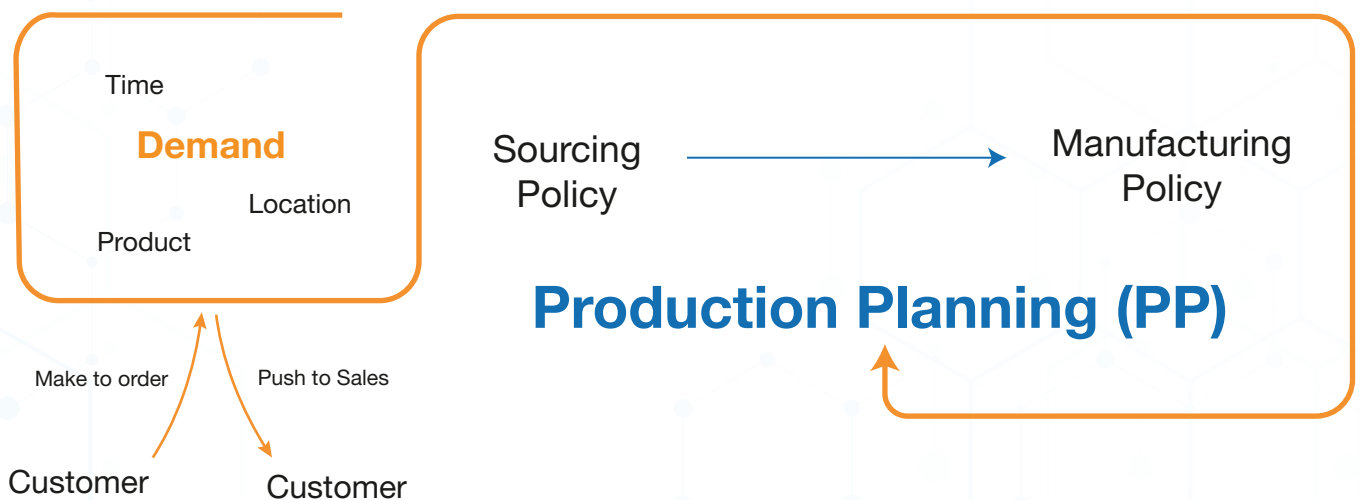


# Driving cost saving of 6-8% on finished goods by delivering Production Plans at the Strategic, Tactical & Operational level



## Problem Statement:

Production Planning (or planning for manufacturing and packaging) is often guided by uncertainty and complexity. The new volumes of data pouring in from multiple sources make accurate planning a challenge, especially when planning is still running on legacy software.

Gaining control over the uncertainties and complexities of the production environment to fulfill the sales requirement in the most cost-optimized way requires greater real-time visibility over the planning process. To maintain a perfect balance between the production and transportation costs, it is imperative to integrate & optimise the below mentioned multi-variable dependencies.



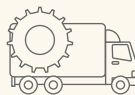
Limitations of Supply of Raw Materials and Component



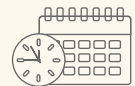
Fluctuations of Demand (uncertainties)



Capacity Constraints of Manufacturing



Capacity Constraints of Packaging



Working Days of Plants

## The VERDIS Approach:

### Input

#### Sales order forecast

(Model day/week/month/year wise)

#### Capacity constraints

(Plant, Line, Category, Sub category, model wise capacities)

#### Working days

(Plant wise working and Production days)

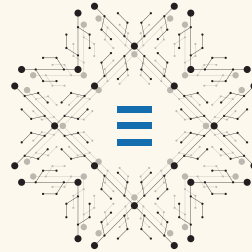
#### Master data

(Model master, Model lot master, Production Cost Master)

#### Other inputs

(validities of capacity and model)

### Process



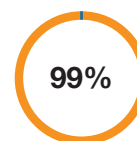
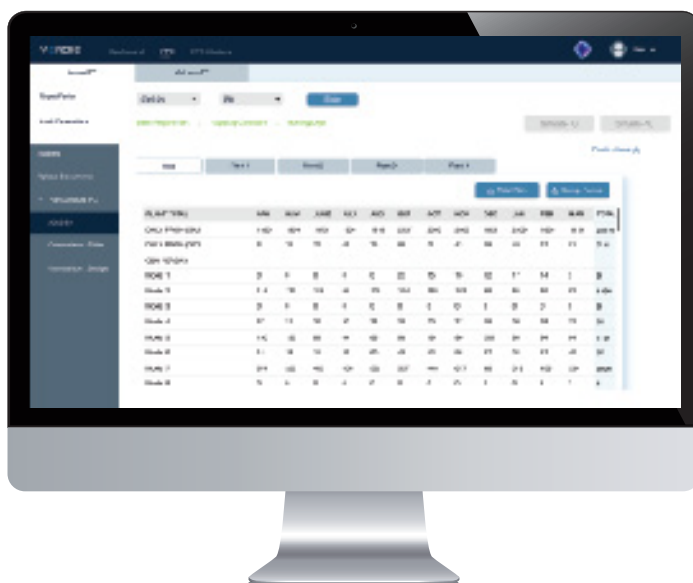
VERDIS PP use case provides a fully optimized production plan for multiple SKUs for multiple manufacturing locations in a complex Supply Chain environment. VERDIS PP due to its mathematical modelling and design approach enables a fully optimized, error-free plan with minimum production cost. VERDIS PP plans can be prepared across variable planning frequencies involving both short term, rolling plans for a year which are done every quarter and long-term plans which are done for a horizon of 5-6 years.

### Output

## Fully Optimized Automated Production Plan

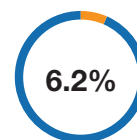
(Day/Week/Month/Year, Plant / Line, Model, BS Type – BS4/ BS6, Type – CBU/ CKD wise)

## Value Creation



99%

sales order fulfilment



6.2%

cost savings (production + packaging)

### Higher Productivity

While earlier it took 2 resources 2-3 business days for generating a plan, it now took 1 resource 10 minutes (post input data preparation) to generate a fully optimised plan.