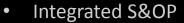
- Wide industry coverage
- Discrete and Process industries
- Rough cut Ship Scheduling, Production Scheduling



- Logistics Planning
- Production Planning
- Procurement Planning



- Strategic long term planning
- Operational planning
- Tactical Planning

CPlan: a Planning Swiss Knife

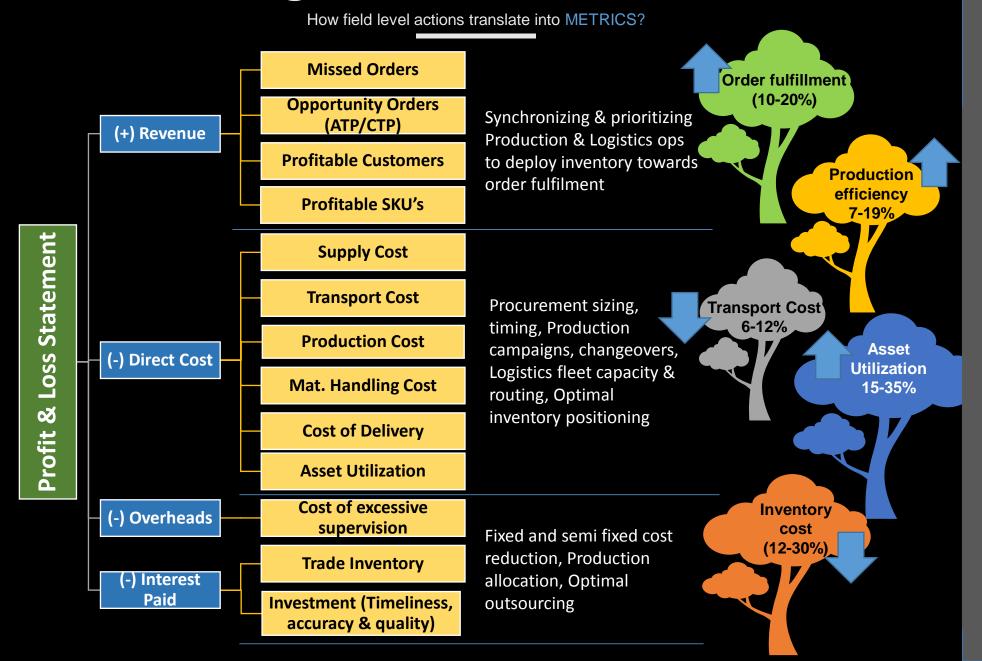


Better PLANNING is the Pillar of Success





Planning affects Business Results



Optimal
Resource Planning
can improve
operational and
Business metrics

significantly.

Supply Chain Elements and Interlinks

- Transport capacity
- Transport cost and irrecoverable taxes
- Transport policy constraints
- Transport lead times
- Transport minimum parcel sizing
- Point to point vs. Multi-pickup multidrop transport options

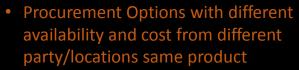
- Multi-stage production network at Plant Locations
- Workcenter capacity
- Recipe and BOM for each operation
- Changeover time-loss of capacity
- Minimum batch size
- Material routing between workcenters
- Processing cost and setup cost

- Storage capacity
- Safety stock /service levels
- Inventory carrying costs
- Inventory valuations across time periods
 - Inventory capacity levelling

In-Transport

iain: Core of you susir

gages most valuable RESOUT Production



- Minimum committed purchase agreements
- Supports new Material for alternate **BOM** evaluation
- Utilities Purchase evaluation

Transport capacity

• Transport cost and irrecoverable taxes

Out-Transport

- Transport policy constraints
- Transport lead times
- Transport minimum parcel sizing
- Point to point vs. Multi-pickup multidrop transport options



- Variation and Seasonality
- **Customer Preferences**
- Price difference
- Minimum quantity commitment
- Bulk sale discounts

Introducing XPlan

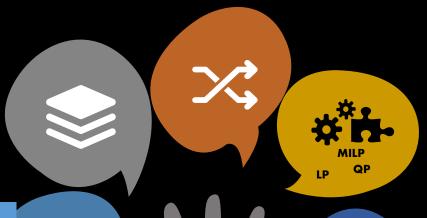
What makes it Unique?

Wide applicability across Industries: a Planning Swiss Knife

XPlan allows comprehensive supply chain elements configuration which have been designed to work with each other seamlessly. As a result XPlan caters to a very wide variety of problem solving covering many industry verticals.

N-tier network definition

Multiple transshipment point, multiple modes of transport, production location in network can have network of production workcenters. Well that is NP's N-tier network optimization.



Optimization based

Optimization based problem solving ensures all feasible option has been evaluated for the last penny that can be made or saved.

Integrated Logistics & Production

No more isolated AOP, Sales Plan, Production Plan, Financial plan etc. End to end supply chain network optimization for tactical, operational and strategic needs.



Run multiple scenario with different combination of network element change and let the model tell you the best investment option. It could be new location, new SKU, capacity augmentation, cost/tax structure changes.

Share results by sharing workspace.

XPlan Network Planning: Different use cases

a Planning Swiss Knife

A. Strategic Planning

- Network design & investment analysis long term impact operations, competition
- New product introduction impact on network
- Competition scenario study-industry models
- Ship Time & voyage chartering decisions
- Debottlenecking studies

B. Operational Planning

Weekly, monthly operational planning

C. Tactical Planning

MTD target adjustments, re-planning with changed demand, supply, fleet availability, inventory scenario

XPlan Network Planning: Different use cases (contd.)

a Planning Swiss Knife

D. Production Planning & Scheduling

- Capacity constraint, multistage production, utilities, labour, consumables consumption, preventive maintenance, producing to Stock (MTS) or to order (MTO)
- Production planning for process industries with recipe, operation routing
- Production planning for Discrete industry with BOM, operations changeover, optimal campaign lengths.
- Make vs. buy decisions
- Transitions and Operations Sequencing

E. Logistics Planning

- Multiple transport mode, inventory levelling, parcel sizing, load planning.
- Ship Scheduling [multi-leg, multi-compartment, lead time]

XPlan Network Planning: Different use cases (contd.)

a Planning Swiss Knife

F. Sales & Operations Planning

- Integrated Sales, Logistics (inbound, outbound), Production and Procurement planning
- Production allocation planning in a multi-production facility ensuring minimum batch sizes and better asset utilization
- Reverse logistics planning
- Handling obsolescence and perishability or ageing
- Multi-period Inventory capacity levelling, multi-echelon inventory optimization



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