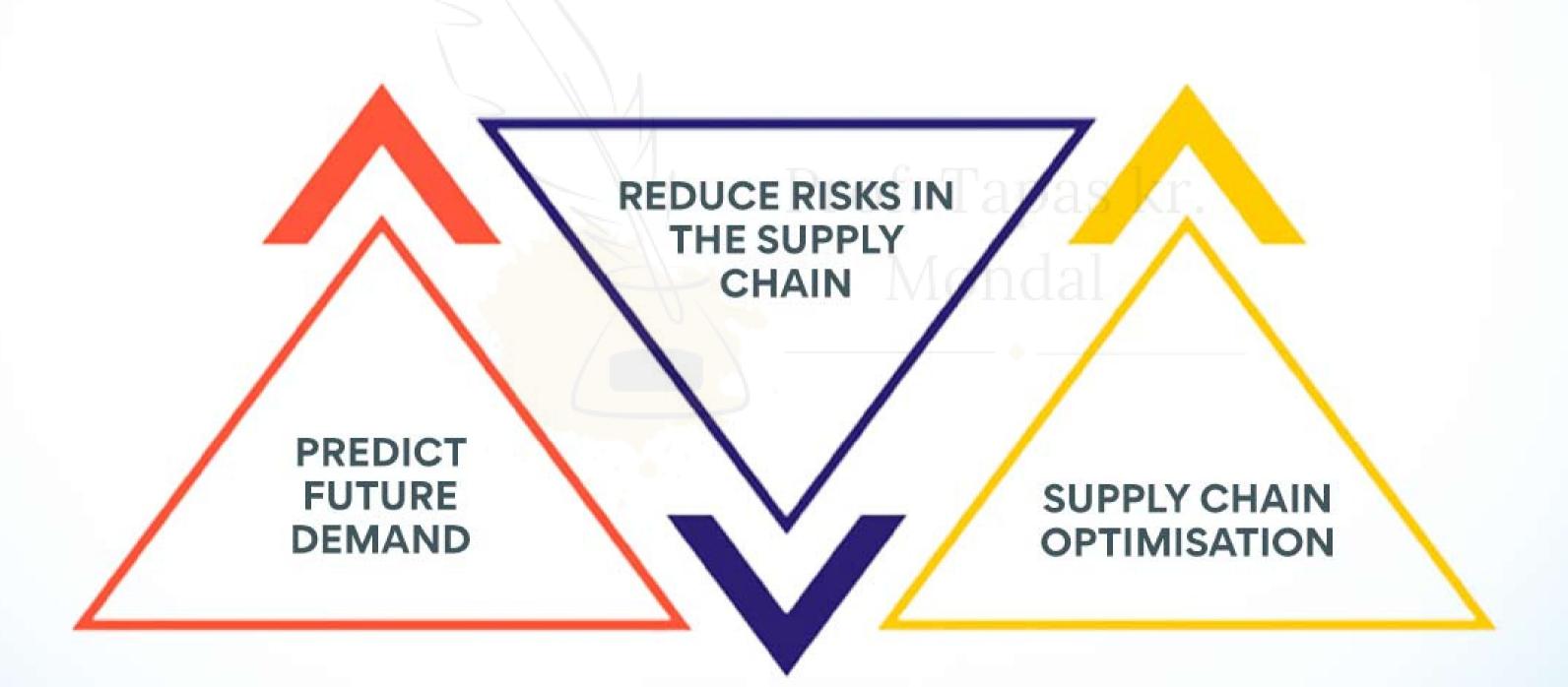


THE IMPORTANCE OF SUPPLY CHAIN ANALYTICS IN BUSINESS





Benefits of Supply Chain Analytics



Better demand forecasting



Better responsiveness



Increased ROI



Enhanced visibility across the supply chain



Readiness to future disruptions



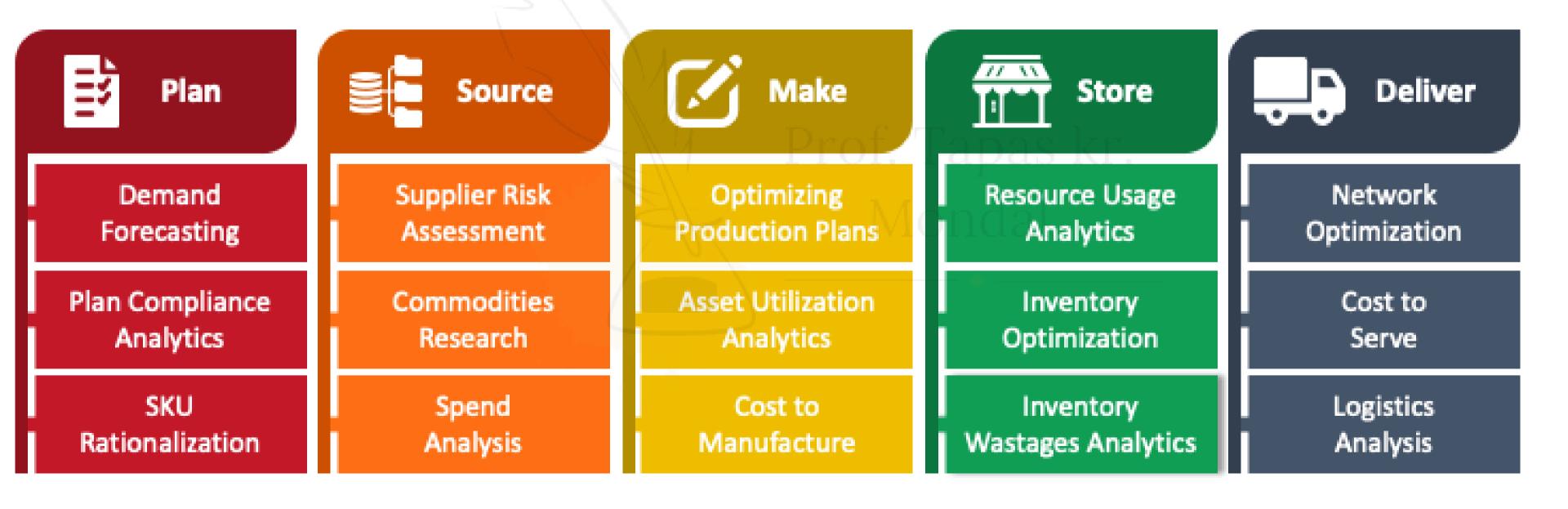
Better relationship with suppliers



Better cash management

SUPPLY CHAIN ANALYTICS

Capabilities in Supply Chain Analytics



SUPPLY CHAIN ANALYTICS

Types of Supply Chain Analytics



What should I do?

Timing of product launch, best shipment strategy for each location.

Predictive

What will happen?

Trade regulation impacts, effects of pandemic lockdown on raw materials.

Descriptive

What happened?

Inventory trends, return on invested capital.

Diagnostic

Supply Chain

Analytics

Why did it happen?

Shipment delays, poor inventory turns.







Reporting services and dashboards, web services, real-time monitoring services, etc.

ANALYTICS







ML to

Data mining tools

DAIA STORAGE





Operational data store



DWH with data marts

DATA NTEGRATION

DATA SOURCES



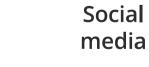
ETL/ELT services, streaming services, data quality services, etc.

Procurement management software

























Inventory management software

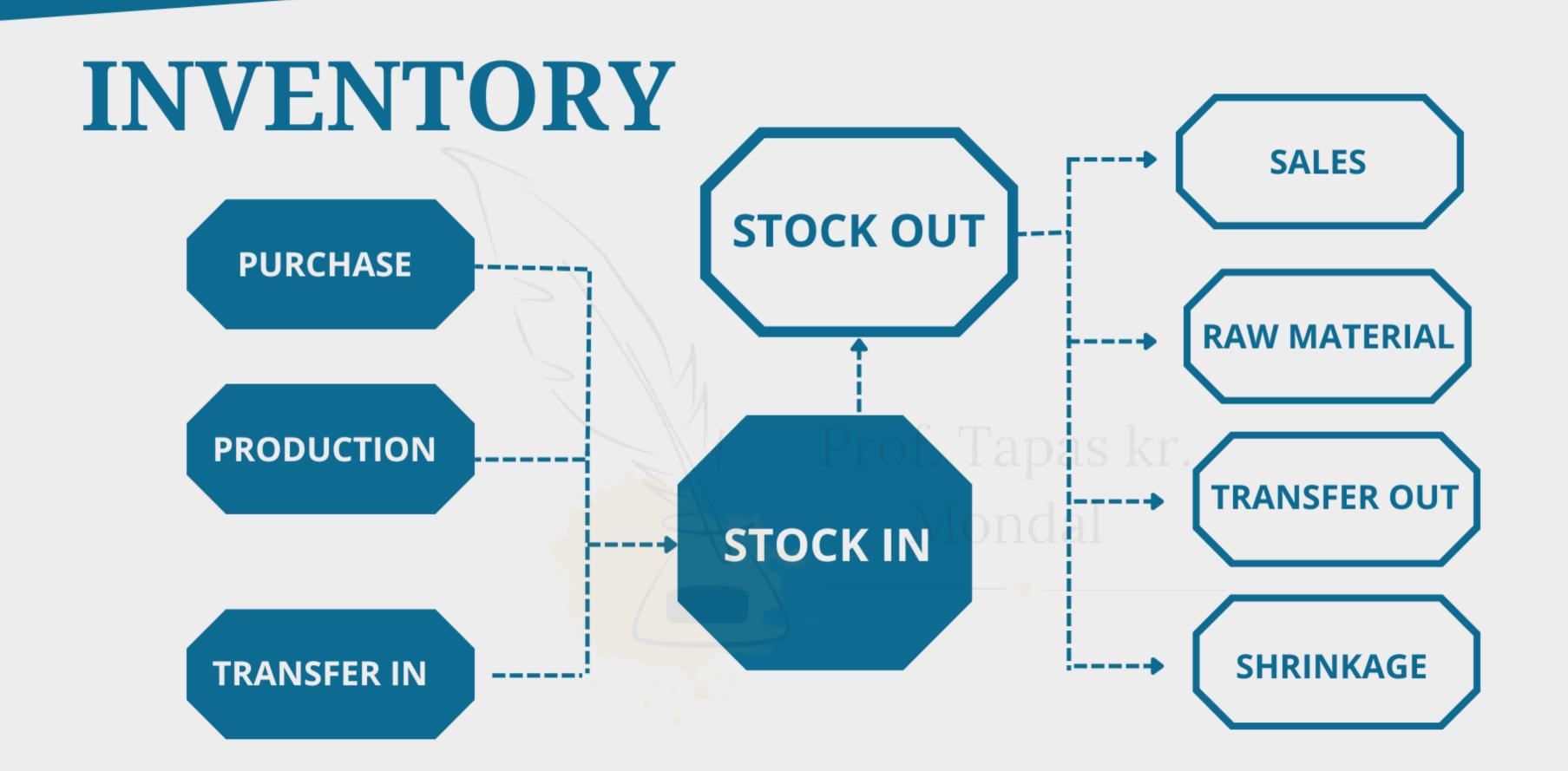
Supplier management software

ERP

Smart connected things

Steps to Optimize AI and Data Analytics in the Supply Chain





Inventory Management Process

Goods are Delivered

Goods are reviwed, sorted and stored

Inventory levels are monitored

Stoock orders are placed

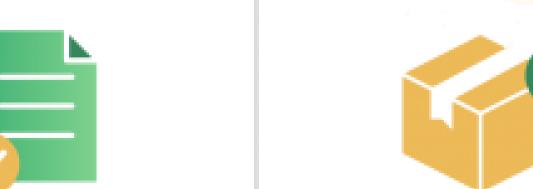








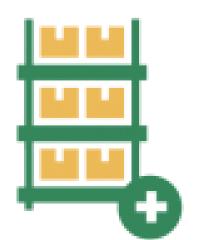
Sock orders are approved



Goods are taken from stock



Inventory levels are updated



Low stock levels trigger purchasing





Possible Supply Plans





Costs

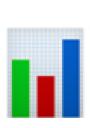


Monetization of all possible outcomes





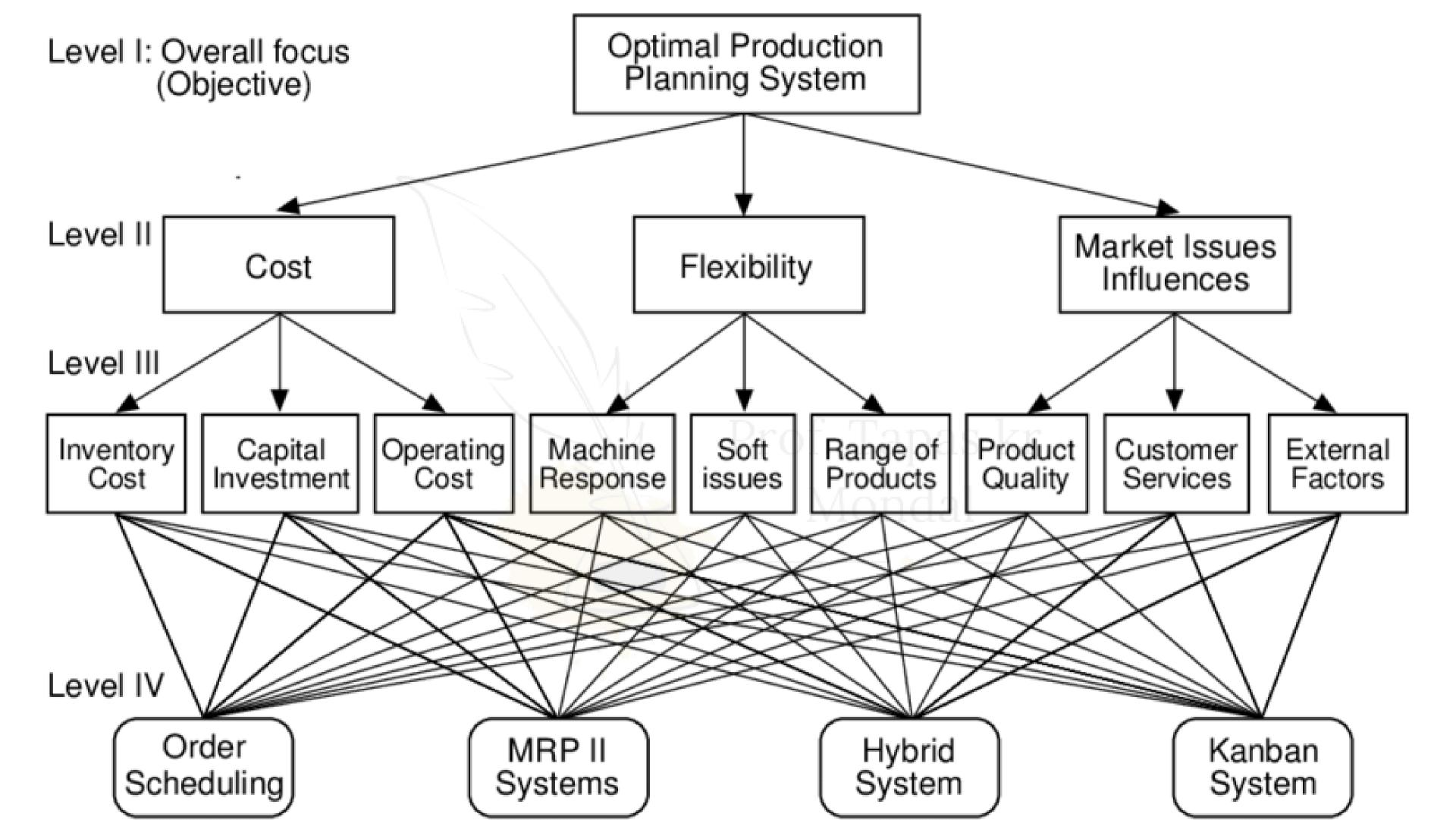
Best Supply Plan



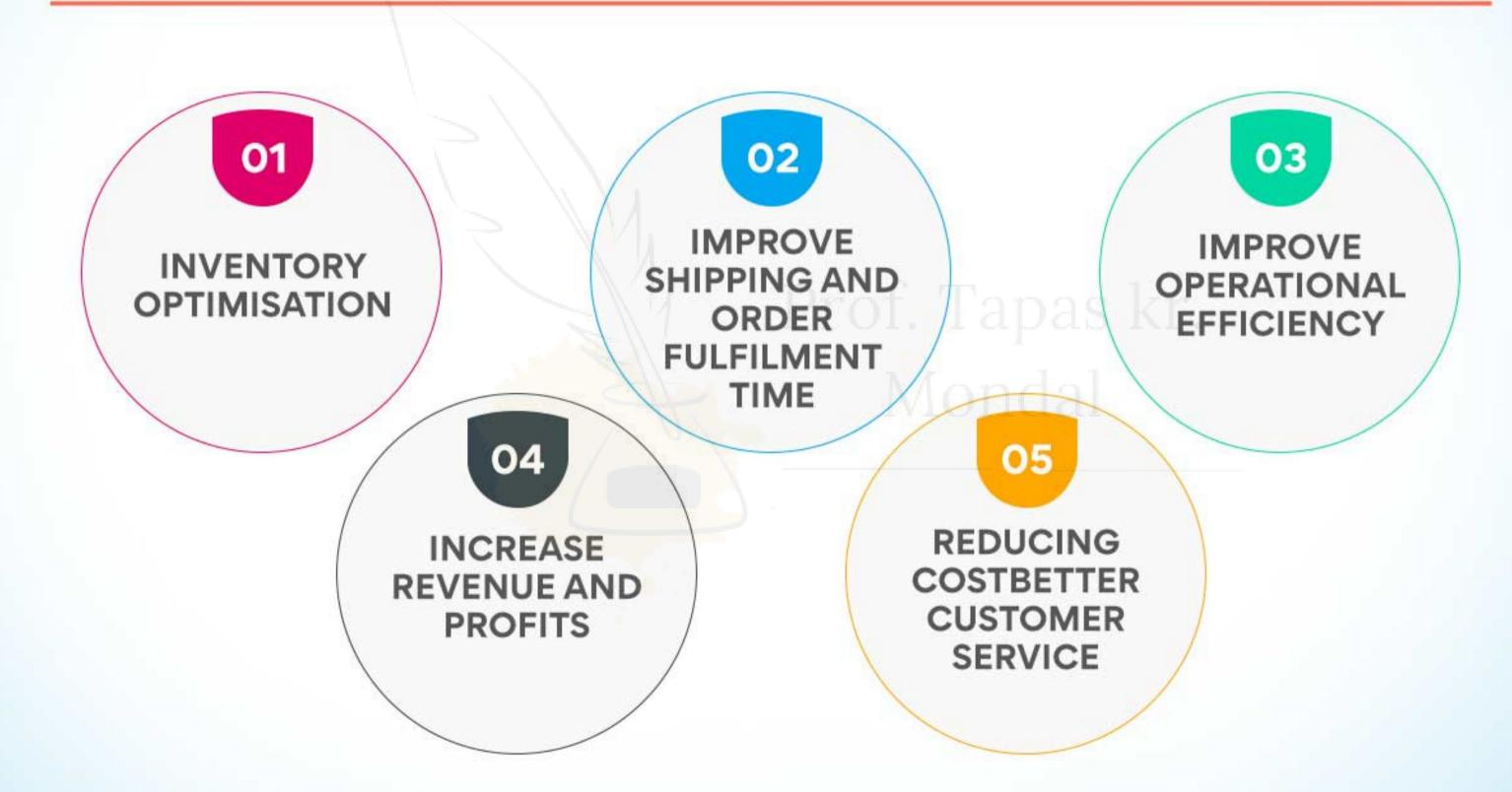
Probabilistic Forecast







GOALS OF SUPPLY CHAIN OPTIMISATION



Supply Chain Optimization

Be Responsive and Agile Consider Automation

Focus On Your Strengths Best Practices

Don't Get Complacent, Review and Update as Needed

Think About the Global Picture Always Future-proof Your Supply Chain

SUPPLY CHAIN OPTIMIZATION

Some Benefits of Supply Chain Optimization



Adopting supply chain analytics can open up a whole new world of helpful data that can strengthen and capitalize.



Vendor Relationships

SCM software
usually contains
features that allow
managers to
compare suppliers
and their structure
to make
meaningful
choices.



Enhanced Financial Practices

Single-entry data entry may not sound exciting, but it can save valuable time, and money normally spent fixing accounting entry errors.



Lean Inventory

Optimizing your supply chain can help you ensure that you have the right amounts of products available while avoiding stock-outs.



8 distinguishing features of Supply Chain Management that empower manufacturing firms:

Automation

Leads to optimal use of space and reduced downtime of assets

Prediction

Allows organizations to find issues beforehand, preventing downtime and maintenance costs

Field service integration

This integration helps improve resource management and automate workload.

Asset management add-in

Planning, predicting and performing are enabled; extending the life and performance of equipment



IoT support

Helps in boosting uptime, throughput and quality

Built-in Machine-Learning

Helps to receive timely guidance and to manage an inventory.

Planning optimization add-in

Helps to carry out production planning in real-time

Power BI Analytics

Strengthens organizations to speed up inbound & outbound processes.

Thank You

