



# IDCS

REAL-TIME  
INFECTION DETECTION  
& CONTAINMENT SYSTEM



powered by **MORPH.ero** & **VANTIQ**

## BE READY FOR THE NEW AIR TRAVEL FUTURE

**Health checks may become the new norm. The IDCS solution integrates all kind of health screening devices (thermal cameras, mask detection systems, testing equipments...) and combines these with airport/airlines information to enable real-time collaboration and containment actions.**

### Why manual temperature screening alone is not enough:

- // Higher cost for staff and coordination
- // Safety and contamination risks for staff
- // Incompatible with Social Distancing
- // Higher processing times, if not integrated properly
- // Not a clear airport wide real-time picture available for taking safety actions



### AN AUTOMATED, PRO-ACTIVE DETECTION SYSTEM IS NEEDED!

**IDCS contains advanced capabilities for infection containment that go far beyond traditional safety measures:**

➤ IDCS supports manual and automated temperature screening at all steps throughout the passenger's journey (Arrival, Departure & Transfer).

➤ With IDCS, airport authorities can simulate the potential impacts, backtrack on the passenger journey and immediately minimize the potential infection spread.

➤ IDCS enforces the IATA & ACI recommendations of a multi-layered approach to ensure bio-security at airports.

➤ The platform capabilities of IDCS ensure that any other bio-sensors or any health screening devices can be included to further increase passenger and airport safety

### Benefits:

- // IDCS supports airports coming back to efficient operation.
- // The system helps ensure a safe passenger journey.
- // In case of an incident, IDCS allows for fast reaction times and instant prediction of consequences for containment measures.
- // With IDCS significant cost reductions can be reached through increased automation.
- // Finally, IDCS helps airports sustainably prepare for future pandemic situations.



The IDCS solution is a collaborative platform. Only through collaboration is it possible to involve all stakeholders and address the notifications required.



## Key features:

- ✓ Integration of all health screening devices
- ✓ Location Determination
- ✓ Point-2-Point Tracking
- ✓ Area Closure RT-Simulation
- ✓ Spread Estimation
- ✓ Staff Alerting & Notification
- ✓ Airport Operations Collaboration

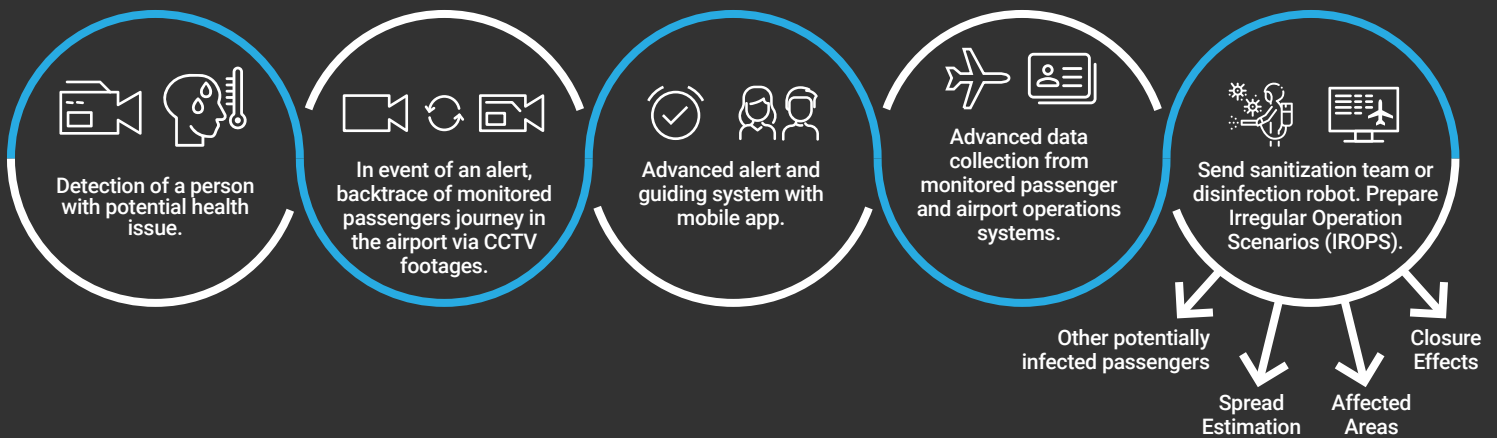
INTEGRATED WITH



## Airport Operations



## Typical Detection and Containment Scenario with IDCS



**Incremental Agile Delivery Process** - a first version can be made available quickly.

### Standard Solution

#### Fit for Purpose

#### Ad-Hoc Inbound or Outbound Control

- Alerts of high temperature events
- Determination of contaminated areas for inbound or outbound passengers
- Display events and contaminated areas on a basic airport layout
- Identify affected flights by manual import of flight plans

DETECT - IDENTIFY - ALERT

#### Fit for Use

#### Real Time Airport Containment Management

- Determination of contaminated areas for transfer passengers
- Further alerts and stakeholder engagement
- Push alerts to external systems
- Improved visibility of potentially infected areas
- Automatic ingestion of flight and passenger data
- Real-time tracking of first responders

CONTAIN - COLLABORATE - INTEGRATE

### Enhanced Solution

#### Fit for Experience

#### Total Airport Containment Management

- Re-routing options of passenger flows
- What-if scenario for containment measures
- Integration of additional biometrical and/or health check equipment
- Integration with location tracking systems (passenger/device tracking)
- Backtrace capability of passengers' journey through CCTV video feeds
- Enhanced functionality for determination of impacted passengers based on integration with booking/airline data for seat allocation
- Crowd and social distancing management

PREDICT - TRACK - EXTEND

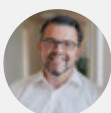
2-3 WEEKS

WEEKS - A FEW MONTHS

OVER A FEW MONTHS



We'd love to hear from you. **Get in touch with us.**



**Andreas Hofmann**  
Director Business Development  
[andreas.hofmann@amorphys.com](mailto:andreas.hofmann@amorphys.com)



**Andressa Fantini**  
Global Director, Customer Success & Strategic Partners  
[afantini@vantiq.com](mailto:afantini@vantiq.com)

AMORPH SYSTEMS GmbH, Handwerkstr. 29, 70565 Stuttgart, Germany - [www.amorphys.com](http://www.amorphys.com) | [www.vantiq.com](http://www.vantiq.com)



IDCS follows the biosecurity recommendations of IATA & ACI to perform regular, non-intrusive checks of body temperatures for departing, arriving and transferring passengers.



AIRPORTS COUNCIL INTERNATIONAL