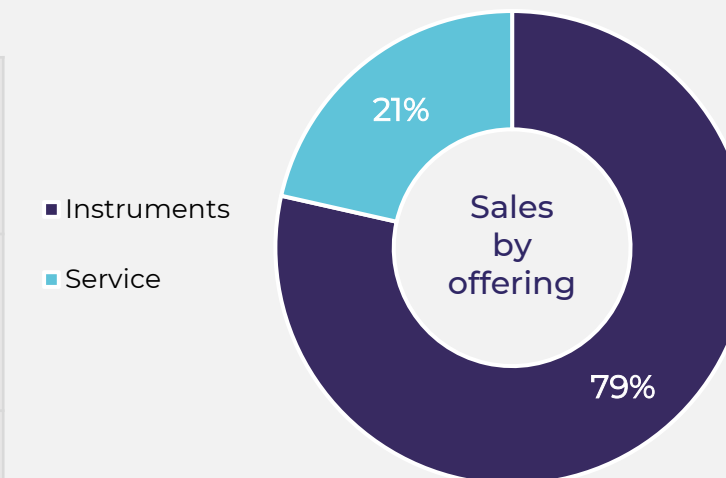
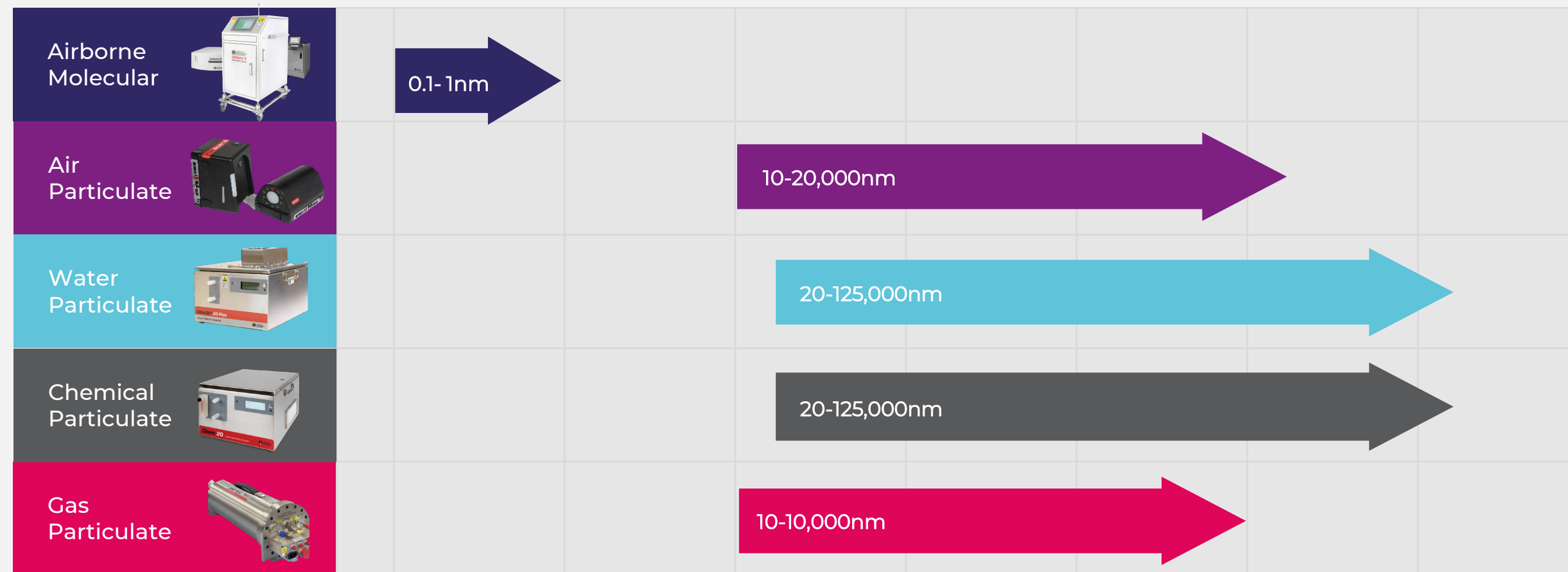


Market trends / growth drivers

- AI, automotive, 5G, automation, IoT and personal devices
- Resurgence of 200mm fab capacity expansion to support automotive industry
- EU and US Chips act accelerating onshoring
- Fab capacity investments for technology nodes < 7nm



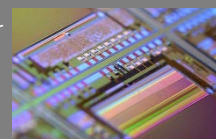
Our semiconductor product offering is the broadest with the highest sensitivity



Water molecule
~0.28nm



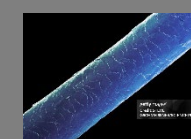
Semiconductor
~10nm



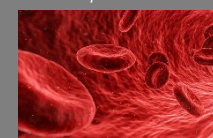
Bacteria
~1,000nm



Human hair
~100,000nm



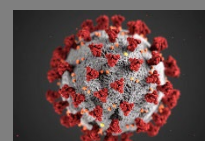
Red blood cell
~8,000nm



DNA
~2.5nm



Covid virus
~125nm



Images to provide
size comparison

Semiconductor – ensuring ultra-clean at all stages of the manufacturing process

Fab layer



Process tool



NanoAir 10nm & Particle Seeker



CMP tool



LiQuillaz II liquid particle counter



Lithography



NanoAir 10nm & Particle Seeker



AirSentry II



Sub Fab layer



Water plant



Ultra-pure water monitoring



Chemical polish



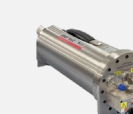
Chemical particle counter



Gas CQC



Ultra-high purity particle gas counter



Suppliers layer



Chemical processing plant

Ultra-pure water monitoring



Chemical particle counter



Air separation unit



Ultra-high purity particle gas counter



NanoAir 10nm and Particle Seeker



Semiconductor customer case study

In-line particle monitoring solution to reduce yield loss



spectris

Provision of highest-sensitivity liquid particle counters and after-sales service

Customer requirements

- Major semiconductor customer
- Improve yield and quality of final product
- Application design and implementation of in-line monitoring solution
- After-sales service and support



PMS solution

- World leading ultra-pure water particle monitoring solution
- Leading technology with highest sensitivity in the market
- Strong levels of service support
- Collaboration and domain knowledge

spectris

Life sciences

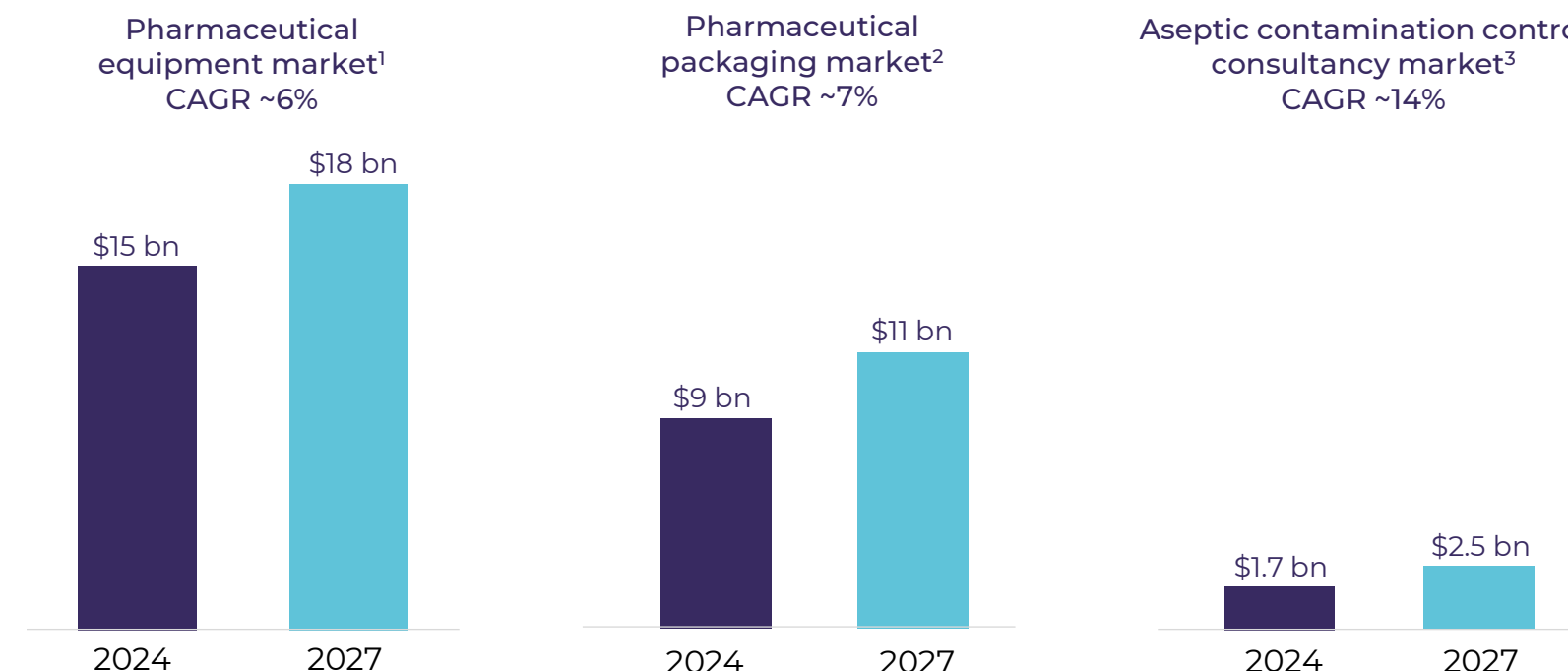
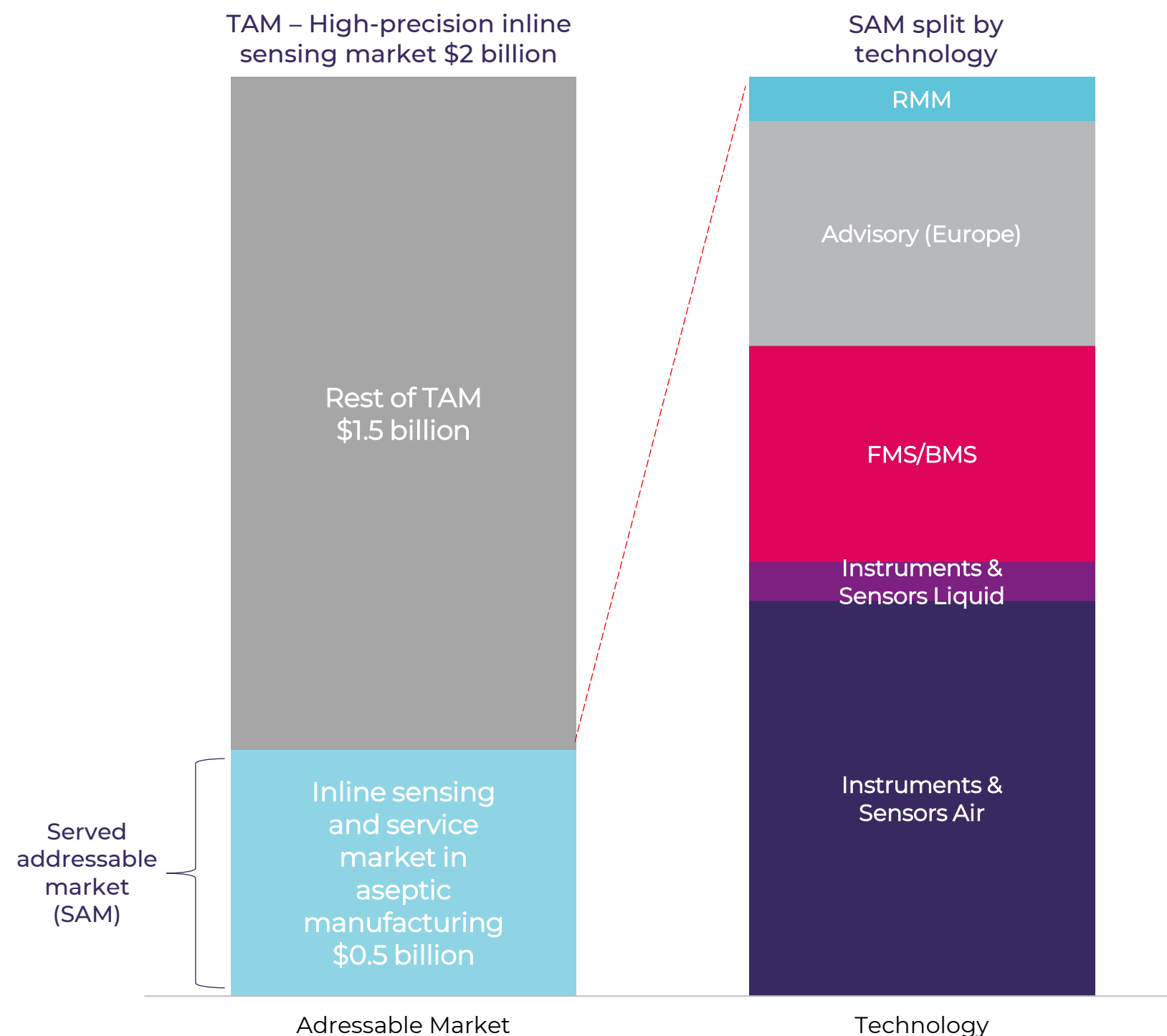


Life sciences – serving a high-growth, large addressable market



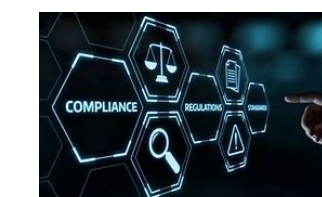
Where do we play in Life Sciences?

Market growth



Market & Technology trends / growth drivers

- Onshoring of manufacturing
- Aging population
- Increasing demand for health treatment
- Increasing biologics/large molecule and personalised medicine
- Increasing regulation
- Pharma 4.0 / Data Management



Life sciences – solutions-focused provider to major pharma and life sciences customers



Customers served

Life science market

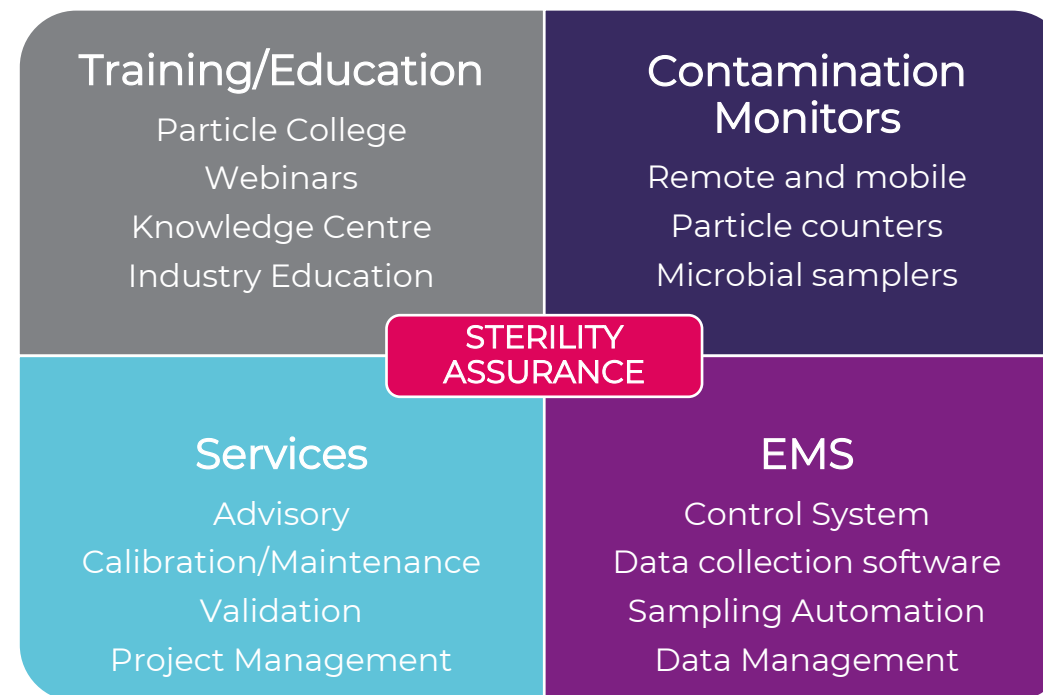
Sterile manufacturing

Aseptic manufacturing

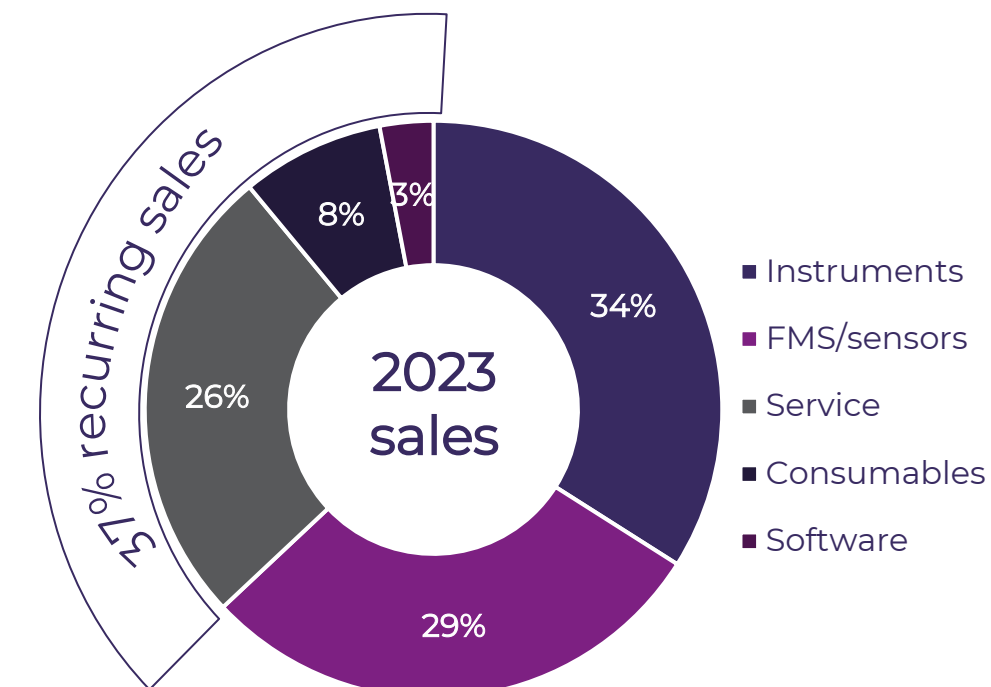
Biopharma & vaccine

- Large market covering academic, industrial & laboratory research & manufacturing
- Production of injectable drugs
- Production of injectables under critical conditions
- Highest value pharmaceuticals
- Novel medicines

Product offering



Product mix



Core products

Airborne particle counters



Continuous



Viable Monitors



Compressed gas monitoring



Single use microbial air sampler



Viable air sensor/monitor

Compressed gas monitors



Viable monitoring



Non-Viable monitoring

Facility Monitoring Systems



Liquids particle counting



Delivering a complete solution to ensure regulatory compliance for our life sciences customers



spectris

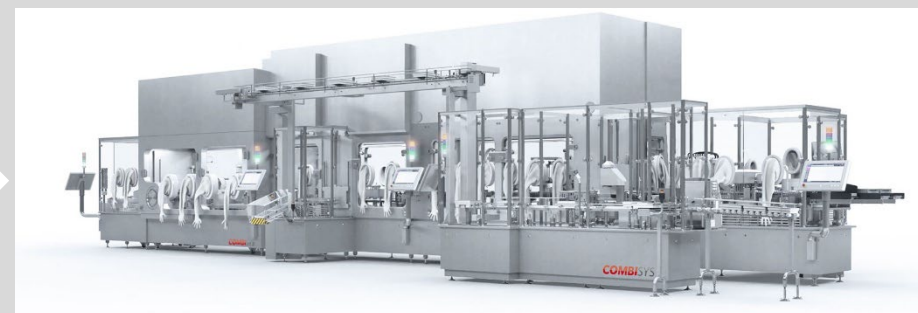
Manufacture

Release

Preparation and Formulation



Aseptic fill and finish



Final product inspection and QC



Ensuring people & supplies start the process under appropriate conditions



Aerosol particle counter



Microbial/viable air sampler



Instrument software

Enabling contamination control of critical processes



Particle sensor



Particle sensor



Viable air sensor



Single use viable air sampler



Monitoring system

Facilitating compliance to release



Liquid particle counter for quality control

Advisory and Data Management

Life sciences customer case study

Ensuring ultra-clean and regulatory compliance for new facility



Provision of full sterility solution for major drugs manufacturer

Customer requirements

- State of the art facility to meet regulations
- Ensure full contamination control for viable & non-viable particles
- Precision data to take scientific decisions
- Outsourced knowledge support for fast and compliant decisions



PMS solution

- Deep regulatory and domain knowledge
- High-precision, user-friendly products meeting GMP requirements
- Advisory services for scientific understanding beyond compliance
- Strong collaboration

spectris

Investing in growth

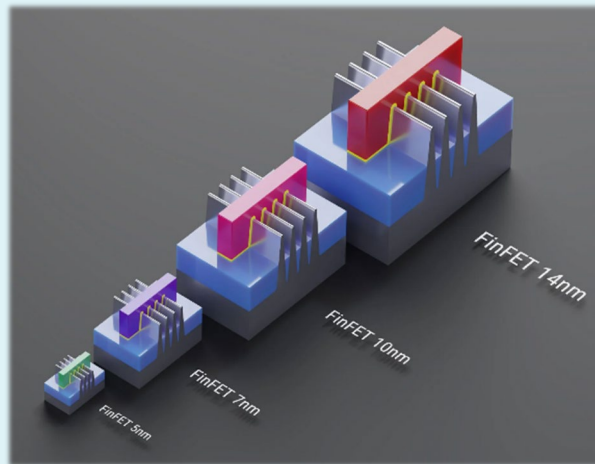
Research &
Development



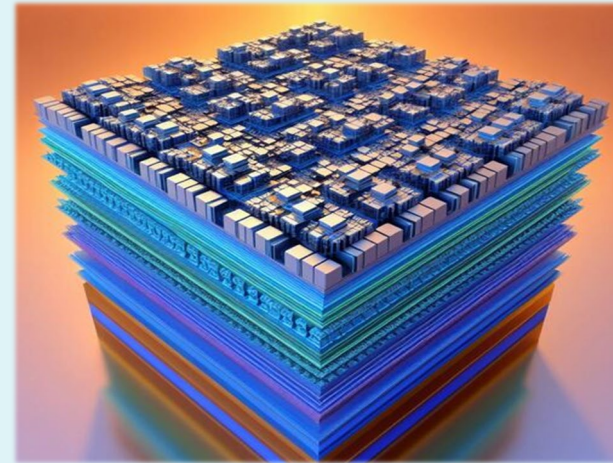
Investing in Growth through R&D

Semiconductor

3nm lines and below



Highly vertical new structures



AI, automotive, IoT



Global onshoring



Life sciences

Pharma 4.0



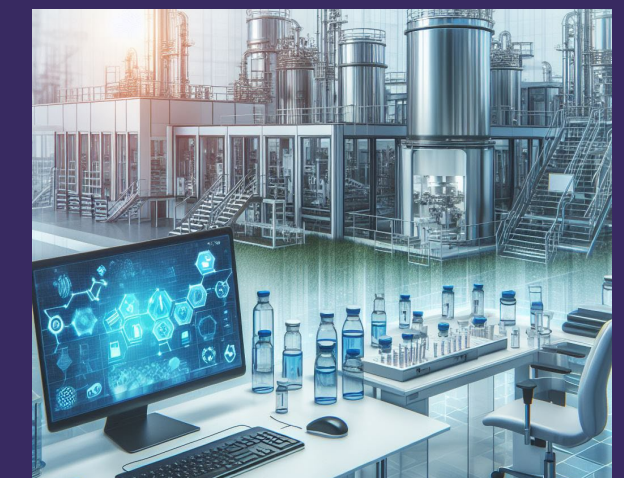
Process Analytical Technologies



Regulatory environment



Lean optimisation



Introducing industry leading products and solutions

R&D investment ~7-8% of sales and vitality index 31%



Semiconductor – recent product launches

Development focus

Technology infusion and product advancement

- Sensitivity advancement
- New facility monitoring software systems
- Harsh environment solutions



NanoAir™ 10nm particle sensor and Particle Seeker Manifold



Sampler Sight liquid sampler software



20nm water and chemical monitoring solutions

Life sciences – recent product launches

Development focus

Enhanced connectivity and detection

- Pharma 4.0-optimised products
- Rapid microbial detection systems
- Ease of deployment



Lasair Pro aerosol optical particle counter



MiniCapt Pro microbial sampler



Facility Pro environmental monitoring systems

A focus on sustainability



Our planet

- 100% green energy as part of journey to net zero by 2030
- Implemented sustainable packaging for new products
- 40% reduction in measurable waste as part of our goal of zero waste to landfill by 2030



Our value chain

- 40% of supplier spend now rated through Ecovadis with target to reach 70% by end 2024
- PMS awarded Silver Ecovadis award
- Commenced full product lifecycle analysis as part of Scope 3 emissions plans



Our society

- Committed to empowering local communities
- Supporting initiatives that are meaningful to employees
- Recent donation to Boulder Emergency Squad



Investing in new capability



- Investing in new, state-of-the-art manufacturing and innovation centre in Colorado
- Doubles capacity of existing site
- Modern facilities and new employee wellness benefits
- Building scheduled to open in H2 2025

Customer-Centric



Innovation Hub



Net-zero focus



Engaging place to work



- Great business
- Market leader with strong market positions
- Operating in attractive markets
- Customer centric
- Investing for sustainable growth



Thank you for listening

spectris

Q&A

