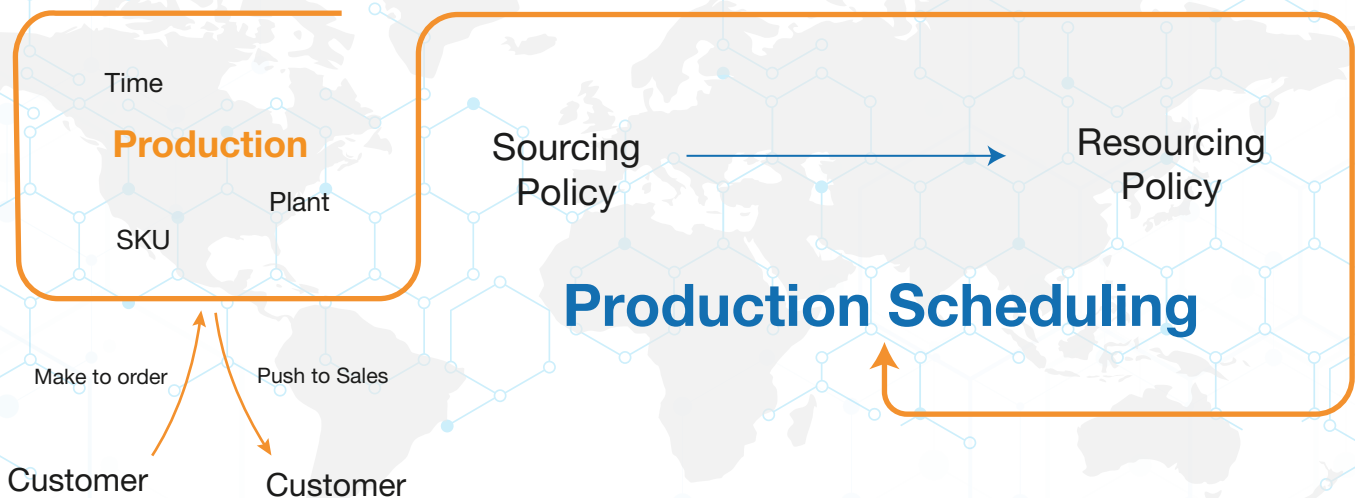


Improving **resource utilisation efficiency** by delivering automated and optimised Production Scheduling



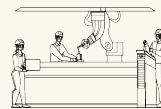
Problem Statement:

Scheduling of resources in a production plant is often guided by uncertainty and complexity. The new volumes of data pouring in from multiple sources make accurate scheduling a challenge, especially when still running on legacy software.

Gaining control over the uncertainties and complexities of the production environment to fulfil the production requirement in the most cost-optimised way requires greater real-time visibility over manpower and machine resources. To maintain a perfect balance between the production cost and resource utilisation, it is imperative to integrate, automate & optimise the below mentioned multivariable dependencies.



Capacity constraints of manufacturing



Availability of manpower and machine resources



Production process of SKUs



Production requirements



Process dependency on resources

The VERDIS Approach:

Input

Production requirement

(model day/week/month/year wise)

Capacity constraints

(plant, line, resource wise capacities)

Working days

(plant wise working and production days)

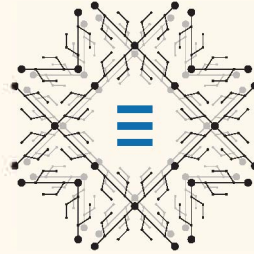
Resource Master data

(availability, cost, productivity etc of resources)

Other inputs

(validities of capacity and model)

Process



VERDIS Production Scheduling use case provides a fully optimised production schedule of resources for production of multiple SKUs in multiple manufacturing locations in a complex environment. VERDIS Production Scheduling due to its mathematical modeling and design approach enables a fully optimised, error-free plan with minimum production cost and maximum resource utilisation. VERDIS can prepare plans across variable planning frequencies involving both real-time, short term and rolling plans for a year which are done every quarter.

Output

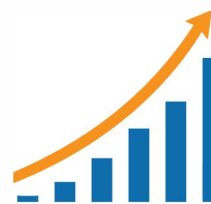
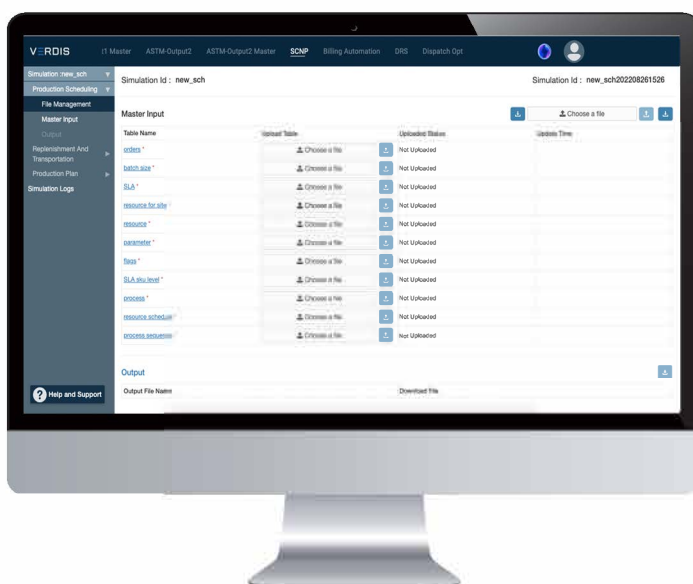
Fully optimised automated Production Schedule

Detailed schedule of resources
(day/plant/process wise)

Utilisation of resources

SKU wise production routine

Value Creation



- Increased **production requirement fulfilment**
- Increased productivity due to **optimal utilisation of resources**