

A photograph of a warehouse worker wearing a yellow hard hat and a dark jacket, holding a cardboard box. The background shows a large industrial warehouse with high ceilings and metal structures. A large blue circular graphic is overlaid on the right side of the image, containing the title text.

Inventory Management Solution

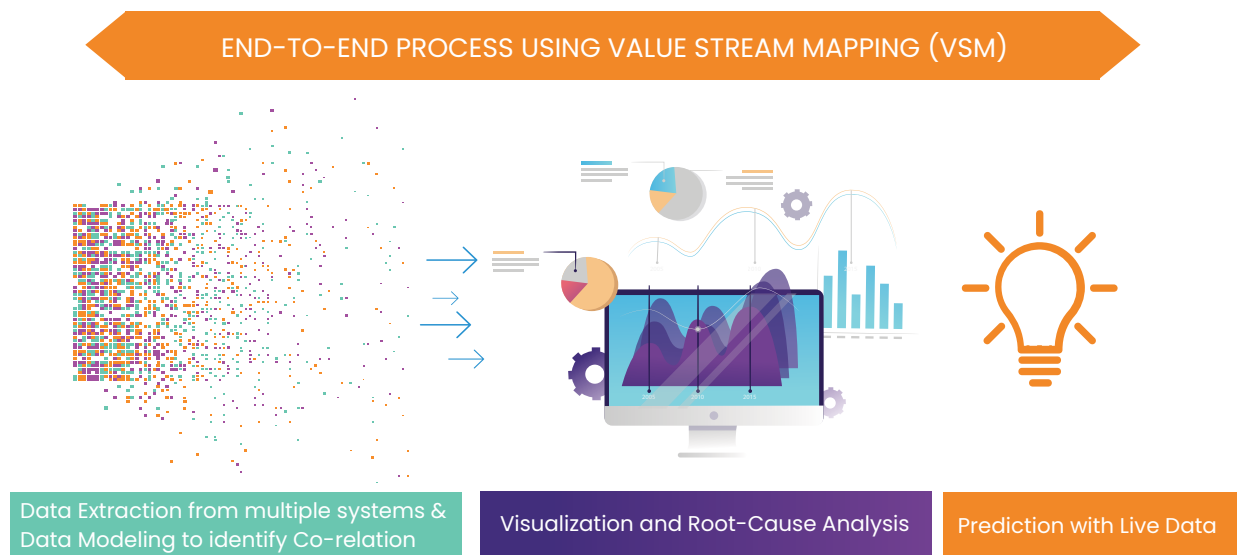
Abstract

Our solutions helped an MNC manufacturer reduce the inventories in their Asian region by 10%, while improving their SLAs in an 8-week time frame. We achieved this by implementing machine learning to automate all data connections and by creating a global inventory view. Structured and methodical processes involving data collection, modeling, visualization and root cause analysis successfully created a data-driven and cognitive supply chain improvement.

Challenges

- High stock-outs to regional distributors and end customers
- Fragmented supply chain with in/out-sourced distribution
- Lack of data standards and no end-to-end inventory visibility

Approach



Solution

- Followed a structured, step-by-step process that provided automated, data-driven, cognitive supply chain improvement
- Created end-to-end process using Value Stream Mapping to identify potential failure points, systems and data needs
- Carried out Data Extraction from multiple systems and Data Modeling for identifying correlation
- Used machine learning to automate the connecting of data and creating a global inventory view within 8 weeks' time
- Used trained models to create end-to-end visual flow of the inventory and predict the failure points
- Trained the ops team to predict the live data on the prediction models

Outcome

- Better service levels to customers and distributors
- Reduction in inventory level by 10% with better node positioning