

WWW.PLANETTOGETHER.COM



#DIGITALTRANSFORMATION

WHAT'S PLANETTOGETHER?

PlanetTogether is an easy-to-use planning and scheduling platform for industrial companies to run smart factories at peak productivity with less stress. PlanetTogether enables you to flex your manufacturing resources to achieve your desired results.

Manufacturers use it to

- Achieve greater lean, agile and capacity planning
- Use Gantt scheduling for sequencing
- Enable agile manufacturing for ERP
- Execute flexible supply chain planning and scheduling for global operations

Top Use Cases

- New order quoting (Capable to Promise)
- Demand-driven replanning (Inventory Plan and
- Detailed Schedule Optimization)
- Resource availability disruption
- Material availability disruption
- Order Expedite
- Proactive resource capacity planning

Business Functions

- Production Scheduling
- Inventory Planning
- Capacity Planning
- Production Execution
- Capable To Promise
- Production Analysis











Increased thruput / reduced per unit costs Increased sales through faster more reliable delivery Reduced WIP, raw material and finished good inventory

Advanced Planning and Scheduling





What's PlanetTogether



- Real-time Concurrency
- In-Memory Computing
- Azure Data Factory Integration
- Bi-directional Integration to any open system
- Extensibility
- Multi-Language
- Workspaces
- Themes
- Cloud or On-Premise

- Single, Batch, Multi-tasking & Infinite Resources
- Machine, Labor and Tooling
- Raw and Intermediate Materials
- Sequence-dependent Setups
- Operation Overlap (parallel)
 - processing)
- Shelf-Life
- Lot Control
- Extensible constraints to fit almost any need



Constraints Features

What's PlanetTogether

Platforms features

- Optimization, including Copilot(™)
- Scenario Comparison
- Metrics (past/present/future)
- Predictive KPIs
- AI Enabled Analytics (PowerBI)

- SSO SOC 2 attestation
 - End-to-end Encryption

- Schedule Reports Capacity Analysis Conformance to Schedule
- Inventory Analysis



Security features

Analytics & Reports



Key Takeaways

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Optimize schedules in seconds or minutes in most cases vs. hours in database systems. Data objects are always linked and up to date allowing complex logic to be done quickly.

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What-If Scenarios can be created quickly for immediate impact analysis of proposed schedule changes.



Allows longer planning horizons (months instead of days).



Access to all the data all the time -- this results in having a responsive user interface. Enables the scheduler to be more productive by having more data visible, concurrently instead of waiting for data to be sent from the server.

Blistering fast performance for your Supply Chain

Planning ahead

Run scenarios quickly to see impact





Key Takeaways

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Create custom algorithms or constraint extensions to automate planning and scheduling processes.



Faster development lifecycles and thus time to launch.



_ower risk of customizations interfering with core software upgrades.



Extensions can be created by partners and customers as well as PlanetTogetherno limits to what you can create on the PT APS Platform.

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Easy Upgrades



Data Driven model

Factory Constraint Model



Key Takeaways



The factory constraint model is based on importing data into preexisting features instead of coding or programming.



Features are available out-of the box faster implementation and less reliance on customized solution (Optimize flexible optimization no reliance on third-parties for solving).





Flexible out-of-the-box features handle common needs



The New Speed of Scheduling and Scalability

Always-on Collaborative Constraints

- Immediate updates when users make changes, so all users see the impact and are in sync at all times. Complete transparency as to impact between users.
- Most scheduling systems only allow one scheduler to be logged in at once. PlanetTogether enables multi-scheduler environments and interaction with other teams.
- Feasible Schedule Maintained with every change.
- Constraints are always validated in real-time.

This prevents scheduling mistakes in other systems where constraints are only periodically calculated. (For example, accidentally scheduling a product's packaging before the product is made.)

• Like high-speed gaming environments, processing occurs on local machines which are kept in sync with each other and the server, to provide the fastest performance without delays due to network latency or burdening company networks with high capacity frequent data flows.

In-Memory Architurecture





Real-Time Flexibility to Adapt to Challenges

Data-Driven Model

- The factory constraint model is based on importing data into preexisting features instead of coding or programming.
- Features are available out-of-the-box for faster implementation and less reliance on a custom-coded solution (Optimize flexible optimization with no dependence on third parties for solving).





Extensibility

- Let PlanetTogeter APS be highly flexible and tailored to different use cases - customize user interface/algorithms / etc. All critical custom constraints can be enforced. This leads to highly accurate and precise realistic schedules that can be relied on and followed on the shop floor.
- Extend existing optimization algorithms without a scratch (i.e., faster development lifecycles and time to launch). Many systems require a complete coding of the algorithm to customize. PlanetTogether allows all core logic and new constraints or rules to be layered. This is easier to build and maintain and will enable companies to take advantage of all the new functionality deployed with each upgrade.
- Extensions can be created by partners and customers as well as PlanetTogether-no limits to what you can make on the PlanetTogether APS Platform.



In-Memory Architurecture



• 100% of data can be modified in what if's. Many systems limit modification to the schedule only, not master data which allows simulating capacity changes, process changes, etc. All input data and scheduling rules can be modified between scenarios and results compared by custom-tailored metrics to choose the best method. If you can imagine it, you can run a scenario to analyze it.





TOP USE CASES

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Resource availability disruption

Material availability disruption

Order Expedite

Proactive resource capacity planning





DIVERSE MANUFACTURING CUSTOMERS













Food / Pharma / Packaging / Industrial / High Tech











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Contact us today to see the Possibilities

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