Smart Buildup

IATA Cargo Experts Conference 2025

25.09.2025

Lufthansa Cargo

Contents

Challenge at LCAG Hubs | Why is Smart Buildup crucial?

Load Planning is a key to relief bottleneck processes in LCAG Hubs

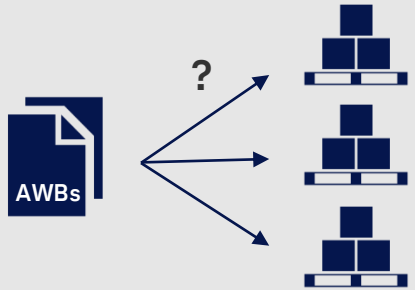
FRA is bottleneck

80% of all shipments pass FRA

Reduce incoming Workload into FRA to improve quality

Approach

Load Planning according to Sorting Criteria



The overall target of the Buildup Tool is to improve the GHA load planning quality according to LCAG sorting criteria and to subsequently relive the capacity bottleneck at FRA.

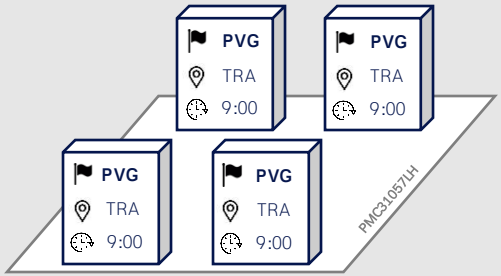
Sorting Criteria @ LCAG

Two complementary sorting criteria are designed to relief LCAG hubs and increase quality

Example: B/D in FRA from Origin JFK

1. Thru Unit

All AWBs on an ULD have the same onward flight

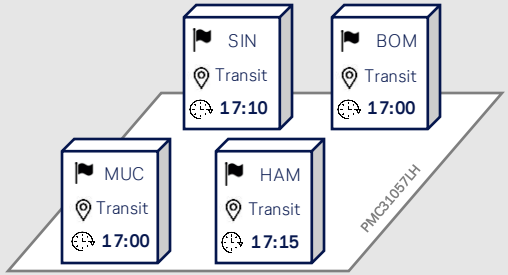


- **Relief:**
  no B/D or storage in LCC at all
- **Challenge:**
  cargo quantity with same routing, additional booking effort, availability of freight

If this results in Mixed Destination Units

2. Time Spread

Difference between STDs of onward flights



- **Relief:**
  flexible B/D planning,
  less storage in HRL
- **Challenge:**
  new concept (change management), availability of freight

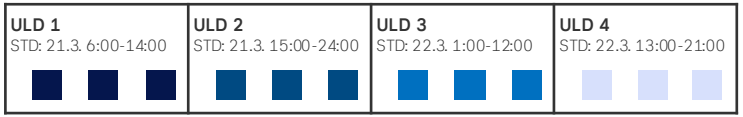
Concept of "Low Time Spread ULDs"

A ULD should be built up of shipments with close connecting flights

After building all possible Thru-Units, usually Mixed Destination Units cannot be avoided...

Status Quo:

Future:



- Time uncritical shipments are no longer blocking breakdown resources
- Time-critical shipments can be executed on time
- Less Shipments have to be stored in storage system

Demo of Smart Buildup – How are our GHAs and own staff using the tool?

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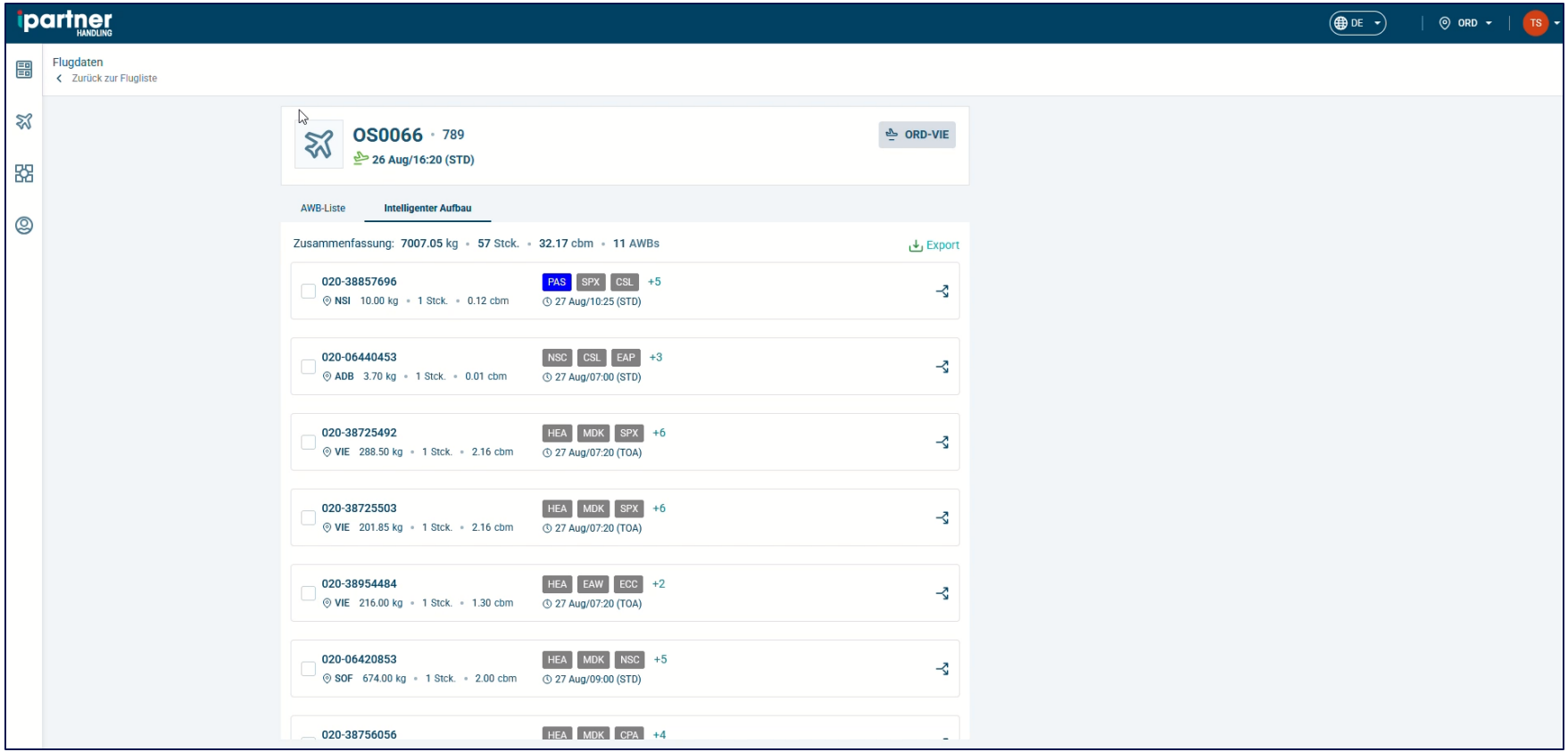
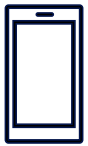


Benefits for LCAG station personal and LCAG hubs



Mobile version for GHAs in known software – always up to date without paper

Decision support with all data on one glance (volume, weight, pieces, dims, RCS, …)

Direct documentation that is less error prone

For LCAG hubs - better compliance to sorting criteria ensures stable hub processes (e.g. Time Spread: Ø before rollout ≈ 24 h, Ø after rollout ≈ 14,5 h)

Challenges during rollout

- Paperless processes – intensive change management necessary
- Implementation in processes with minimal change crucial
- The effort required to comply with the Sorting Criteria helps the hubs, not the stations
- Weekly reporting helps to monitor performance developments

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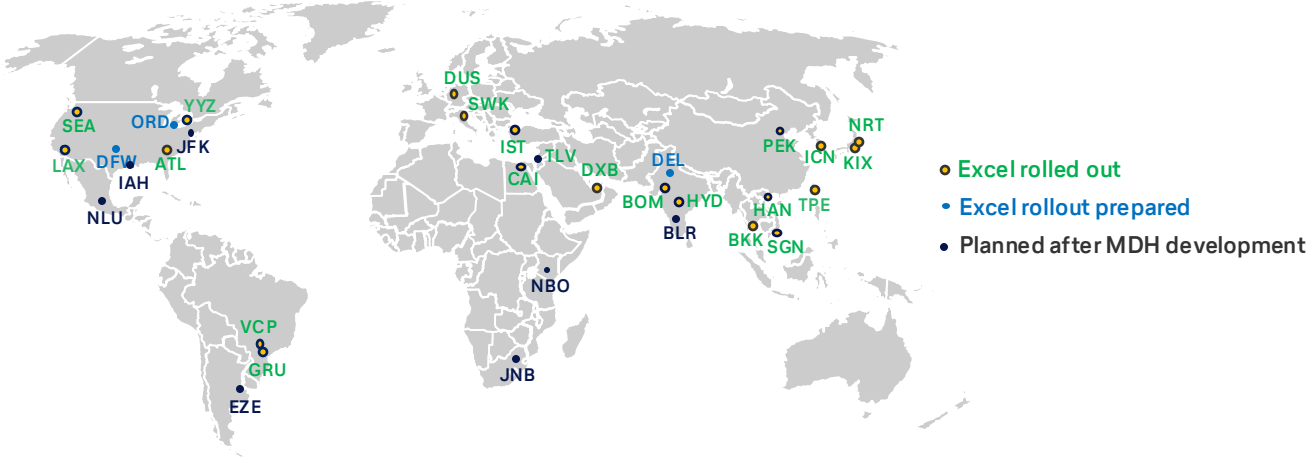
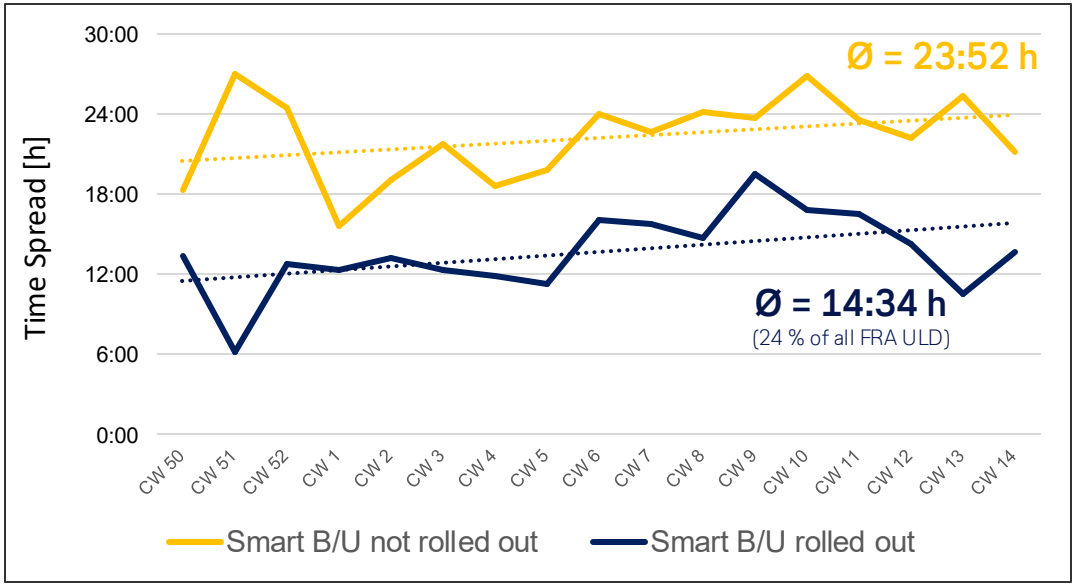
Excel Rollout overview



Current overall Time Spread Performance

Rolled out stations have a significantly lower time spread



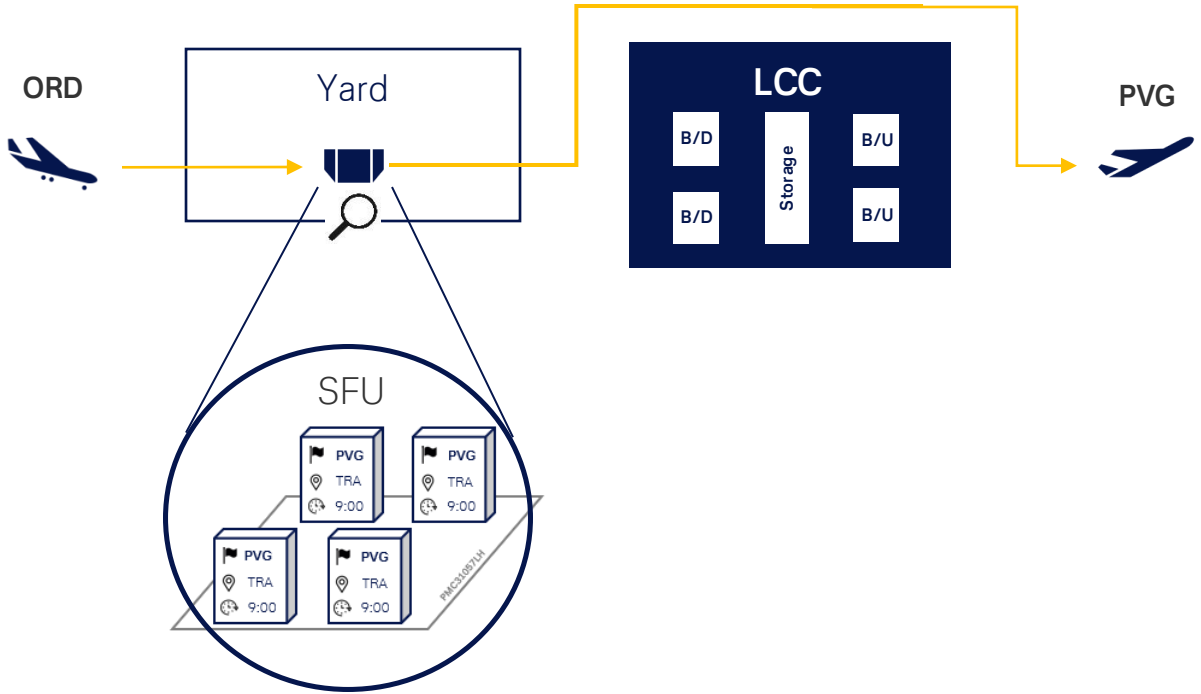
Relief Potential of Single Flight Units

Concept with 3 complementary sorting criteria that relief FRA and increase quality

2 Sorting Criteria:

Single Flight Unit

Low Time Spread



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