



sartorius stedim  
biotech



## Sartorius Stedim Biotech Company Presentation

turning science into solutions

## Contents

1



### **A Profile of Sartorius Stedim Biotech**

2

Total Solution Provider

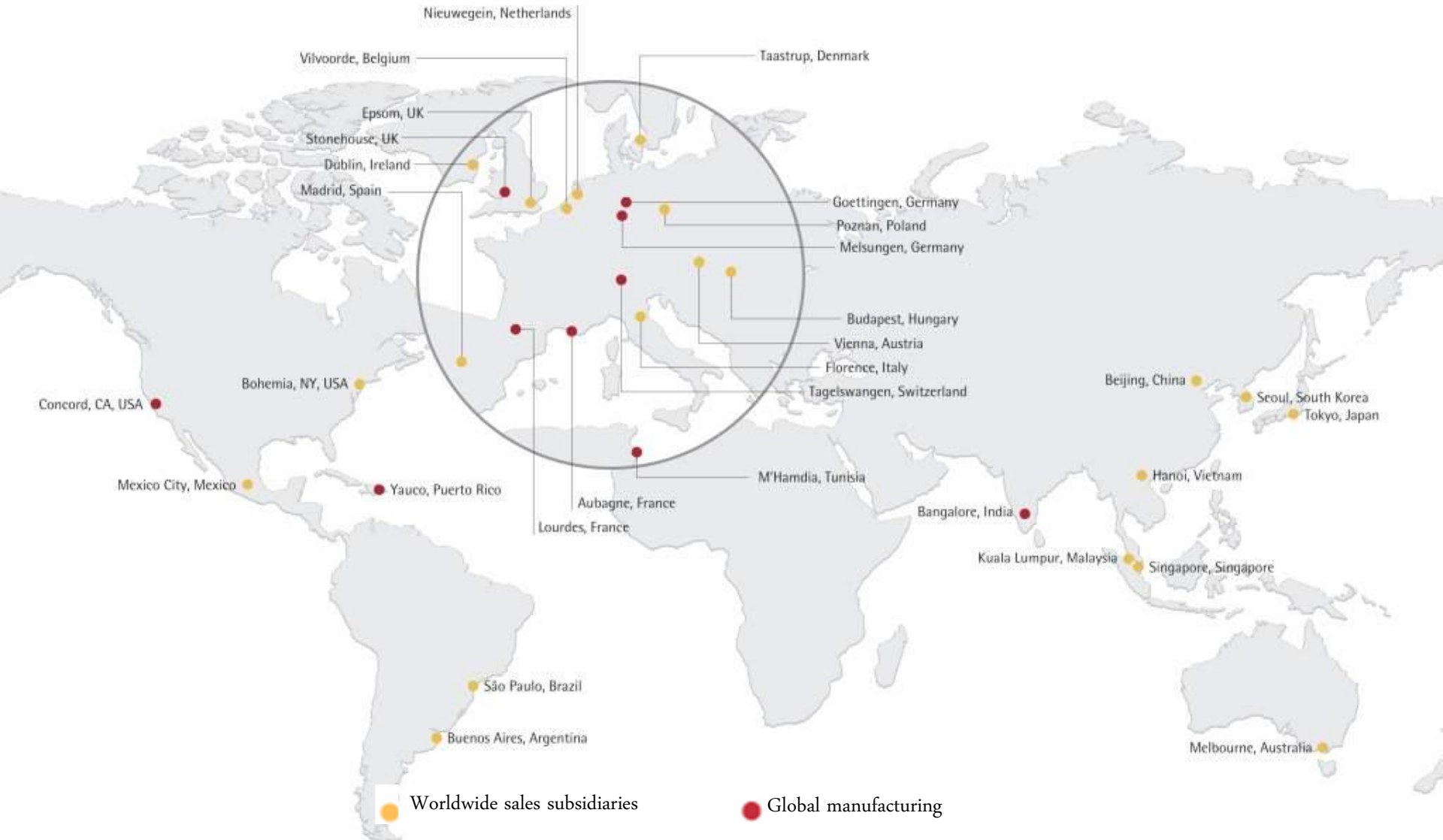
3

Our Technologies

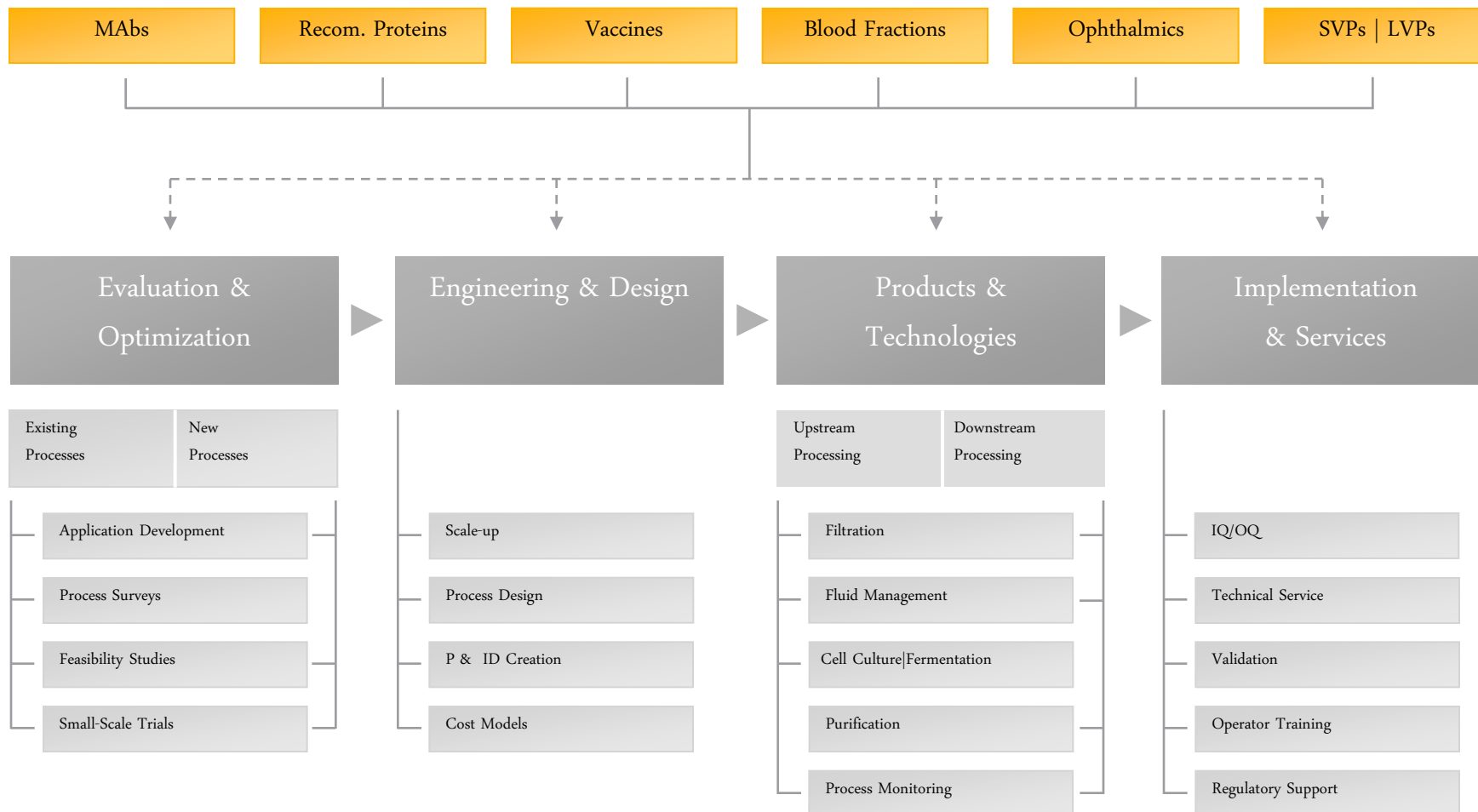




## At Home Worldwide



## Total Solution Provider Along Our Customer's Process Chain





## The Widest Product Portfolio Along Biopharma's Process Chain



Preparation



Virus Inactivation



Sterile Filtration



Storage



Seed Bioreactor



Bioreactor



Bioreactor Sampling



Freeze-Thaw Bags

### Media Preparation

### Fermentation | Cell Culture



Storage



Monitoring & Control



Preparation



Storage



Sterile Filtration



Crossflow Volume Reduction | Recirculation



Cell Removal | Clarification

### Buffer Preparation

### Cell Harvesting



Crossflow Concentration | Diafiltration



Affinity Chromat. Capturing Step



Low pH Virus Inactivation



Polishing 1 | Polishing 2



Virus Filtration



Crossflow Buffer Exchange



Sterile Filtration



Form and Fill | Controlled Freeze-Thaw System



### Purification



## Our Portfolio

Filtration

Fluid  
Management

Fermentation

Purification

Integrated  
Solutions

Service





## Filtration Technologies



- Prefiltration
- Bioburden reduction
- Sterile filtration (Liquid | Air | Gas)
- Mycoplasma removal

## Product Examples Filtration



Membrane Filter Capsules



Membrane Filter Cartridges



Sartochek® 4



## Fluid Management Technologies



- Mixing, storage and transportation
- Sterile connectors and disconnectors
- Freeze & thaw systems
- Aseptic transfer systems
- Drug delivery & parenteral nutrition

## Product Examples Fluid Management



OPTA® SFT



Flexboy®



Celsius®-Pak



Flexel® 3D Bag and Palletank® BioWelder® TC





## Fermentation Technologies

- Single-use bioreactors
- Reusable bioreactors
- Automation | Control
- Systems and sensors for online monitoring of manufacturing processes
- Feed | Gassing systems



## Product Examples Fermentation



BIOSTAT® RM



BIOSTAT® Qplus



BIOSTAT® STR

## Purification



- Cell harvesting
- Crossflow filtration  
(MF | UF | DF)
- Membrane chromatography
- Viral Clearance

## Product Examples Purification



Sartobind Q Single  
Sep® nano



Virosart® CPV



SARTOFLOW® Advanced

## Integrated Solutions



- Standardized platforms for selected process steps
- Preconfigured, combinable single-use components perfectly matched to one another
- Supports fast, flexible and cost-efficient processes at customers' facilities

## Services



- Application development
- Process surveys
- Feasibility studies & small-scale trials
- Cost modeling
- Technical service
- Validation
- Operator training
- Regulatory support





sartorius stedim  
biotech



Thank you very much for your attention