quantiphi
Solving What Matters

Gen AI-powered Manufacturing

Challenges

Demand Forecasting:
Majority of manufacturers struggle with incorporating inventory levels into demand forecasting and production planning.

Workflows/ Operations:
Most of manufacturers face operational inefficiency and low margins due to a shortage of skilled workforce.

Poor Inventory Management:
Manual stock checks result in errors, shortages, excess, and unidentified losses.

Batch Recalls:
Regulatory non-compliance accounts for a significant proportion of pharmaceutical product recalls, a significant issue for life sciences companies.
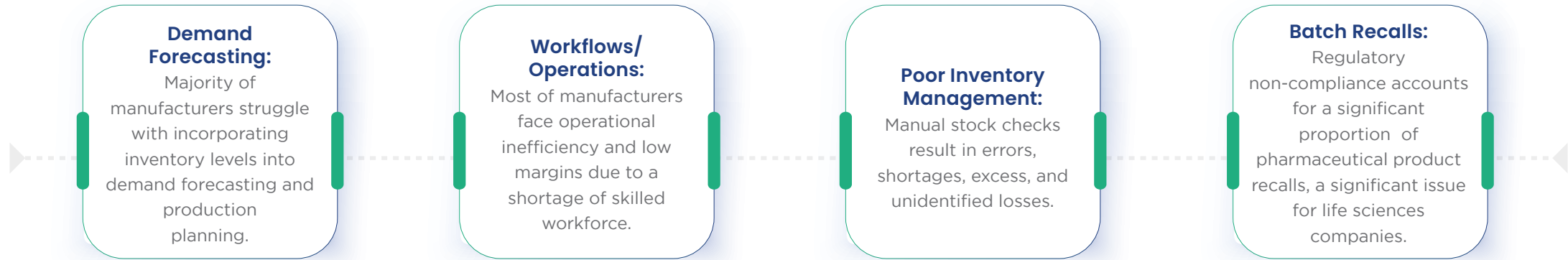
Solutions

Quality and Delivery Time Management:
Baioniq-enabled platform analyzing intricate manufacturing data, identifying anomalies, reducing defects, accurately forecasting demand, and streamlining production schedules for on-time delivery.

Out of Specification Identification:
Baioniq-enabled platform instantaneously and proactively analyzes production data to detect deviations from set specifications, facilitating early intervention and quality assurance.

Supply Chain Optimization:
Baioniq's GenAI-driven predictive analytics can optimize the life science supply chain by forecasting demand, reducing inventory costs, and ensuring the timely delivery of critical medical supplies and pharmaceuticals. Furthermore, it helps track and manage the inventory of manufactured products, such as vaccines, biologics, and gene therapies.

Business Impact

Reduced Administrative Burden & Costs:
The demand forecasting engine combined with Baioniq, accompanied by interactive dashboards offers potential long-term cost savings

Faster Inspection Process:
Baioniq's advanced AI model achieves a 95% accuracy rate, leading to quicker quality inspections and reduced manual labor requirements.

Predictive Maintenance and Demand Forecasting:
Baioniq's predictive analytics capabilities can predict equipment failures and maintenance needs in manufacturing facilities, reducing downtime and ensuring a stable supply chain while also improving demand forecasting by analyzing manufacturing data enabling better production planning.