### - AIRPORT OPERATION AND CRISIS MANAGEMENT

International Seminar on Airport Management in a Global Growth Scenario







### -CONTENT



- **1** EGIS AND AIRPORT OPERATION
- 2 OPERATIONAL ISSUES ADDRESSED
- 3 CRISIS MANAGEMENT CASE STUDIES



# -EGIS AND AIRPORT OPERATION





# OVERVIEW





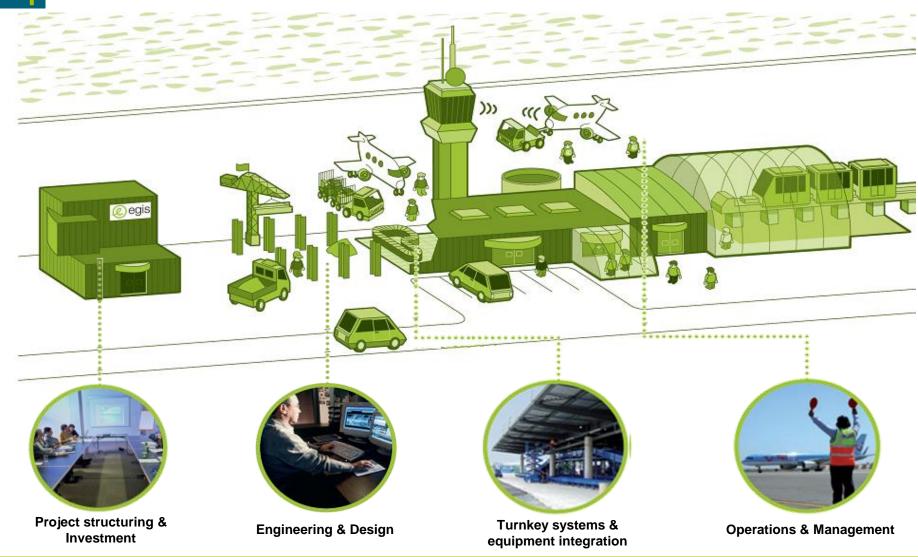
100 Countries



13 000 Employees

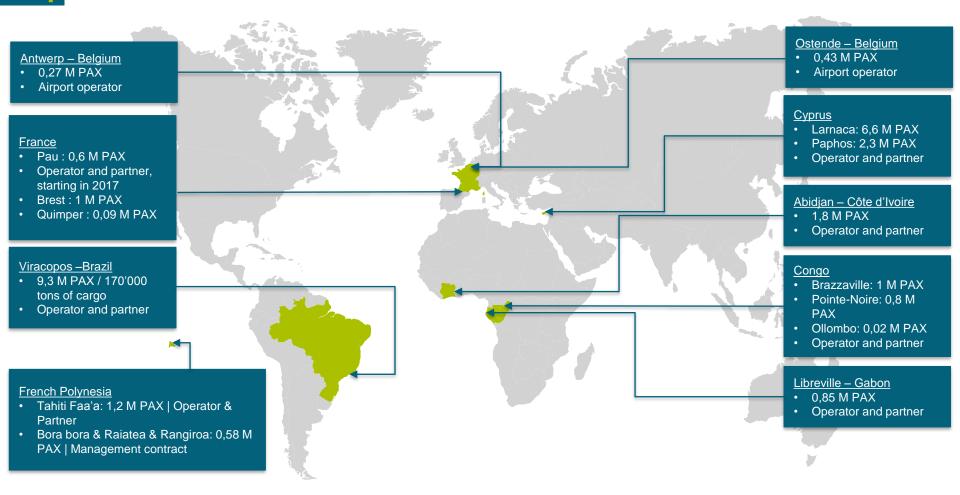
More than 50 Years of Operations

# EGIS KNOW-HOW



5

# OUR AIRPORT NETWORK



17 AIRPORTS, 8 COUNTRIES, 27 M PAX/YEAR



## -CONTENT

1 EGIS AND AIRPORT MANAGEMENT



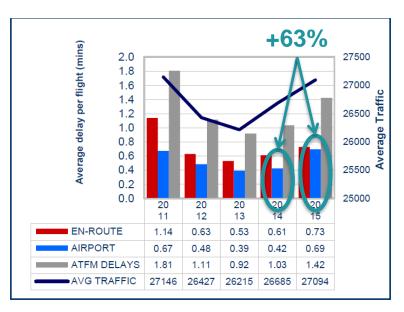
**2** OPERATIONAL ISSUES ADDRESSED

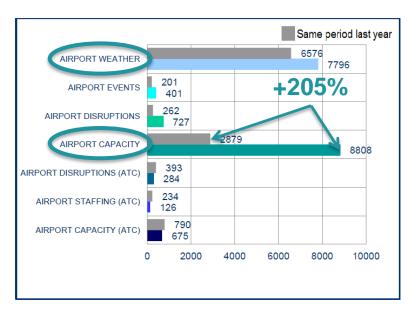
3 CRISIS MANAGEMENT - CASE STUDIES



# OPERATIONAL ISSUES ADDRESSED

In 2015, traffic increased slightly (+1.5%) ...but airport ATFM delays increased dramatically



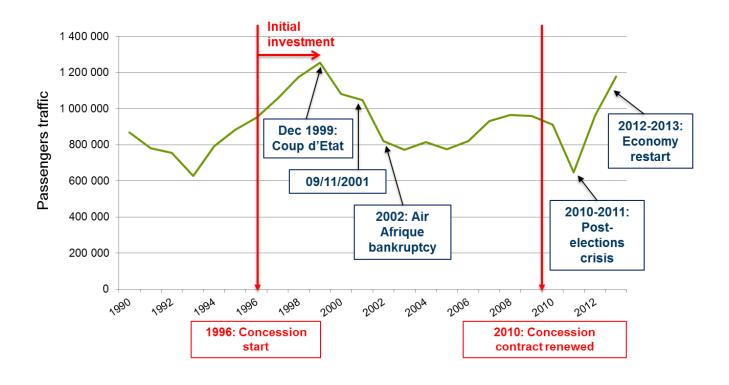


Airport Operation and Crisis Management

Airports are key nodes in network, and need to be more integrated (capacity planning, recovery)

# OTHER ISSUES ADDRESSED

20 years of Abidjan Airport Operation...



Efficient management allowed us to keep positive profit

Airport Operation and Crisis Management



## -CONTENT

- 1 EGIS AND AIRPORT OPERATION
- 2 OPERATIONAL ISSUES ADDRESSED



**3** CASE STUDIES



# French Polynesia

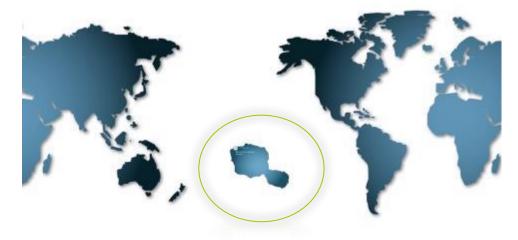


## **Tahiti-Faa'a International Airport**

#### **INVESTMENT:** 20 MILLION €

- Runway reinforcement
- Terminal expansion & modernization
- Retails & food/beverage development

30 YEARS CONCESSION (2012)



#### 2015:



### 2015:







## Heavy Flooding in Tahiti – Faa'a

### Causes

- 130 L of rain par square meter in 3 hours, 190 mm in 6 hours
- Estimated return period of 20 years (Météo France)
- Land pressure and urbanization

### Consequences

- Massive damage across the island
- Permanent clearing works of the canal
- Traffic interruption



1963



2017

Heavy Flooding in Tahiti – Faa'a



### Heavy Flooding in Tahiti – Faa'a

- Sustainable solutions, expansive and not guaranteed
  - Storm-water basins
  - Recreate the lagoon, widening the canal
- Managing the crisis
  - System of volunteer's' mobilization
  - Coordination unit
  - Recovery
    - Runway closed at 5:30 am on Sunday, useable for sanitary flight from 4:00 pm the same day
    - Reopening to commercial traffic postponed until Monday Morning at 8:00 am

Airport Operation and Crisis Management



### Crisis Management Plan

- Monitoring and on-going maintenance
- Pre alert and provisional measure
- Alert, 4 topics/teams of Crisis Management Plan

Airport Operation and Crisis Management

- Runway
- Passengers/Public
- Logistics
- Coordination of teams and communication

# Belgium



## **Ostend-Bruges International Airport**



### 2015:



276,027 PASSENGERS

### 2015:



16,844 TONS OF FREIGHT

#### **EGIS CONTRIBUTION**

- Routes development (5 new destinations since 2015)
- Passenger terminal refurbishment & capacity optimization
- Extra-aeronautical activities enhancement

25 YEARS CONCESSION (2014)



# Belgium



## **Antwerp International Airport**



### 2015:



**221,155**PASSENGERS



### **EGIS CONTRIBUTION:**

- Routes development (12 new destinations since 2015)
- Extra-aeronautical activities development
- Facilities optimization (Terminal, car parking...)

25 YEARS CONCESSION (2014)

CARBON EMISSION
& ENERGY
OPTIMIZATION
PLAN



## ANTWERP/OSTEND CASE STUDY

### Traffic diversion to regional airports

- On March 22nd 2016, attacks in Brussels Zaventem Airport and Brussels metro leaving the airport unusable for passenger flights
  - All other airports in Belgium, including Antwerp and Ostend were solicited to host the flights and passengers that could not lend and depart from Zaventem
  - On the same day, various flight were diverted to regional airports including Antwerp and Ostend Airport but Airlines also sought longer term solutions
  - Staff of alternate Belgium airports were put to high stress and workload in order to cope with the situation
  - +150% of passenger traffic during second quarter of 2016

Airport Operation and Crisis Management



# ANTWERP/OSTEND CASE STUDY

## Traffic diversion to regional airports

Positive feed-back of passengers and Belgian press on how airports handled the situation.



Airport Operation and Crisis Management



# **Cyprus**



# **Larnaca International Airport**

**INVESTMENT:** 400 MILLION €

NEW TERMINAL: 100 000 sqm

(2009)

#### **EGIS CONTRIBUTION:**

- Design, purchasing, installation, test & commissioning of the airport equipment and IT systems, ORAT
- Contract management transformation
- Proactive management crisis

25 YEAR-CONCESSION (2006)

### 2015:



**5,330,914** PASSENGERS

#### 2015:



**25,397** TONS OF FREIGHT







# LARNAKA AIRPORT CASE STUDY

### Traffic diversion after no forecast event

- On March 29th 2016, an EgyptAir flight was hijacked by a mentally affected person and forced to land at Larnaka in Cyprus
  - Fortunately no physical consequences on passengers and airport staff
- How to cope with the threats that faces airport security on a day-to-day basis
- How to manage such crisis when they happen

# HOW TO MANAGE CRISIS

# Few basics that help in managing security in airports

- On a day-to-day basis, security like safety is everybody's concern
- Each airport should have a Security Management Plan, coordinated with the countries authorities
- Each airport should have a Crisis Management Plan, also coordinated with the countries authorities
- Airport staff should be properly trained and each airport should conduct regular crisis simulation events



# Gabon



## **Libreville International Airport**





**INVESTMENT:** 40 MILLION €

NEW TERMINAL: 15 000 sqm

- Parking spaces
- Runway & apron reinforcement
- Terminal extension & modernization

30 YEAR-CONCESSION (1988)



2015:



2015:



ONE OF THE 1<sup>ST</sup> AIRPORTS IN AFRICA TO OFFER WORLD CLASS STANDARD SERVICES



# LIBREVILLE AIRPORT ILLUSTRATION

### Implementation of a Crisis Management Unit

- Context of presidential elections and period of high urban tensions in August 2016
- Objective to ensure continously the operation
  - Anticipation of employee requirements and identification of available resources
  - Reorganization of staff turnover to ensure the changeovers
  - Securing the transportation of sensitive staff (hostesses) and search for solutions of accommodation on the spot
  - Implementation of a crisis management unit between the departments, continuously mobilized during the period of tensions



# LIBREVILLE AIRPORT ILLUSTRATION

## Implementation of a Crisis Management Unit

The faultless commitment of the entire staff was an indisputable factor of success of this crisis organization



# Cyprus



# **Pafos International Airport**

**INVESTMENT:** 200 MILLION €

**NEW TERMINAL:** 18 000 sqm

(2008)

#### **EGIS CONTRIBUTION:**

- Design, purchasing, installation, test & commissioning of the airport equipment and IT systems, ORAT
- Contract management transformation
- Proactive management crisis

25 YEAR-CONCESSION (2006)

2015:







Airport Operation and Crisis Management





# PAFOS AIRPORT CASE STUDY

### Full Scale Emergency Exercise, 3-Dec.-2015

- Compliance with ICAO SARPs and Airport ERPP
- Scenario of a crashes at Pafos Airport with the aim to determine the readiness of all the relevant services an the level of coordination





# PAFOS CASE STUDY

### Full Scale Emergency Exercise, Major Outcomes

- Radio Channels congested
- The airport's ambulance should strive for better response time
- Personal should not enter in the hot zone
- In future an emergency exercise must be performed without providing prior notification about date and time
- Constantly strive for better communication and coordination between all agencies involved
- More realism is required

The overall benefit of such kind of exercises is the building and strengthening of bonds between agencies and the various airport related entities







# Sao Paulo Viracopos International Airport



2014 : New passenger terminal

Capacity: 22 Million passengers

145 000 sqm

35 Parking stands including 28 boarding bridges

4000 parking spaces

Code F

**INVESTMENT:** 4 BILLION €

2014: NEW TERMINAL

2018: SECOND RUNWAY

...UNTIL 80 MILLION PASSENGERS CAPACITY

30 YEARS CONCESSION (2012)

2015:



2015:



**198,223**TONS OF FREIGHT







## VIRACOPOS CASE STUDY



### Airport Capacity Analysis & Operational Performance

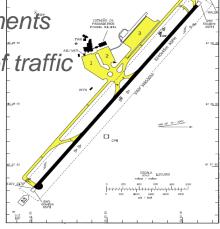
- Viracopos airport is facing a rapid development and the number of flights offered has dramatically increased since Azul Brazilian Airlines established its main hub there.
- Moreover, Viracopos is the diversion airport of Guarulhos airport

Analyse the impact of moving to Time Based Separations



Evaluate conditions for a sustainable increase of traffic





### -GRACIAS!

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