Challenges Proposed Solutions & Implementation Process Results and Benefits Conclusion 5

We have successfully implemented a comprehensive merchandising solution for Bridgestone, encompassing key functionalities such as Strategic Planning, Supply chain, Profitability by IPC reporting

and RLUP. This integrated solution has enabled Bridgestone to optimize IPC levels, enhance demand forecasting accuracy, streamline allocation processes, and ultimately improve overall operational efficiency

**PPN Solutions** 

## Bridgestone Corp is a tire and rubber products company that develops, manufactures, and markets tires

**About Bridgestone** 

and customer satisfaction.

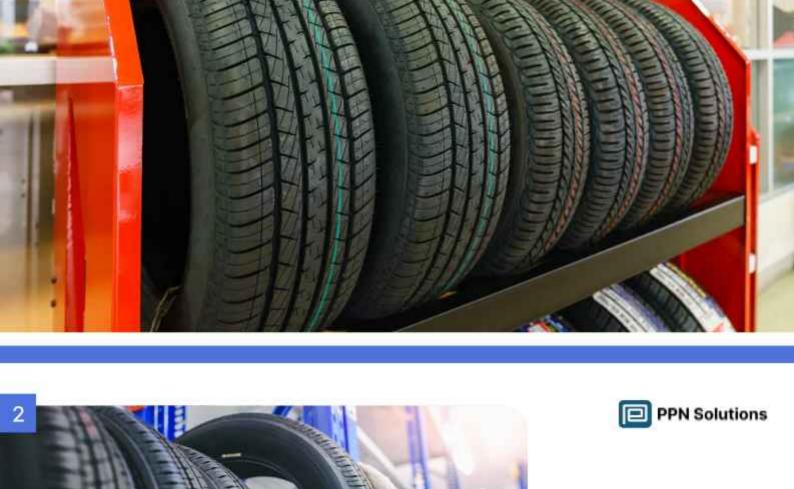
What's Inside

Customer Overview

Overview

extends beyond tires, focusing on contributing to society and improving mobility and lifestyle through continuous advancements and sustainable practices.

and tire tubes, tire raw materials, wheels and accessories, and other tire-related products for passenger cars, construction and mining vehicles, agricultural machinery, trucks, buses & industrial. Its mission



Difficulty in predicting customer demand, resulting in misaligned seasonality of volume and slow & manual processes Profitability by IPC Struggling in taking accurate decisions due to difficulty in analysis of profit & loss, Actuals vs Budget comparison due to lack of proper dynamic dashboarding and reporting.

Absence of a well-defined data model, resulting in unstructured planning and data inconsistencies.

The customer faced significant challenges in identifying the cheapest product due to varying cost calculation rules across regions. This made the process complex, time-consuming, and prone to errors,

as cost comparisons were done manually.

Demand Planning Using ML

conditions

provide.

Purchase Plan

Unstructured Planning

Challenges

Difficulty in Maintaining Prices & Rebates

Challenges in Identifying the Cheapest Product

Demand Forecasting Inaccuracies

Struggling to allocate the missing prices for the IPC combinations

PPN Solutions **Proposed Solutions & Implementation** 

### Starting with a Sales Plan: The process begins with a sales plan, which will be the output of demand planning solution.

also considers delivery times, supplier limits, and stock levels.

step helps the plans stay up-to-date and useful for the business.

Data Integration: Historical data from Board was fed into Azure AutoML.

Forecast Scenarios: Forecast scenarios were run using the trained models...

Model Training: Machine learning models were built, trained, and deployed in Azure.

Result Storage: Results were automatically retrieved and stored in the target Cube within Board.

Sales Team Collaboration: High-level forecasts were reviewed & adjusted by sales team, aligning with market

Granular Forecasting: Board extrapolated high-level data to the product level based on the percentage that users

the business requirement. Creating a New Sales Plan: After the purchase plan is finalized, it is used to make a new sales plan. The conversion key helps to update the sales plan so that it matches the updated purchase plan.

Turning the Sales Plan into a Purchase Plan: Next, we use a "conversion key" to turn the sales plan into a

purchase plan. This conversion key helps calculate how much needs to be bought, based on the sales goals. It

Reviewing and Modifying the Purchase Plan: Generated purchase plan will be reviewed and modify based on

How the Cycle Works: This process keeps repeating to improve and align both sales and purchase plans. Each

Conclusion: Purchase Plan module shows how linking sales & purchase plans helps businesses run smoothly. By using simple tools like a conversion key and reviewing plans carefully, companies can achieve their goals

- more effectively.
- **Pricing Module**

We've implemented a pricing module in Board to automate price generation and manage missing prices. It uses templates like YTD Order Prices and Latest Price List, along with IF logics and weighted averages, to generate prices for unassigned combinations based on 'SOLDTO' and 'IPC.' The module includes a dashboard for identifying and inputting missing prices, supports price adjustments, and handles currency updates and FX management. Additional features include rebate, AGSP, and ANSP modules. This reduces manual effort, improves

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Reporting and dashboarding to analyse P&L among different scenarios i.e. ACT, BUD and Forecast.

Development of Summary Report with the help of Actuals data to get Actuals at Soldto level which leads to

Development of Consolidated P&L using 3 different sources – BSJ PL, SO DB, Management PL file which leads

easier analysis that what amount is marked against which customer..

Cost Analysis & Revenue Analysis in P&L through various dashboards and KPIs.

to complete analysis of P&L for better decision-making.

- Streamlined Data Management Improved Efficiency and Agility · One-click implementation of changes. · Reduced complexity and increased accuracy. Data categorization based on OE, REP, and Strategic · Seamless experience for Bridgestone. · Enhanced decision-making agility.
- - Increased Efficiency Significant Increase In Sales Due To Improved Faster Decision-Making With Automated
- Simplified Decision-Making Higher Profit Margins Due To Accurate Decision Quick Identification Of The Cheapest Product. Through Analysis Of Various Reports Enhanced Planning
  - Future Expansion.

Unparalleled Flexibility

Calculations.

Data.

Decisions.

Improved Accuracy

· Easy addition and removal of products.

Comparison of reports across different versions.

Dynamic adjustments to business parameters.

Flexibility to add/remove exclusions or inclusions.

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accuracy, and enhances decision-making.

Profitability by (IPC)

# patterns.

Enhanced Decision-Making.

**RLUP Module For Bridgestone** 

while meeting business requirements.

Two-minute process for report generation.

· Generates reports identifying the cheapest products

Saves hours of manual effort previously done in Excel.

Increased Sales

Product Availability & Optimized Assortment,

Streamlined Processes, Reduced Manual Tasks.

**Results And Benefits** 

 Increased Productivity Productivity Of Business Has Been Increased To

Take Decision To Start New Business,

Enhanced Operational Efficiency

Higher Profit Margin

Cost Savings

- Reduced Product Costs Through Efficient Price Optimization.
- Conclusion

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Data-Driven Insights For Better Strategic

Fewer Errors In Cost Analysis, Ensuring Reliable

Bridgestone's adoption of this solution led to substantial operational improvements and a competitive edge in the tire manufacturing industry. For potential clients facing challenges in Demand Planning, supply chain management, or P&L Analysis & Reporting, let us assist you in transforming your business for greater success.

www.ppnsolutions.com