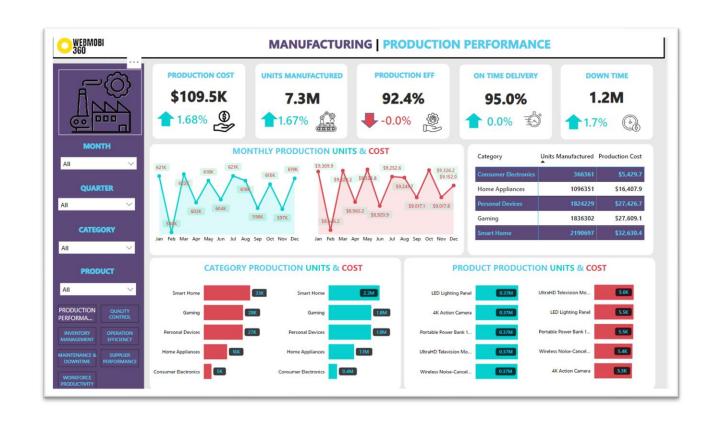


OBJECTIVE OF THE PROJECT

- Provide real-time insights into manufacturing processes.
- Monitor production performance, quality control, inventory, and workforce productivity.
- Enable data-driven decisions to enhance operational efficiency.

KEY METRICS IN THE DASHBOARDS

☐ Units Manufactured ☐ Production Cost ☐ Production Efficiency ☐ On-Time Delivery □ Downtime ☐ First Pass Yield ☐ Defect Rate ☐ Inventory Levels ☐ Workforce Productivity



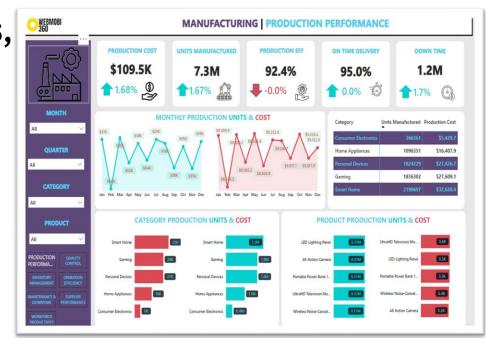
PRODUCTION PERFORMANCE DASHBOARD

❖Purpose:

Track the overall manufacturing process, including units produced, production costs, and efficiency.

Key Insights:

- √ 7.3M units manufactured, 92.4% production efficiency.
- ✓ Production cost trends over months (e.g., peaks in specific months).



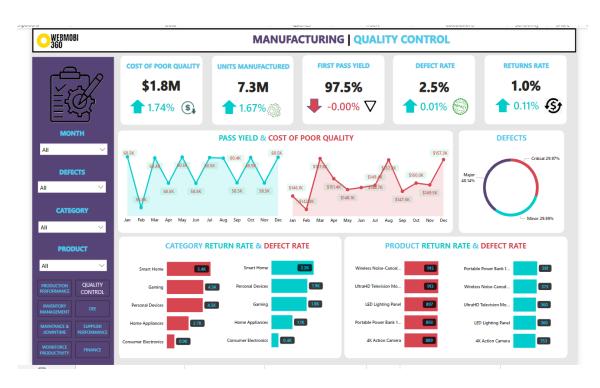
QUALITY CONTROL DASHBOARD

Purpose:

Monitor product defects and return rates.

Key Insights:

- ✓ Defect rate: 2.5%, First Pass Yield: 97.5%, Return rate: 0.11%.
- ✓ Focus areas: Gaming devices and Home Appliances had the highest defect rates



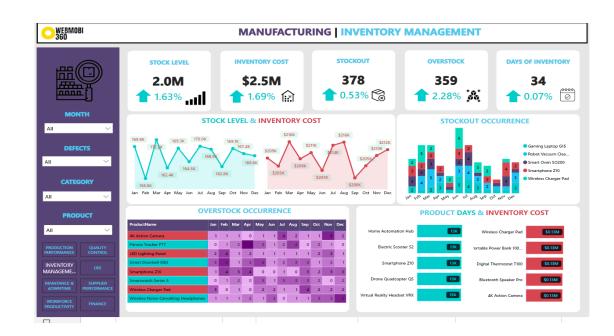
INVENTORY MANAGEMENT DASHBOARD

❖Purpose:

Ensure optimal stock levels, avoid overstocking or stockouts.

***Key Insights:**

- ✓ Inventory cost at \$2.5M with a stockout rate of 0.53%.
- ✓ Overstock and days of inventory tracked across months.



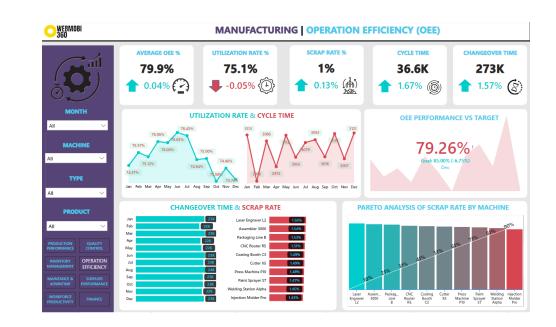
OPERATIONAL EFFICIENCY DASHBOARD

❖Purpose:

Evaluate the performance of different machines and manufacturing lines.

Key Insights:

- ✓ Average OEE of 79.9%, with a goal of 85%.
- ✓ Key areas of improvement: Scrap rate, cycle time, and changeover time.



MAINTENANCE & DOWNTIME DASHBOARD

❖Purpose:

Reduce downtime and track maintenance efficiency.

*****Key Insights:

- ✓ Downtime was 1.7%, with failures occurring most frequently in specific machines like Cutter X5.
- ✓ MTTR and MTBF metrics.



SUPPLIER PERFORMANCE DASHBOARD

❖Purpose:

Measure supplier reliability based on lead time, defect rate, and on-time delivery.

***** Key Insights:

✓ Top-performing suppliers had 95% on-time delivery with an average lead time of 12 days.



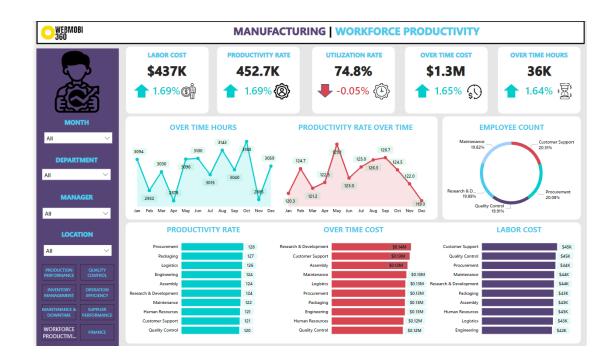
WORKFORCE PRODUCTIVITY DASHBOARD

❖Purpose:

Measure labor productivity, overtime costs, and workforce utilization.

*****Key Insights:

- ✓ Workforce productivity was steady at 74.8%, with labor costs around \$437K.
- ✓ Overtime trends identified for further analysis.



CONCLUSION

- ✓ The dashboards provide comprehensive insights into the manufacturing process, identifying key areas for cost savings, efficiency improvements, and defect reductions.
- ✓ Data-driven decision-making enables continuous performance improvements.