

Simplifying Progress

Welcome to Sartorius Stedim Biotech

February 2024



Our ambition: Better health for more people

Mission

At Sartorius Stedim Biotech, we empower engineers to simplify and accelerate progress in bioprocessing. In this way, we enable new and better pharmaceuticals to be manufactured and help keep medications affordable.

Vision

We are a magnet and dynamic platform for pioneers and leading experts in our field. We bring creative minds together for a common goal: technological breakthroughs that lead to better health for more people.





Sartorius Stedim Biotech in 2023 numbers



1 Underlying EBITDA margin

10,600 employees united by strong values

Sustainability

Growing profitably and acting responsibly towards all stakeholders

Openness

Driving change and progress internally and externally

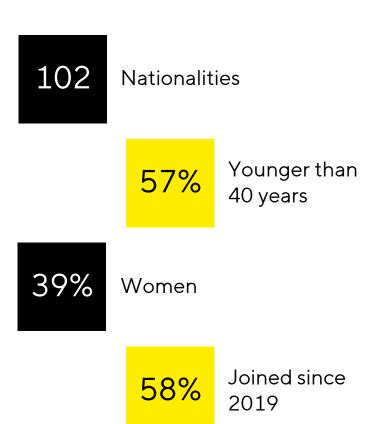
Enjoyment

Working in an energetic and rewarding environment









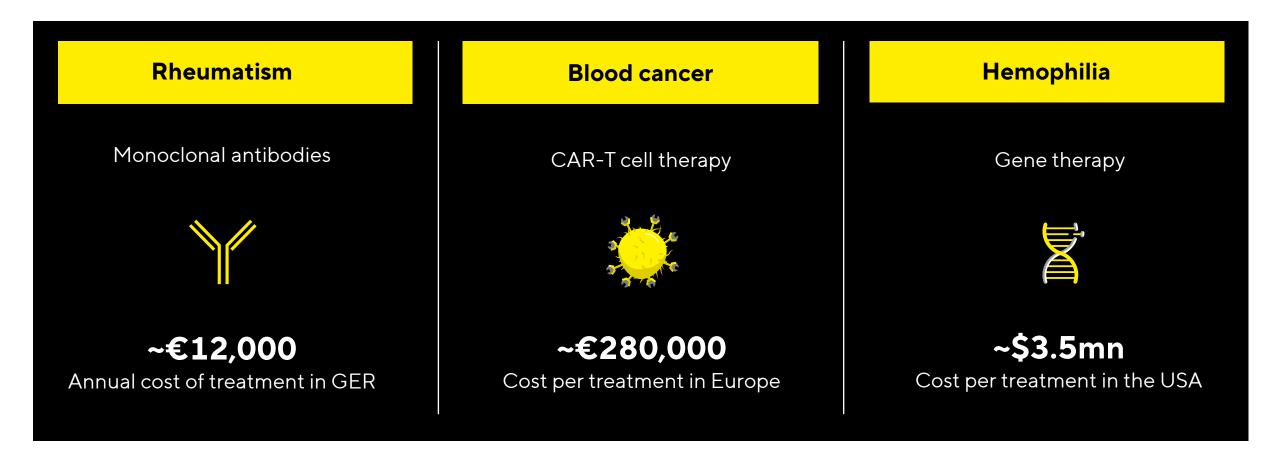


The promises of biologics: From established to new concepts

Advantages What are biopharmaceuticals? Target only diseased cells Have fewer side effects Allow first-time or improved treatment of Consist of Obtained from living cells in Administered mainly illnesses, e.g. cancer, multiple sclerosis, complex molecules cell culture processes intravenously rheumatism 2012 / 2017 **Smallpox** Blood Human Cell & Gene Monoclonal **mRNA** Vaccine **Transfusion** Insulin **Antibodies Therapy Vaccine** Established biopharmaceuticals Next generation



Many biotech medications are highly effective, but very expensive





The manufacture of biologics is complex





Providing technologies to increase productivity in bioprocessing



Our ambition

More efficient bioprocessing



Our solutions

Technologies for all phases of drug manufacturing



- Set up safe and flexible processes
- Increase resource and material efficiency
- **Reduce investments**
- **Enhance product yield**



Media & reagents



Chromatography





Filtration



Bioreactors & fermenters



Fluid management



Data analysis

Offering integrated end-to-end manufacturing solutions

Upstream Production of the desired drug Cell culture media & Seed Scale-up Production cultivation preparation **Downstream** Isolation and filling of the desired drug Final Cryo-Sterile Concen-Virus clearance Chroma-Clarification & & filtration centrifugation filling preservation filtration tration tography



Helping customers to reduce their environmental footprint







Data analytics



- No water-/energyintensive cleaning
- Less cleanroom space, less energy usage
- Higher yields





Cell and gene therapies: New modalities, new challenges



Next generation biopharmaceuticals

Viral Vectors mRNA Stem Cells

New Vaccines Exosomes DNA

6,000+

Innovative treatments for patients

Candidates in development¹

Approved therapies worldwide



Enabling CGT: High need for innovation

Robustness of production process

Yields, productivity, cost-per-dose

Time-to-market

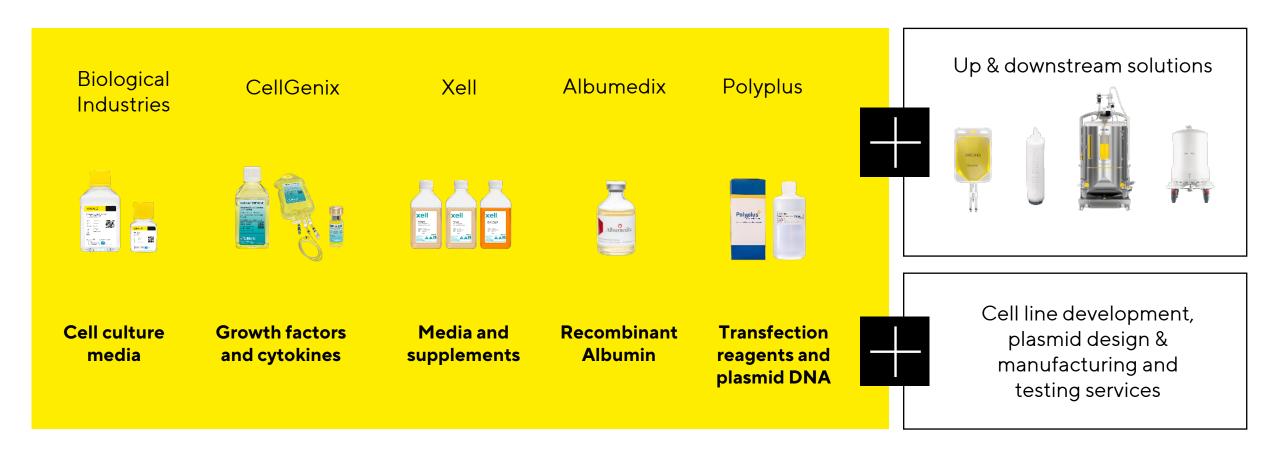
Regulation under development

Manufacturing close to patients



1 GlobalData, October 2023, CGT = Cell & Gene Therapies

Creating a technology platform for cell and gene therapy applications





Resilient global setup, well prepared for further growth



Customer proximity



Redundant capacity



Operational excellence



Global resilience



Songdo, South KoreaMedia, bags, filtration, labs, training



Göttingen, GermanyFilter production, product development



Freiburg, Germany
Cell culture components

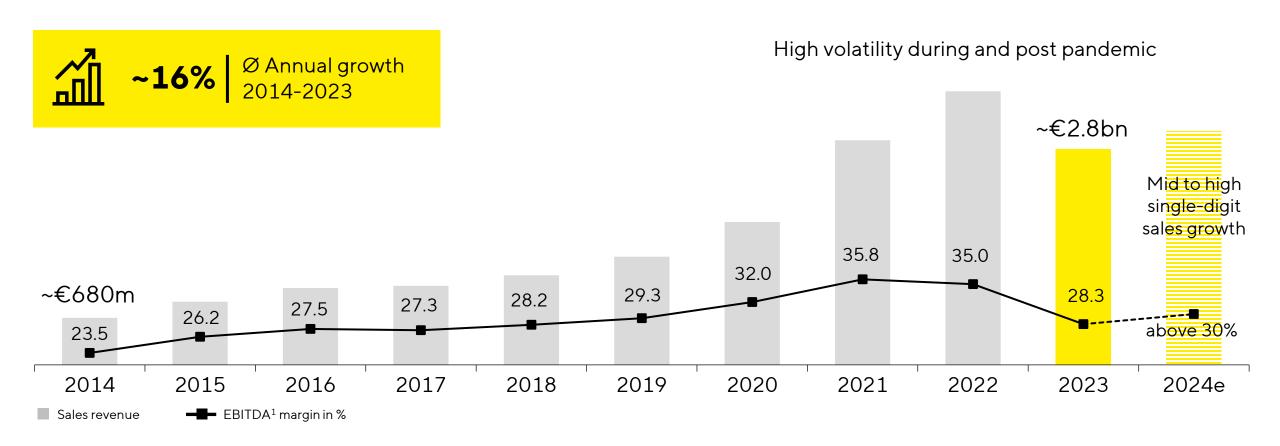


Aubagne, FranceClean rooms, product development, labs



Expansion of production and R&D capacities; selected current projects

Strong financial track record; profitable growth expected for 2024



Sales CAGR for continued operations, in constant currencies; EBITDA margin excluding extraordinary items



Ambitious midterm targets backed by strong market fundamentals



Growing and aging world population



Expanding market for biopharmaceuticals incl. biosimilars



Dynamic market segment of **novel therapies**



High need for innovation



Clear **strategy**



Competitive, integrated **product portfolio**



Strong, customer-focused **team**



Powerful and resilient production and R&D infrastructure



Low to mid-teens range

avg. annual sales growth¹

above 35%

Underlying EBITDA margin

1 Thereof around a fifth through acquisitions



Broad and ambitious sustainability agenda in implementation

2030 mid-term targets
~10% Zero 100%

av. reduction of CO_2 eq emission avoidable¹ emissions intensity p.a. (Scopes 1-3) in Scopes 1 and 2

electricity from renewable sources

>75% revenue with products designed

revenue with products designed according to circularity principles²

Zero
operational waste to landfill

av. annual Employee Net Promoter Score

35

2045 long-term target Net-zero emissions Decarbonization of the entire supply chain in collaboration with suppliers and customers

1 Process emissions from membrane manufacturing are currently considered unavoidable based on available technology, 2 Including product and transport packaging



Simplifying Progress

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