

TAM – Total Airport Management

an evolutionary approach to managing an airport

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META-CDM workshop
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Knowledge for Tomorrow



Member of  **AT-Once**



Content

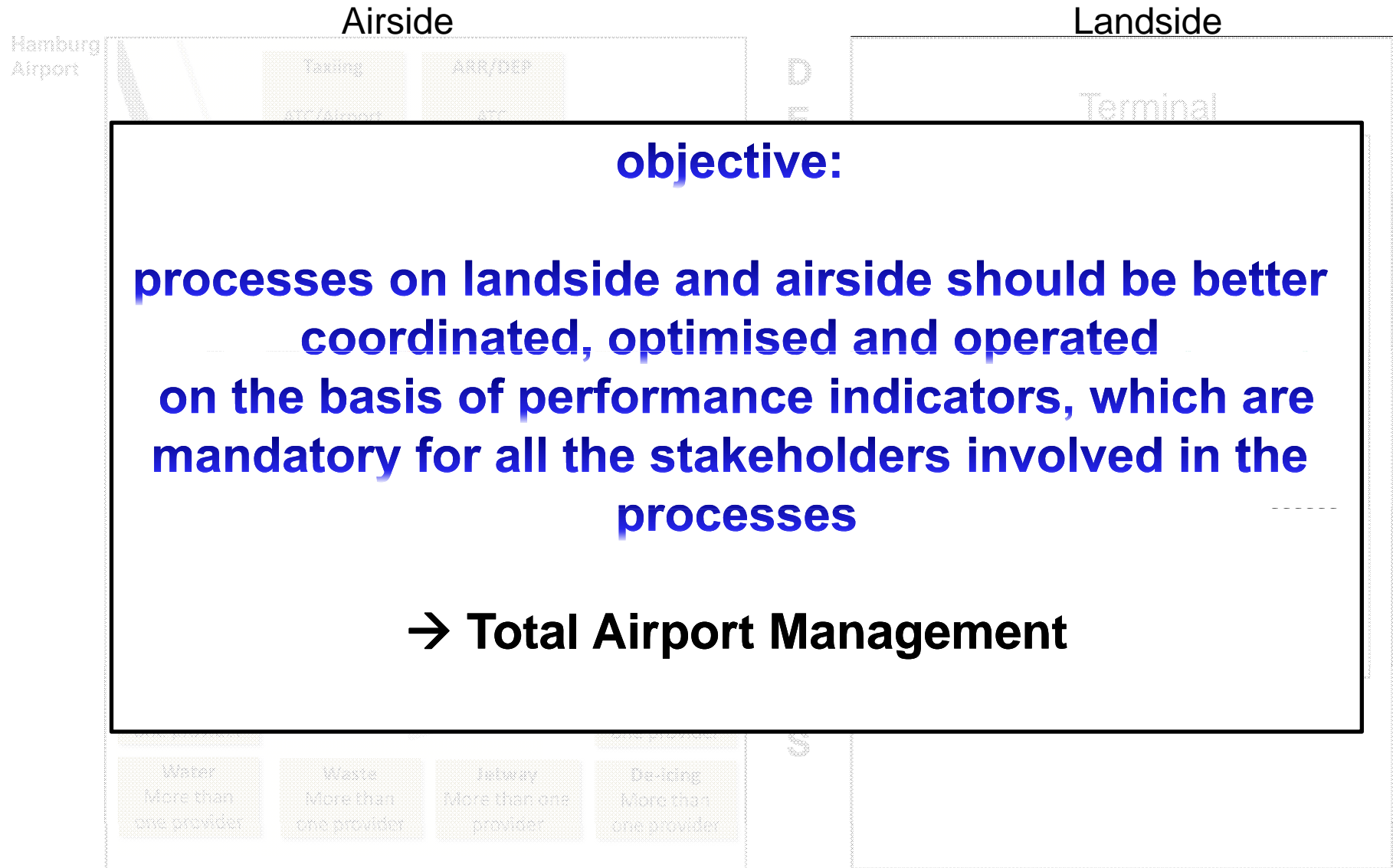
TAM why?

TAM - What is needed? & Working with TAM

DLR - Recent Work & Outlook

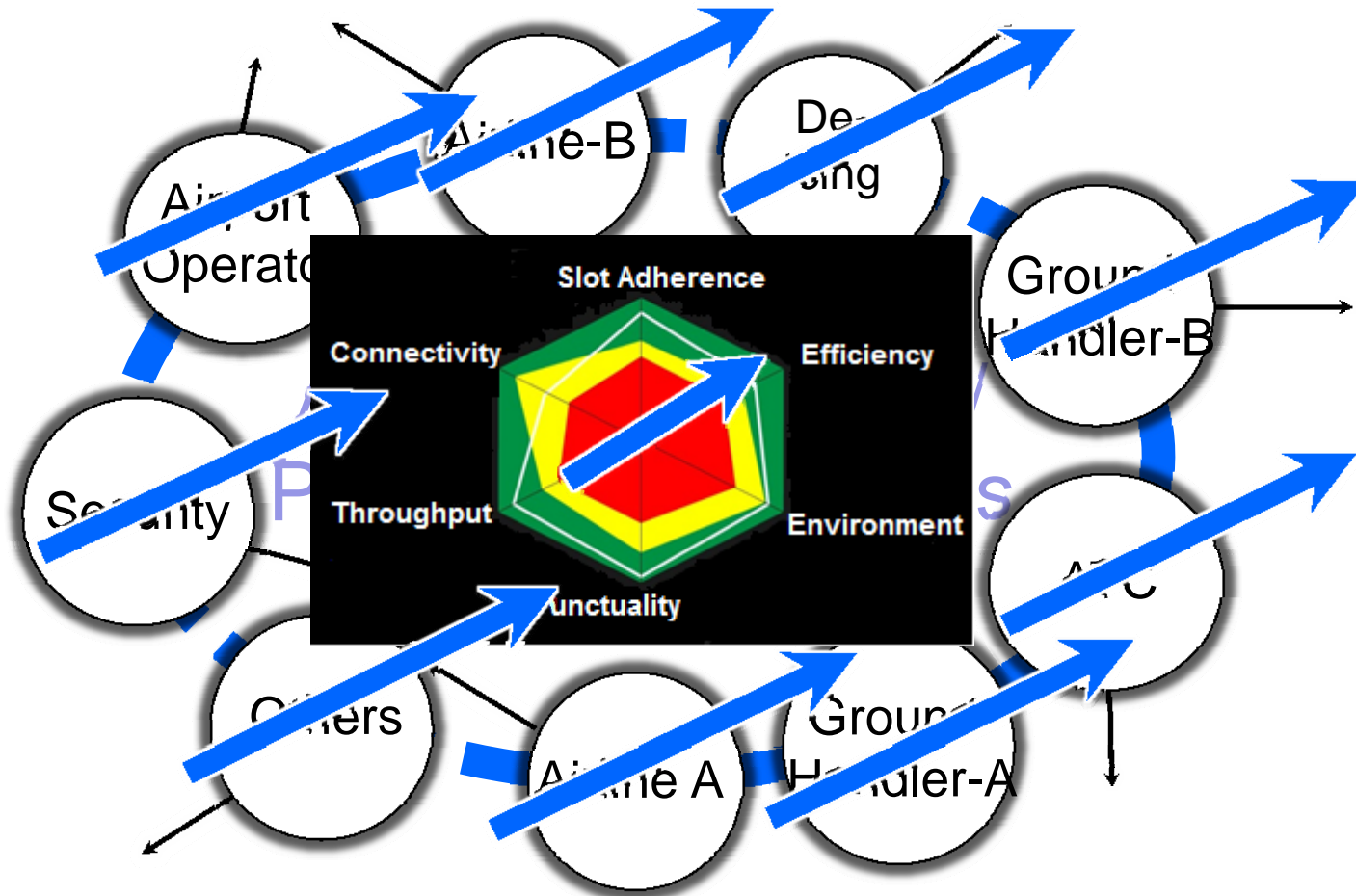


Airport Processes



Airport Processes

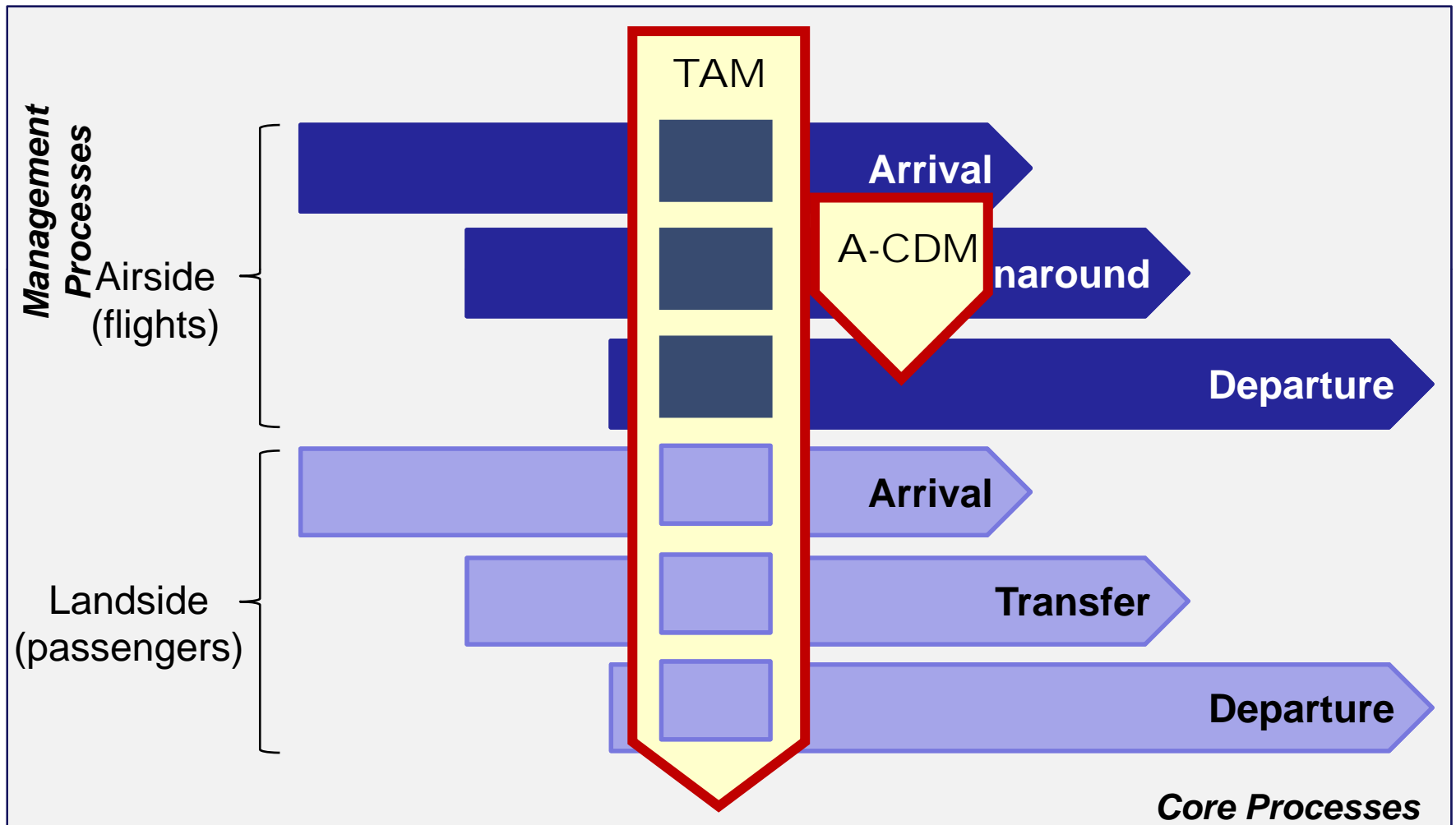
Management by KPI



KPI- Key Performance Indicator



TAM – Expanding the Scope of A-CDM



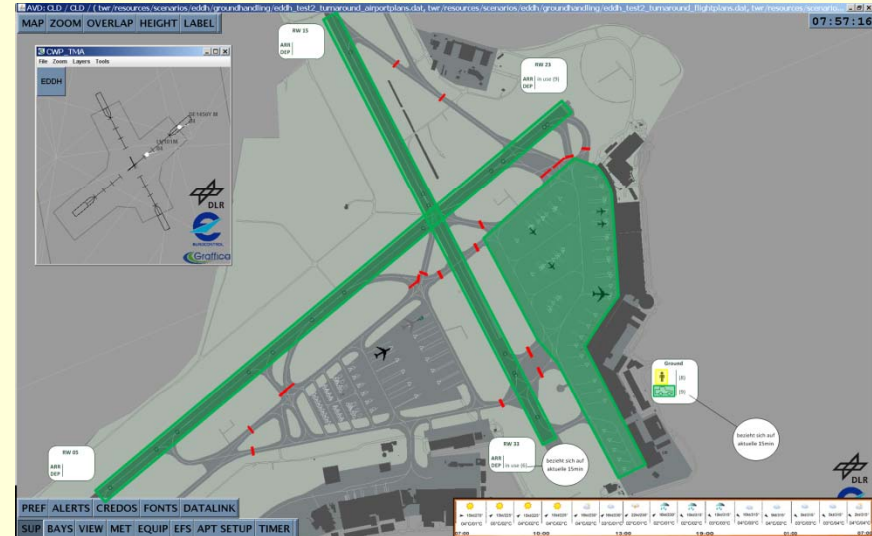
TAM – What is needed?

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

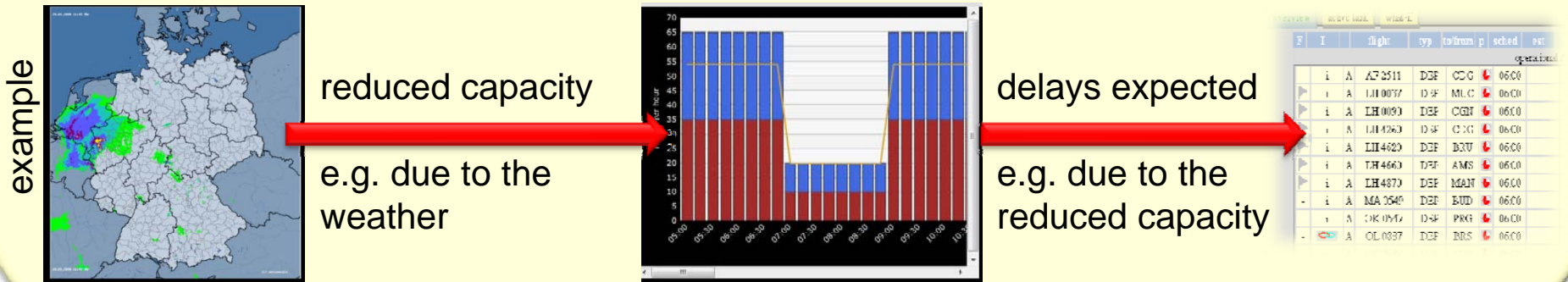
What is happening at the airport?

Who is doing what?

What is the capacity utilization?

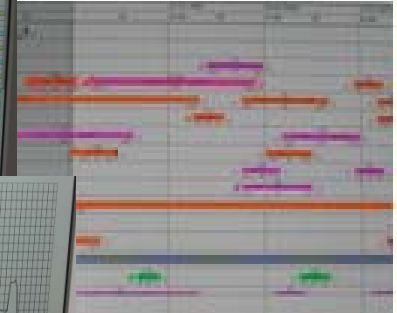
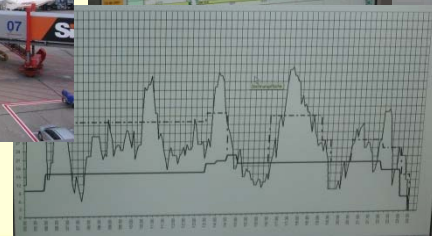
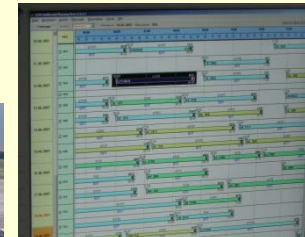


**recognizing and understanding any upcoming disruptions to
operations in advance (t0 → end of day of ops)**

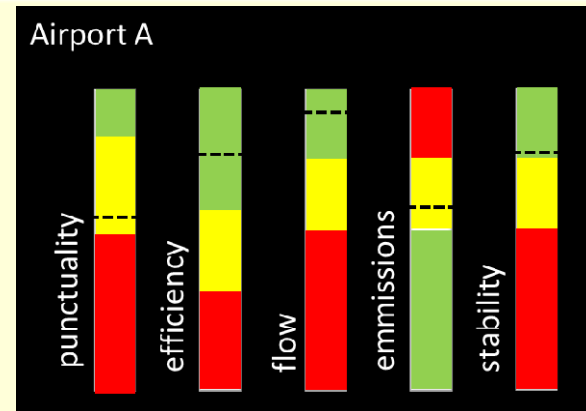


TAM – What is needed?

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



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

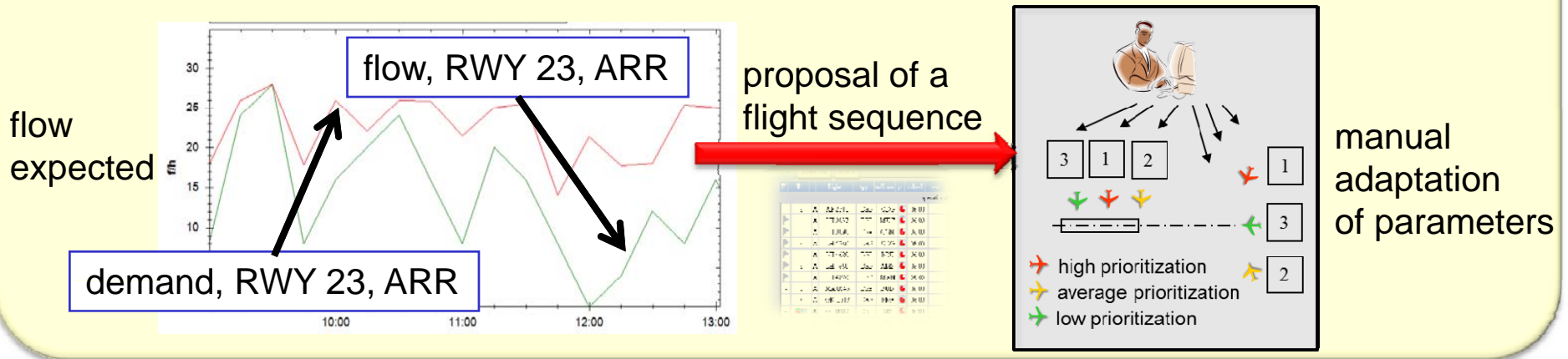


understanding of the consequences of the stakeholders' own actions on the operations of other stakeholders

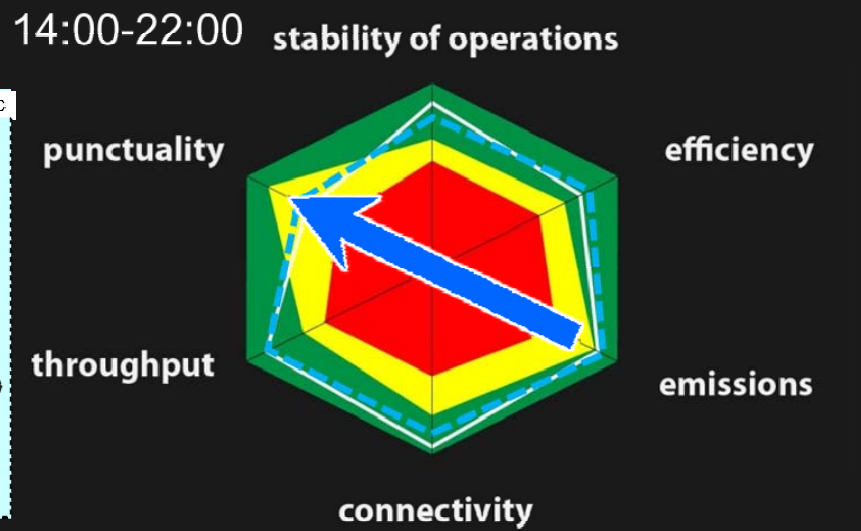
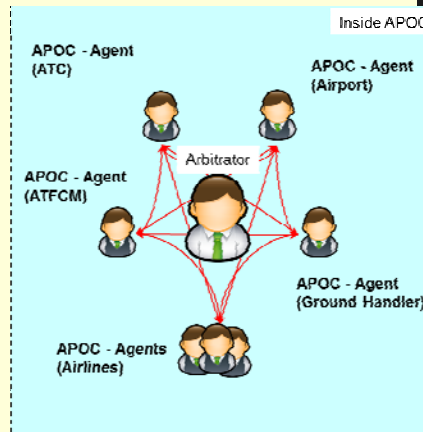


Working with TAM

pro-active reaction to disruptions



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



DLR – 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.



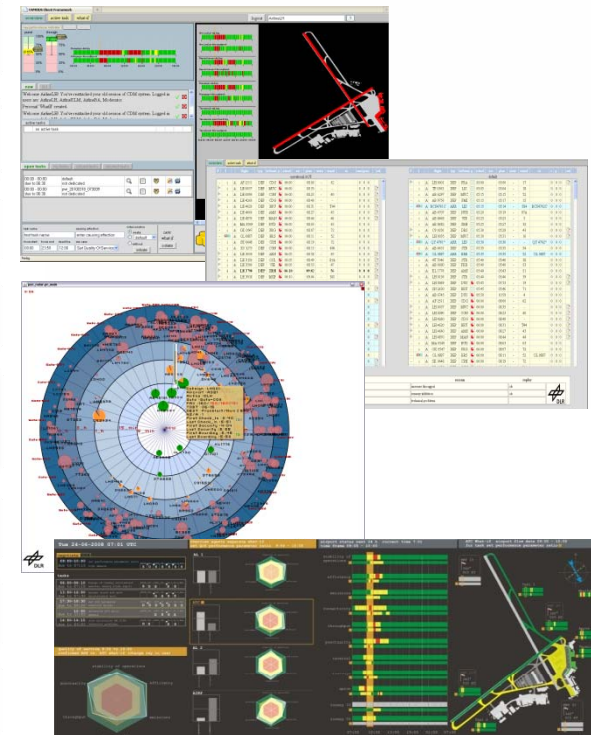
Total Airport Management



TOTAL AIRPORT MANAGEMENT
(Operational Concept & Logical Architecture)

Version 1.0

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Roger Lane, Helmut Niederstrasser



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



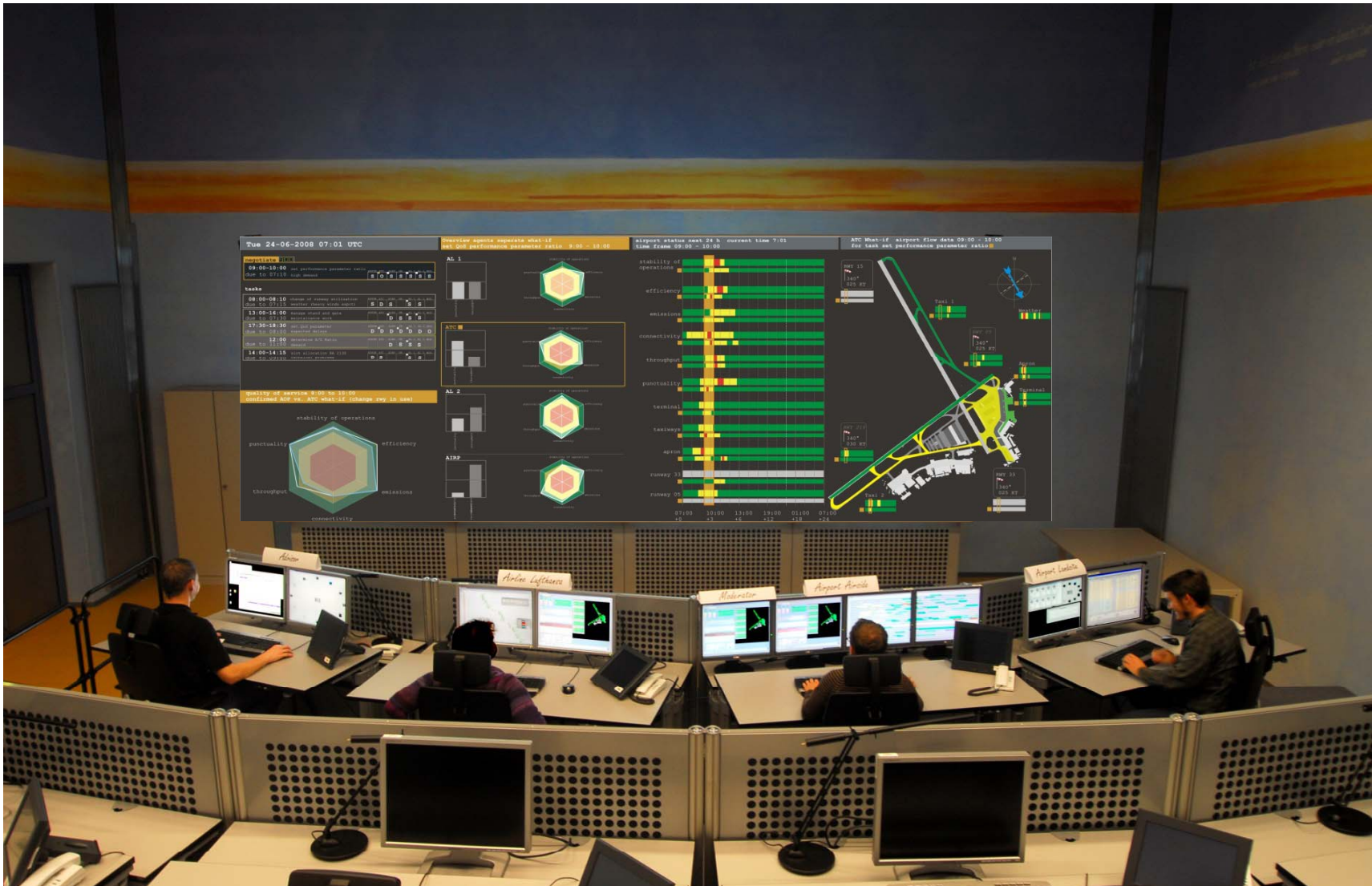
Hamburg Airport



APOC- Airport
Operation Center



DLR – APOC environment



Need more Information?

www.dlr.de

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