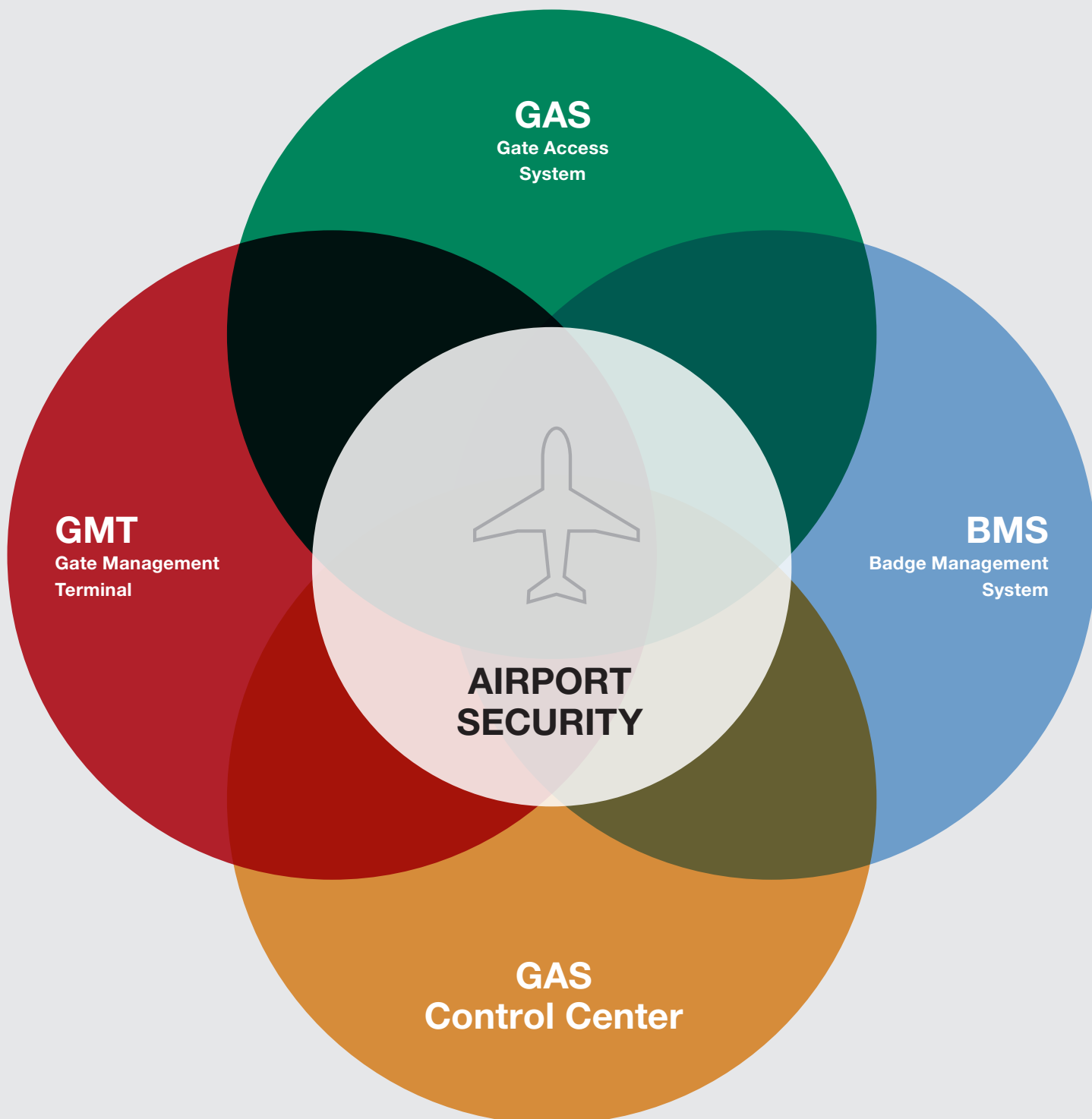




# primion Airport Solutions



## Integrated Airport Solutions

### 1. Gate Access

- Which flight operations take place at which gate?
- Which airline is allowed on the runway, when and where?
- Which doors open for Inbound / Outbound or Schengen / Non-Schengen?

04+05

### 2. Control Center

- Special status indication for gates
- Display of flight conditions via special views and functions
- User-friendly execution of tasks and actions, e.g. flight delay

06+07

### 3. Complete Overview

- Access Control
- Flight Schedule Monitoring
- Time Recording etc.

08+09

### 4. Gate Management Terminal

- Functionalities
- Booking Scenarios
- Automated Processes

10+11

### 5. Badge Management

- Who is allowed on the apron?
- What reaction chains are set in motion in the event of misuse?
- Who is allowed to record working time at which terminals?

12+13

### 6. Fraport Success Story

- Maximum support for airport operators
- Monitoring all critical areas
- Successful cooperation since 2010

14+15

# Gate Access System [GAS]

for organisational and security-relevant tasks

## Use Case Example:

A passenger wants to fly from Madrid to Paris at 12 noon.  
The flight is delayed. The delay triggers a **workflow**:



The airline **reports the delay** to the airport and air traffic control.



Air **traffic control** calculates a new arrival time and reports it to the airport and the airline.



New arrival time is recorded via airport's messaging system: Differences are calculated, aircraft parking position and take-off time in-flight services are redefined.

### Flight schedule changes

Central online available overview – also, in case of flight schedule changes or delays:

**Which flight operations take place at which gate?**

### Access rights

Access restrictions for airline staff / handling partners oriented to the current flight schedule:

**Which airline is allowed on the runway, when and where?**

### Schengen / Non-Schengen

Automatically allocating of the respective gate to different applications or spontaneous events:

**Which doors open for Inbound / Outbound or Schengen / Non-Schengen?**

**Via online-interface GAS receives all information and the new times for the delayed assignment of the aircraft to the gate. The gate can now be used easily and securely for different procedures: The configuration switches automatically based on the flight plan, e.g. between Schengen / Non-Schengen and Inbound / Outbound.**

All processes are traceable, configured in a user-friendly manner, graphically prepared and can be called up clearly at any time.



Messaging system sends the **new times** and positions to

- Air traffic control
- Airline Ground handling agent
- and all others who are affected.

In case of a further delay, the airline may have to use a replacement aircraft for the onward flight.

This information then also goes to air traffic control and the airport and sets another reaction chain in motion.

# [Control]





## Center

for the display of special views and functions and a user-friendly execution of necessary tasks and actions

### Advantages

- Strict separation of passenger flows from the Schengen / Non-Schengen area.
- Prevention of uncontrolled border crossings before, during and after flight clearance.
- Door opening after prior verification and authorised registration of the flight depending on the dynamic flight and ground movements and competing flight processes.
- Real-time flight plan control of door openings and traffic routes to the gate areas.
- Traffic lanes are the doors to be kept open / closed for flight handling with various dependencies:
  - Planned and real-time data of the respective flight and ground movements
  - Flight direction
  - Schengen / Non-Schengen
  - Exit, e.g. bridge
  - Airline
  - Aircraft type
  - Flight number
  - Destination

### Special status indications for gates

-  **no service** Gate without check-in
-  **Service** Gate with announced flight
-  **Offblock** Aircraft of declared flight has left position
-  **Timeout** Flight announced at gate was not cancelled

### Special views and functions for flight conditions

- Flight schedule view
- Different symbols
- Calling flight plan filter
- Booking view
  - Arriving flight
  - Departing flight
  - Flight details

### Special gate processes and functionalities

Example: Workflow for a flight time overrun

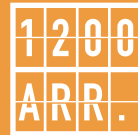
- Evaluation of security service after a timeout message, e.g. "Flight delay has no effect. Subsequent flights also delayed".
- Action Catalogue (for this example):
  - Telephone verification
  - Inform technical service
  - Write review

## Application Scenario: Flexibilisation of Gate Usage

For fixed gate configurations for certain entry scenarios (e.g. Gate 28 only serves Inbound Schengen), the gate is taken out of service if no flights arrive.



When traffic is reduced, the number of gates can also be reduced.



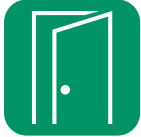
The Gate Access System (GAS) allows flexible gate handling and a possible reduction in terminal space.



When gates are used in mixed scenarios such as Inbound / Outbound or Schengen / Non-Schengen costs are reduced.



# Complete Overview



## Access Control

Protecting people  
and assets



## Gate Management

Central support  
for flight check-in



## Gate Management Terminal

Control of the clearing processes



## Flight Schedule Monitoring

Manage delays and  
schedule departures



## Visitor Management

Reliable documentation  
and tracking



## Time Recording

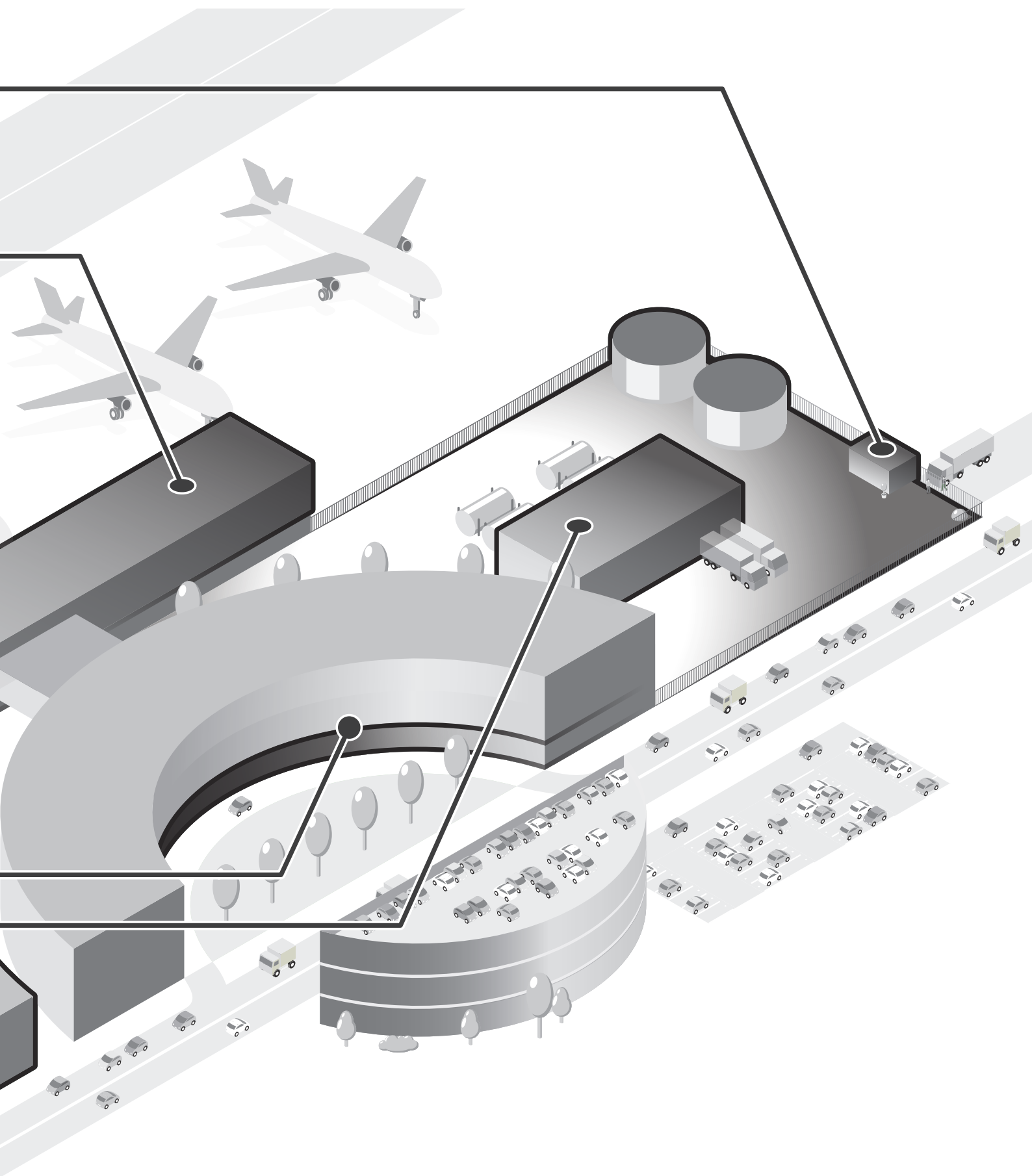
Flexibel working time models  
for employees and service providers



## Badge Management

Compliance with the  
implementing regulation





# Gate Management Terminal [GMT]

to support the airline staff with the check-in processes at the gates



At each gate a **Gate Management Terminal** (GMT) is used. The terminal supports the service staff of the airlines with the **check-in processes** at the gates.

For each reader in the gate **variable conditions** are configured under which the connected door

- before
- during and
- after

a boarding process can be opened.

## Advantages

- Optimising processes, save costs and time and increase security and effectiveness
- Higher data quality with less personnel
- Security personnel no longer necessary but higher security level
- Overview on gate operations
- Airline access limited to necessity
- Less fines to regulators

## Functionalities of the GMT

# 1.



To call up the “In Service” status for gates, flights to be handled must be registered by airline staff.

# 2.



This is enabled by checking the flight authorisation via ID check and subsequent entry of flight data.

# 3.



BGN\* timestamp is sent to visualise boarding process on flight plan displays for passengers.

\* Start and end of boarding process

# 4.



Clean / Unclean procedure is implemented, extraordinary release information can be viewed.





# Badge Management System [BMS]

in compliance with  
EU Commission's Implementing

## Functionalities for the Identity and Badge Management:

- Personal management and access rights per badge
- Managing external companies including document management
- Visitor Management: Pre-Registration via web-interface



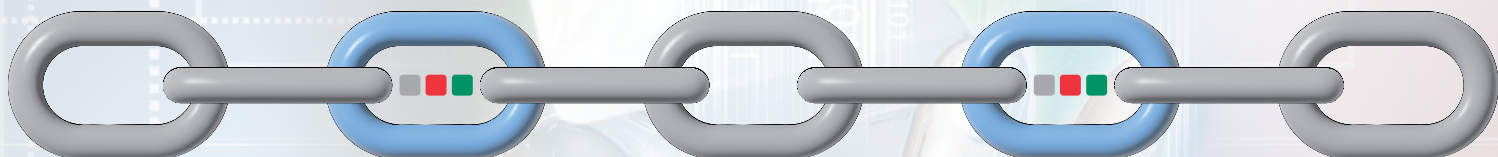
Who has access  
to which area  
and when?



How to manage  
access rights of  
external service providers?



Who is allowed  
on the apron and  
who is not?



Who is allowed to  
record working time  
at which terminals?



At what point does  
the system has to report  
sabotage attempts?



What reaction chains  
are set in action  
in case of misuse?



# Automate and simplify Badge Management processes

Optimising processes, save costs and time and increase security and effectiveness

PREVIOUS PROCESS	NEW PROCESS	YOUR BENEFIT
Manual background check according to §7 Aviation Security Act with authorities by phone / fax	Automated background check with electronical comparison towards the authority	Saving time and money
Manual paper documentation	Automated documentation and storing processes	Overview and better data quality
Manual control recording of necessary safety trainings on lists with expiry	Automated control processes	Compliance with guidelines and laws, and thus, avoiding conflicts
Manual verification "apron driving license" / granting of driving bans for individuals	Monitoring validity of e.g. training courses or driving licenses and notification by system	Compliance with guidelines and laws and preventing penalties



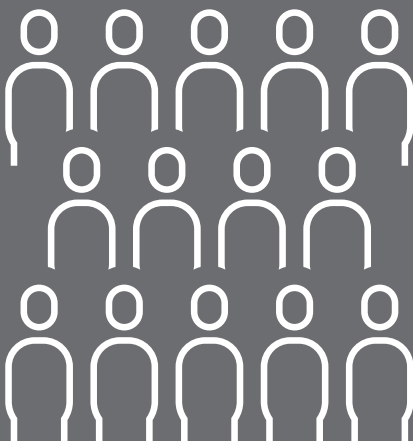
## Fraport\*: One of the largest projects in the industry for Access Control and Security Solutions

### Successful cooperation since 2010

Our integrated system solutions at Frankfurt Airport secure and monitor all important and critical areas such as the airport building, access to the aircraft and the tower as well as numerous other sensitive areas through Access Control and separation systems.


\*Fraport AG operates Frankfurt Airport, one of the world's most important air traffic hubs.

**70**  
**million**  
passengers per year



14 | primon

Handle  
**160,000**  
flights at  
  **170**  
gates

Manage  
 **81,000** | **70** | **450**  
user rights nations departments

 Control access authorisations with  
**4,000** access control readers

 Record and manage working hours for over  
**20,000**  
employees

 Ongoing project:  
Roll-out for  
Terminal 3 planned for **2025**

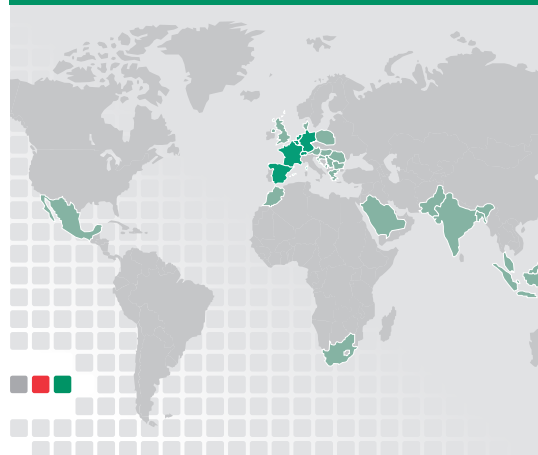




**As a service provider for airport security, hazard management and in air traffic, we support airport operators in all matters of aviation security in accordance with the Aviation Security Act.**



**(Projectmanager Fraport)**



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