

4 Key Challenges Facing Life Sciences Manufacturers



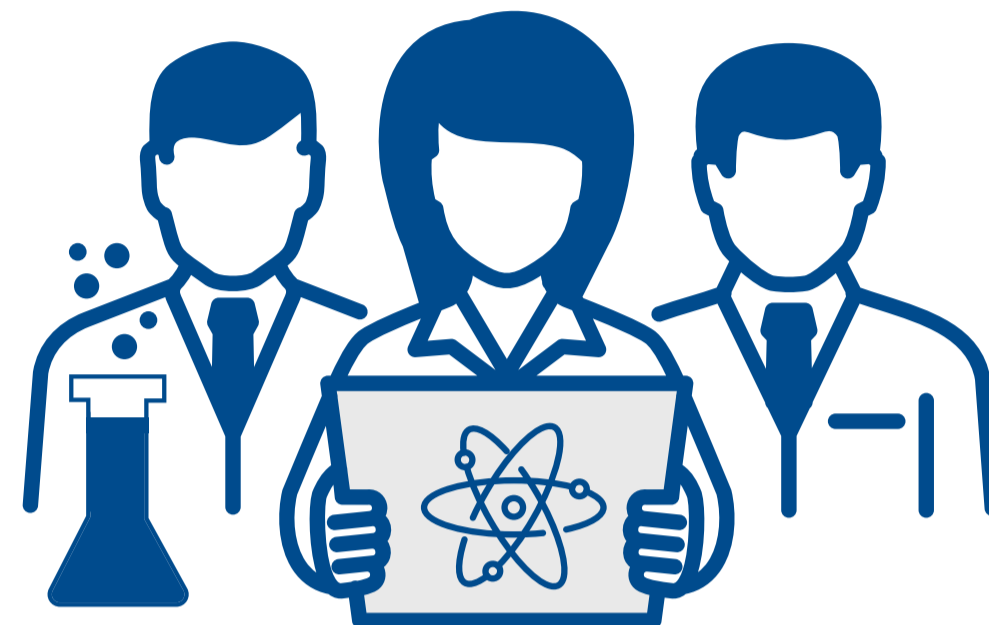
Pipeline Acceleration

- **Faster** new product introductions / tech transfer
- **Flexible** processes and recipes
- **Modular** building blocks
- **Consolidated** lifecycle data



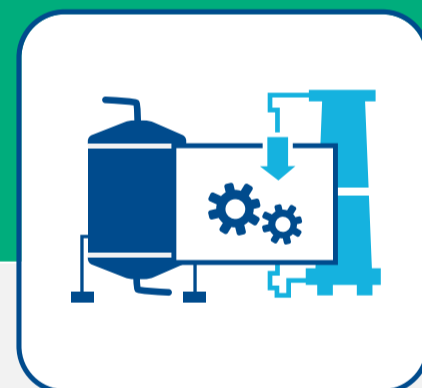
Get new products to market faster

Make different products quickly



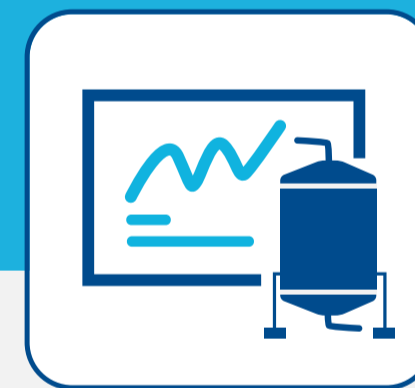
Release products faster

Supply products in full on time



Flexible Manufacturing

- **Fast** change over
- **Seamless** orchestration of equipment, people, materials
- **Integrated** control strategy definition and execution



Operational Integrity

- **Shorter** production set-up
- **Reliable** equipment monitoring
- **Predictive** asset management
- **Adaptive** operator training
- **Optimized** facility scheduling



Real-Time Release

- **Consolidated** "control tower" views
- **Integrated** in-line testing
- **Live** exception resolution
- **Improved** quality attribute control
- **Easy** process analysis

