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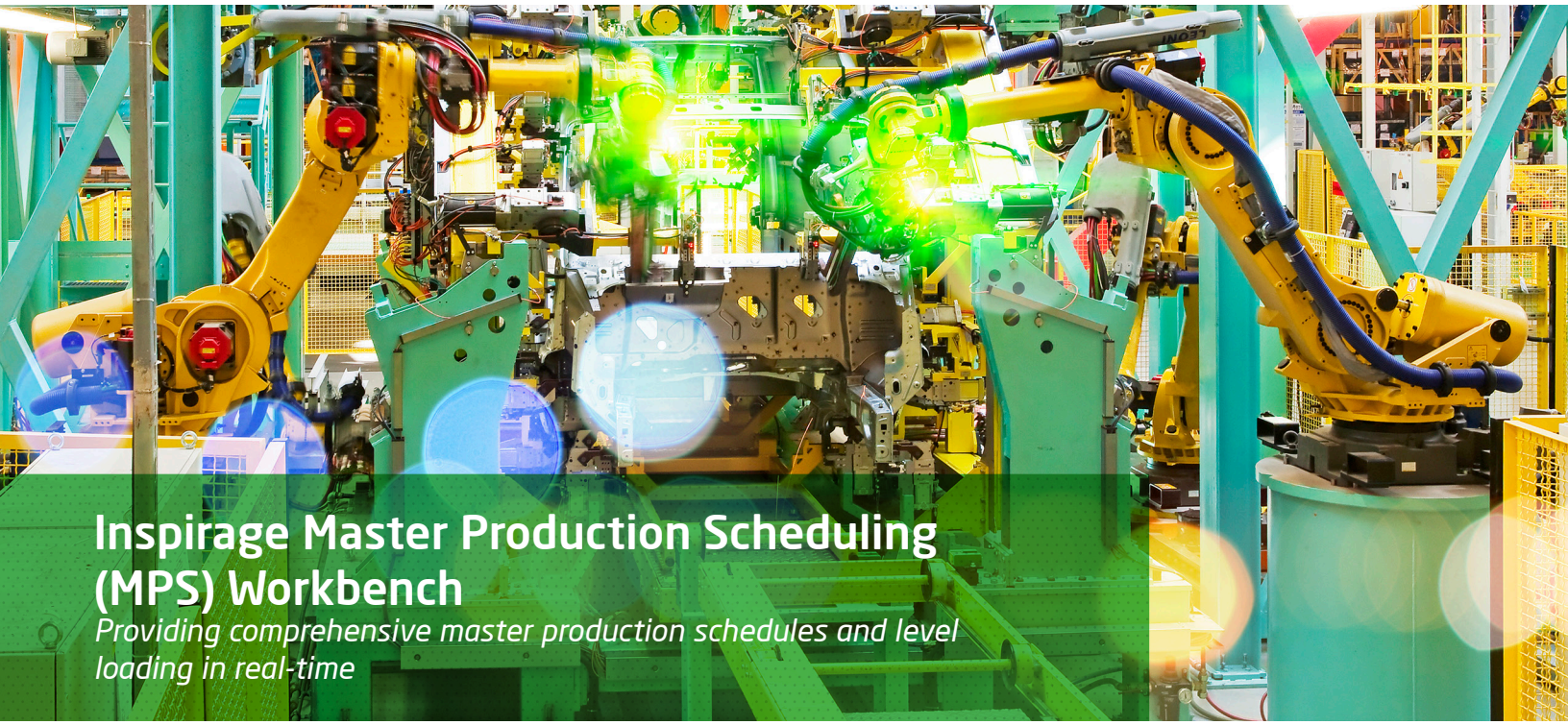

Inspirage Master Production Scheduling (MPS) Workbench

Providing comprehensive master production schedules and level loading in real-time

The Challenge

Manufacturing Operations groups often struggle with the sheer volume of parts they have to plan and produce. Master schedulers are expected to:

- Identify critical resources impacting on-time delivery
- Level load resource schedules while still meeting demand
- Quickly evaluate schedule impacts using resource loads
- Evaluate and understand multiple scheduling scenarios in order to make the best decisions considering many factors
- Ensure planned end-item schedules are “executable” on the factory floor

While these tasks are often being performed at a SKU level, high-level evaluations of the organizational capabilities must also be considered. Master Schedulers need system support to perform quick feasibility checks of multiple scheduling options.

Solution Benefits

- Manage bottleneck resource using simple level loading technique
- Set quantity based production rates
- Visibility to multiple critical resources in single view
- Perform real-time simulations and publish the results

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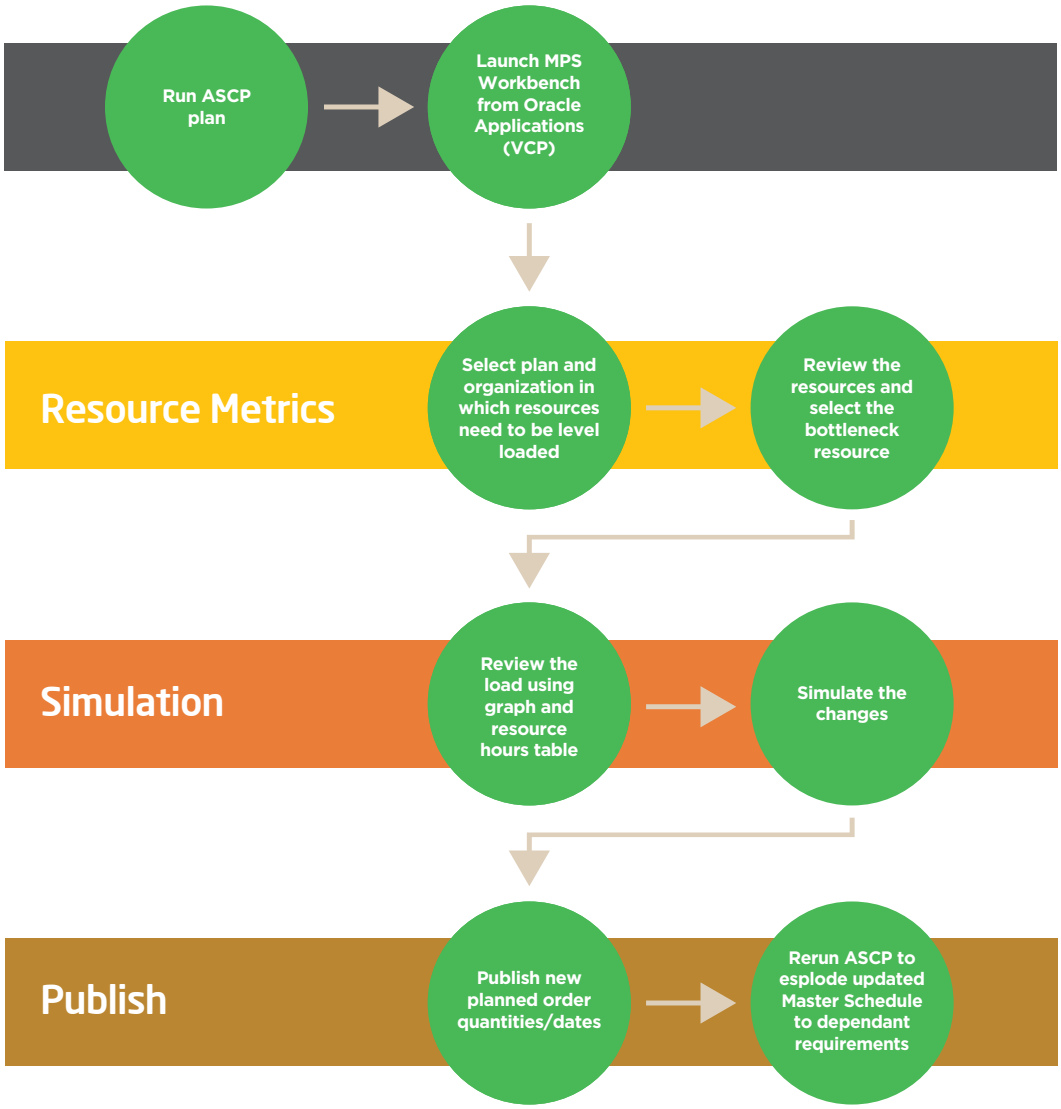
The Solution

Inspirage's **Master Production Scheduling Workbench** will help you plan and evaluate your master schedules in minutes. The solution works as a complementary component to the overall Advanced Supply Chain Planning (ASCP) solution offered by Oracle.



Bottleneck / Critical Resources

Typically, one or a small number of resources hold the key to successful master planning processes. Inspirage's solution allows the user to automatically download the most critical production resources and all the items produced on these resources to a single view. Planned orders and jobs that consume the resources are also downloaded from a designated ASCP plan to give the planner all the information needed to make and simulate master scheduling options.

Schedule Modification And Evaluation

Users will be able to pull up the items and the orders processed by the resource/s in a time-phased format. The data rendered will provide ultimate flexibility to modify the schedules either bucket by bucket or by rate-based loading. In addition, there will be full visibility into the amount of work modeled, in units or hours, by item and bucket.

With a push of a button, the planner will be able to recalculate requirements for all of the critical resources and have visibility in one screen. A series of graphs and material plans will enable the user to quickly analyze resource loads for the modified schedule.

The planner can continue to modify the schedule and re-calculate resource loads until he or she arrives at an acceptable schedule.

Publishing The Results

A primary goal of master scheduling is to provide a valid demand to lower level items and/or lower level facilities. With Inspirage's **Master Production Scheduling Workbench**, the user can pass the modified and acceptable schedule into a designated ASCP plan. When the ASCP plan regenerates, the planner will have the support of downstream facilities and/or materials to execute schedules.

"Real-time" decision making is critical to a manufacturing company's ability to be competitive in today's global economy. Inspirage's Master Production Scheduling Workbench empowers the Master Scheduler with the information necessary to quickly and effectively understand the impact of various planning options, resulting in improved on-time delivery performance and operational efficiencies.

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