



DELMIA Ortems

3DEXPERIENCE[®]

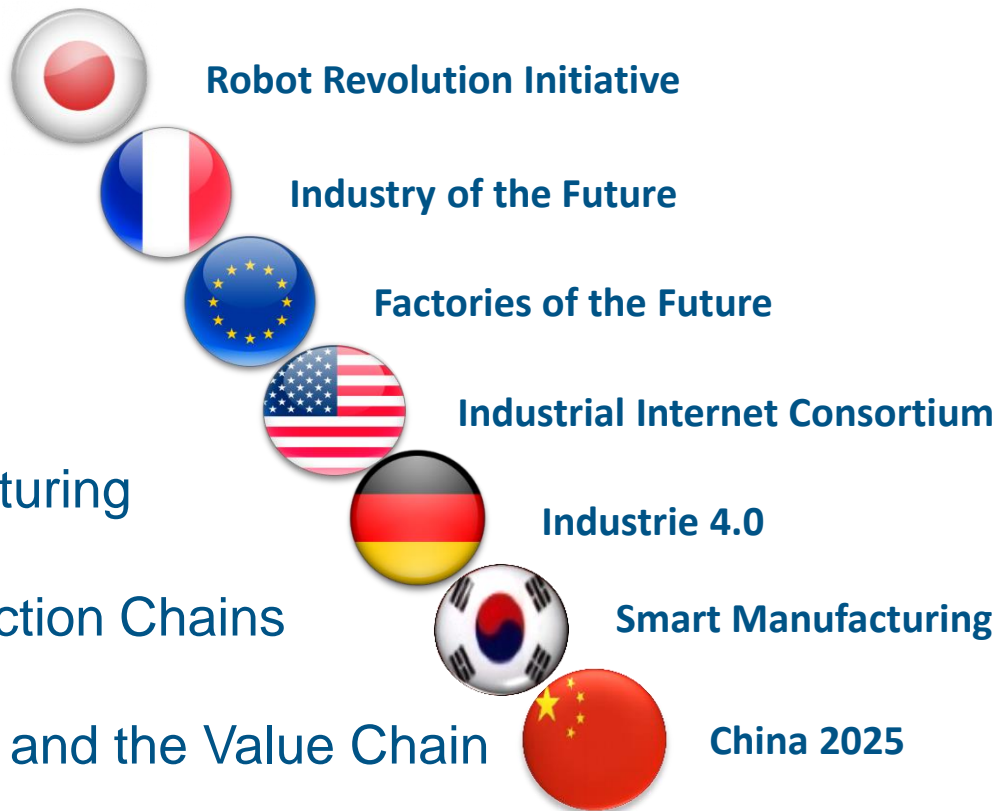
3DEXPERIENCE Manufacturing



...to “Win” the 4th Industrial Revolution

Key Common Drivers

- Digital Transformation
- Smart & Connected Manufacturing
- Global Interconnected Production Chains
- Continuity Across Disciplines and the Value Chain



DELMIA Delivers DIGITAL CONTINUITY

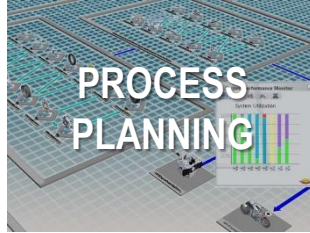


Manufacturing Capabilities with DELMIA

ENGINEER



COLLABORATIVE
MANUFACTURING



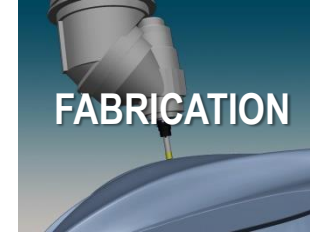
PROCESS
PLANNING



ERGONOMICS



ROBOTICS



FABRICATION

OPERATE



PRODUCTION



QUALITY



WAREHOUSE



MAINTENANCE



LABOR

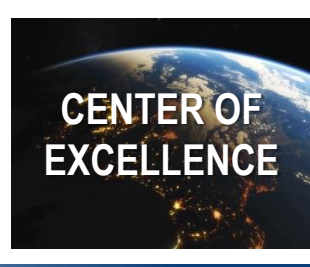
OPTIMIZE



SCHEDULING



INTELLIGENCE



CENTER OF
EXCELLENCE



TRACEABILITY

A group of four professionals (three men and one woman) are gathered around computer monitors in a factory setting. They are all smiling and looking at the screens. The background shows industrial equipment, including a yellow robotic arm and various metal structures. The lighting is bright, typical of a large industrial building.

Ortems

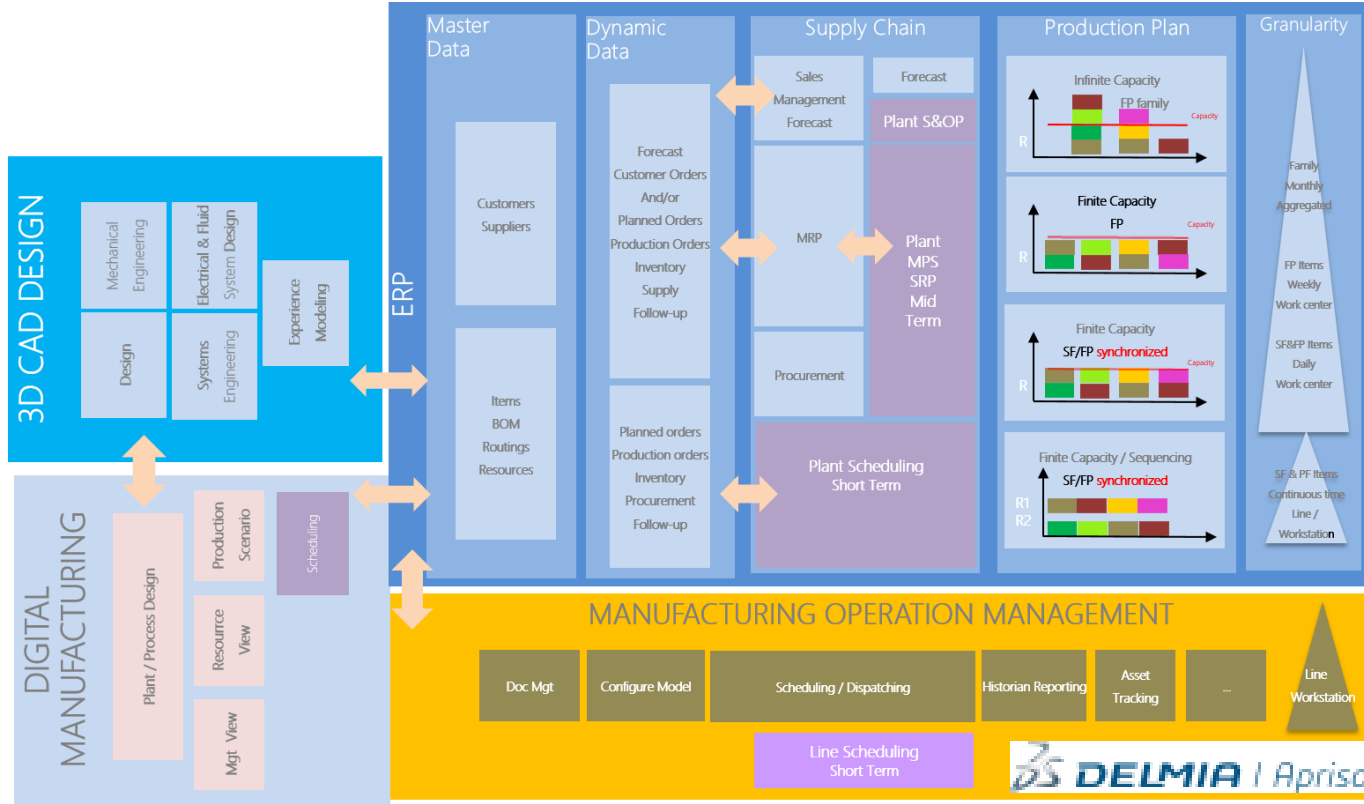
Expert in Planning and Scheduling: one solution covering all manufacturing planning & scheduling requirements

Streamline Planning & Scheduling processes

- ▶ Manufacturing & scheduling constraints modeling
- ▶ Multi-constraints: machine, labor, critical supplies...
- ▶ Highlight bottleneck issues
- ▶ Material flow synchronization: no missing parts
- ▶ Cutting edge optimization engine: Load levelling & scheduling
- ▶ « What if » production scenarios, Unlimited simulation
- ▶ Planning optimum
- ▶ Collaborative tool

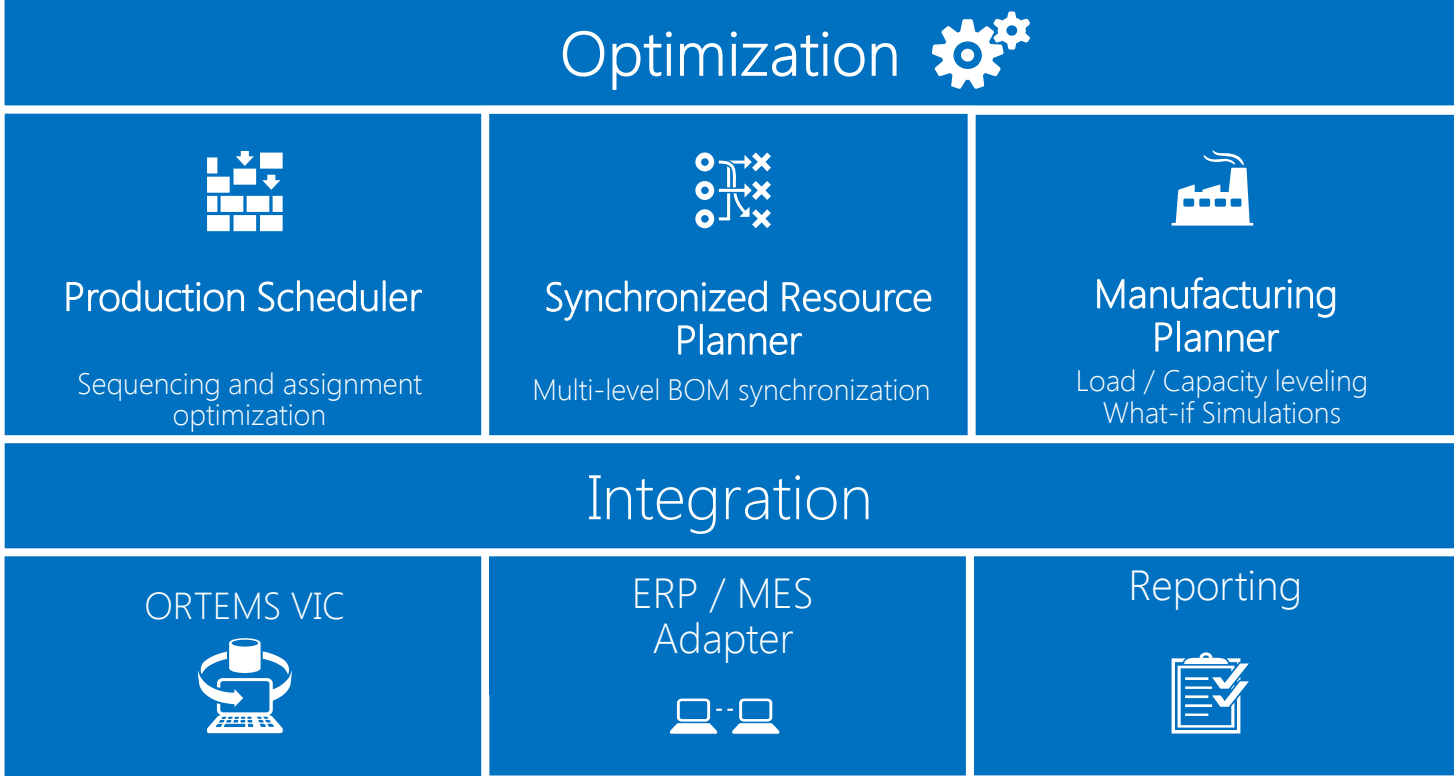


DELMIA Ortems positioning

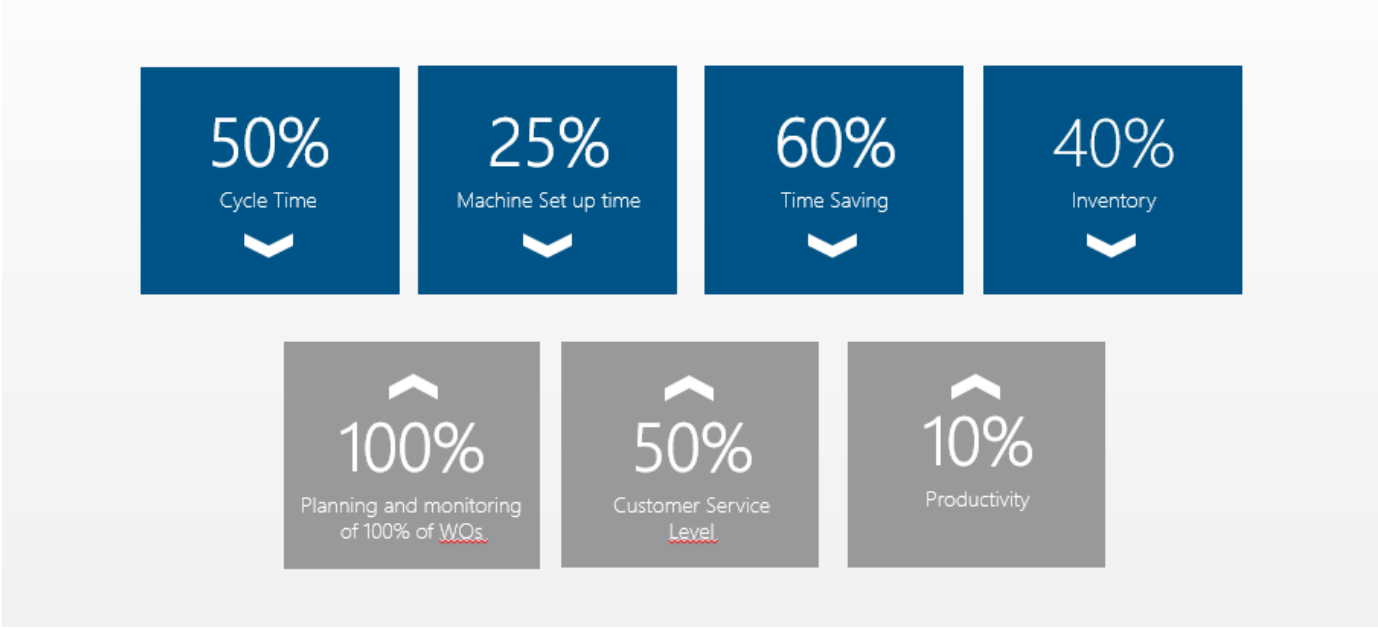


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ORTEMS Agile Manufacturing Solutions



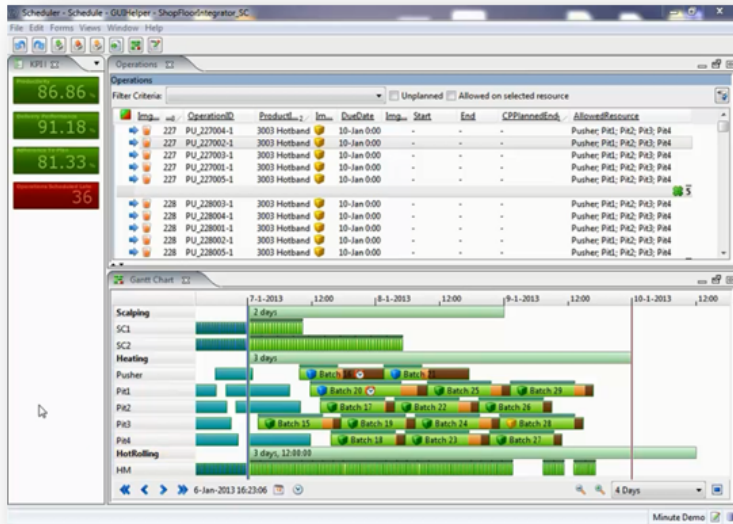
Benefits examples



Optimize Planning and Scheduling to Reduce Lead Time and Inventory

Solution

- Optimize production and distribution across constraints: synchronization of transport, intermediate product storage, maturity & shelf-life
- Expand visibility of demand signal (customer demand, VMI)
- Identify planning workflow / driving plan
- Establish appropriate safety stock levels and stock points
- Improve visibility to material plans/ pre-build / inventory positions
- Aggregate planning across locations and functional areas

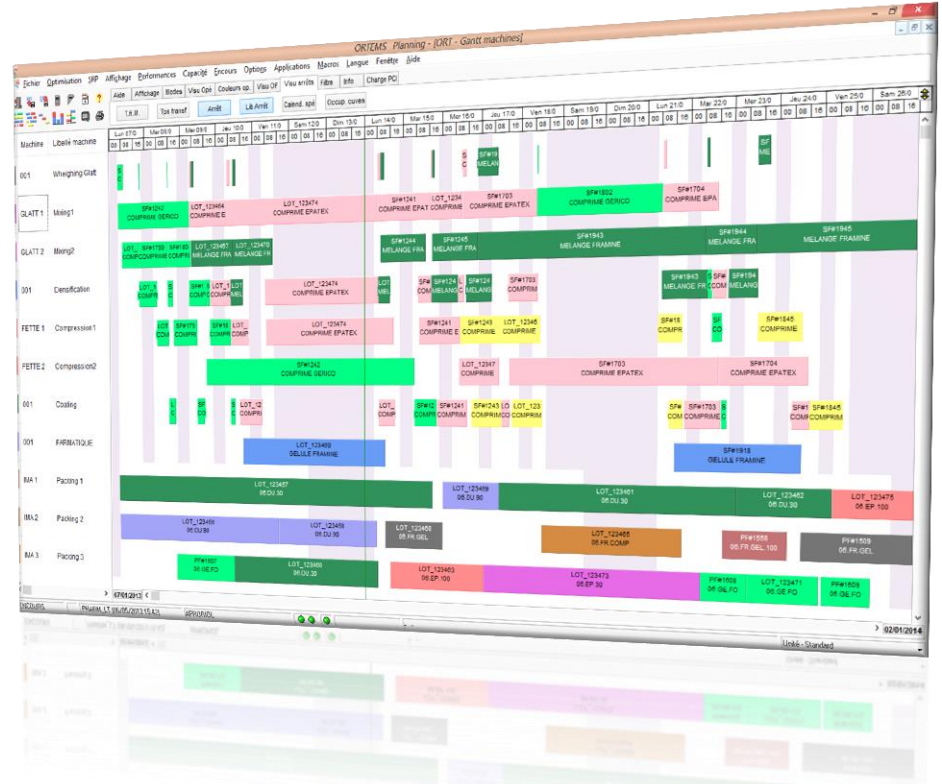


Results

- Significant return-on-investment from time saving; easier to match customer orders to raw materials, and then optimize sequence
- Better visibility to synchronize raw materials and finished goods across global value chain for improved asset utilization
- Greater agility to respond quickly to changing schedules
- Improved quality and yield while reducing scrap and rework

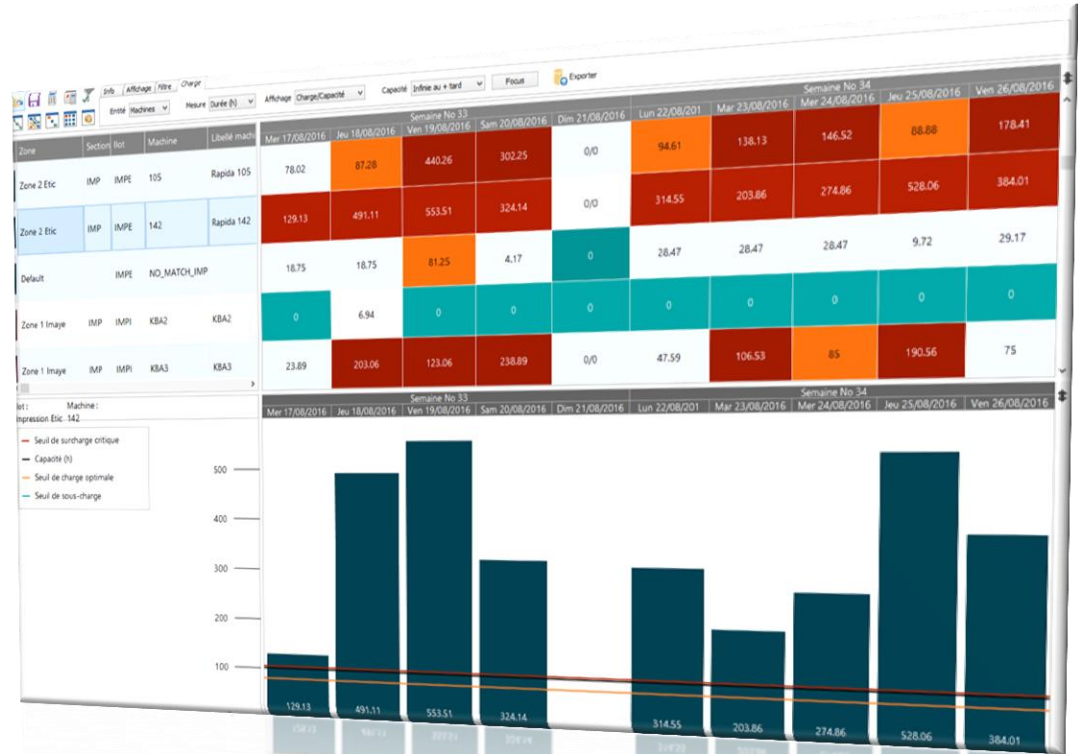
Clear Visibility on production

- ✓ Graphical planning
- ✓ Interactive Gantt charts with drag & drop
- ✓ Easy to understand
- ✓ Contextual display



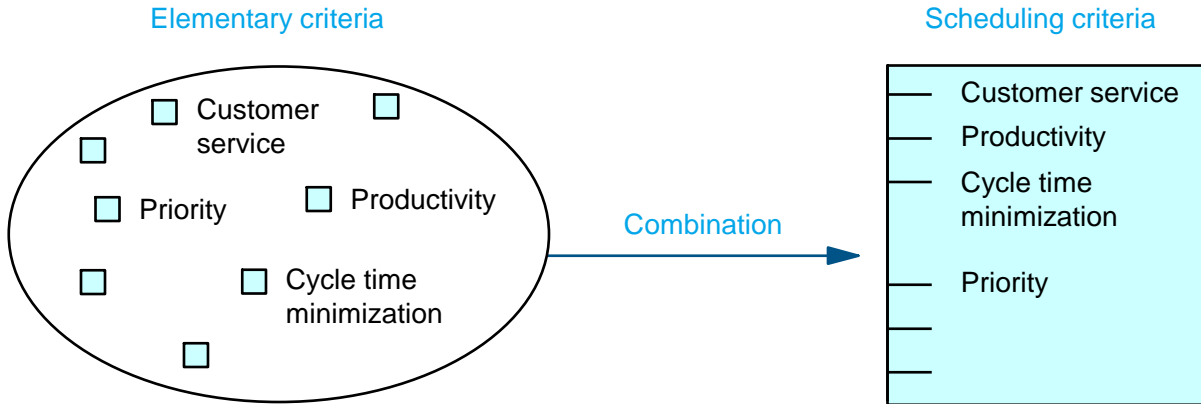
High-end Functionalities

- ✓ Manufacturing & scheduling constraints modeling
- ✓ Cutting edge optimization engine: Load levelling & scheduling
- ✓ “What if” capabilities
- ✓ Finite and infinite capacity



Powerful algorithms / Standard libraries

Customization of the scheduling criteria with regard to your strategy



- Global or per machine criteria

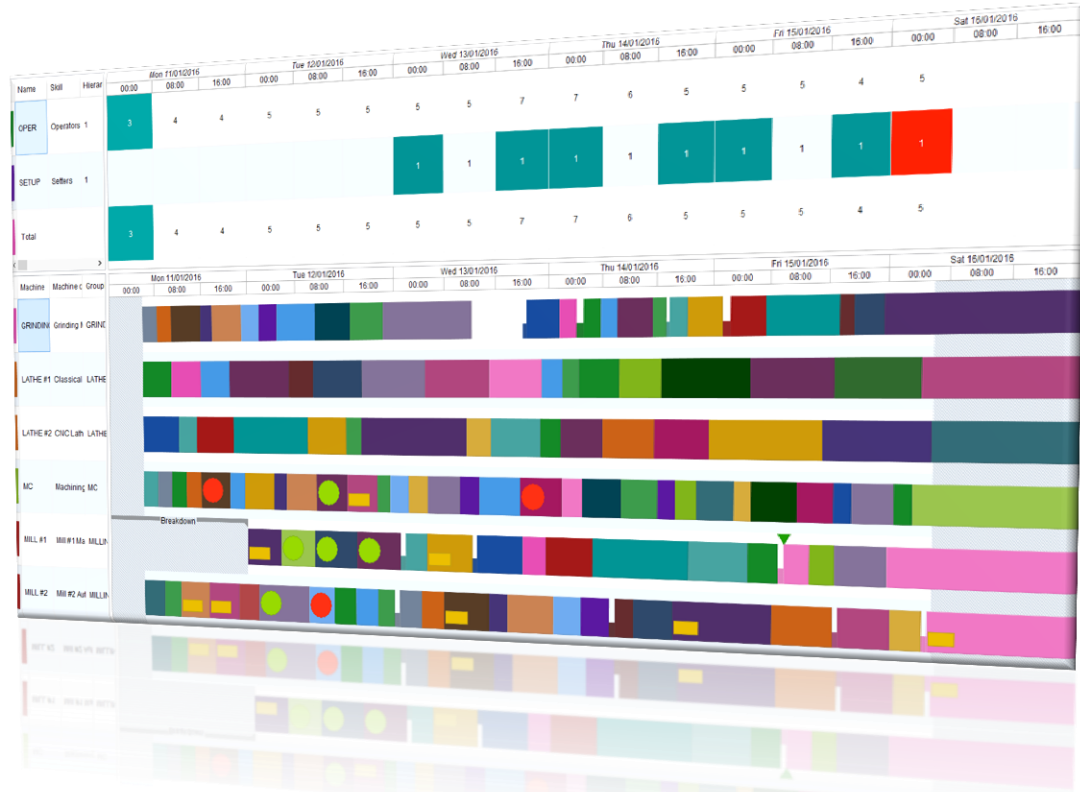


- Optimization of:

- Resource assignment
- Sequencing (set-up time optimization, ...)

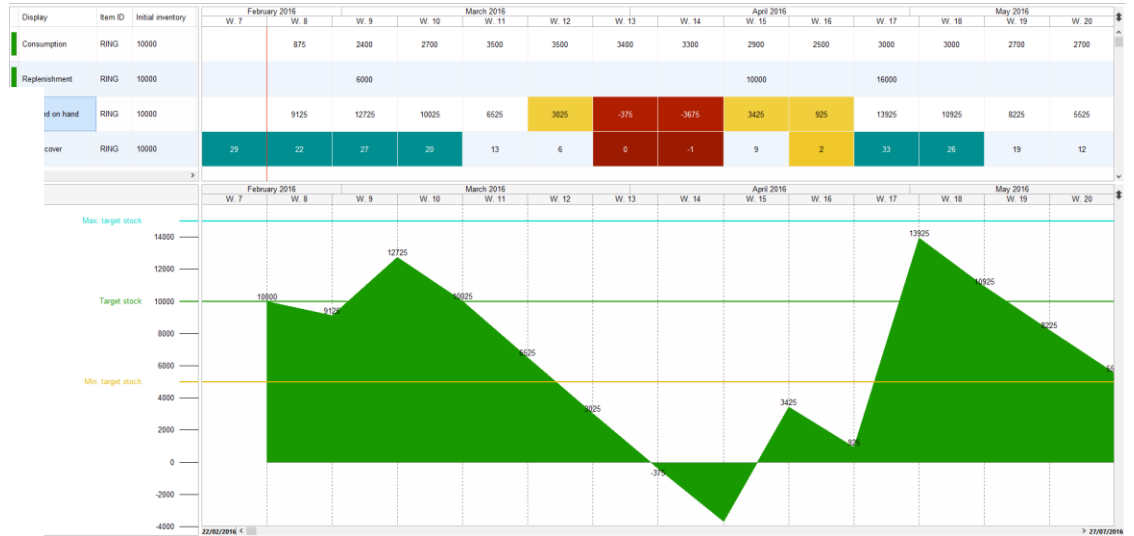
Multi constraints

- ✓ Machine
- ✓ Labor (skills, habilitation)
- ✓ Inventories
- ✓ Supplies
- ✓ Material flow synchronization
- ✓ Set-up time
- ✓ Tools, space ...



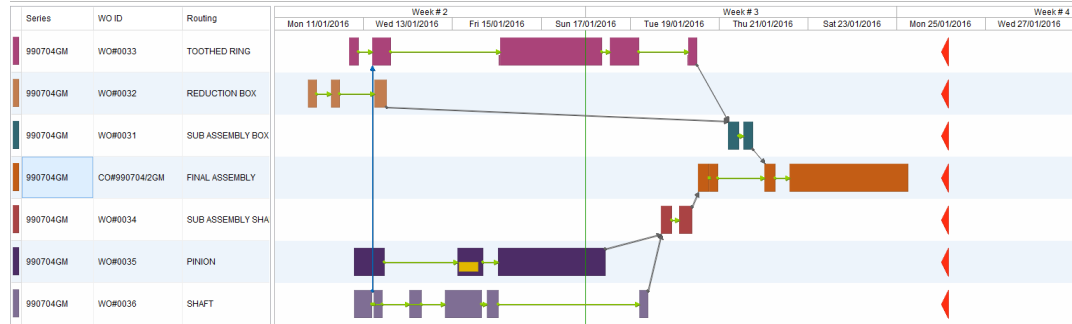
Inventory optimization

- ✓ Stock coverage analysis (mini/max, target)
- ✓ Alerts: stock out, overstock...
- ✓ No missing parts

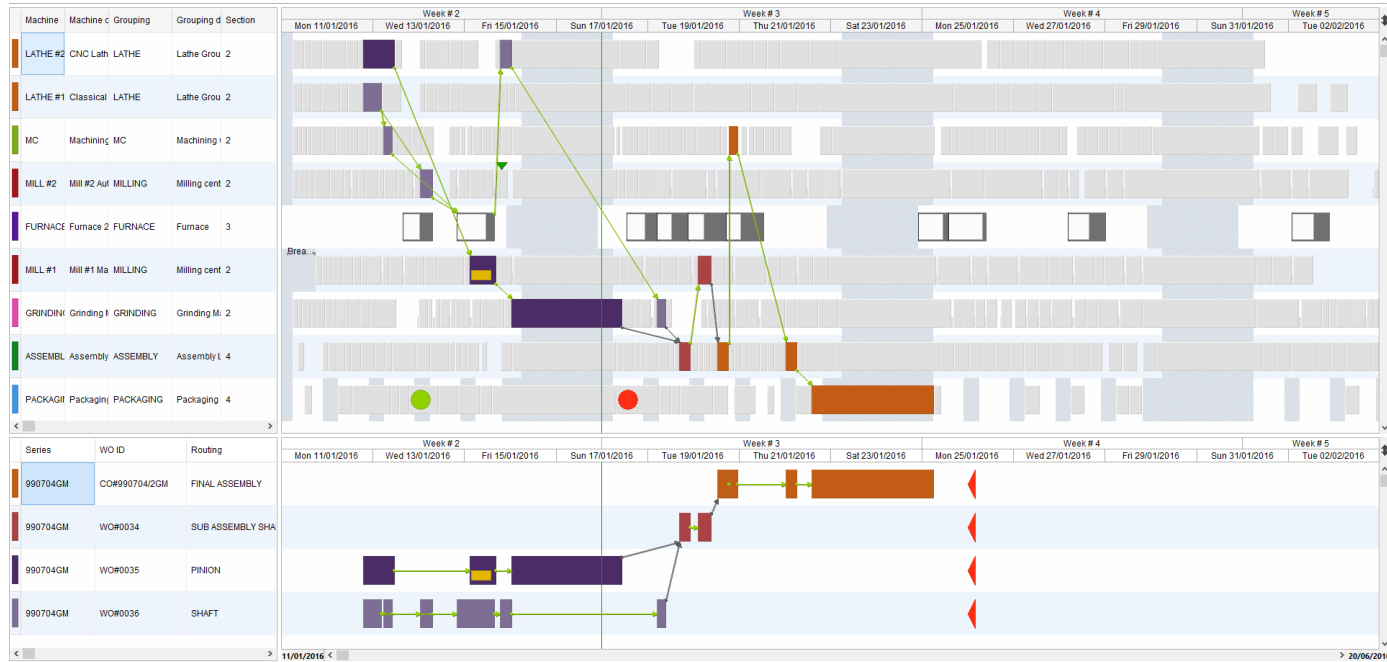


Multi level BOM synchronization

- ✓ Coordination and synchronization of production flow and critical supplies
- ✓ WO pegging (links between WO)

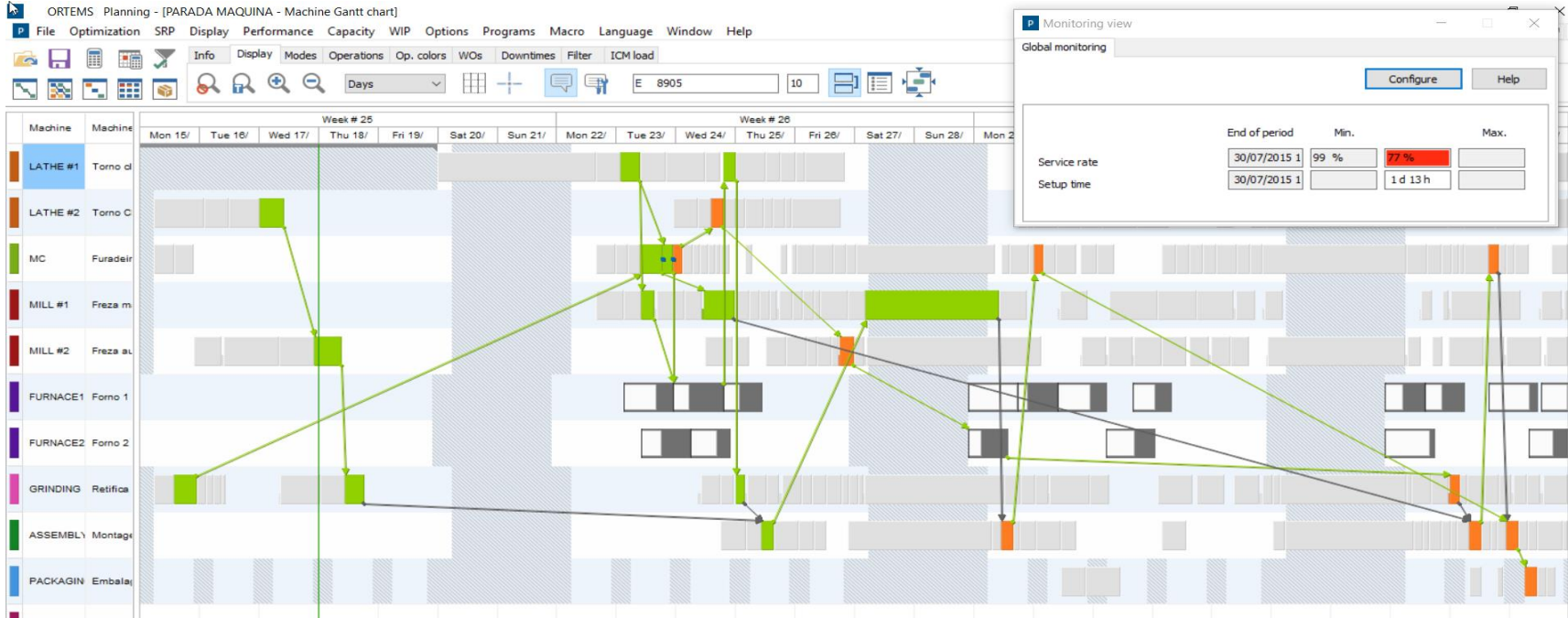


Multilevel BOM Scheduling Optimization

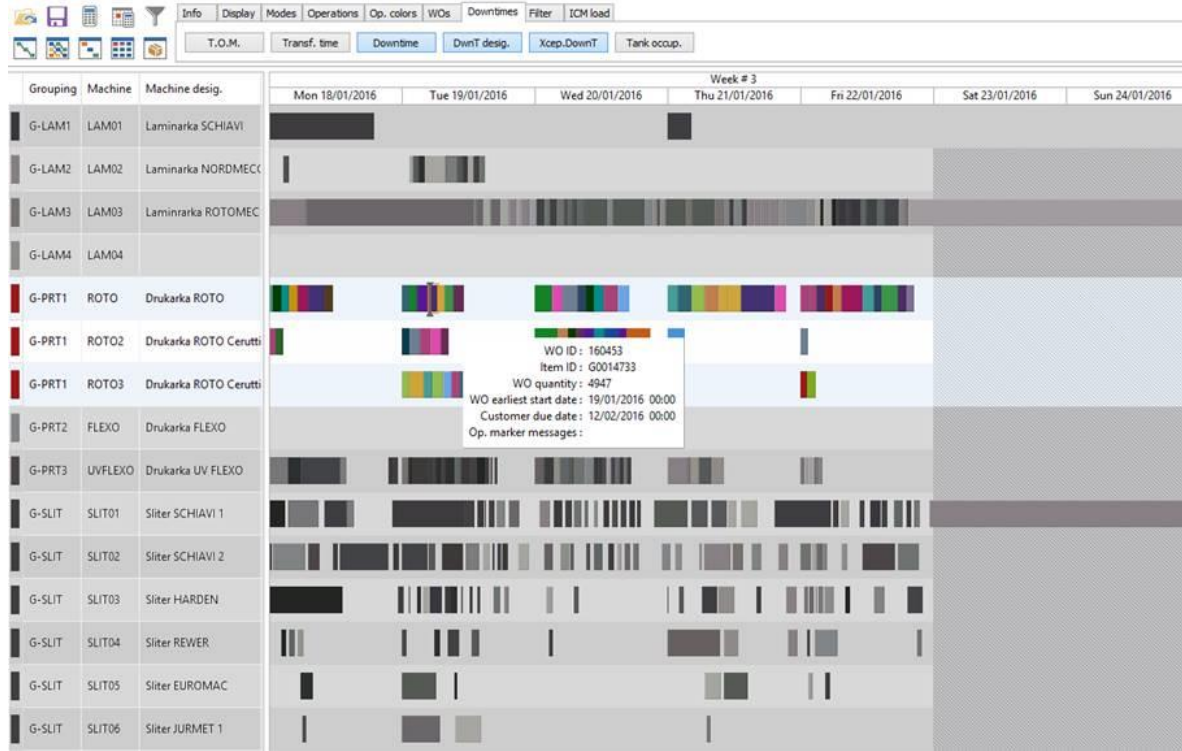


Synchronization & Automatic propagation & key performance alerts

- Minimize waiting time on dependent tasks

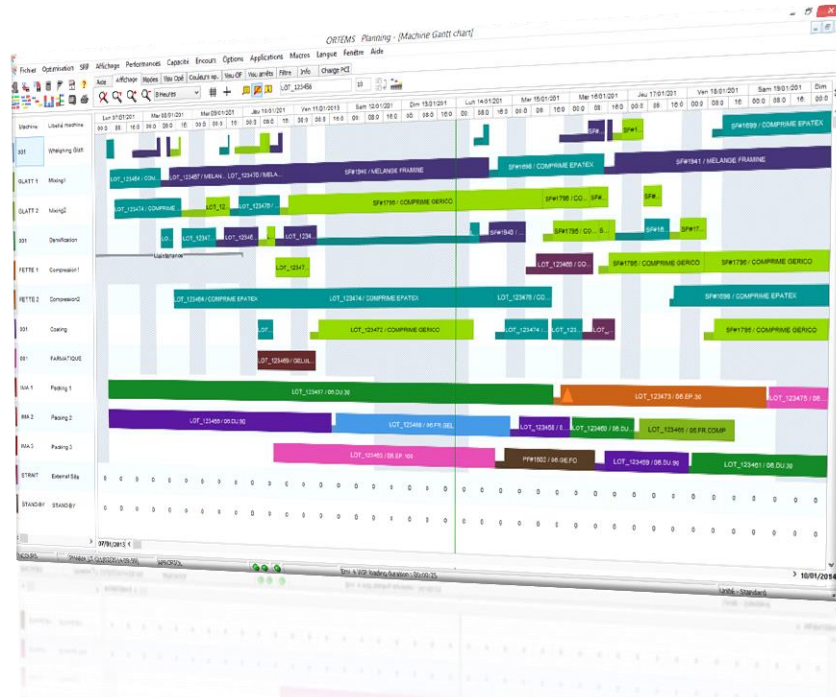


Multi-resource scheduling / Multi line



Natively Collaborative

- ✓ Multiple planners working simultaneously
- ✓ Single repository
- ✓ Shared information
- ✓ User profiles

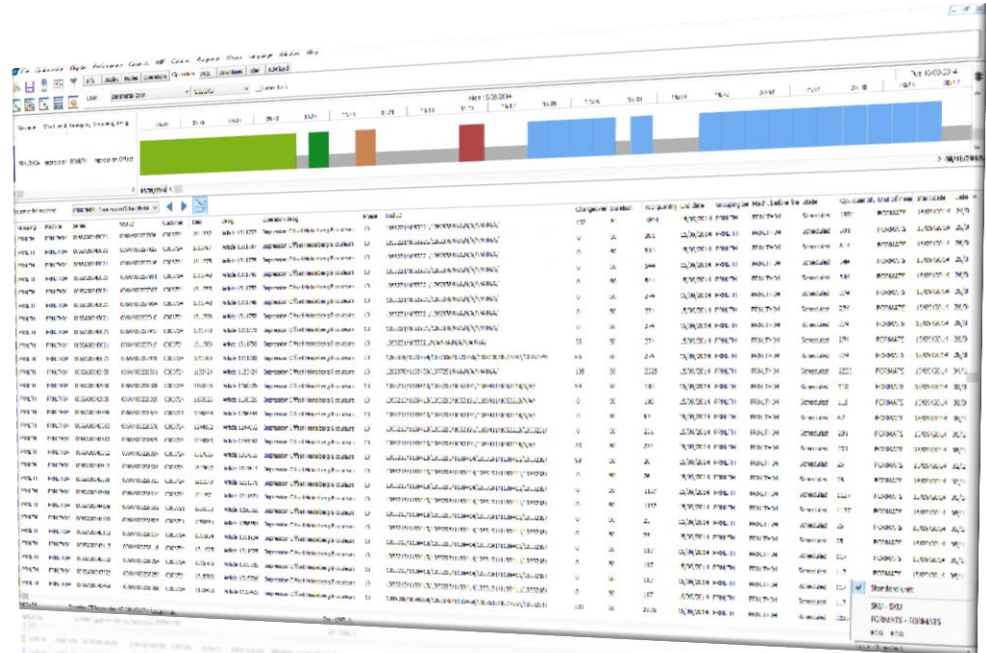


Set-Up time optimization

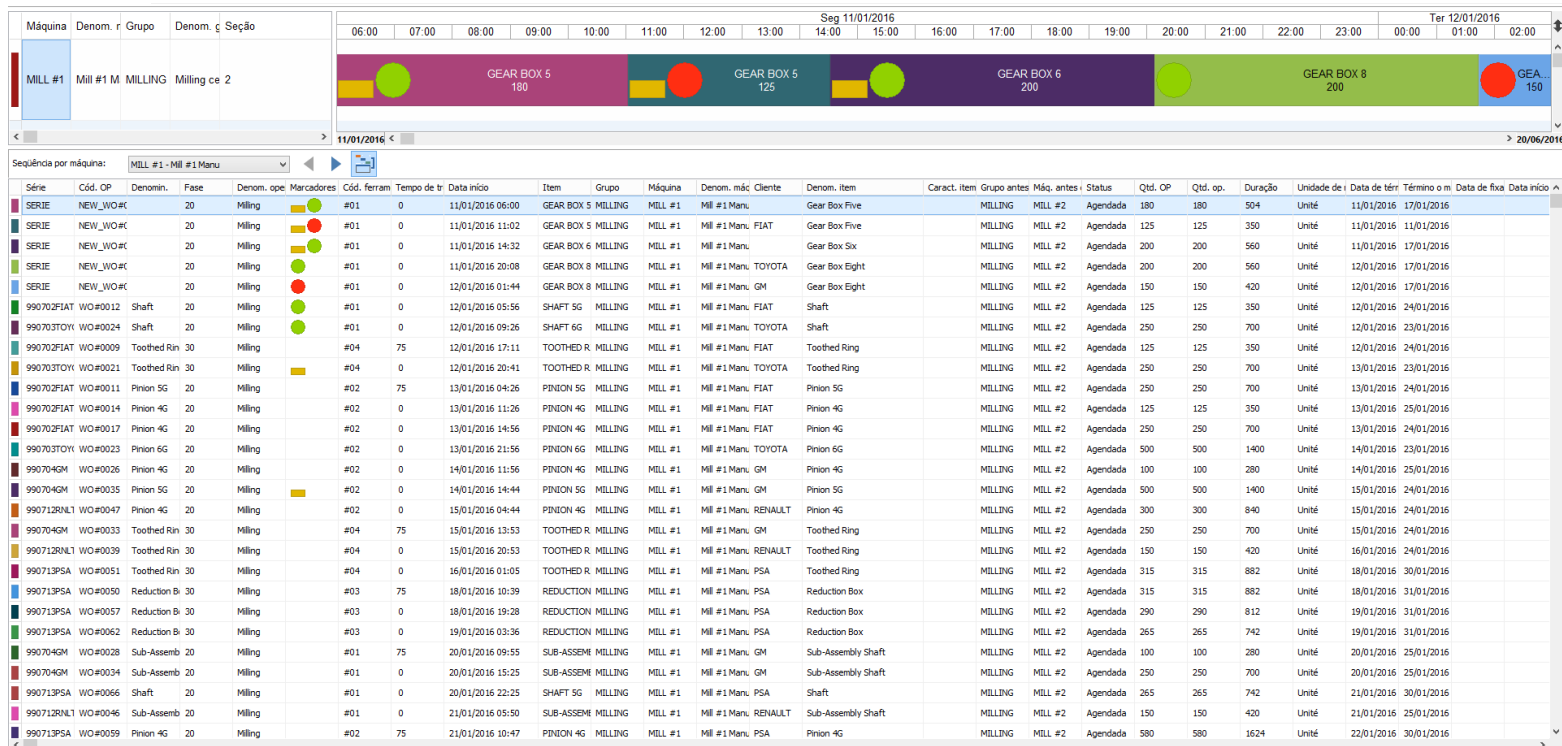
✓ Multiple parameters:

- Items parameters
- Materials
- Molds
- Tools
- Colors
- Width
- Thickness...

✓ Set-up time are drastically reduced



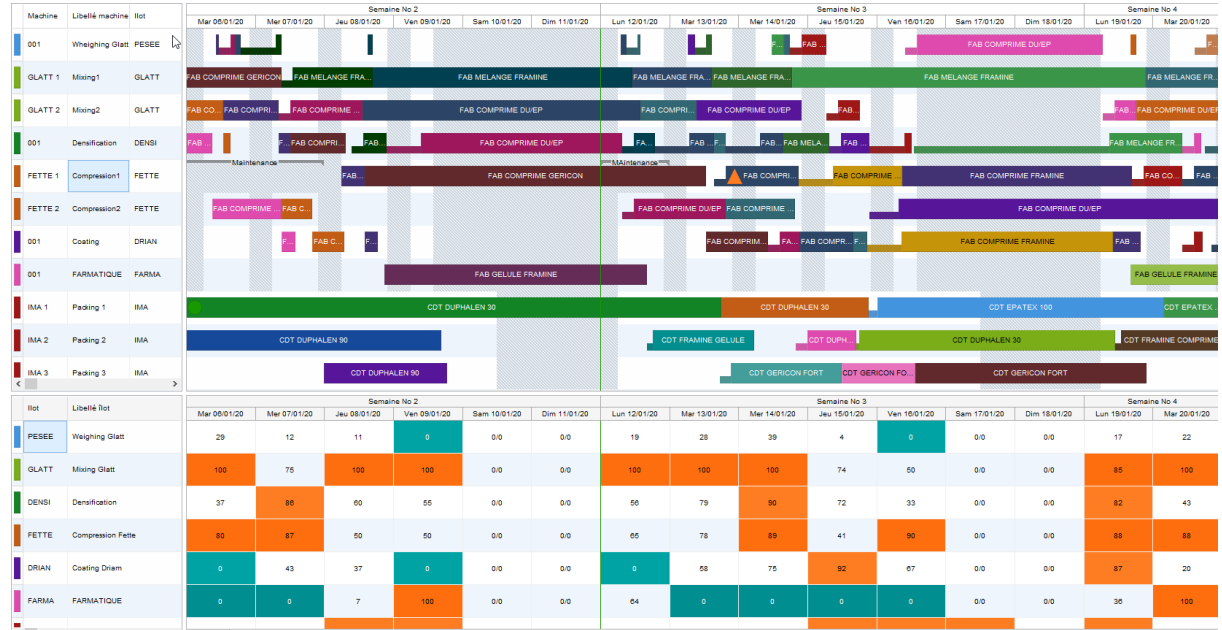
Right priority



Graphical and intuitive UI for planners

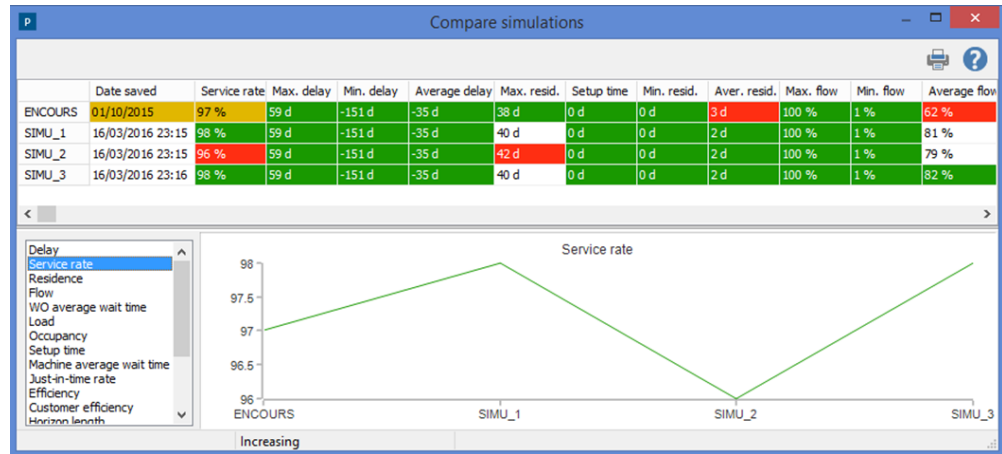


- ✓ Intuitive
- ✓ Easy / Fun to use
- ✓ Touch screen



Take the right decision

- ✓ Anticipate: don't wait until it is too late
- ✓ Highlight bottlenecks issues
- ✓ Due date confirmation
- ✓ Facilitate decision making
- ✓ Key performance indicators
- ✓ Be as fast as your market



Integration expertise



- Easy and fast Integration thanks to:
 - A unique technology in the market
 - A certification process with leading ERP solutions
- 150+ ERP, MES already connected
- Certified solution

Seamless integration with MES/ERP (no manual data transfer)

Ortems Visual Interface Configurator

- Ease of Integration
- Multiple systems
- Packaged, repeatable solution
- Integrated scheduler

ORTEMS VIC Supervisor: Workflow utility to define business flows between applications.

ORTEMS VIC Editor: Allows to configure the integration and define the business flows and the data mapping field by field.

ORTEMS VIC Runtime: Performs data transfer as defined in VIC Editor

ORTEMS VIC IBU: Database utility tool

Enhancing SAP

A unique expertise with SAP

- Certified since 1997
- Proven
- Large scale Worldwide roll out
- Hosted / Centralized

SAP[®] Certified
Integration with SAP Applications

ORTEMS Ideal Complementary
Solution with SAP

BAPI & IDOCS

Upload & Download

From R/3, 4.6, ECC6, APO...

DELMIA Delivers DIGITAL CONTINUITY



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OPTIMIZE

Schedule and Predict Your Global Industrial Operations

► Digital Continuity Impact

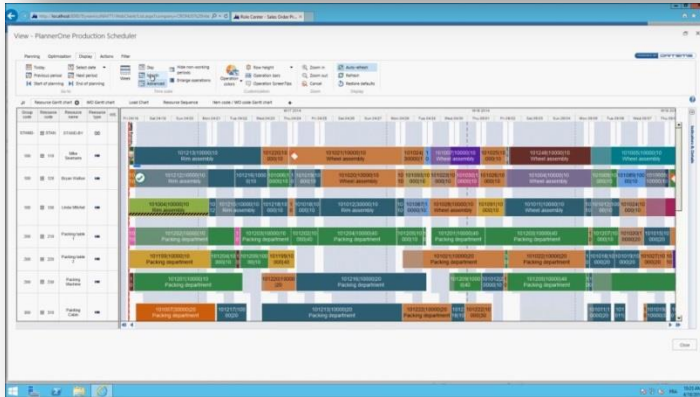
- ▷ 3DEXPERIENCE Platform for Business Operations Planning linking demand, capacity and design for NPI decision support
- ▷ Dynamic re-planning driven by real-time operational information

► Business Value

- ▷ Planned outcomes to maximize business goals
- ▷ Faster, and efficient responses to customers, change, and events

► Leadership in Operations Planning and Optimization

- ▷ Platform for all needs: Strategic to tactical decision support
- ▷ KPI-based planning with real-time decision support
- ▷ Record-breaking optimization processing speed



DELMIA Delivers DIGITAL CONTINUITY

- ▶ Collaborative platform for Global Industrial Operations
- ▶ Connectivity – Edge Computing to Big Data
- ▶ Virtual and Real World Model
- ▶ Long Term Planning to Real Time Execution
- ▶ Empower the User Experience with Comprehensive Decision Support



