

Stop Counting the Dead in Production

Decision support within minutes when production must be re-routed after a stoppage

What plant manager has not seen this a hundred times? The morning report of the previous day states 1,000 parts instead of 3,000 because one line stood still and nobody took the decision to start another product, due to missing information about feasible alternatives and their consequences. This is where ICI-O and a decision-capable APS system can help.

The reality on the shop floor

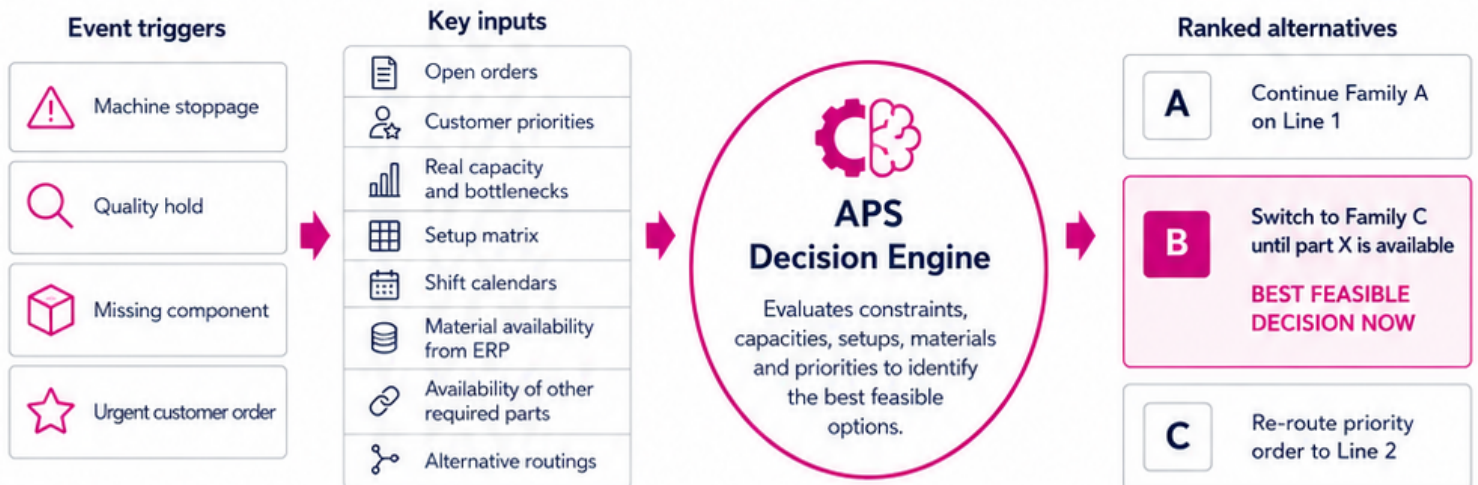
- A line stops unexpectedly
- Open customer orders still have to be shipped
- Some components are missing or blocked
- Setup losses make wrong decisions expensive
- Delivery commitments are at risk
- Entire shifts can be lost because no decision is taken fast enough

What management needs within minutes

Within minutes, not hours, the system must show:

- which production can continue
- which orders are blocked
- which alternative sequence protects delivery best
- what setup and bottleneck consequences each option has
- whether the required materials and companion parts are available in ERP

How the decision logic works



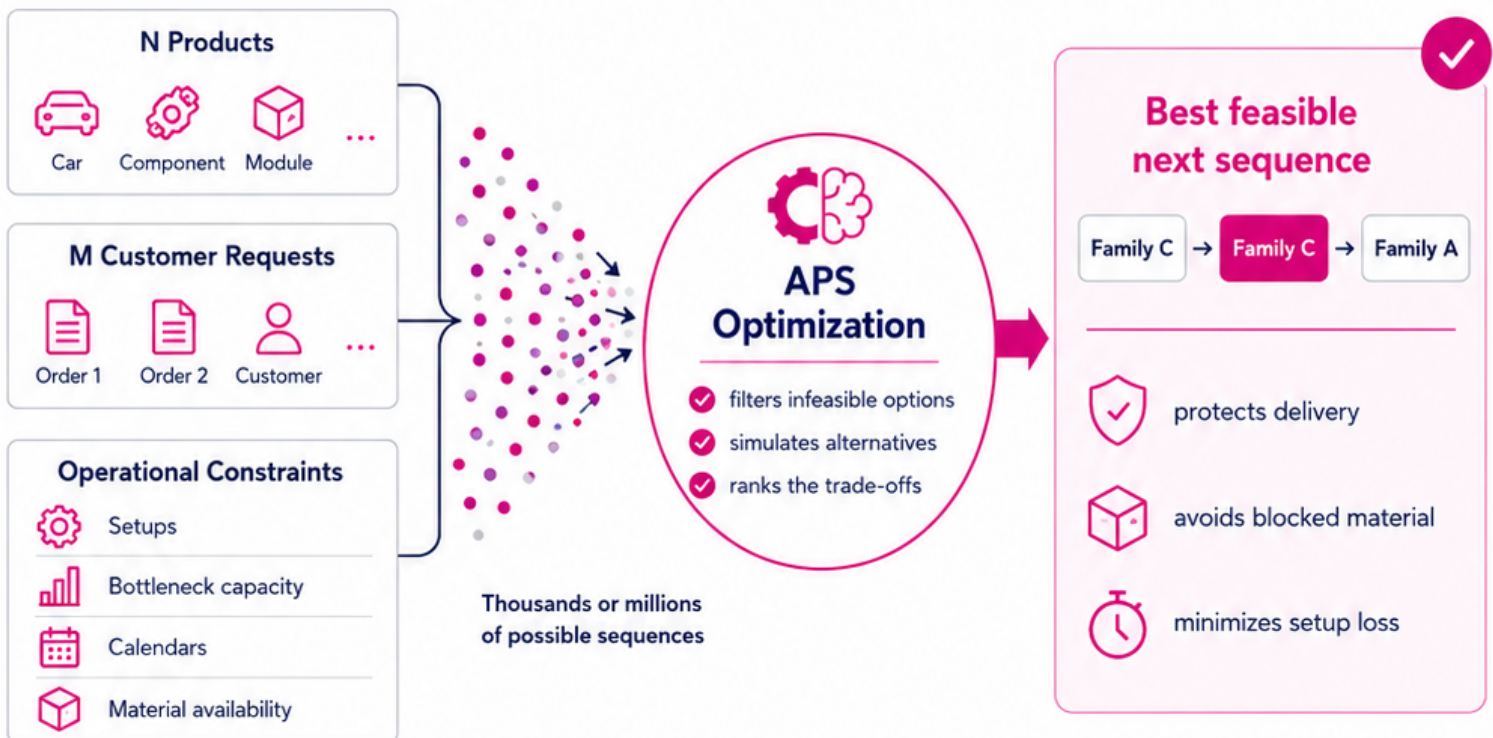
APS is not just a planning tool. It must be a real-time decision support system linked to orders, capacities, setup logic and ERP material availability.

APS as a Real-Time Decision Engine

When N products and M customer requests collide, possible production sequences explode — but only one next sequence is best at that moment.

A decision-capable APS evaluates demand, priorities, bottlenecks, setup constraints and material availability in minutes. It filters out infeasible options and ranks the best feasible production scenario for the current situation.

From combinatorial chaos to the best feasible next sequence



The objective is not a prettier schedule.
The objective is **better decisions within minutes**
when production reality changes.

Implementation Packages

From readiness to rollout: build an APS that supports decisions in real production conditions.

Macer helps manufacturers move from planning pain points to an operational APS decision system that is connected to orders, capacities, setup logic and ERP material availability.

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APS Readiness Scan

2–3 weeks

- ✓ review planning process and decision pain points
- ✓ assess ERP, data and material visibility
- ✓ map capacities, calendars and setup logic
- ✓ identify the high-value APS use cases
- ✓ define target model and business case

Deliverable: Go / No-Go + roadmap

2

APS Pilot & Decision Cockpit

6–10 weeks

- ✓ model one line, cell or product family
- ✓ connect orders, materials and shift calendars
- ✓ simulate stoppages and immediate alternatives
- ✓ rank feasible sequences in minutes
- ✓ validate the decision logic with the team

Deliverable: Working pilot + decision cockpit

3

Rollout & Implementation Governance

Project-based

- ✓ select or steer the APS software vendor
- ✓ define master-data and integration rules
- ✓ coordinate ERP / MES / planning interfaces
- ✓ support testing, training and go-live
- ✓ monitor adoption and operational impact

Deliverable: Scaled APS deployment

What success looks like



**faster recovery
after stoppages**



**fewer
lost shifts**



**better delivery
protection**



**more robust
production decisions**



Discuss your APS use case

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Industrial Complexity Intelligence for real-time production decisions.