#030 : Supply Chain Planning Automation

Part 01 : Time Saving, Impact on Profits, Value Addition.





Increasing planner productivity (usually 30-40%)

2

Improve performance without increasing manpower

3 Types

Exact replication of simple manual activity with a machine.

Machine assisted computation & optimization of complex plans.

Computation of competing solutions.

Which Decisions?

Day-to-day short-term plans

Data intensive plans

Plans with higher financial impacts

Multi-objective plans





Partial Automation Often Human Assisted

- Very high financial impact
- Need more collaboration
- Algorithms facilitate decisions
- Focus on **resiliency**

Complete Automation

- Very frequent decisions
- Best practices/optimization



- Focus on **accuracy**

What Next?

With advances in AI, Big data and IoT, more decisions from the strategic level will move towards the execution (operational) level. (Refer weekly blasts 21, 22)

More automation tools are needed to address the additional "new planning" requirements with more data and complex set of constraints.

A more comprehensive digital representation of current supply chain called "supply chain digital twin", and it enables examining how supply chain will respond to certain decisions.

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