How to run a Logistics system at every Operating hour at the Optimum?

Holistic Approach to Operations Optimising
Holistic Approach to Operations Optimising

Operational Problems
- Complex System Designs
- Continuously changing Operating Conditions
- Operational Control depending on a lot, partly contradictory Parameters

SMART Factory
- Better Use of available Resources!
- Learning System with every Operating hour!
- Fast Adjustment to new ambience Conditions!
Holistic Approach to Operations Optimising

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Personnel

Machine

Goods

Environment
Holistic Approach to Operations Optimising

Modules of the application

Module 1: Foresightful Operations Planning
- Short, medium, and long-term Operations Scheduling with holistic optimum over all involved components and resources (Personnel, Machine, Goods, Environment)

Module 2: Online Optimisation of available Resources
- Especially at ongoing changes the detection and fast remedy of bottlenecks (resp. over capacities) is very demanding – system performance optimisation with BCS

Module 3: Continuous Improvement
- With the help of active, system guided learning at every operating hour the experience will be transferred into Know-How – automated adjustment of system model
Holistic optimised Operating Plan will be calculated based on selected strategies (highest throughput, most economical resources usage, etc.) – derived from system model (+ configured conditions and references) using costs and performances.

Module 1: Operations Planning
Module 1: Operations Planning
### Module 2: Online Optimisation

#### Cockpit Details

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#### Process steps

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#### Production performance

![Graph showing production performance over time]
Module 3: Continuous Improvement
Seamless integration into existing environment
Immediate assessable, commercial Benefits

- Minimised Personnel and System efforts due to holistic Operations Scheduling of all resources
- Increased Average Performance, because of online Bottleneck and Excess capacity detection
- Transparent Competence Management leads to higher Operator performance and satisfaction
- Data based Foundation for best-practice approaches

Don’t regret costs afterwards, actively manage them beforehand