



Airport Transport Industry Solutions

April 2021

Company Overview

Amorph Systems was founded in 2013 with headquarters in Stuttgart, Germany and development locations in Romania.

Amorph Systems currently has around 40 employees, working in two major business domains.

Amorph Systems is 100% owned by its founders and managing partners.

The company has achieved steady growth over the past 7 years both in terms of employees and revenue.

In 2017, the company received funding from the EU Horizon 2020 SME program for the further development of their airport products.

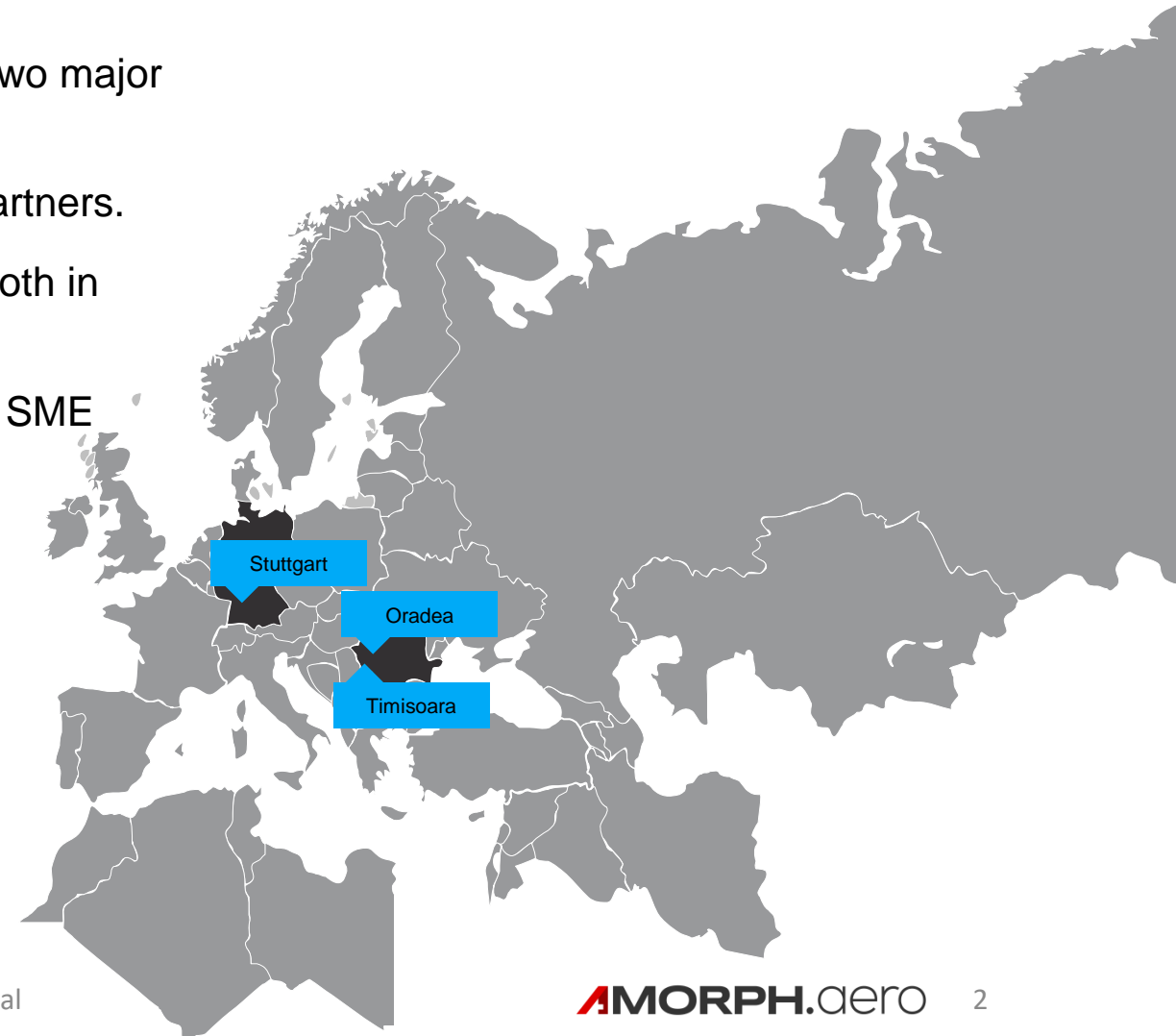
Key Business Domains:



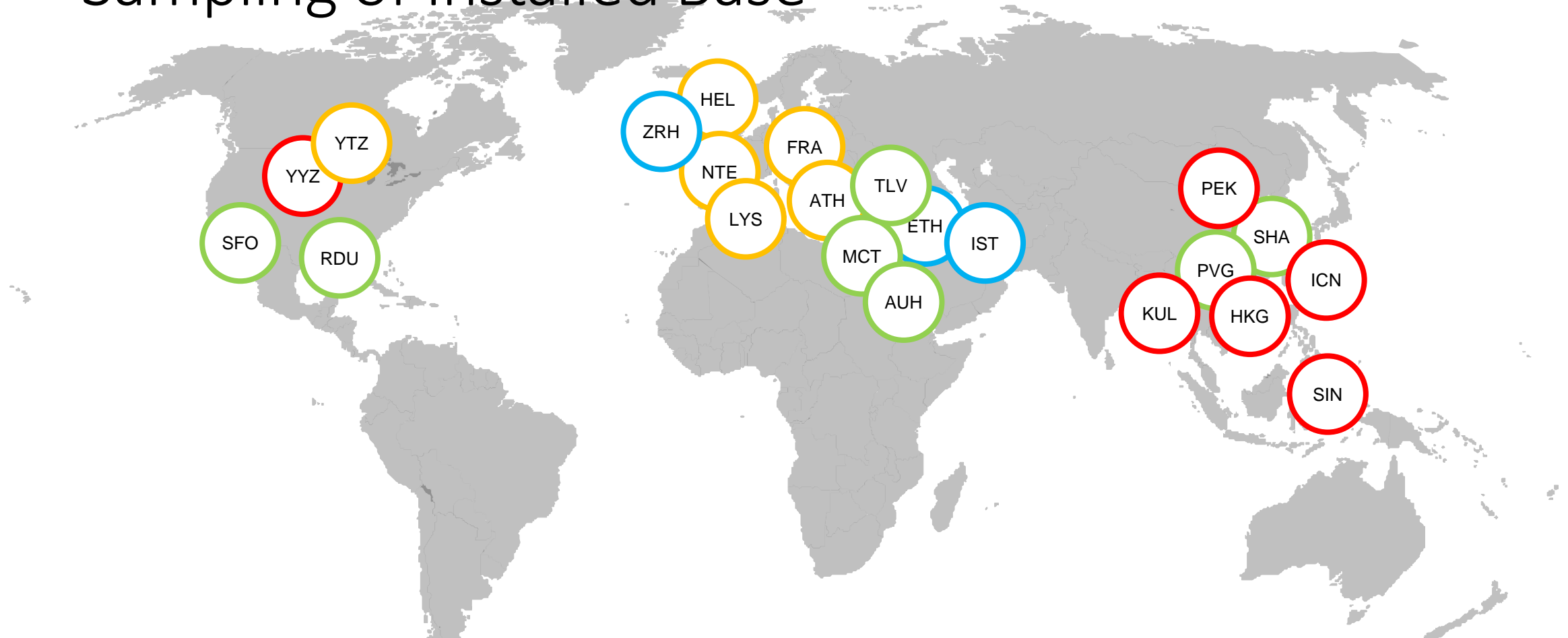
Airport Solutions



Production Solutions



Sampling of Installed Base



FLOW PREDICTIONS & PAX FORECASTING

Frankfurt, Helsinki, Toronto City, Nantes, Lyon, Athens

CAPACITY PLANNING & ANALYSIS

Lyon, Nantes, Athens, Zurich, Eilat, Istanbul

AIRPORT MAP

San Francisco, Raleigh, Muscat, Istanbul, Abu Dhabi, Tel Aviv

BUSINESS ANALYTICS

Incheon, Kuala Lumpur, Singapore, Hong Kong, Beijing, Toronto

Airport Management challenges we address

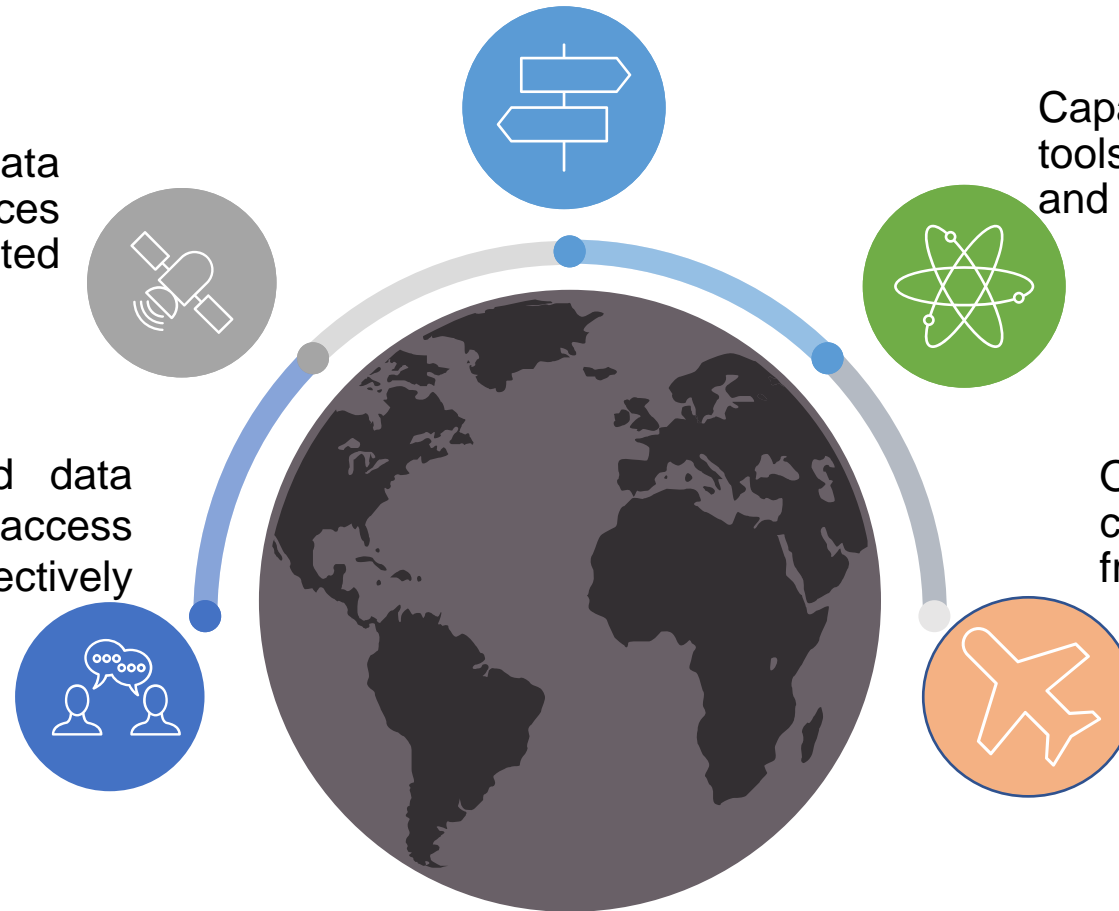
Planning and coordination is complex, with shared resources and multiple stakeholders. Reliable prediction of passenger flows enables timely action to avoid disruptions.

Large scale integration of data from systems and devices provides access to a consolidated view of disparate data

Shared access to consolidated data enables multiple stakeholders to access the information they need to effectively coordinate operations

Capacity planning and management tools improve Operational Efficiency and balance costs and service.

Our digital platform in the cloud enables access to anything from anywhere.



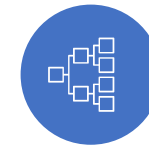
User Interface and Features

Data consolidation and information sharing platform for multiple stakeholders at one or more airports.



Can be extended with other use cases providing:

- Event management
- Queue monitoring and management



Real-time updates on flight status



Highlight changes from previous data



Flight data history



Alerts on exceptional situations



Web-based Cloud Application



Mobile friendly



Updates and Notifications in Real-time



Runs in Microsoft Azure, integrated with Office 365

Self Bagdrop analytics example



PROCESS TYPE

TIME AGGREGATION

[RAW EXPORT](#)

AIRPORT **AIRLINE**

Please select a(n) AIR... Please select a(n) AIR...

DESK **Destination Airport**

Please select a(n) DESK... Please select a(n) Desti...

Flight

Please select a(n) Flight...

Slide-out sidebar menu

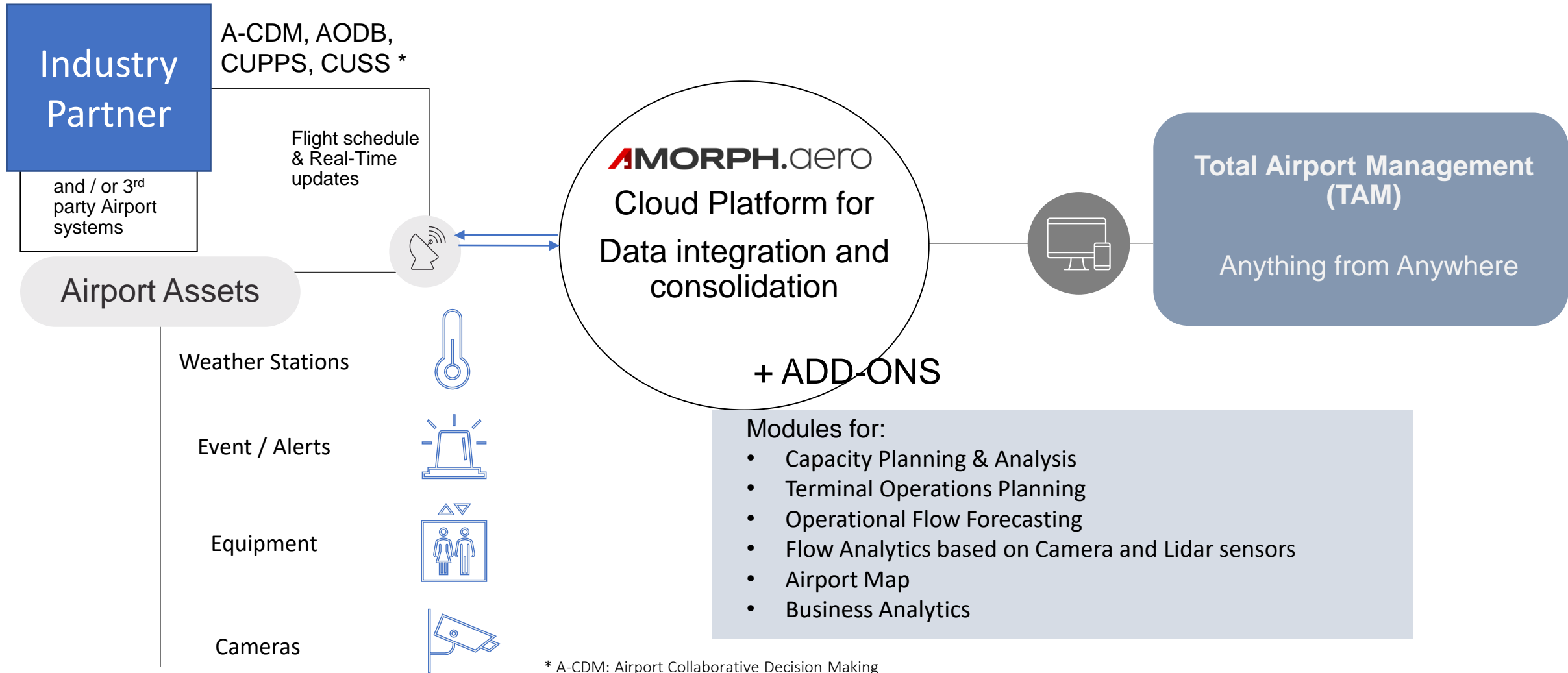
COLOR THEME

- Data is ingested directly from Self Bagdrop equipment via API to the analytics database in the cloud
- Deployed for Airport and/or Airline users
- Installed at 40 sites

Commercial Partnership Model



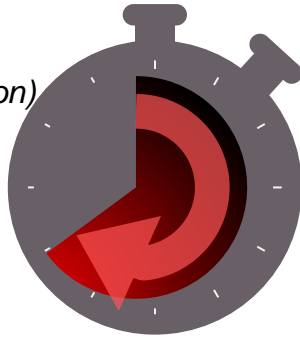
Technical integration / Data flows



* A-CDM: Airport Collaborative Decision Making
AODB : Airport Operations Database
CUPPS: Common Use Passenger Processing Systems
CUSS : Common Use Self Service

Deployment & Subscription

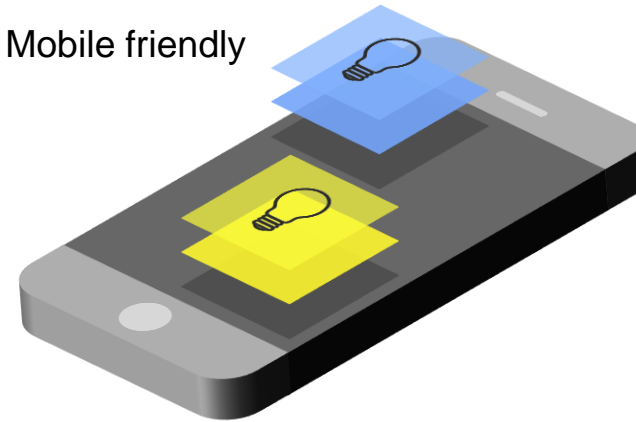
Available within a few days to enable immediate benefits
(Even faster with AODB, CUPPS & CUSS pre-integration)



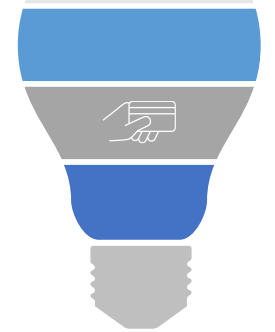
Consolidated view of the released plans merged with real-time updates



Mobile friendly



Try before you buy



Fast and scalable delivery of the AMORPH.aero cloud platform

Easy integration of additional modules for planning, prediction, flow simulation, event management and dashboard views.

Software-as-a-Service (SaaS) as a monthly subscription with minimum upfront investment.

Reference Cases



Fraport AG

Date

2013 - today

Implemented Functionalities

Operational Flow Forecasting
Capacity Planning & Analysis

Key achievements

- 20% Reduction of waiting times
- 10% Increase in passenger satisfaction
- 10% Improvement of missed connections

Nantes Airport

Date

2017 - today

Implemented Functionalities

Terminal Operations Planning
Capacity Planning & Analysis

Key achievements

- 50% Reduction of workload
- Improved transparency on shared results
- 10% growth in passengers and still respected SLA's at security (95% under 10 Minutes)

Helsinki Airport

Date

2016 - today

Implemented Functionalities

Operational Flow Forecasting
Terminal Operations Planning
Capacity Planning & Analysis

Key achievements

- 15% growth, remaining the high level of service at every check-point (98% under 10 mins)
- Improvement of boarder control waiting times
- Establishment of a shared APOC with Finnair for passenger handling

Confidential

Zurich Airport

Date

2015 – today

Implemented Functionalities

Capacity Planning & Analysis

Key achievements

- Establishing a planning process covering the entire season
- Reduction of the planning cycles by 30%
- Better transfer management planning

AMORPH.aero

Thank you!

We look forward to further discussions