

# Business Waste Prevention Skill

Detect excess production before it becomes waste. Match supply and demand intelligently to eliminate guesswork and manual analysis — empowering you to adjust production proactively, reduce losses, and protect profitability.

## The Business Challenges

Preventing excess production is essential to reducing supply chain losses, but many organizations lack the visibility to detect overproduction early. Without decision intelligence to align production with future demand, excess stock inevitably becomes waste.

### Common challenges organizations face:

#### Manual production analysis

Planners manually compare production orders against forecasts, delaying action and missing opportunities to prevent waste.

#### Disconnected planning processes

Siloed systems hinder real-time evaluation of whether planned production aligns with customer demand and shelf-life requirements.

#### No visibility into excess production

Limited integration between planning and demand systems prevents early detection of orders that create excess or short-dated inventory.

#### Reactive waste management

Organizations respond to excess inventory after it's produced instead of preventing overproduction from the start.



## The Aera Solution

The Aera Business Waste Prevention Skill™ proactively identifies production orders at risk of creating excess inventory through intelligent supply-demand matching — eliminating manual analysis and enabling plan adjustments before waste occurs.

### How Aera addresses them:

#### Matches production against demand

Demand is first matched against existing supply, then against planned and process orders, considering shelf-life, availability dates, and production constraints.

#### Identifies at-risk production orders

It flags at-risk production quantities, classifying orders with no demand match or quantities above or below minimum order quantity (MOQ).

#### Generates actionable recommendations

It recommends targeted production adjustments — including order cancellations, production cuts to align with demand, and MOQ-based reductions validated against safety stock.



#### Enables rapid execution

It delivers actionable recommendations, empowering planners and schedulers to proactively modify production plans.



## Optimization Techniques

Aera applies intelligent matching and constraint-based logic to prevent overproduction.



### Demand-Supply Matching

-  Order Level Pegging
-  Shelf Life Matching (FEFO/FIFO)

### Production Optimization

-  Rounding Constraint Analysis
-  Safety Stock Constraint Analysis

### Prevention Logic

-  Frozen Horizon Consideration
-  Threshold Based Decision Rules

## Real Business Impact

A global consumer packaged goods (CPG) company struggled with excess production that created short-dated inventory and waste. Without integrated tools, planners couldn't identify overproduction, resulting in unsellable stock within shelf-life limits.

After deploying Aera's Business Waste Prevention Skill as part of its Control Tower journey, the company gained proactive visibility into at-risk production. The skill flagged overproduction proactively, preventing unnecessary manufacturing. Within months, the recommendations produced measurable impact across multiple product lines.

99%

increased coverage across excess production risks

50%-70%

reduction in resolution time

60-80%

improvement in planner efficiency

## The Aera Difference

Aera transforms production planning from reactive waste management to proactive, intelligent prevention. It delivers a smarter approach through:



### Unified decision intelligence

It integrates production plans, demand forecasts, shelf-life requirements, and inventory constraints into one seamless platform for proactive loss prevention.



### AI-augmented workflows

It boosts planner productivity with automated order-level matching, constraint validation, and sequential prevention logic.



### Closed-loop execution

It drives end-to-end prevention by turning at-risk production insights into optimized production plans with safety stock and frozen horizon awareness.

## Ready to transform your business waste management?

Discover how Aera helps you identify at-risk inventory and maximize margin recovery while preventing waste.

Schedule a demo