



# Decision Intelligence Solutions for Integrated Business and Supply Chain Planning

PlanningForce helps you get the most of scarce human and physical capital in a sustainable way, both short term and longer term to raise your performance

## PlanningForce solves complex supply chain planning and scheduling problems to raise your performance

Its Decision Intelligence & planning capabilities help optimize the use of limited valuable human and physical resources in order to :

- increase productivity/output in a sustainable way
- enhance reliability & compliance with external constraints
- deal quickly with demand changes and operational variability

## A new generation of planning & scheduling solutions dealing with both physical assets and human specific characteristics

PlanningForce powerful optimization engine was designed not only to deal with typical physical assets constraints but also to integrate constraints specific to human beings such as competence and experience profile, learning curve, location preferences, and work schedule constraints.

## Developed by academics with customers input and supporting best management practices

PlanningForce solutions are the result of over 15 years of business-applied development including 5 years R&D at the Polytechnic University of Mons and the integration of customers feedback and expressed needs. PlanningForce methodologies are proven to increase productivity and support best management practices.

## Powered by a powerful planning and scheduling intelligence

PlanningForce proprietary calculation engine:

- takes account of all project requirements on one side, and all resource capacity, on the other side, to calculate an optimal allocation match between them
- generates a resource-constrained schedule, while also taking into account priorities, resource levels, risks, historical values, estimated changes in time
- finds one of the best plans for even thousands of tasks in just a few seconds, using combinations of heuristic algorithms, and with automatic resource leveling

### WITHOUT PLANNINGFORCE : NO OPTIMUM ALLOCATION



### WITH PLANNINGFORCE : OPTIMUM ALLOCATION



## The output is an optimized multi-project plan

This realistic optimized plan calculates realistic project durations, optimal resource allocations, gaps or buffers, and delivers all related performance reports.

# Decision Intelligence for Integrated Business & Supply Chain Planning in 4 Industry Verticals

## Powerful simulation capabilities and quick replanning help to test multiple scenarios.

Scenarios testing helps to identify bottlenecks and test various short term and long term strategies to address them. The speed of the calculation engine supports commercial responsiveness and operational agility.

## PlanningForce supports all planning horizons and long, mid or short term business steering.

- Well informed Strategic Planning with various demand conditions and investment simulations.
- Integrated Business and Supply Chain Planning supporting commercial agility ('Real time' order feasibility) and delivering cost efficiency with better utilization of resources.
- Agile Operational Planning supporting lean processes.

## Enabling analytics and ongoing improvement.

The data model and the capture of relevant data at every step of the value chain feed a data warehouse. This enables powerful operations analytics for ongoing improvement.

If you wish to discuss how PlanningForce can help you achieve best in class supply chain planning: [sales@planningforce.com](mailto:sales@planningforce.com)

## 4 industry verticals

### Life Sciences industry

Customers in the Life Sciences industry leverage PlanningForce Clinical Studies to win the digital race and achieve a leaner, faster and more efficient phases 1 and 2 Clinical Studies process as well as more efficient and compliant laboratory operations.

### Vehicles, Machinery & Equipment

Vehicles, Machinery & Equipment customers are particularly benefiting from the greater commercial agility and reliability in addition to better supply operations and reduced costs.

### Aerospace & Defense industry

Aerospace & Defense customers take advantage of better capacity utilization in periods of fluctuating demand, less need for temporary resources or subcontracting and better supply management.

### Engineering, Construction & Operations

Engineering, Construction & Operations customers benefit greatly from getting an integrated view of their full project portfolio and from better coordination with subcontractors.

## Decision Intelligence powered by PlanningForce

A model of the operations to be optimally planned defines an intelligent data system and feeds powerful planning optimization intelligence.

