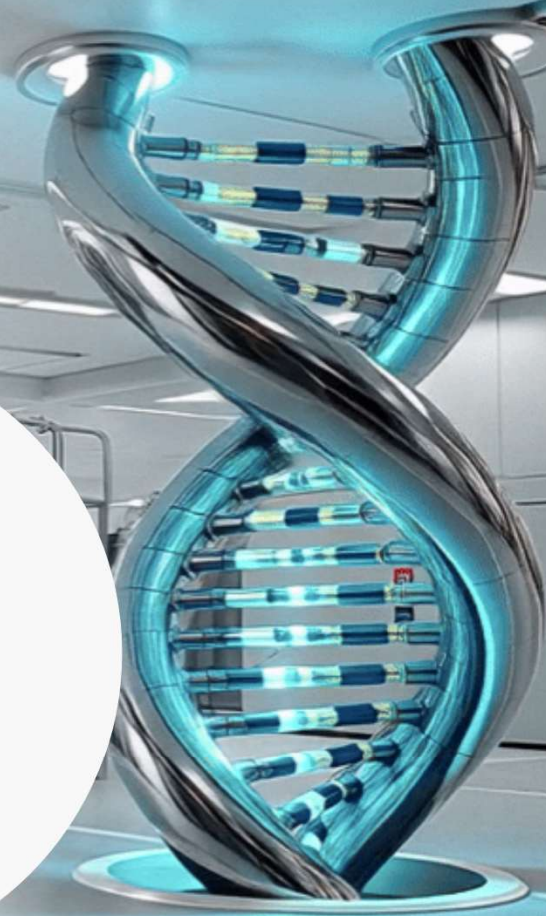




Making a Difference

Enabling Innovation in Vaccine Manufacturing

Glatt. Integrated Process Solutions.



Today's Reality

Vaccines embody hope and resilience. Yet, the path from discovery to delivery faces steep hurdles

- **scaling complexity, high costs, and fragile supply systems.**



Escalating production costs and shrinking margins



Slow, high-cost legacy manufacturing systems



Limited flexibility from single-product facilities



Extended scale-up timelines delaying market response



COVID-19 exposed critical supply vulnerabilities

Enabling Innovation in Vaccine Manufacturing

Reimagining Vaccine Manufacturing

Future-ready vaccine manufacturing demands integration of advanced processes, partnership synergy, and smart investment. The goal: to make **quality vaccines accessible, faster, and more cost-effective worldwide.**

01

Shift toward flexible, modular biomanufacturing platforms

02

Strengthen collaboration among technology solution providers and DCVMN Manufacturers

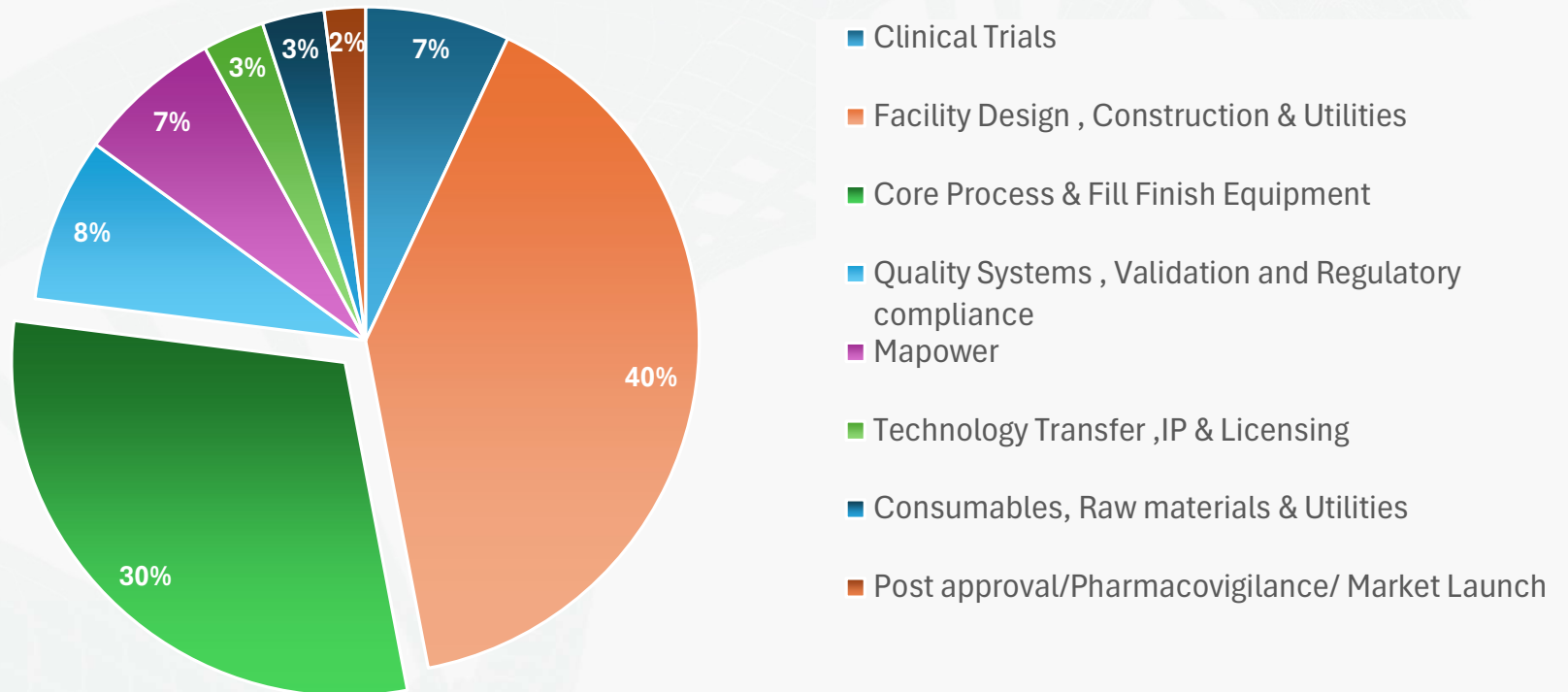
03

Optimize production with digitalization and process automation

04

Promote sustainable, compliant stainless-steel platforms for scale and quality

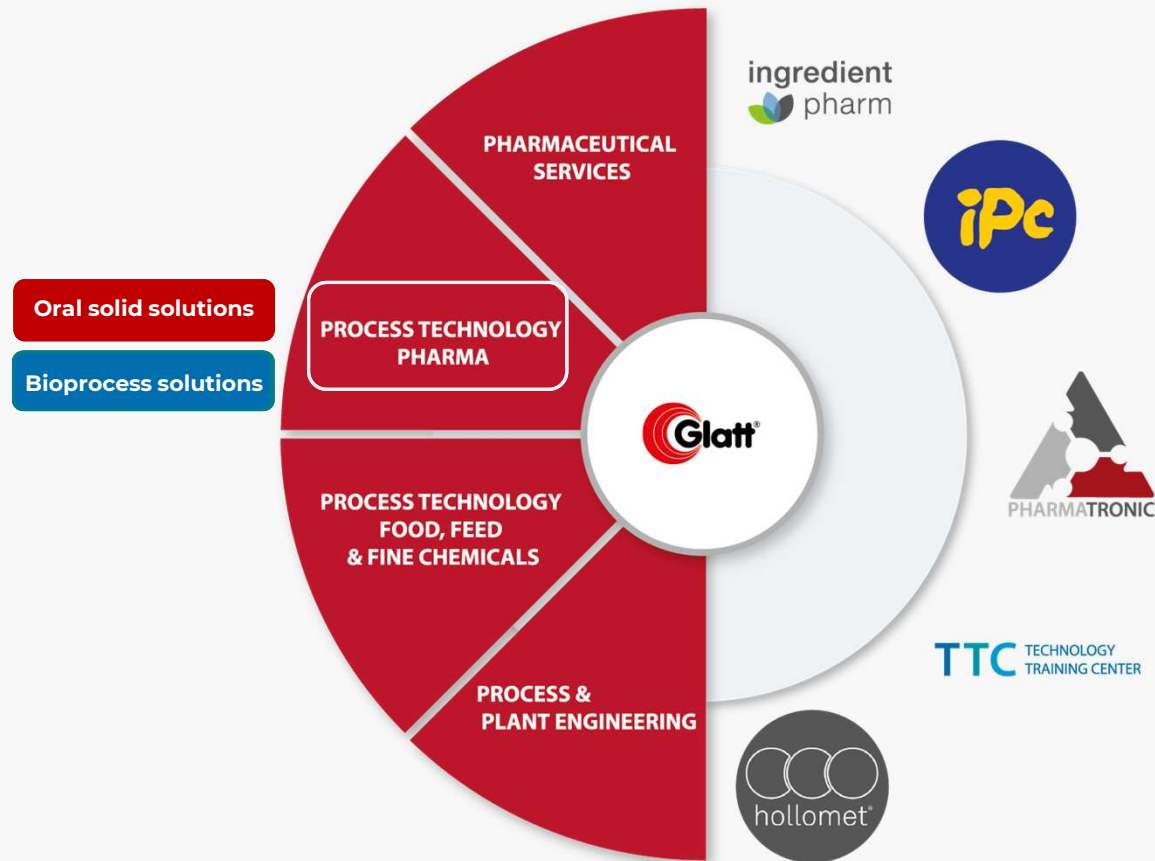
Cost Drivers for vaccine manufacturing



Scientific breakthroughs achieve true impact only when supported by **agile, affordable, and scalable production ecosystems.**

The Glatt Value Chain

Integrated Process Solutions.



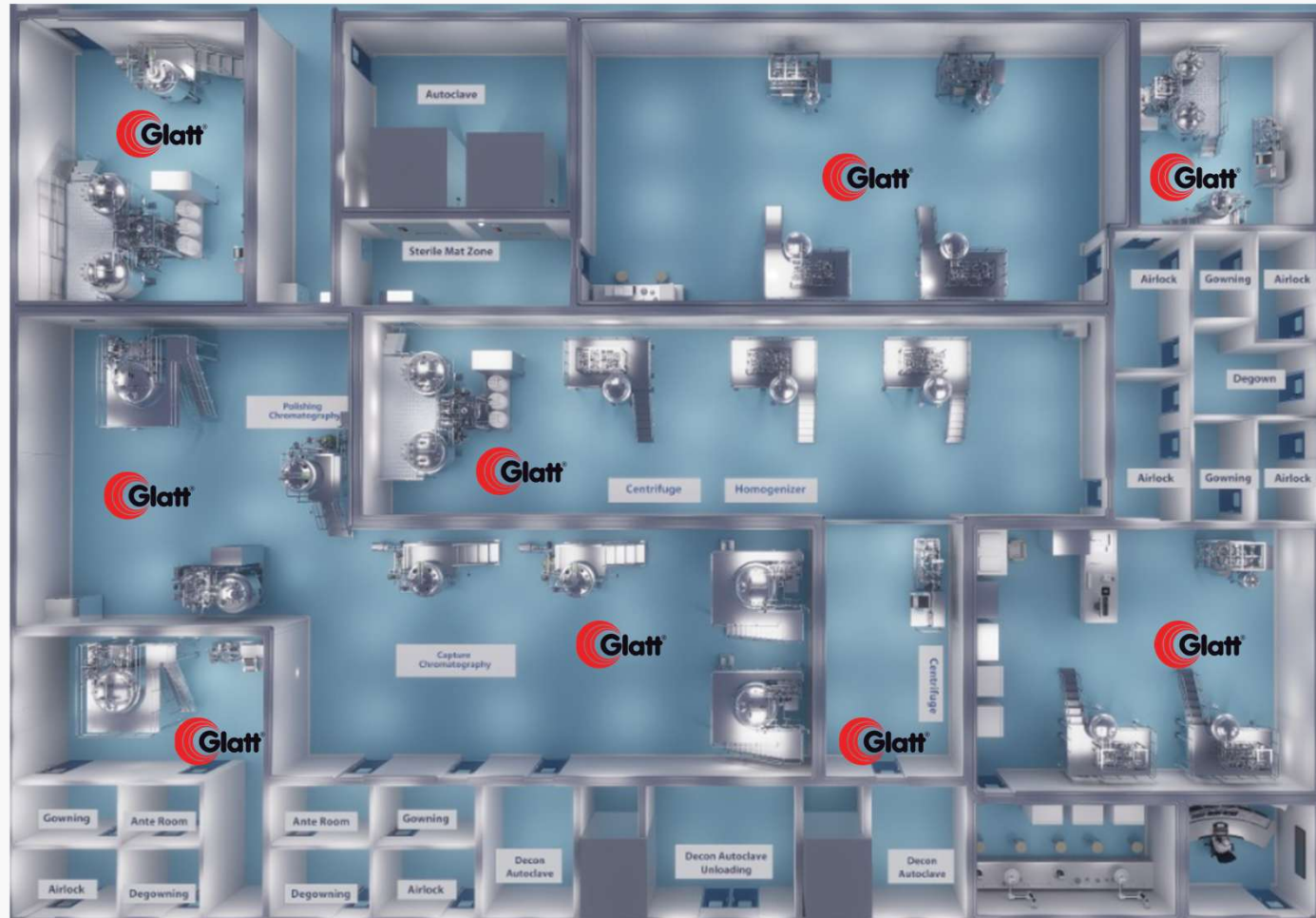
The Glatt Value Chain

Global reach, local impact



Technology for tomorrow

Our Value Proposition



Technology for tomorrow

Our Value Proposition

Multi Use Cell Culture Bioreactors

Microbial Fermenters

(Liter to lacs of liters)

Virus Inactivation Systems

Media, Buffer prep & Hold

Blending Process Vessel

Depth Filtration Skid

Tangential Flow Filtration System (Crossflow Systems)

Filtration Systems

3rd Party Integration

(e.g.: Centrifuge)



Process & Plant Automation



Technology for tomorrow

Scalable, flexible & capital efficient solutions



- Mobile reactors allows equipment reconfiguration based on pipeline needs in Product development lifecycle
- Scale expandable with minimal infrastructure changes
- Reduced Footprint
- Automation and Data Analytics ensures process integrity and compliance

**Stainless platform remains an industry standard for large scale
Vaccine Manufacturing**



Technology for tomorrow

Centre of excellence @ Pune, India



Clean bioprocess
zone



100% process
contact within
special zone



Dedicated piping
prep area

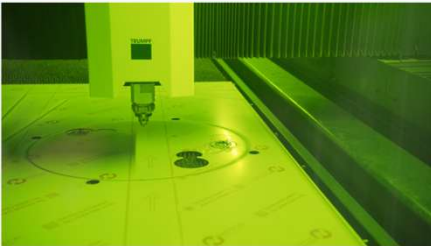


Specialized
manufacturing
zone

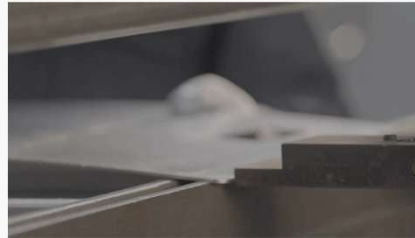


Distinct FAT zone for comprehensive
equipment/system validation

Laser cutting



CNC press brake



CNC orbital welding machine



CNC tube bending machine



Automatic polishing shop



Pickling & passivation shop





Center of excellence @ Pune, India

Compliance & documentation



Underwriters
Laboratories



Risk assessment performed by CFT using FMEA tool for design, manufacturing,
automation

[confidential – For internal use only]



Global Customer-First Service Philosophy

Service & continuous support



End-to-end project involvement from conception to commissioning



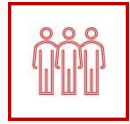
24/7 Online Support & Equipment Lifecycle Management



Capability enhancement program (CEP)



Comprehensive contracts for preventive maintenance & breakdown management



Dedicated teams for spare parts & retrofits for sustained performance

Our service excellence is driven by **highly trained personnel** strategically **positioned worldwide**, ensuring **prompt support** through comprehensive maintenance contracts

Together, Redefining Tomorrow

As a global technology solutions provider with significant investments and infrastructure in a DCVMN country, Glatt remains true to its culture of innovation and is eager to collaborate with vaccine manufacturers across DCVMN nations and share their mission to deliver **safe and affordable vaccines for all.**





LIMITLESS

Solids, Bio, & Beyond...

Step into the world of possibilities!

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