Digital APOC

(Airport Operation Center)

T-Systems Airport User Days & Conference |
September, 7-8 2023

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FREQUENTIS

Partnering T-Systems & Frequentis

- **Partnering contract signed at InterAirport Munich in March 2021**

Frequentis AG
- Premium Brand for <u>Tower- & Air Traffic Management and for Safety Management</u>
- Solutions deployed at major airports worldwide
- > 10 years customer of T-Systems in the Data Center Area

T-Systems - Business Unit Airport
- Premium Brand for <u>Airport- and Ground Handling Management</u>
- Market Leader for A-CDM
- Solutions deployed at more than 40 airports worldwide

Airports
- Major Airports (e.g. Frankfurt) use both solutions in parallel, monitors side-by-side
- Tight Integration is key to create next generation Airport Control Center (APOC)
- Advanced Airports demand DIGITAL APRON and DIGITAL TOWER

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Occasion – Increase Airport Efficiency

FRA, T2, Dezember 2019 (Quelle: https://www.stern.de)

Problem

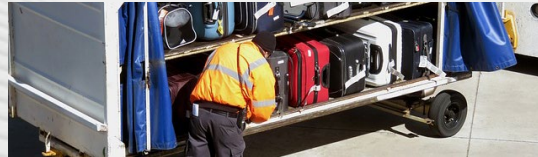| Impact on personnel level		Impact on operational level	

Personnel requirements

Deterioration in staff availability due to migration of airport staff (by Corona) to logistics and other branches

Personnel Recruiting

New hire is hampered by delayed education vouchers and issuance of ZUP of 9-12 weeks

High operational risk in the event of short-term additional resource requirements in the event of rapidly increasing traffic

Process overview

Operational procedural risks are exacerbated by the lack of an overview of all operational handling processes

Operational interrelationships and dependencies cannot be recognized immediately and at an early stage due to complexity

Infrastructur
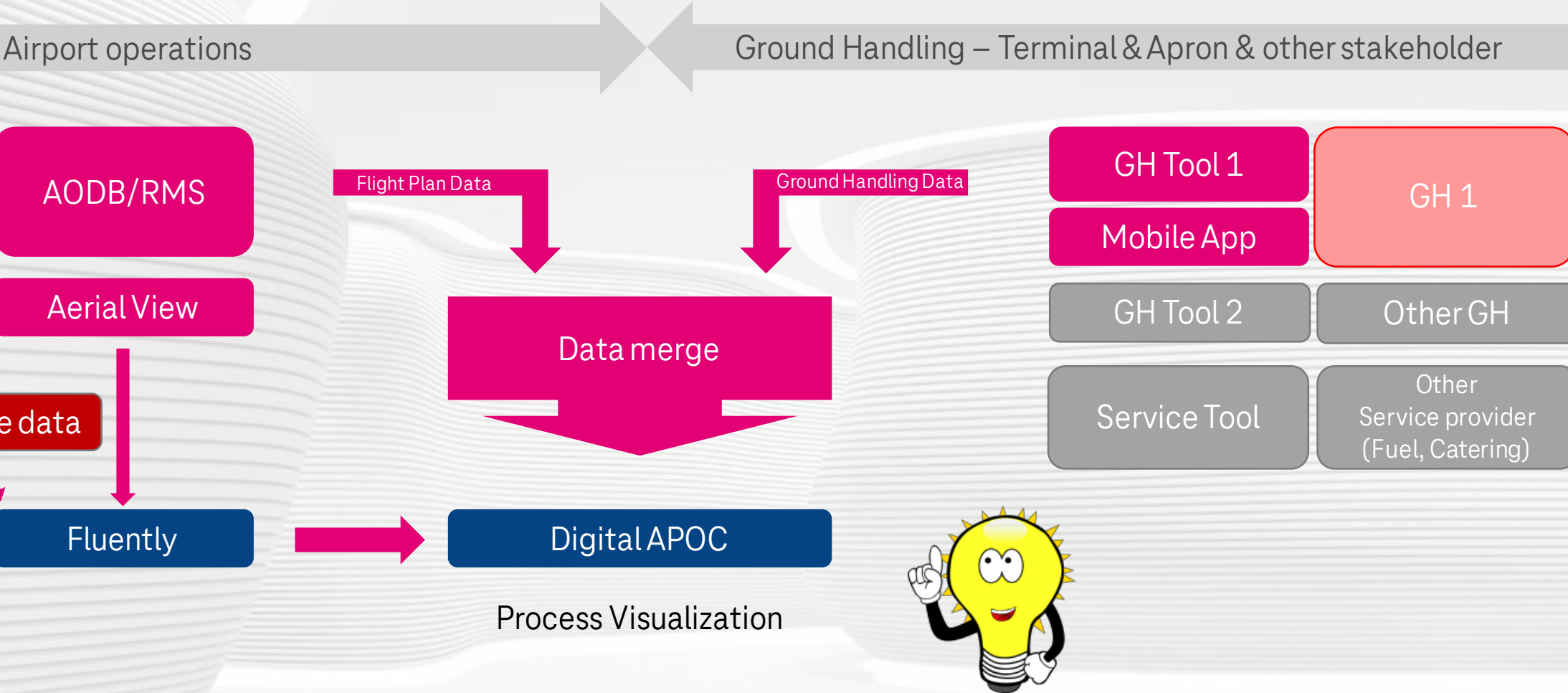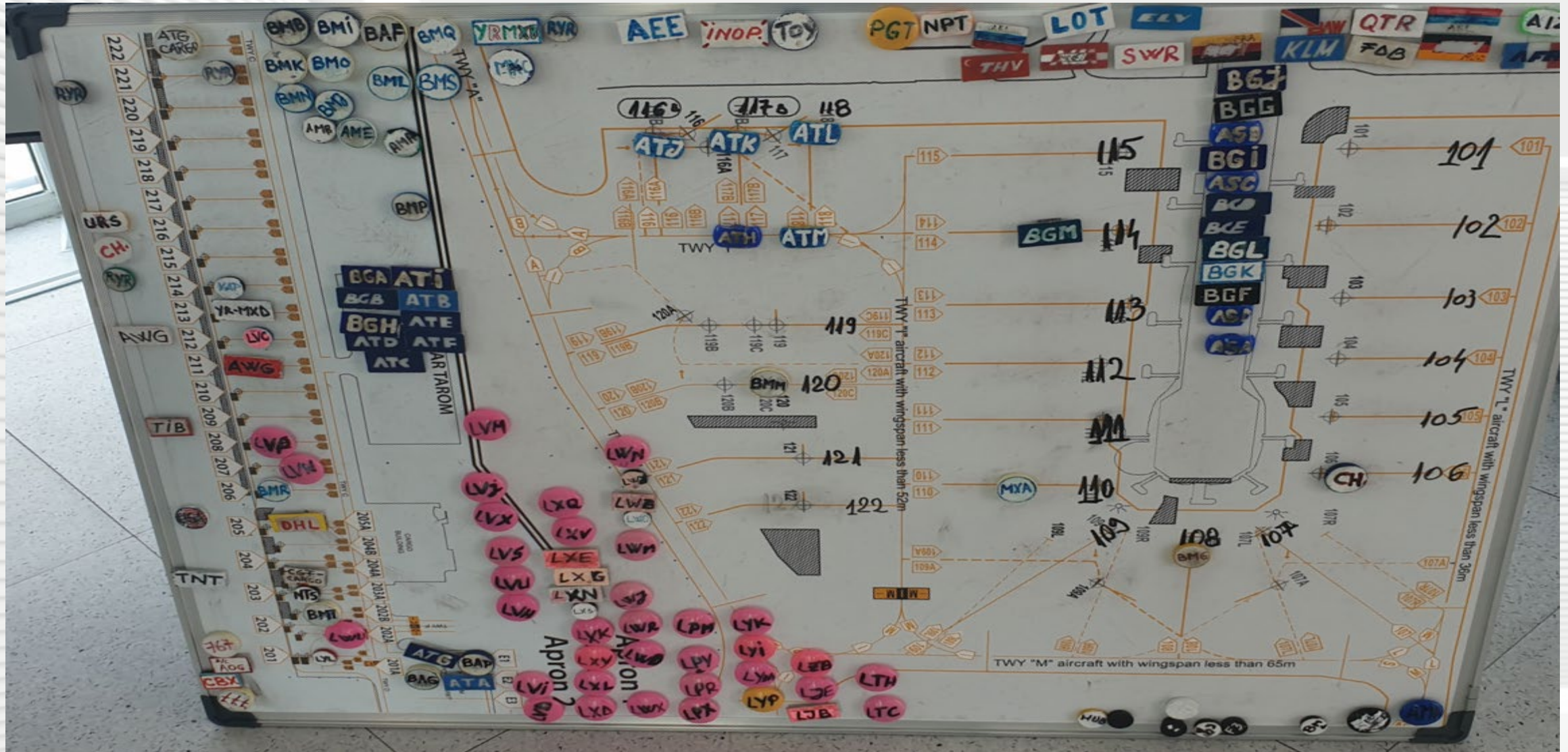
High complexity of the apron movement

difficult	difficult	Able to solve	Not able to solve

Proposed solution:
Improvement of the process overview

Proposed solution

Airport operations →← Ground Handling – Terminal & Apron & other stakeholder

AODB/RMS

Aerial View

Infrastructure data

Fluently

Flight Plan Data

Ground Handling Data

Data merge

Digital APOC

Process Visualization

GH Tool 1

Mobile App

GH 1

GH Tool 2

Other GH

Service Tool

Other Service provider (Fuel, Catering)

APOC - Airport Operation Center (- aka AOCC, AOC)

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Targets

1 Holistic **Process View** of the airport (not only a dashboard!)

2 Visualization of **Flight and Ground Handling status**

3 Visualization / Warning of **Deltas to process target times**

4 Enable **Proactive Steering** and more efficient **Usage of resources**

5 Enables a **Qualitymanagement** based on real data

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Demo dAPOC

Digital APOC

- **Awareness / Collaboration / Improvement**

- **Common operational picture** for every user

- **Situational awareness** in the offices and on the airfield

- *Distil required information*

- **Adequate reaction to the changed situation**

- **Analyze delays** and adjust to changing situations

- **Communicate changes** to systems & stakeholders

- **Initiate collaborative replanning**

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Q&A

Thank you!

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