



Driving Data-Driven Decisions in Manufacturing with Power BI



Client Overview

- ▶ **Company Name (Implementation Partner)** : Tabdelta Solutions
- ▶ **Client Industry** : Manufacturing
- ▶ **Client Location** : Chicago, USA
- ▶ **Client Team Size** : 27 Employees
- ▶ **Project Team Size (Tabdelta)** : 6 Power BI Consultants
(Data Engineers, BI Developers, QA, Project Manager)

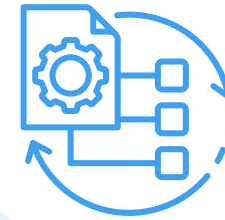


Challenges

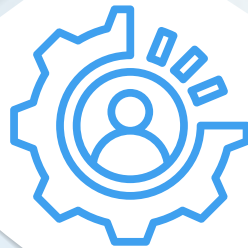
The manufacturing client was struggling with:



Disconnected data sources from ERP, production lines, and sales systems.



Difficulty in identifying bottlenecks in manufacturing workflows.



Limited visibility into production efficiency, downtime, and resource utilization.



Manual Excel based reporting that was time-consuming and error prone.



No real time dashboards for leadership to track KPIs like production yield, machine downtime, and order fulfillment.

Solution:

Power BI Implementation by Tabdelta

Tabdelta Solutions partnered with the client to implement a centralized Power BI reporting and dashboard solution. Key steps included:

1

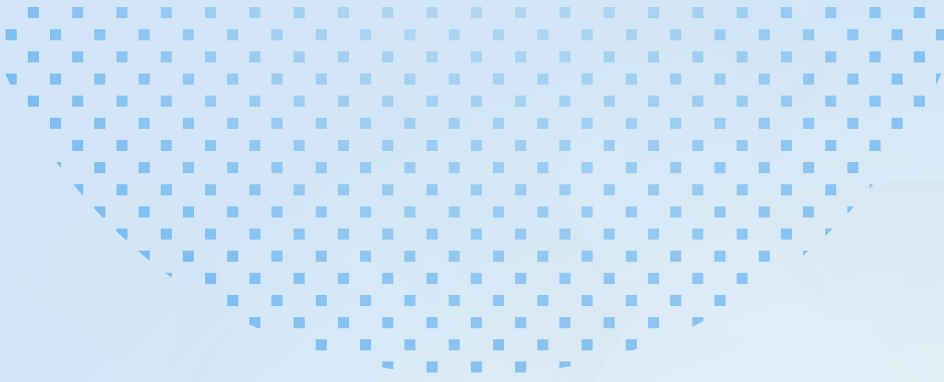
Data Integration

- Connected Power BI to ERP, CRM, and machine level IoT data.
- Automated ETL pipelines for real time data refresh.

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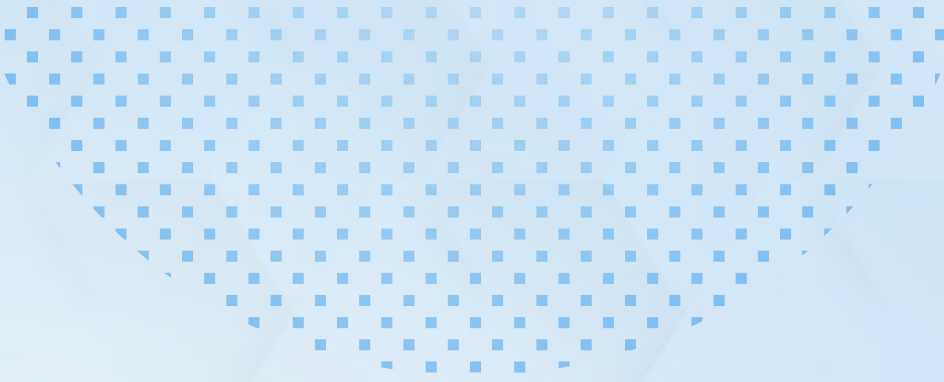
Custom Dashboards

- Production Efficiency Dashboard (machine uptime vs downtime)
- Inventory & Supply Chain Dashboard (stock levels, procurement timelines)
- Sales & Order Fulfilment Dashboard (lead times, delayed orders)



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Role Based Access

- Managers accessed plant wide dashboards.
 - Operators viewed machine level performance metrics.
 - Executives got high level KPIs with drill downs.
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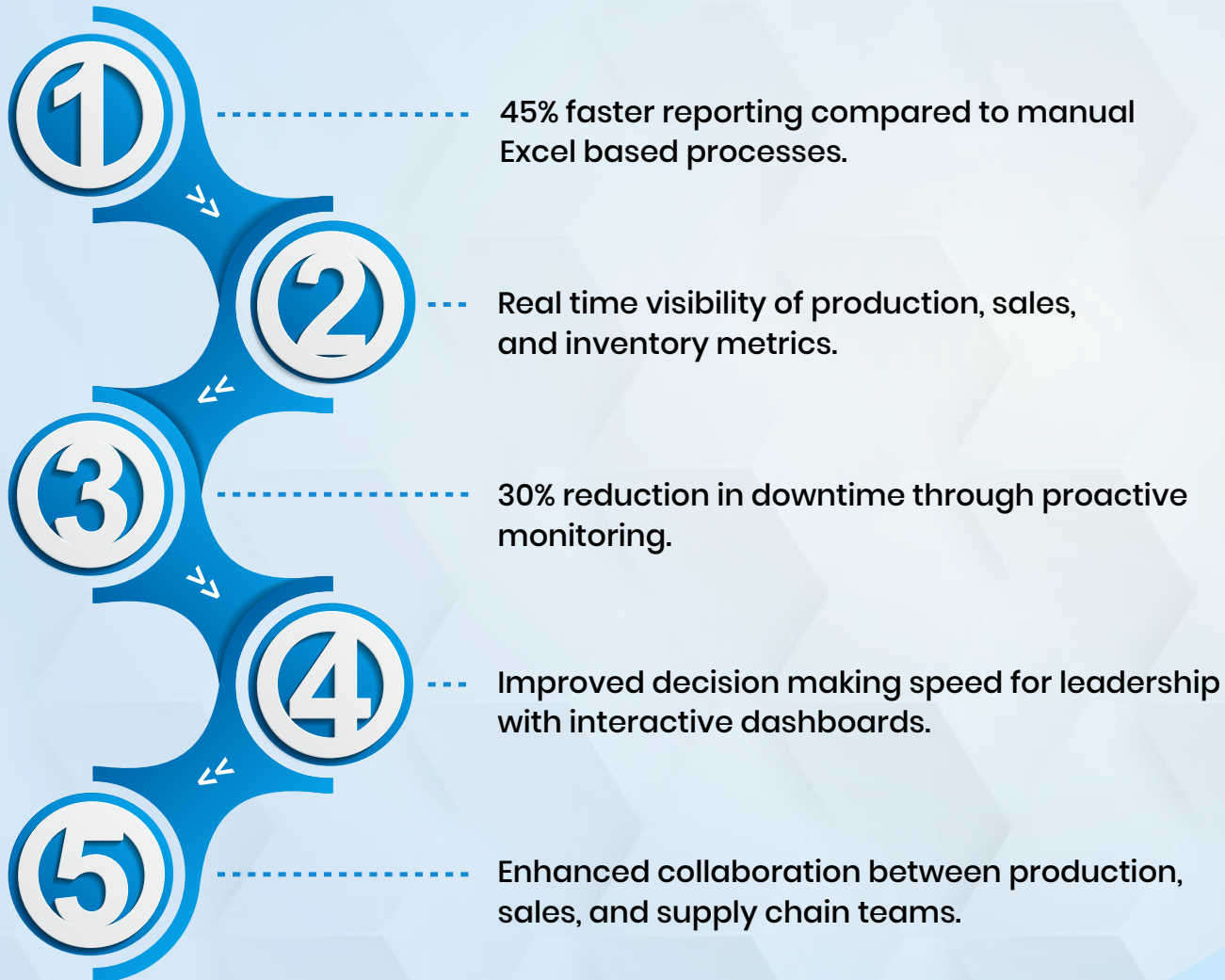
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Predictive Insights

- Used Power BI's integration with AI for forecasting production demand.
- Identified high maintenance equipment to reduce future downtime.

Results & Impact

After Power BI implementation, the client achieved:



Future Roadmap

1

Integration with advanced IoT sensors for predictive maintenance.

2

Expansion of Power BI dashboards for financial performance and cost optimization.

3

AI-driven analytics for demand forecasting and wastage reduction.



Key Takeaway

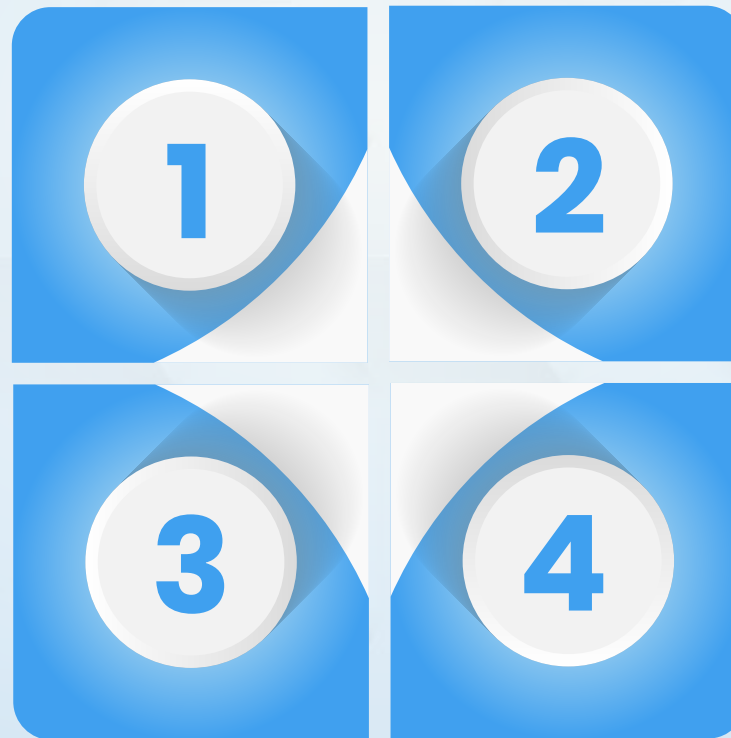
By leveraging Power BI, Tabdelta Solutions enabled the manufacturing client to transform raw data into actionable insights, resulting in higher efficiency, reduced downtime, and improved profitability.



Want to Optimize Your Manufacturing Operations with Power BI?

Tabdelta Solutions helps manufacturing companies harness the power of data visualization and real time dashboards to improve efficiency and decision making.

Centralized Reporting



Real-Time Dashboards

Predictive Insights
for Manufacturing

End-to-End BI
Implementation

Contact Tabdelta Solutions

• Today

To Unlock The Full Potential Of Your Manufacturing Data With Power Bi.

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