

Opcenter APS helps consumer packaged goods manufacturers exceed goals

New trends

Consumers are changing

- Expect personalized products
- Immediate availability
- More environmentally conscious



The market is evolving

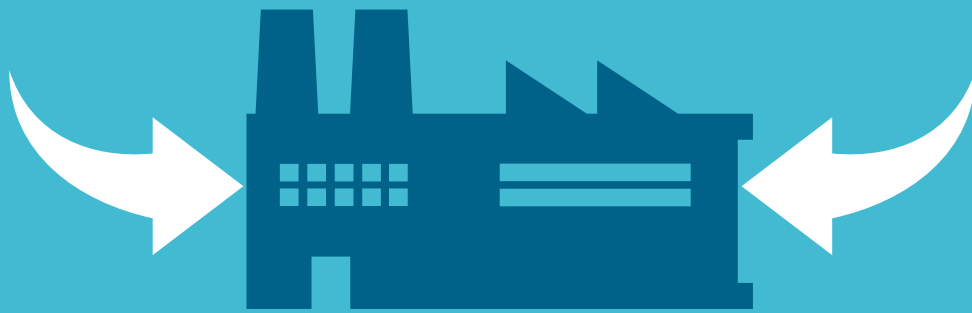
- Seasonal and economic environments lead to significant variations in demand
- New regulations and standards
- Increasing competition



New challenges

Manufacturers are under pressure

- Need to balance demand, supply and capacity
- Must react quickly to unforeseen changes
- Required to produce smaller batches/quantities with increasing changeovers
- Have to predict/plan their production effectively
- Strict allergen management requires excellent constraint management and sequence optimization
- Large number of packaging types and difficulty to coordinate primary-to-secondary schedule
- Difficulty evaluating seasonal impacts to master production schedule (MPS) and capacity adjustment required
- Minimizing clean-in-place (CIP) operations to maximize equipment utilization
- Properly synchronize laboratory and production schedules



How an APS system can help

Planning

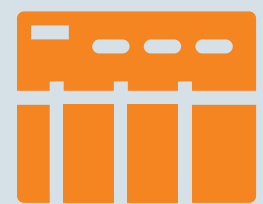
- What to make
- When to make
- How much to make
- Where to make
- Required materials and resources



Days, weeks and months ahead

Scheduling

- How best to make
- Sequencing
- Synchronization
- Priorities, constraints and conflicts
- Monitor execution
- Manage change
- What-if scenarios

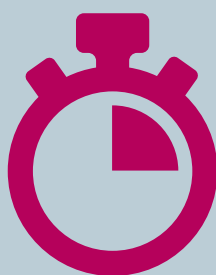


Minutes, hours and days ahead

Benefits of using Opcenter APS

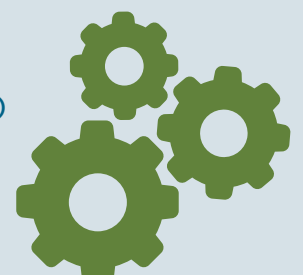
Benefits

- Supports decisions for long-term strategy
- Production load balancing and smoothing
- Rapid master production schedule generation
- Ability to respond quickly to changes in demand



Benefits

- Better resource utilization
- Reduction of setup and changeovers
- Reduction of inventory and work-in-progress (WIP)
- Detailed visibility of the production load
- Faster what-if scenario modeling
- Improved on-time delivery



For more information, visit [siemens.com/opcenter](https://www.siemens.com/opcenter)