

# Business Insights & Management Impact

How the Power BI dashboard supports faster decisions and operational control in pharmaceutical manufacturing

## **Purpose of this section**

This section explains the business importance of the dashboard and how it supports management in monitoring performance and making informed decisions, without going into technical details.

# Management Challenges Before Dashboard Implementation

- Delayed visibility of production performance
- Manual and time-consuming KPI reviews
- Difficulty identifying high-loss stages early
- No single consolidated view for management
- Reactive decision-making instead of proactive control

# How the Dashboard Enabled Better Decisions

- Real-time visibility of production KPIs
- Instant comparison across stages, shifts, and products
- Clear identification of bottlenecks and loss areas
- Faster root-cause analysis using drill-downs
- Data-driven discussions during review meetings

## Key Insights Derived from the Dashboard

- Coating stage identified as highest contributor to process loss
- Compression stage showed longest average process time
- Morning shift consistently delivered higher output
- A small number of products contributed to the majority of total losses
- Seasonal trends visible in output and loss patterns

# Operational Improvements Supported by Insights

- Focused improvement actions on high-loss stages
- Better shift planning based on performance data
- Improved monitoring of yield and process efficiency
- Faster escalation of deviations
- Stronger coordination between production and management

# Management-Level Benefits

- Faster production review cycles
- Reduced dependency on manual reports
- Improved confidence in data accuracy
- Consistent KPI tracking across time periods
- Single source of truth for operational reporting

# Designed for Real Pharmaceutical Manufacturing Workflows

- Based on actual batch manufacturing data
- Reflects real SAP/ERP production records
- KPIs aligned with daily and monthly review practices
- Suitable for tablet, capsule, and oral solid dosage plants
- Easily scalable to other production lines

# Overall Business Impact

- Improved visibility and control over production operations
- Faster and more confident management decisions
- Better planning and loss reduction focus
- Strong foundation for continuous improvement initiatives

This dashboard bridges the gap between production data and management decision-making.