TAM – Total Airport Management
an evolutionary approach to managing an airport

Yves Guenther

DLR – German Aerospace Center
Institute of Flight Guidance

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Knowledge for Tomorrow
Content

TAM why?

TAM - What is needed? & Working with TAM

DLR - Recent Work & Outlook
objective:

processes on landside and airside should be better coordinated, optimised and operated on the basis of performance indicators, which are mandatory for all the stakeholders involved in the processes

→ Total Airport Management
Airport Processes

Management by KPI

KPI - Key Performance Indicator
TAM – Expanding the Scope of A-CDM

Management Processes

Airside (flights)

Landside (passengers)

Core Processes

Arrival

Transfer

Departure

Turnaround

TAM

A-CDM
TAM – What is needed?

open view for airport operations (situation awareness, land- and airside)

What is happening at the airport?
Who is doing what?
What is the capacity utilization?

recognizing and understanding any upcoming disruptions to operations in advance (t0 → end of day of ops)

example

reduced capacity
e.g. due to the weather

delays expected
e.g. due to the reduced capacity
TAM – What is needed?

Coordinated planning of airport processes on landside and airside (resources, staff)

Definition of valid KPIs in order to monitor and benchmark airport performance

Understanding of the consequences of the stakeholders‘ own actions on the operations of other stakeholders
Working with TAM

**pro-active reaction to disruptions**

- Flow, RWY 23, ARR
- Proposal of a flight sequence
- Manual adaptation of parameters

**Flow expected**

**Demand, RWY 23, ARR**

**Mutual acceptance of a mandatory set of KPIs, which influences the operations of all the stakeholders**

14:00-22:00

- Stability of operations
- Punctuality
- Efficiency
- Throughput
- Emissions
- Connectivity
DLM – recent work

development of concepts

- operational concepts
- technical concepts
- simulation concepts
- validation concepts

functionalities and tools

- Total Operations Planner (TOP), traffic planning system
- client working positions to interact with TOP
- PaxMan, monitoring and assessment of passenger processes and prediction of passengers’ readiness
- video wall for situation awareness
- simulation environment for test campaigns
- systems for analysing, tactical systems etc.
DLR – outlook

- Evaluation of the planning system TOP – benefit assessment
- Development of advanced concepts
- Tests of functionalities and tools in real environment etc.

APOC light - DLR in Brunswick

Hamburg Airport
DLR – APOC environment