Optimization Simulator, Multi-Purpose Optimization of Production

**Outline of Optimization Simulator**

Optimization Simulator is SaaS that combined with simulation and optimization that calculate the order of product introduction to meet multiple KPIs (Production lead time, utilization, cost, etc.) during production planning. It will support the optimization of plant operations as a new production solution for Fujitsu.

The optimization engine adopts OPTEMLIS™ developed by Fujitsu Laboratories, Ltd. It is also a required software for the COLMINA V2 scenario "minimization of production impact".

**Optimization Simulator in Multi-Product and Small Volume Production**

<table>
<thead>
<tr>
<th>Case1</th>
<th>Problem</th>
<th>Complex Production Plan</th>
<th>The combination of the order of product introduction is complicated and enormous.</th>
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**Case2**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Deal with Incident</th>
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<td>Unable to abruptly change the initial plan.</td>
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**Quickly calculate complex, massively combinatorial problems**

**Formulation of recovery plans based on the assumption of sudden events**

**Application Examples**

**Captive Factory**

- Product Plan
- Provide non-stagnate input plan
- Throughput: 20%↑

**Other Company's Factory**

- Manpower Plan
- Manpower Saving: 20%↑
- Productivity: 19%↑

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