



# NCLB

Aerodrome Certification Workshop/ Training  
2<sup>nd</sup> October 2017

**Smart Nations Build On Standers**



# Smart Nations Build On Standards

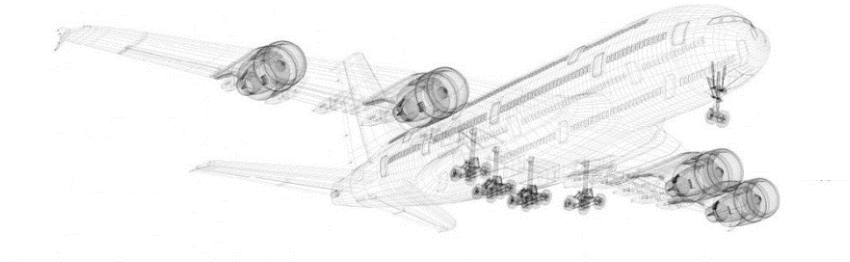
Since the threshold of 21<sup>st</sup> century,  
Aviation Stands out as one of the fastest growing and  
Most dynamic sectors in The Global Economy  
Accelerate in size and scope , calling for new strategies  
Based on global concern of safety.

**ECAA** takes this into Consideration , And With Dedication to Process ,  
Egyptian Airports are better positioned to achieve  
Aerodrome Certification



# *Sharm el Sheikh Int. Airport*

## *Aerodrome Certification*



**1**

**Goals & Expectations**

**2**

**Re-Habitation - Project Impact**

**3**

**No Airport left Behind**

# Specifications

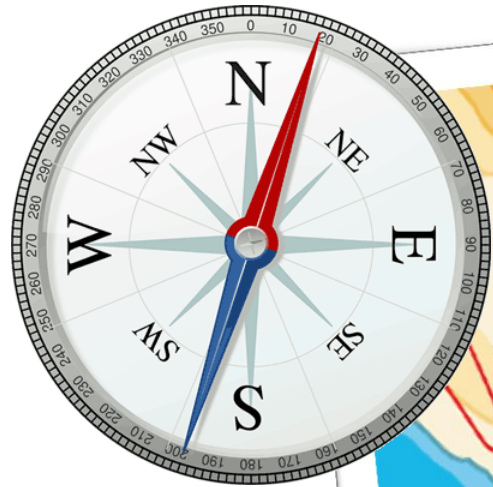
## Airport Borders

**North : Aqaba bay**

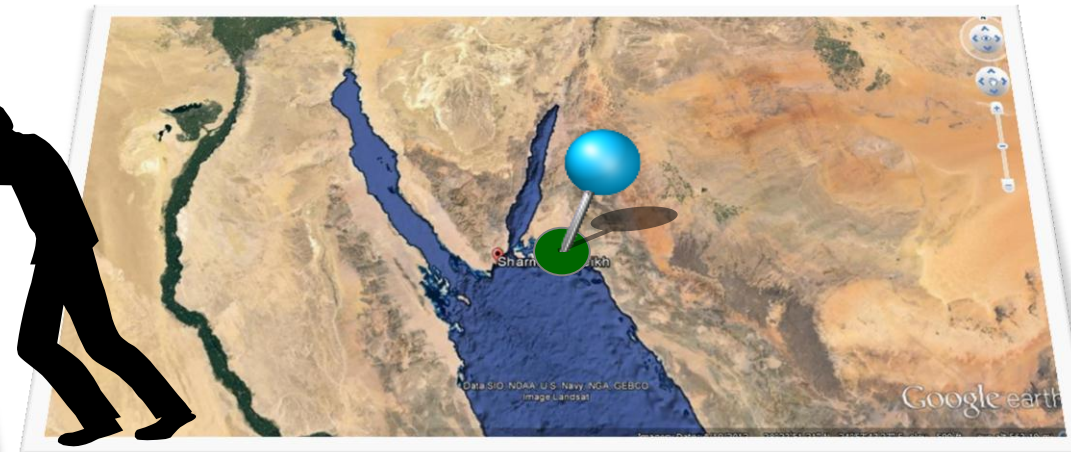
**South : Sharm El Sheikh City**

**East : Tiran Island**

**West : Mountainous area**



**23km**  
**North-East**  
**Sharm City**







**2** Parallel RWY  
Cod **4E**

Main Taxi Way **A**

**3** Terminals  
**4500**Pax/hr



**12** Intersections

**64,336** Movements

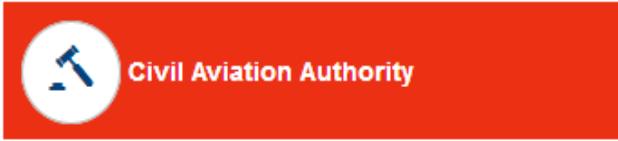
**8.5M** **YR2010**  
Passengers

**5** APRONS

**46** STANDS



# Certification History



**2008** HESH Certified  
Renewal Till **2016**



**Team Velocity**  
HESH Certification  
Certification Team **70**

Certified **2016-2018**  
Certification Team **140**



# Goals & Expectations

# Implementation plan

ACM

SMS

Ending ECAA  
Observations



RWY  
50-60000 Movements



5 Project Phases



PresenterMedia



# ECAA

**2**

exemption

- Lux (2014)
- Signage (2013)

**Mitigation**

**HAZARDS**  
MITIGATION PLAN

Implementation

**SMS**

**Dec. Risk**



**1**

deviation

- Drainage (2013)

**Wildlife**



# First Challenge

Problem Facing

Apron Light intensity  20

Problem Solutions

Increase # high mast

Increase # of lighting units





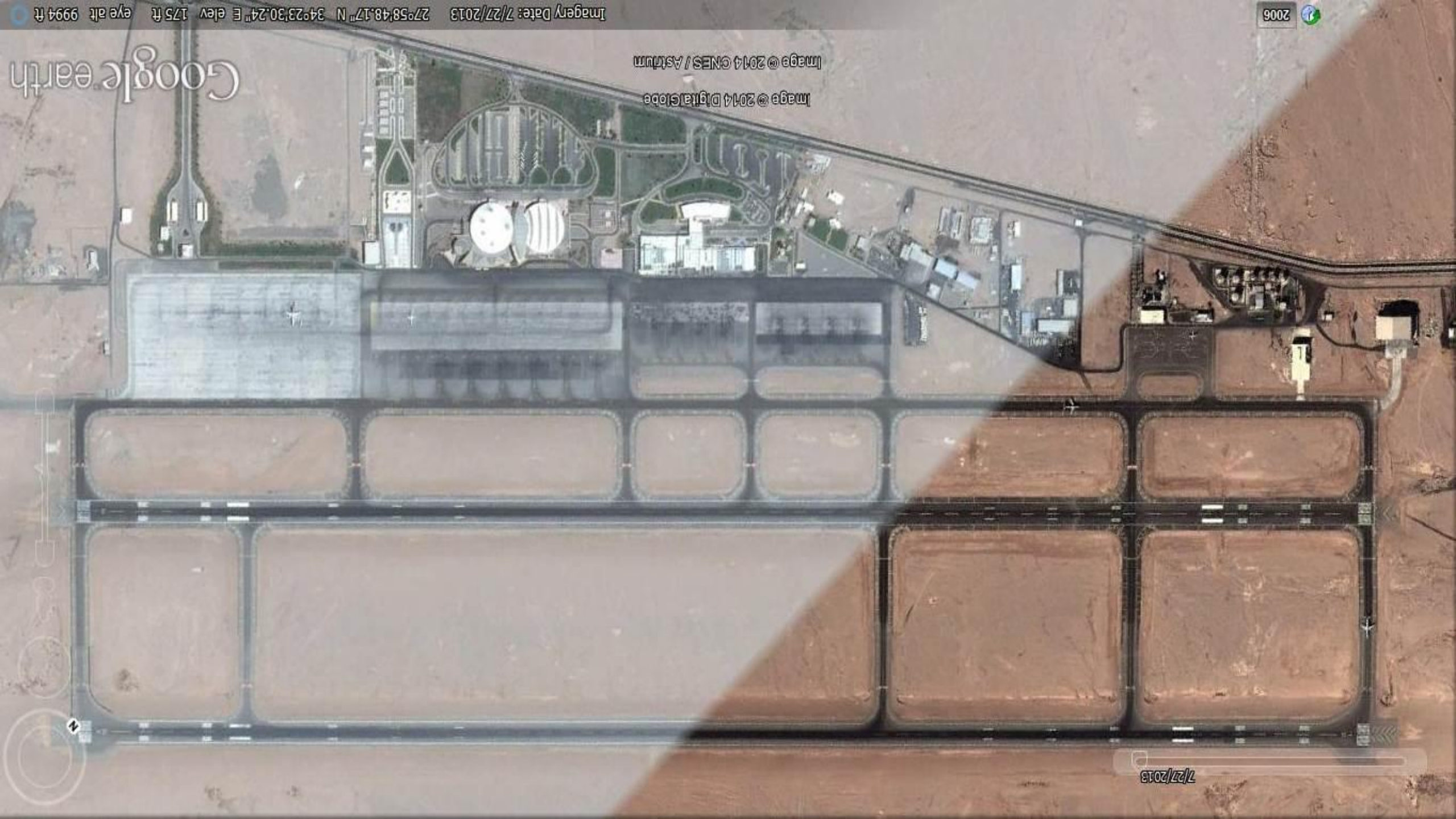


Image © 2014 DigitalGlobe  
Image © 2014 CNES / Astrium

Google earth



## Increase # of lighting units

**Apron 1**

**Apron 2**

**Apron 3**

**Front  
Stands** +

**Apron 4**

**Apron 5**





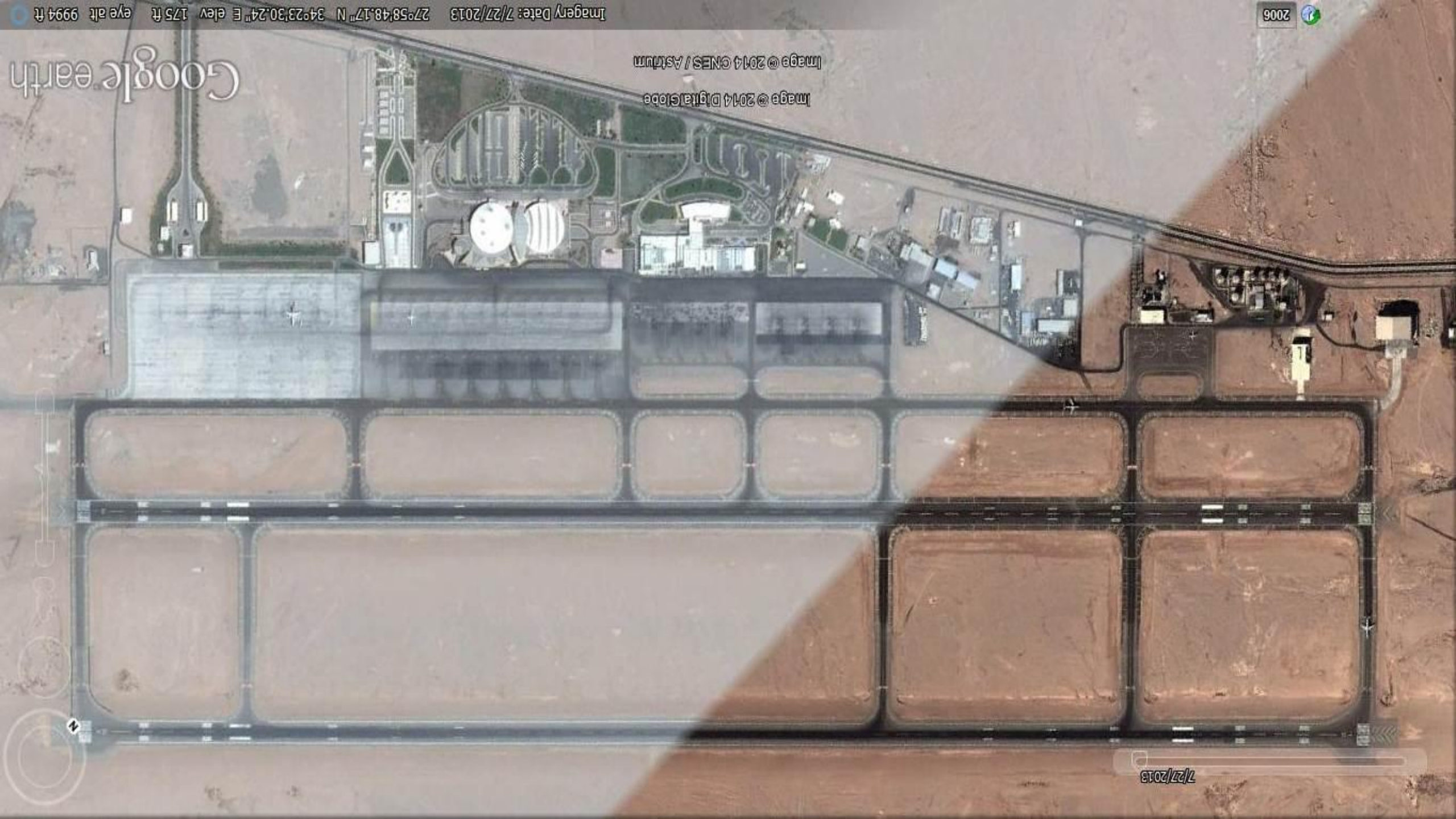


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Google earth



## Problem Facing

Apron 4 } Rear Stands  
Apron 5 }

Aircraft Code E night operations

## Mitigation

**Mobil Lights**

**3** Stands out of **9**

**failed**



Consultant



Rear Stands



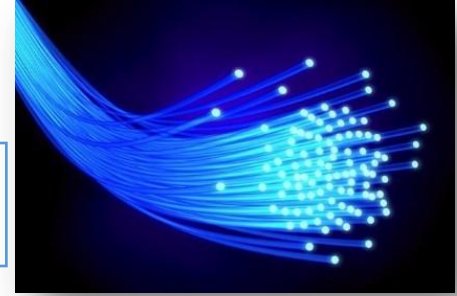
Apron 4

Apron 5

Narrow beam

**Mix**

Wide beam



**Problem Solving**

**Ending**  **First Exemption**

Exemption # 2

Deviation



- Recoating
- Drainage
- Signage

Project

Compliance  
ECAR 139

**7.5** → **10.5**  
Increase Shoulders



**Boing**  
747-400  
**FOD**





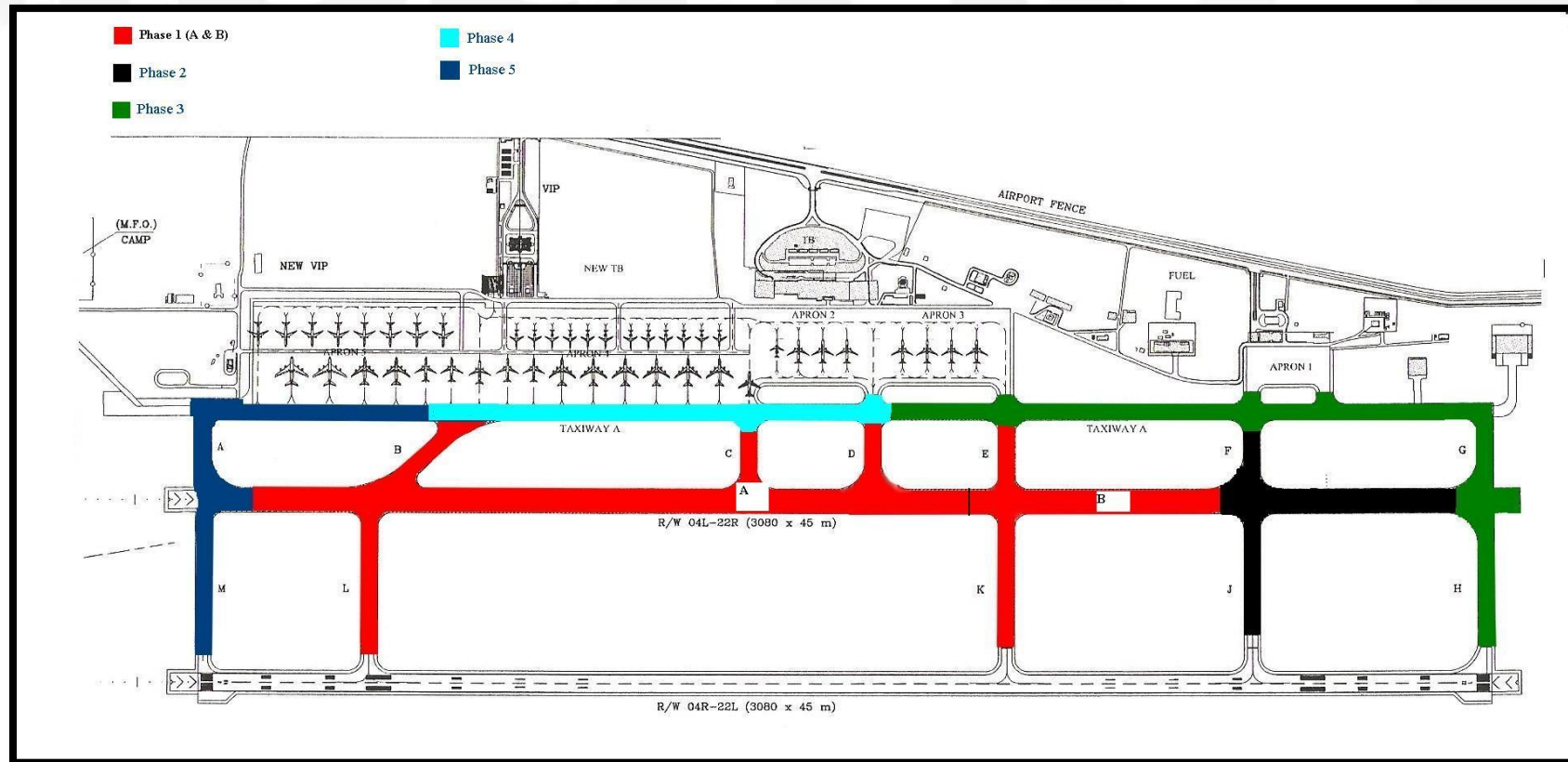


**2010**  
**64336 Movements**



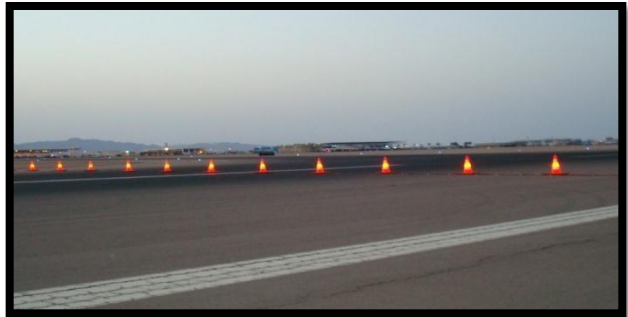
# StartUp

**5**  
**Phases**



PresenterMedia

# SAFETY PLAN

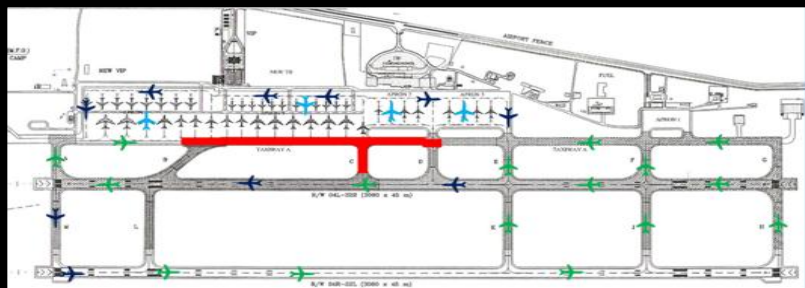


Hazard Identification	Risk Identification	Probability	Consequences	Tolerability
<ul style="list-style-type: none"><li>Heavy traffic during the first phase.</li><li>The route of constricting drivers to the WIP area.</li><li>Heavy Equipment and cranes of the project</li></ul>	<ul style="list-style-type: none"><li>An A/C may be wrong landing in R/W 04L-22R.</li><li>There may be delay of A/C.</li><li>An A/C may go the wrong way into a closed area.</li><li>Equipment may hit A/C.</li><li>The debris may scattered on the Aprons out of constructing loaders.</li></ul>	Remote	Hazardous	Required mitigations

- Risk Probability and Severity is classified as 3B
- So required mitigation, management decision.

## Phase ( 1 )

Hazard and Risks Assessment  
Upgrading of R/W 04L-22R and T/Ws



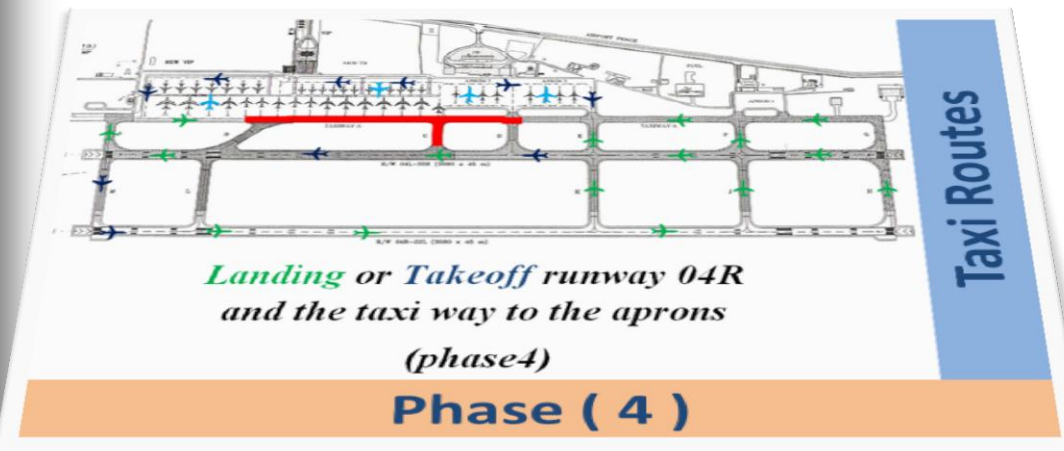
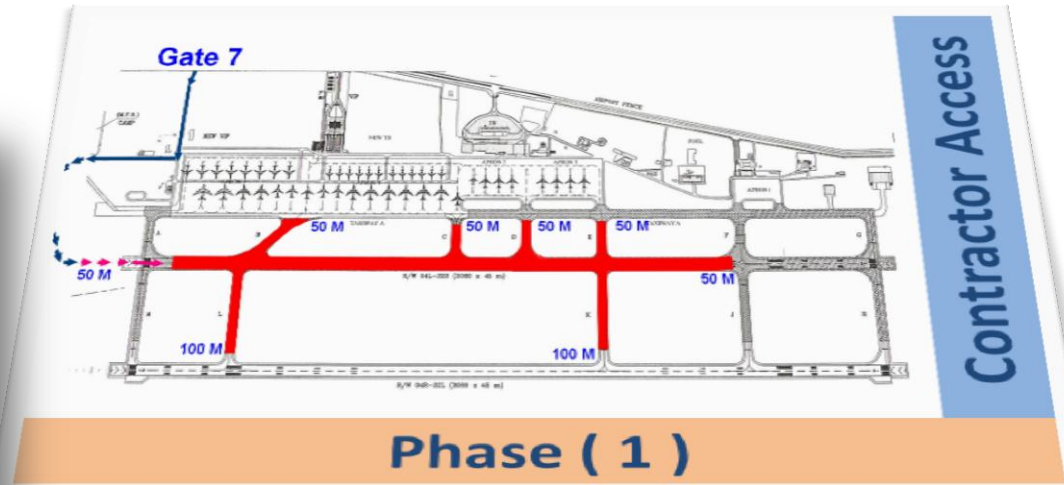
*Landing or Takeoff runway 04R  
and the taxi way to the aprons  
(phase4)*

## Phase ( 4 )

Taxi Routes



# CRITICAL PHASES





# SIGNAGE

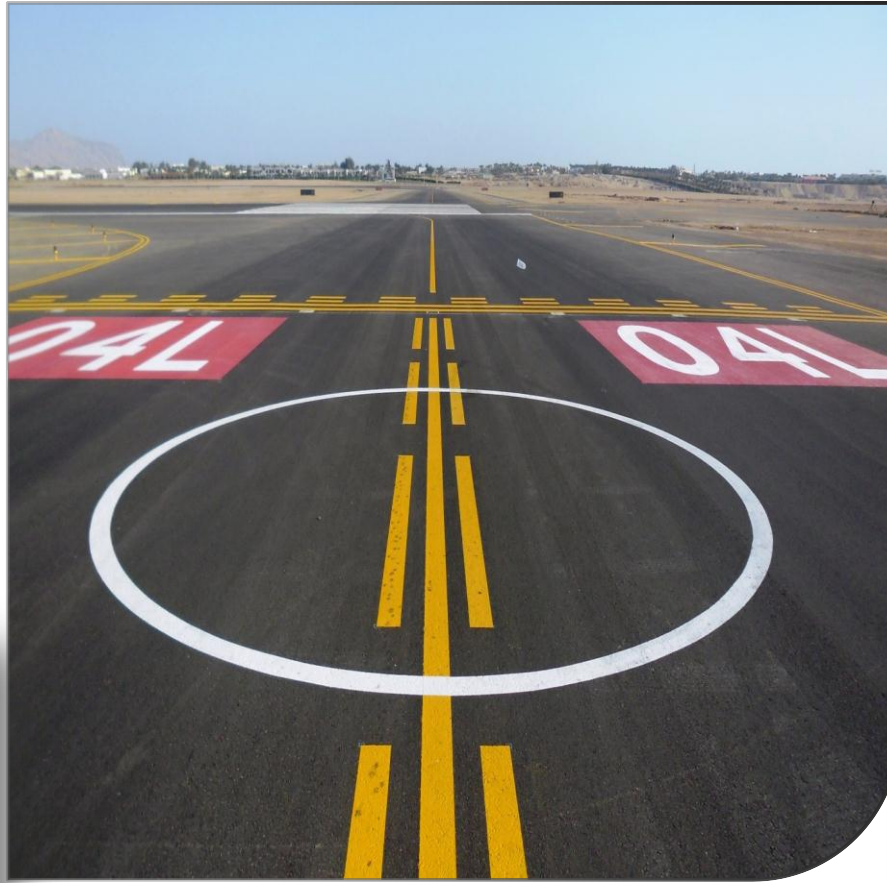


## Ending

- Second Exemption
- Deviation







# Ending

- Second Exemption
- Deviation



# Concrete Facts

## 14 ACM , SMS & Self-inspection WORKSHOPS





# 22 Safety Action GRP SAG Committee





# 9 RWY Safety Team Committee





# 32 Certification Committee





# 85 Self Inspection Committee





# 84 Service Providers Internal ADUIT



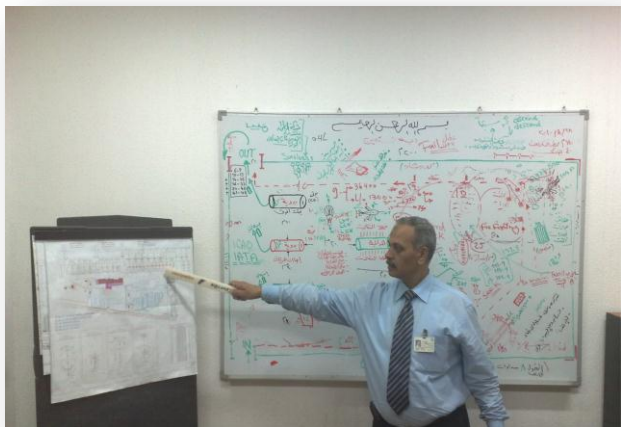


# 12 SMS OJT Safety Delegates





**2008**  
**2** Members



**ACM Team**  
ACM Arabic Version

**2013**  
**70** Members



**2016**  
**140** Members







## *Emergency plan*

8 TABEL TOP 4 PARTIAL 3 FULL SCALE

**2013** NIGHT FULL- SCALE

**FIRE UNDER PRESSURE**

**200** PASSENGERS

**1050** PARTICIPANTS





# 2017 New Challenge



## *Emergency plan*

Aircraft Accident Outside Airport  
Specific rescue tactics training  
**ARFF School**

**1652** PARTICIPANTS





# No Airport Left behind





# HESH ACM Workshop





# Initial Certification Documentations





# Implementation Wildlife Hazard Management Plan





Thank  
You