

Production Planning and Scheduling Optimization

Smarter Planning Better Business Outcomes

Puls8 Replan transforms production planning by delivering better business outcomes—balancing service, capacity, and inventory in an automated, intelligent way. Designed to replace manual Excel-based processes, it enables ideal product sequencing for complex manufacturers. Puls8 Replan streamlines supply planning and production scheduling—especially for process manufacturers such as CPG and Food & Beverage—by rapidly automating supply plan optimization and unlocking fast, flexible scenario planning.

Backed by highly experienced consultants who understand your business, we don't just deliver software—we deliver results with expert guidance every step of the way.

SMARTER, FASTER PLANNING

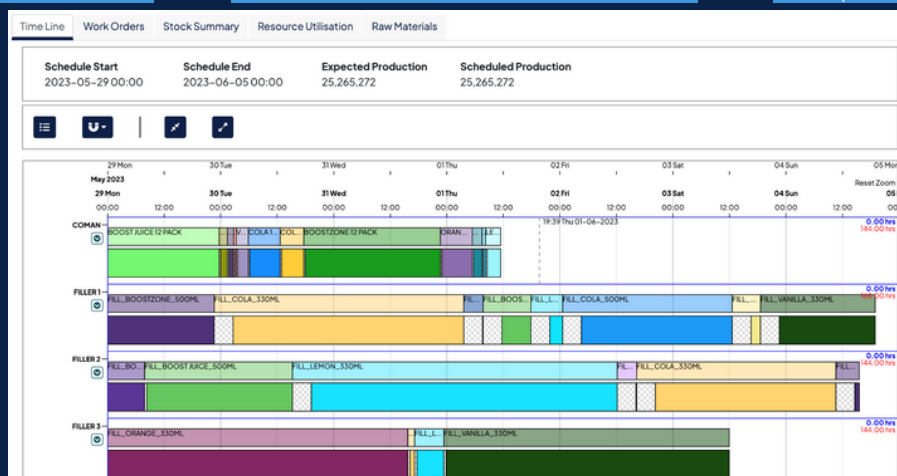
- Optimizes product sequencing to eliminate unnecessary changeovers
- Handles complex, multi-level and recipe-based production environments
- Supports agile short-term scheduling and long-range planning (Weeks 2–52+)
- Enables rapid “what-if” scenario modeling for fast decision-making

AUTOMATED EFFICIENCY

- Eliminates manual errors through intelligent automation
- Functions as a rapid-response module to quickly adapt to changing constraints
- Integrates seamlessly into existing ERP systems—no overhaul required
- Ideal for recipe-based and high-variation production environments

EXPERT-DRIVEN RESULTS

- Delivered with hands-on support from experienced supply chain consultants
- Team brings decades of industry knowledge to configuration and rollout
- Reduces planning headcount and unlocks additional production capacity per site
- Ongoing guidance ensures long-term value and continuous improvement



Benefits:

Puls8 Replan delivers powerful, AI-driven planning optimization that helps manufacturers make the right products, in the right quantities, at the right time. With intuitive configuration, rapid scenario modeling, and intelligent automation, Replan transforms complex constraints into clear, actionable plans. It maximizes efficiency and profitability by reducing downtime, improving OTIF, and tailoring plans based on detailed run rates and batch sizes. Designed for seamless integration—especially with Puls8 360—Puls8 Replan bridges long-term planning with short-term execution, delivering precision, speed, and clarity across your production resources.

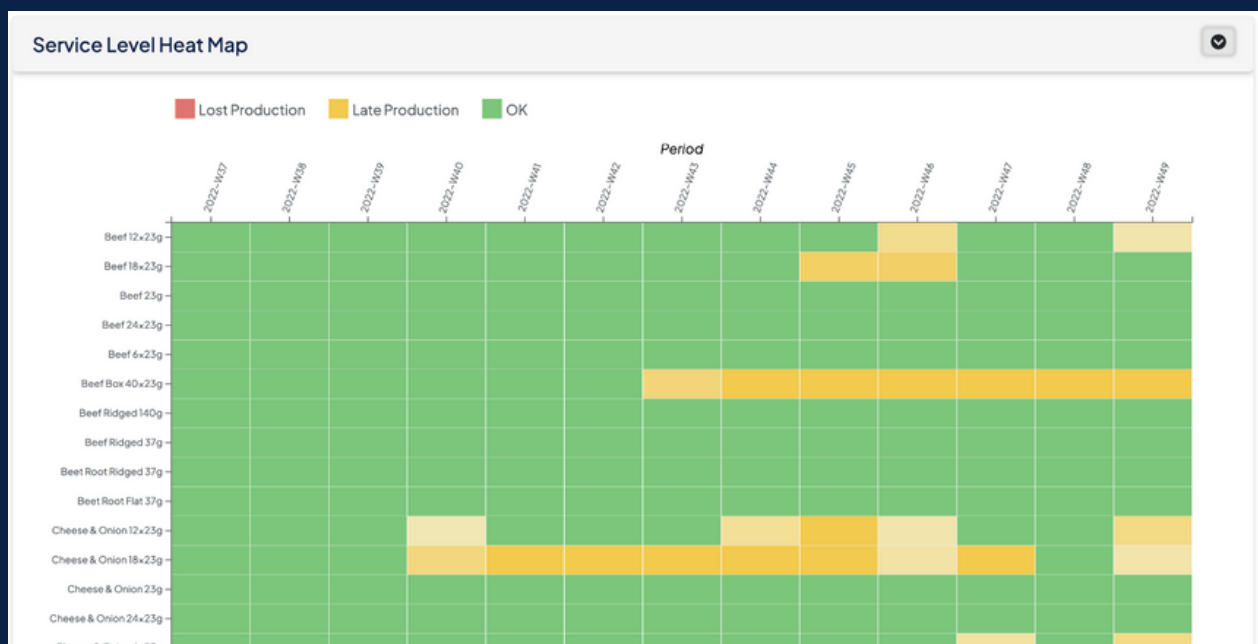
Category	Old Way	New Way with Puls8 Replan
Data Access & Intergration	Lengthy, costly IT projects to unlock rigid ERP data	Seamlessly connect to ERPs and planning systems via API.
Business Rules & Objectives	Hard-coded rules require time, money, and specialists to update	Easily manage logic, constraints and goals—no coding or customization needed.
Optimization Algorithms	Limited, inflexible, and hard-to-tune algorithms.	Choose from a library of smart algorithms that generate optimized, synchronized plans in minutes.
Scenario Planning	Slow, IT-dependent process limited to static data.	Instantly simulate any situation. Clone inputs, test outcomes, and decide faster.
Automation & Guidance	Manual prioritization with minimal alerts or insights.	Intelligent automation with alerts and dashboards to focus on what matters.
Cross-Team Alignment	Siloed data, goals, and terminology across functions.	Unite teams with shared objectives, metrics, and timelines across the organization.
Time to Decision	Days to weeks to assess and act.	Minutes to hours. Quickly evaluate impact and alternatives to act in time.
Time to Implement	Months	Weeks
Total Cost of Ownership	\$\$\$\$\$\$	\$\$

How it Works:

Powered by the secure, scalable, and reliable AWS cloud platform, **Puls8 Replan** incorporates Digital Twin technology for precise simulation and planning. It seamlessly integrates with your existing systems via secure APIs, automating data exchange. Whether starting manually with printouts or fully automated, Replan maps your current processes and then optimizes production sequencing to minimize changeovers and maximize efficiency. Production schedules are managed in flexible weekly segments.

With improved scenario planning, planners gain proactive control over capacity, inventory, and raw material management. When unexpected line disruptions occur, Puls8 Replan automatically replans production, saving weeks of delay and reducing waste.

By eliminating manual Excel-based workflows, Puls8 Replan frees planners to focus on strategic decisions instead of firefighting, preventing shortages, overproduction, and duplicated efforts across departments. Say goodbye to planning headaches and inefficiencies.



Implementation & Support Approach :

Our structured implementation process is led by highly experienced practitioners who bring deep industry knowledge and best practices to every project. This ensures a smooth, efficient deployment tailored to your unique needs:

- **Project Management**
- **Business Discovery**
- **Data analysis, preparation, validation, transformation**
- **Process design and change management**
- **Configure and test Puls8 Module**
- **Training and UAT**
- **Go Live (validation, parallel operation)**
- **Hypercare**

Our multi-tiered support model ensures fast, effective issue resolution and ongoing value, with clearly defined roles for a seamless support experience.

Level 1: Client SME

INITIAL TRIAGE OF ISSUES FROM INTERNAL PULS8 USERS; ESCALATES AS NEEDED.

Level 2: MSP Support

DIAGNOSES TECHNICAL, CONNECTIVITY, OR ENVIRONMENT ISSUES; OWNS ESCALATION AND RESOLUTION.

Level 3: Demand Chain Ai Support

HANDLES DATA INTEGRATION, FUNCTIONAL QUESTIONS, AND TICKET CLASSIFICATION (SUPPORT VS. ENHANCEMENT).

Level 4: Product Management

FINAL ESCALATION; REVIEWS COMPLEX ISSUES AND MANAGES UPDATES VIA CHANGE CONTROL.

WHY CHOOSE PULS8 REPLAN?

AI-powered planning that delivers results – *FAST!*

Smart Technology

- Proprietary optimization algorithms
- No-code interface—fast, flexible adjustments
- Seamless ERP integration
- Instant, automated scenario planning

Proven Results

- Increase in production capacity
- Cut planning headcount
- Improve forecasting, shift plans, and budgeting accuracy
- Zero-error planning through automation

Scalable & Sustainable

- Adapts as you grow—new lines, new markets
- Reduces waste and boosts efficiency
- Strengthens organizational alignment and culture
- Builds trust through consistent delivery

Over \$30M in Annual Supply Chain Savings Delivered!

Unlike competitors relying on outdated Linear Programming (LP) methods—which often time out or generate inaccurate forecasts based on assumptions—Puls8 Replan calculates outcomes directly with zero error. While many solutions—from low-mid tier tools to top-tier platforms—depend heavily on traditional ERP backbones and manual processes, Puls8 Replan offers true automation and speed without sacrificing precision.

Smart Technology





Proprietary Algorithms No-code Interface Seamless ERP

Proven Results





Increase in production capacity Cut planning headcount Improve budget accuracy

Scalable & Sustainable





Adapt as you Grow Reduces Waste Builds Trust

Customer Success Stories:

Global Meat & Protein Supplier

- In just eight weeks, Puls8 Replan was deployed on two key production lines, reducing planning time from **three days to 30 minutes**. It improved data accuracy, enhanced planner morale, and accelerated strategic decision-making. The customer is now on track for a **€1M+ margin increase**—while already implementing further process improvements.

Leading Central Asia Bottler

- Working closely, the client and Puls8 Replan leveraged intelligent algorithms and rapid scenario planning to boost product availability by **5%**, cut inventory **23%**, increase capacity use **34%**, and reduce planning time from five days to 30 minutes—enabling agile, efficient, and smarter supply chain decisions that impressed leadership and planners alike.

Sustainable European Snackmaker

- Through close collaboration, the team leveraged Puls8 Replan's intelligent algorithms and rapid scenario planning to achieve a **5% increase in product availability**, **19% reduction in labor costs**, **57% fewer changeovers**, improved demand alignment, and planning time cut from **two days to 30 minutes**—resulting in a £2.6 million gross margin gain.

“Puls8 Replan is a very good tool for budgeting as it allows many different parameters to be taken into account. It can respond very quickly to a machine breakdown or a change in forecast.”



Demand Chain AI brings deep expertise in Consumer Packaged Goods, particularly Food & Beverage, with over 1,500 years of combined experience. We deliver practical solutions in supply chain planning and forecasting.

Puls8 Intelligent Planning Solutions provide end-to-end, data-driven technology, enabling seamless operations, precision forecasting, and smarter decision-making.

By combining industry expertise with innovative solutions, we help businesses drive efficiency, improve agility, and achieve sustainable growth in a dynamic marketplace.