





SUSTAINABLE SUPPLY CHAIN MANAGEMENT @ LUFTHANSA CARGO

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Agenda



- 1 Facts & Figures: Lufthansa Cargo AG
- 2 Project Overview Supply Chain Management
- 3 Production Planning with Quintiq Software
- 4 Global Planning & Control (GPC)

Let's start with a quiz:





Facts & Figures: Lufthansa Cargo

Facts and figures – Lufthansa Cargo Network





300+

Lufthansa Cargo stations worldwide

3 million

tons of freight handled (8,200 tons a day)

80 %

of all shipments pass through FRA

Facts and figures – Fleet structure





18Boeing 777F

480Bellies

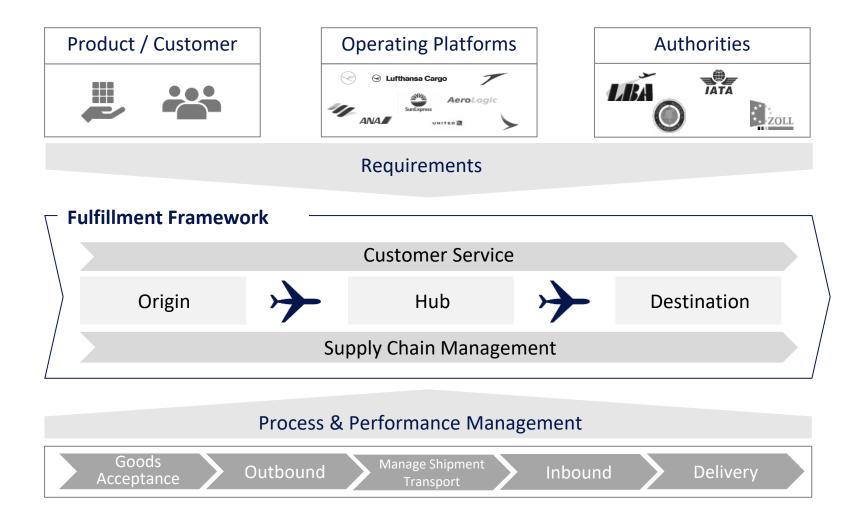
2,500
Road feeder service trucks

Status: November 2021

Global Fulfillment Management



We design, plan and steer the entire shipment flow





Project Overview

Global Fulfillment Development – Current project examples





Continuous improvement of single local processes down to shopfloor level



Overarching optimization of end-to-end value stream & enabling digital fulfillment























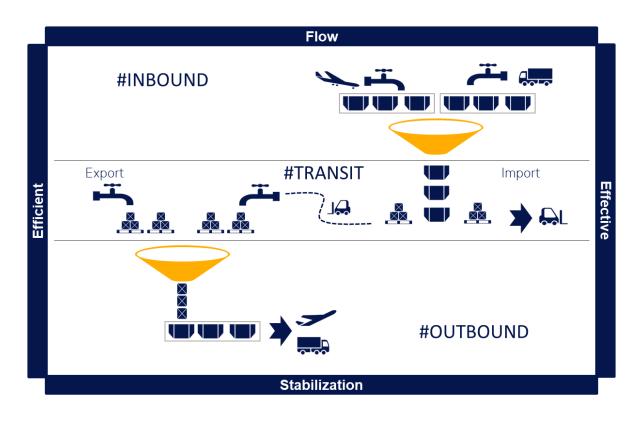




Production Planning with Quintiq Software



Goal of Quintiq Production Planning and Control: Optimize flow in the transit process



- Decouple production peaks from the flight plan in order to create a steady and manageable workload
- Reduction in total processing time & improvement of quality
- Reduction of manual effort through automation and digitization
- Transparency of workload, available resources and utilization

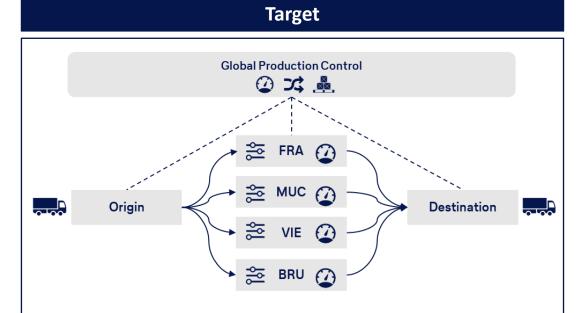




Improving planning and control capabilities at the hubs is crucial for overall planning and management

Service Recovery FRA MUC ? BRU ? BRU ?

- Each hub has its own logic for planning and controlling shipment flow
 - → leads to various IT setup options
- Capacity utilization is typically described qualitatively
- During overloads, responses are usually short-term; proactive management is lacking

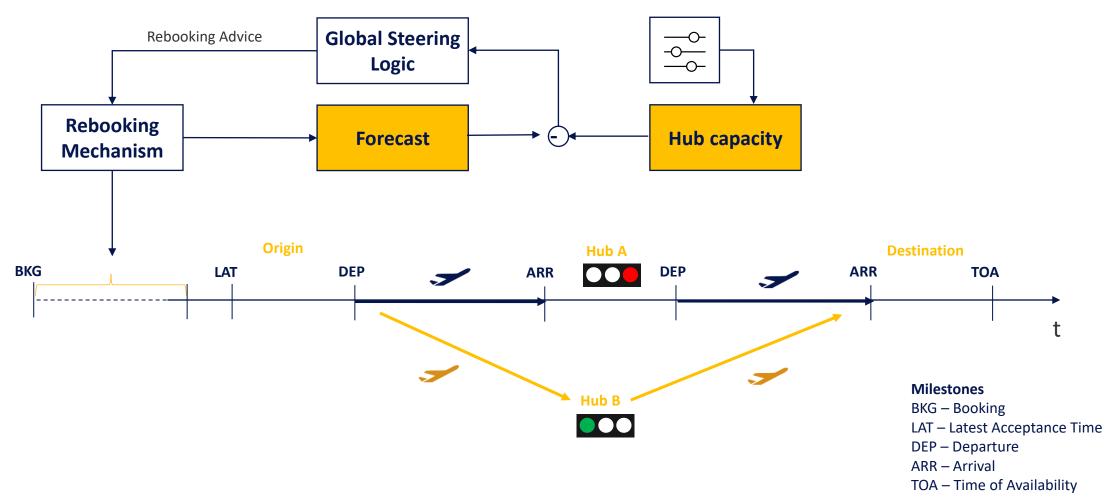


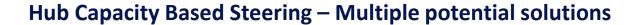
- Each hub has a system for systematic planning and control to reliably handle fluctuating loads
- Hubs can anticipate the load to determine appropriate actions
- An overarching system balances loads between hubs to proactively prevent overloads



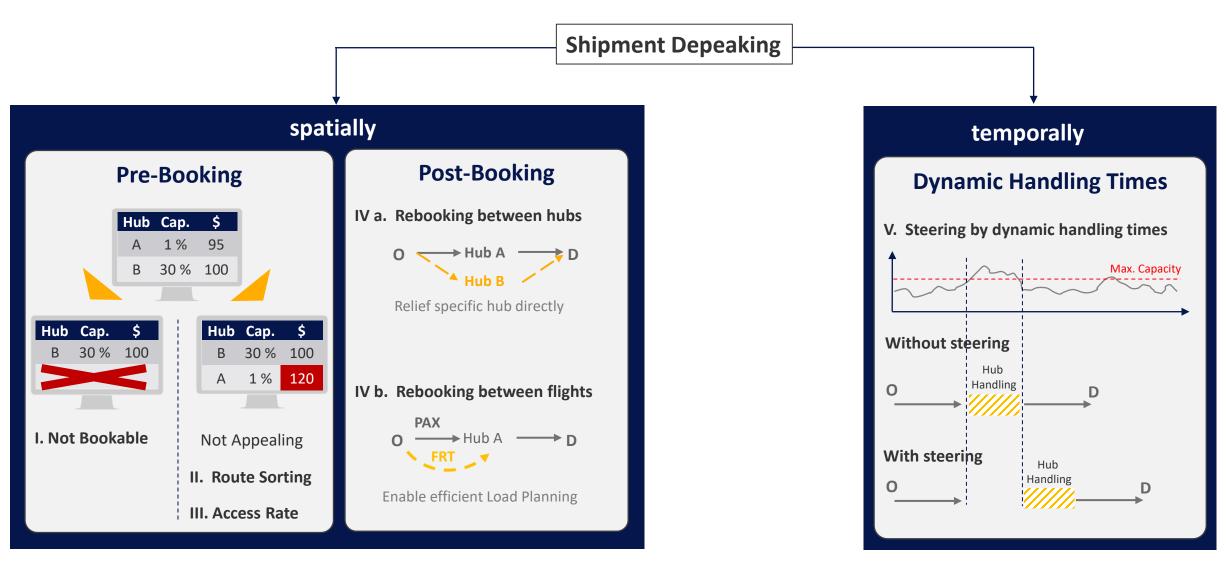
Concept of "Hub Capacity base Steering"

Rebooking mechanism steers shipments to other hubs if shipment is still on time











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THANK YOU FOR YOUR INTEREST