



»One plan it« - Production and personnel planning tool

The Project

Classic production planning in the area of make-to-order production leads to a hierarchical procedure. Production and personnel are planned separately and consecutively by the planning teams, which involves a great deal of effort and additional costs. As a result, there are often staff overages and staff shortages, which entail further costs.

One plan it breaks down the planning hierarchy of this approach and at the same time simplifies the planning process by providing results with the help of an optimizer based on a mathematical optimization model developed by the Fraunhofer IFF. The tool can be integrated into the customers IT infrastructure via extensible interfaces to connect to ERP, MES and HR systems to get manufacturing and staff related data and is not intended to replace these systems.

The Team

Location: Fraunhofer Institute for Factory Operation and Automation IFF

Members: Alexandra Maierhofer (Project Manager), Lina Lau (Product Manager), Andreas Wiedemann (Software development) Tobias Kutzler (IT-Architect), Marc Kujath, (Product Manager)

AHEAD Infos Batch: 12 (2022) Phase: 2 Track: licensing

The Business Model

Unique Selling Proposition:

Breakdown of the planning hierarchy (personal and production planning one same level), automated distribution of existing resources

Unfair Advantage:

We are the only solution provider who combines production and staff planning and we have experience in a specific branch (aircraft industry) based on a first customer project.

Revenue Model:

licenses and service, detailed pricing model will be developed in phase one

Venture Readiness Level



Technology Readiness Level



The Side Facts

Customer Focus: B2B

Searching For:

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Industry Tags:

industrial goods & service, software & service, utilities

Technology Tags:

customization, smart factory, user engagement, zero waste