

# Simplifying Progress

Welcome to Sartorius
July 2024



### Our ambition: Better health for more people

Mission

We empower scientists and engineers to simplify and accelerate progress in life science and bioprocessing, enabling the development of new and better therapies and more affordable medicine.

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 in 2023 numbers



1 Underlying EBITDA margin

### 14,500 employees united by strong values

### Sustainability

Growing profitably and acting responsibly towards all stakeholders

### **Openness**

Driving change and progress internally and externally

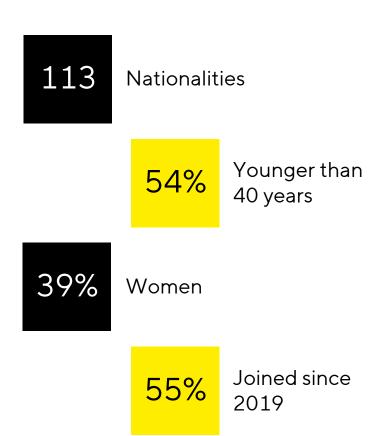
### Enjoyment

Working in an energetic and rewarding environment







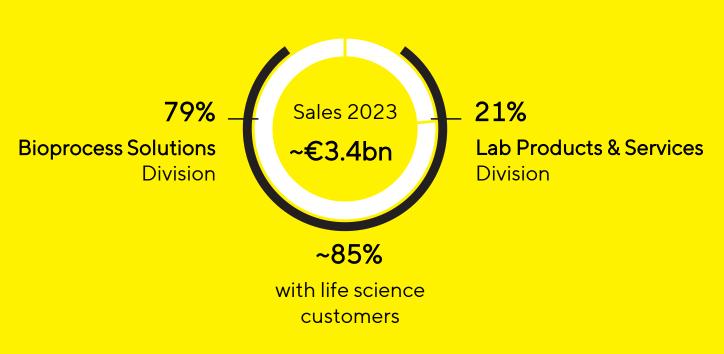




### Two divisions with a clear focus on the life science industry

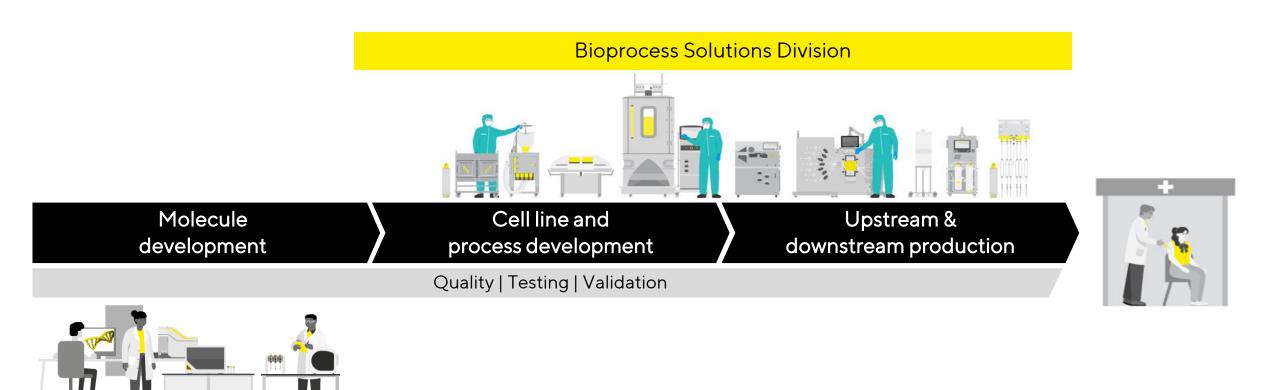
Offers a wide array of innovative technologies for the manufacture of biopharmaceuticals and vaccines as well as cell and gene therapeutics







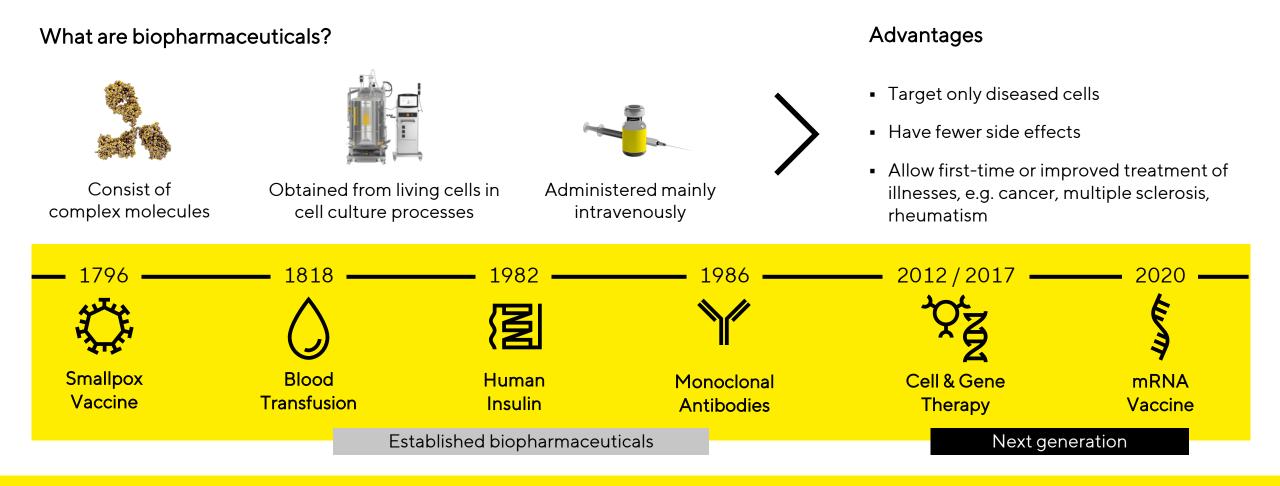
### Enabling the discovery and production of biopharmaceuticals





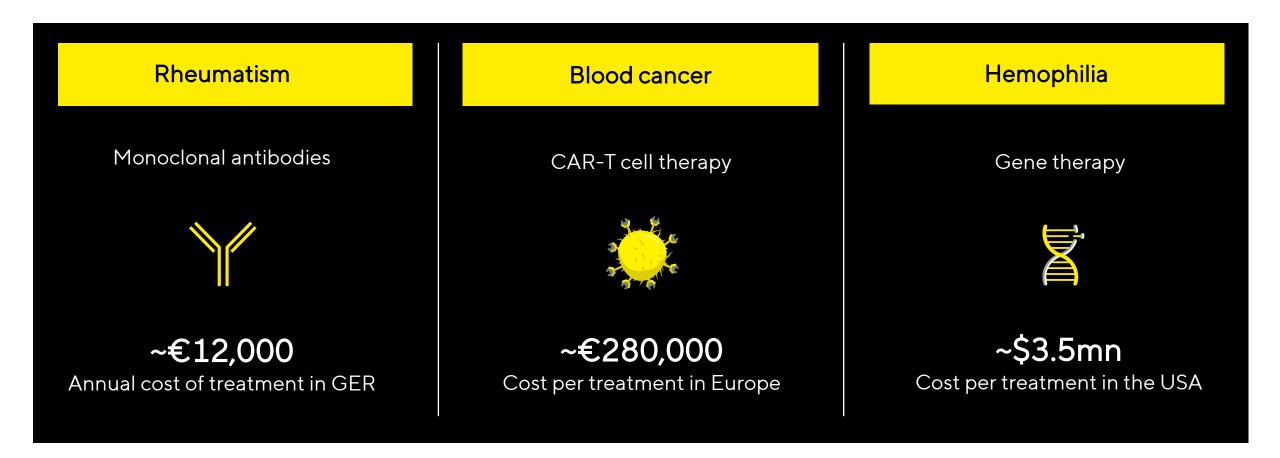
Lab Products & Services Division

### The promises of biologics: From established to new concepts



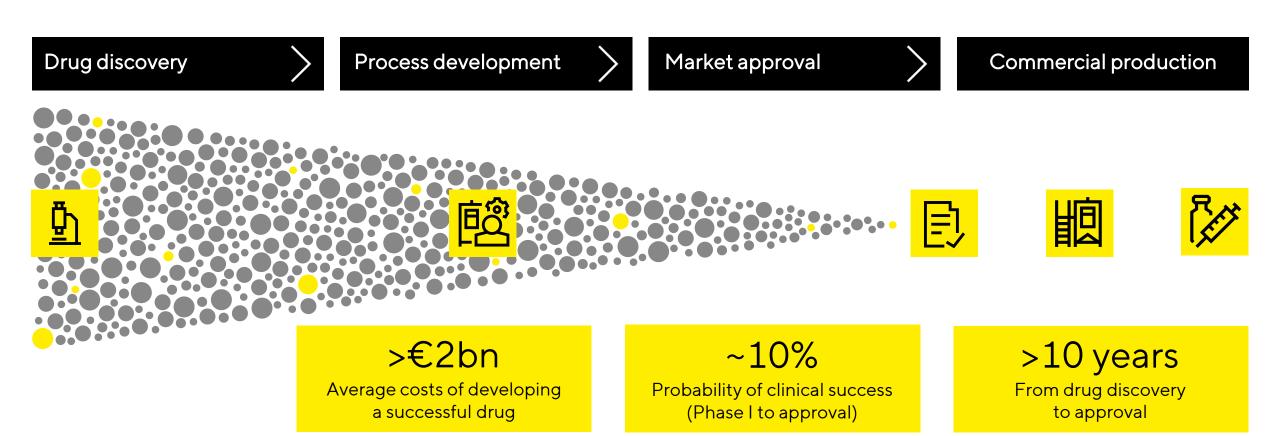


### Many biotech medications are highly effective, but very expensive





## Only one out of 10,000 new drug candidates reaches the market



Schematic example of biologic drug discovery with data from the Association of the British Pharmaceutical Industry



### Helping researchers in the labs to accelerate drug discovery



# Our ambition Reduce costly trial & error



#### Our solutions

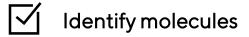
Powerful bioanalytical tools and lab essentials



Understand diseases







Develop new drugs



Live cell analysis



Pipetting



Cell characterization



Weighing



Protein analysis



Cell selection



Filtration



Water purification



# Once discovered also the manufacture of biologics remains 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 & filling filtration tration & filtration centrifugation preservation tography



### Helping customers to reduce their environmental footprint



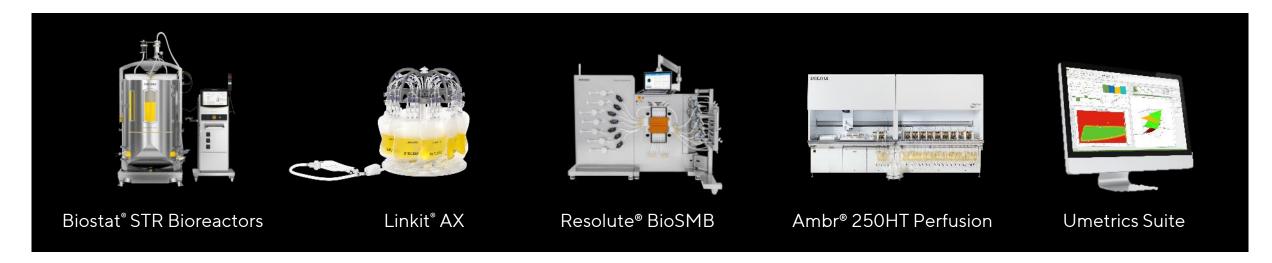




Data analytics



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





### Cell and gene therapies: New modalities, new challenges

**New Vaccines** 



#### Next generation biopharmaceuticals

Viral Vectors mRNA Stem Cells

DNA

6,000+

Exosomes

Innovative treatments for patients

Candidates in development<sup>1</sup>

Approved therapies worldwide



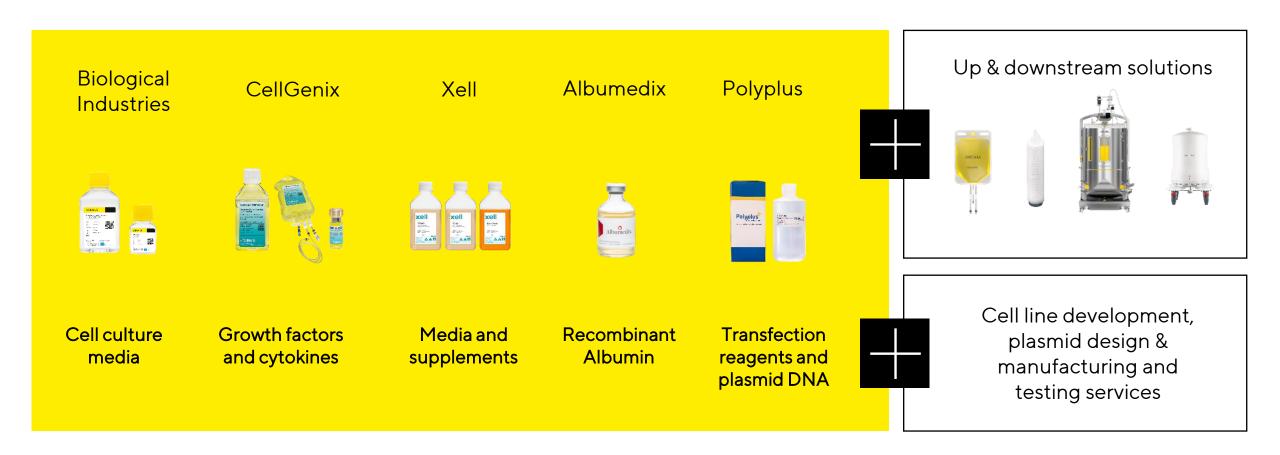
#### Enabling CGT: High need for innovation

- Robustness of production process
- Yields, productivity, cost-per-dose
- Time-to-market
- Regulation under development
- Manufacturing close to patients



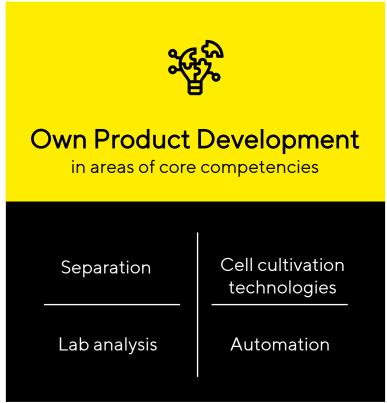
1 GlobalData, October 2023, CGT = Cell & Gene Therapies

## Creating a technology platform for cell and gene therapy applications

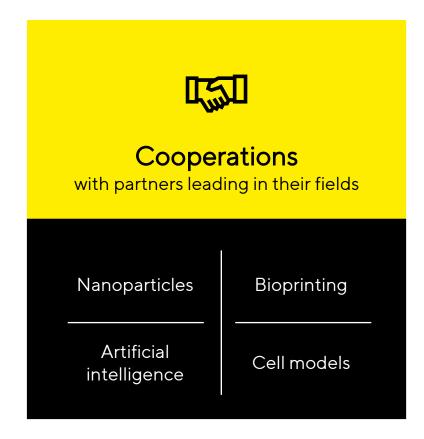




### How we innovate



Acquisitions of complementary technologies Media & reagents Chromatography Bioanalytical instruments



Recent focus; selected projects

### Resilient global setup, well prepared for further growth



Customer proximity



Redundant capacity



Operational excellence



Global resilience

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



Ann Arbor, Michigan, USA
Bioanalytical products & services



Göttingen, Germany Filter production, product development



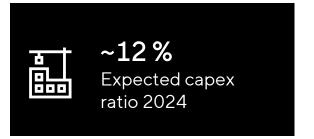
Songdo, South Korea Media, bags, filtration, labs, training



Aubagne, France
Clean rooms, product development, labs

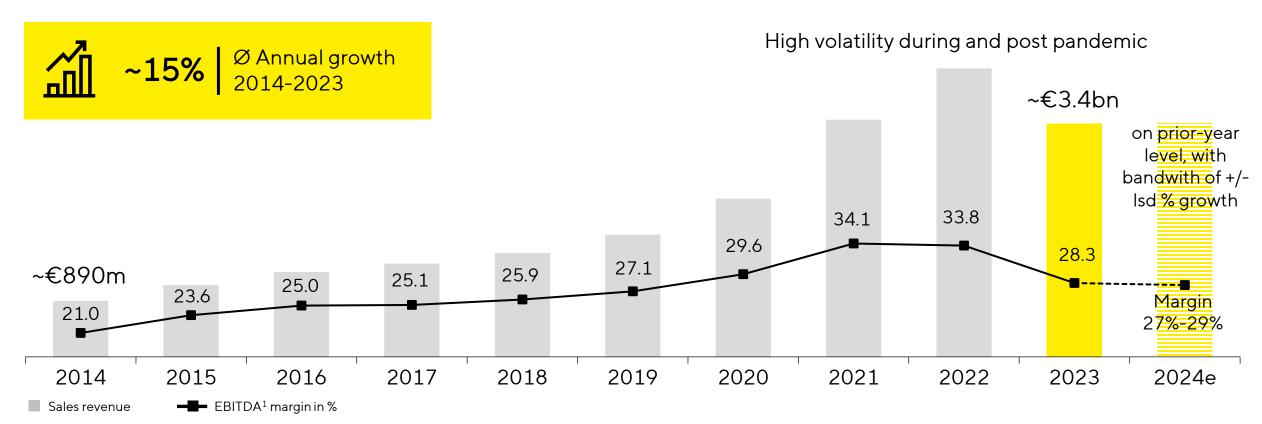


Freiburg, Germany
Cell culture components





# Strong financial track record; profitable growth



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 double-digit avg. annual sales growth<sup>1</sup>

~34%

Underlying EBITDA margin

1 Thereof around a fifth through acquisitions



### Broad and ambitious sustainability agenda in implementation

2030 mid-term targets

~10%
av. reduction of CO<sub>2</sub>eq emission intensity p.a. (Scopes 1-3)

Zero
avoidable¹ emissions in Scopes 1 and 2

Zero

35

operational waste to

landfill

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

av. annual Employee
Net Promoter Score



revenue with products designed

according to circularity principles<sup>2</sup>

# Simplifying Progress

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