



MOROCCO AIG Experience



JEDDAH, SAUDI ARABIA, 25-27 APRIL 2017



PLAN

INTRODUCTION

I. AIB OVERVIEW

- I.1 LEGAL BASIS
- I.2 MAIB STRUCTURE
- I.3 HUMAN RESOURCES
- I.4 MATERIAL RESOURCES

II. AIR EVENTS ECCAIRS

III. MAIN ACTIVITIES OF AIB

IV. USOAP CMA OF AIB

V. AIB PROPOSALS

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INTRODUCTION

AERONAUTICAL ACTIVITIES IN MOROCCO

**AIRLINES COMPANIES
3 NATIONAL + 45 FOREIGN**



**ROYAL AIR
MOROCCO
52 AIRPLANES**

**AIR ARABIA
MOROCCO
6 AIRPLANES**

**RAM
EXPRESS
5 AIRPLANES**





INTRODUCTION

AERONAUTICAL ACTIVITIES IN MOROCCO

GENERAL AVIATION

85 AIRCRAFTS





INTRODUCTION

MAINTENANCE & TRAINING CENTERS

MAINTENANCE WORKSHOPS : 7



TRAINING CENTERS

ISMALA
MAINTENANCE
SCHOOL

MOHAMED VI CIVIL
AVIATION ACADEMY

CFPNC ACADEMY
PILOT TRAINING SCHOOL



Sortie de la 1ère promotion de «92 Techniciens Spécialisés en Maintenance Aéronautique-catégorie A»





INTRODUCTION

AIRPORTS & SERVICE PROVIDER

MOROCCO INTERNATIONAL AIRPORTS : 16
❖ **CASABLANCA MED V**



GROUND SUPPORT COMPANY : 3
❖ **MAR HANDLING, SUISSPORT AND RAM**



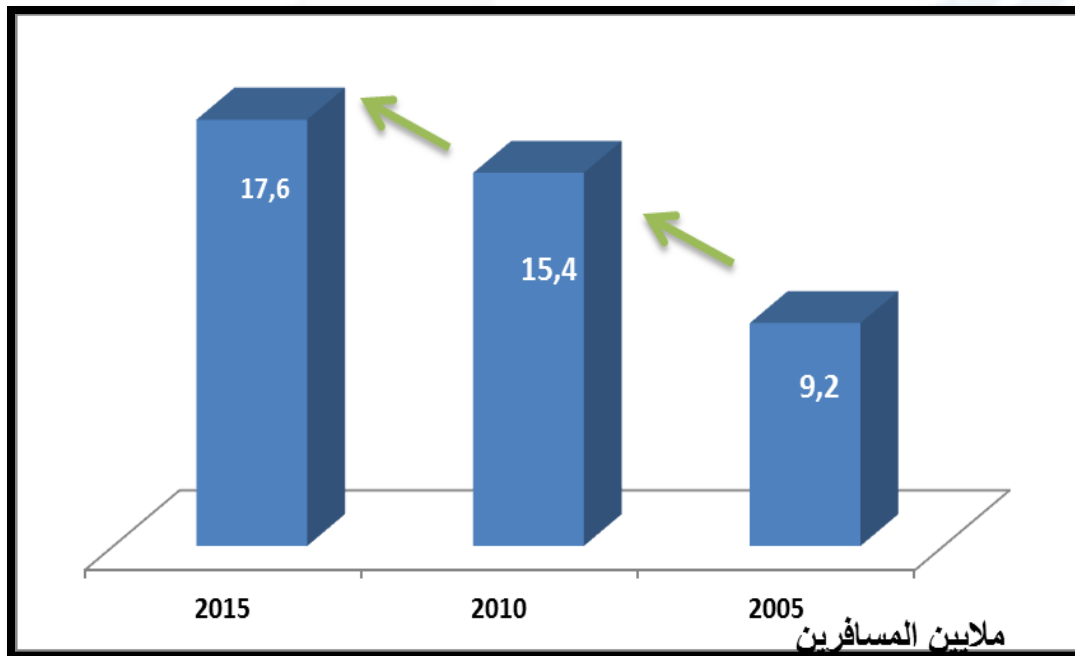
AIR SERVICES PROVIDER : ONDA
(NATIONAL AIRPORTS OFFICE)





INTRODUCTION

- 45 REGULAR AIRLINES IN MOROCCO, INCLUDING 17 COMPANIES WITH LOW COST COMPARED TO 22 (2003)
- 3 MOROCCAN COMPANIES: ROYAL AIR MAROC, RAM EXPRESS, AIR ARABIA
- 33 COMPANIES FROM THE EUROPEAN UNION
- 9 COMPANIES FOR NON-EU COUNTRIES

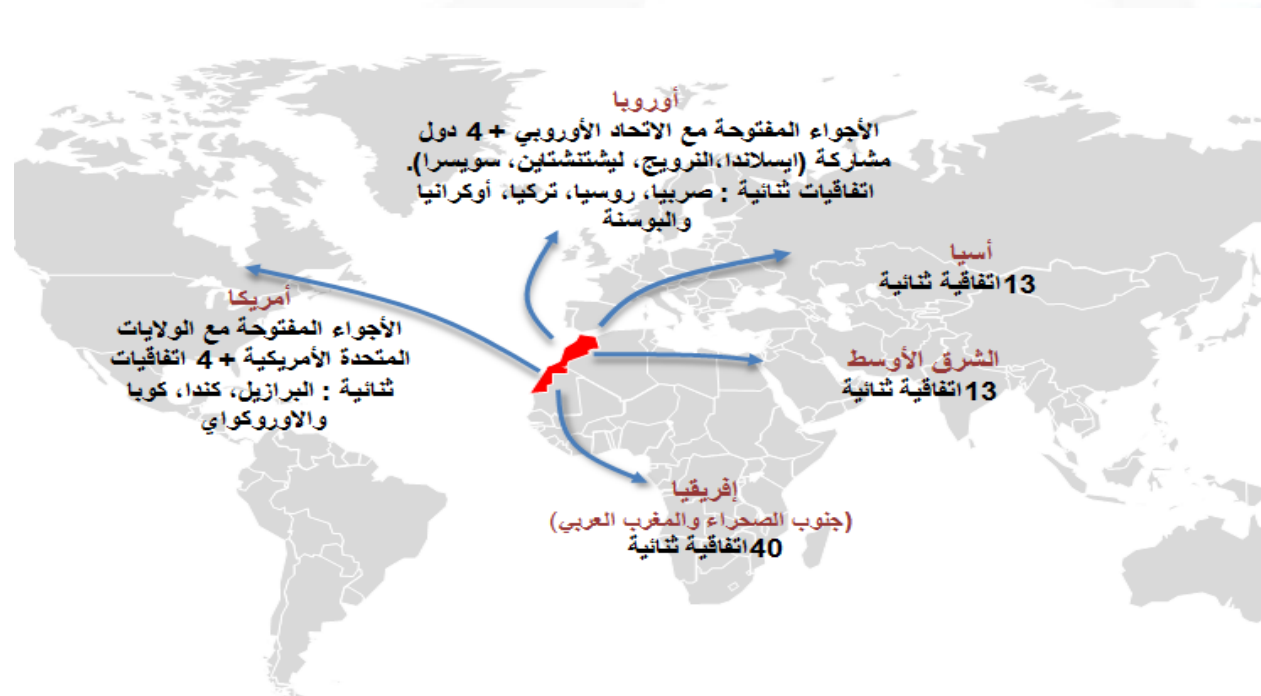




INTRODUCTION

AT THE INTERNATIONAL LEVEL

- INTERNATIONAL AGREEMENTS
- BILATERAL AND MULTILATERAL AGREEMENTS



**EXCELLENT GROWTH OF PASSENGER AIR TRAFFIC SINCE
THE OPENING OF MOROCCAN AIRSPACE**



I. MAIB OVERVIEW



I.1 LEGAL BASIS

- **DECREE No. 2-61-161 OF 10 JULY 1962 REGULATING CIVIL AERONAUTICS ARTICLE 106-114; (TILL 2008 , THE INVESTIGATION WAS CONDUCTING BY THE CAA)**
- **DECREE OF 25 AUGUST 2008 LAYING DOWN THE ORGANIZATION AND RESPONSIBILITIES OF THE MINISTRY OF EQUIPMENT AND TRANSPORT, IN PARTICULAR THE BEAM**





I. MAIB PRESENTATION

I.1 LEGAL BASIS

CIVIL AVIATION LEGISLATION
(LAW 40-13 OF 16.06.2016)

(TITLE 10: ART243-271)

INDEPENDENCE
ARTICLE 243

**ACCREDITED
INVESTIGATORS**
ARTICLE 248

POWER OF INVESTIGATORS
ARTICLES: 251-259

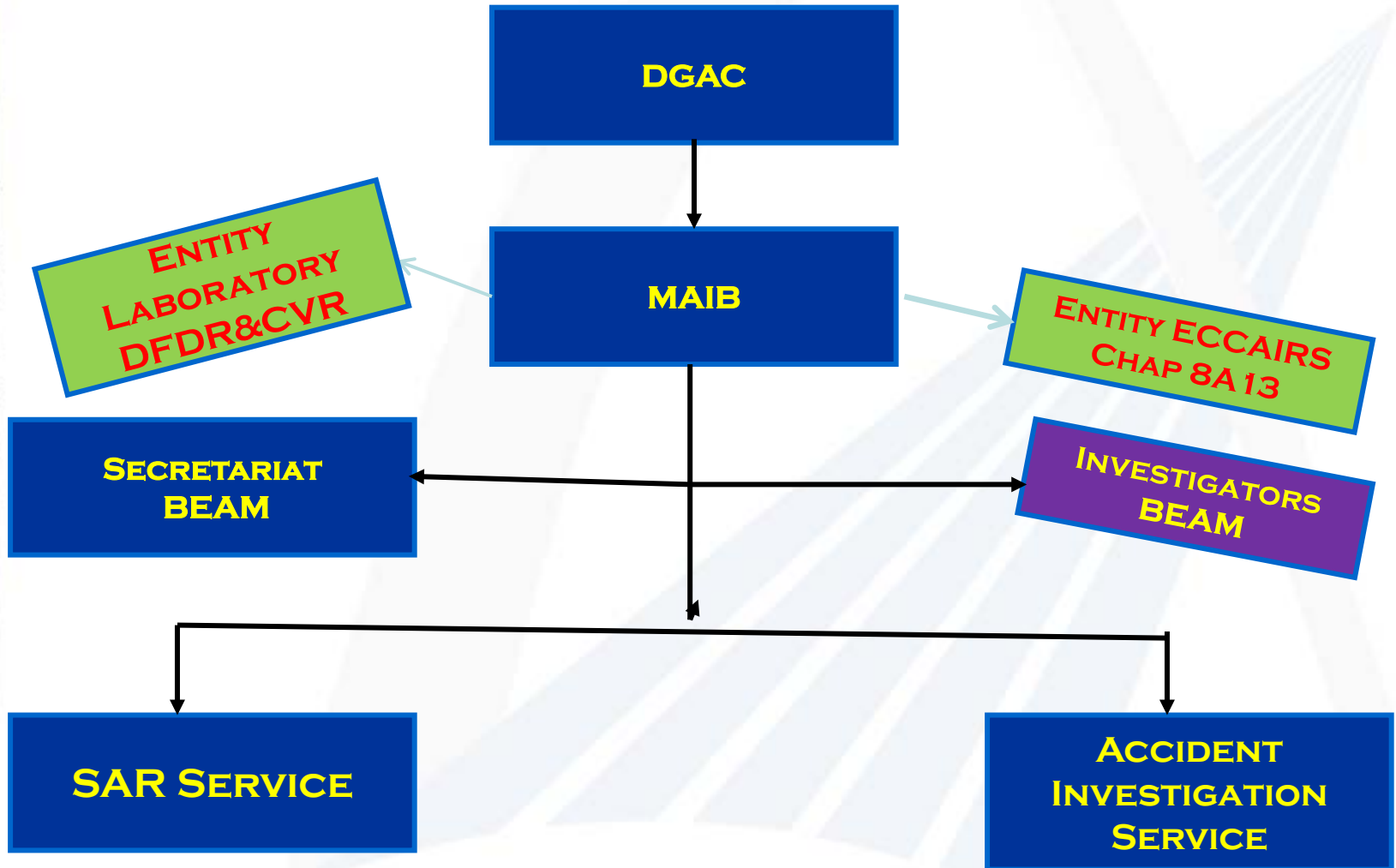
VOLUNTARY NOTIFICATION
ARTICLE 266



I. MAIB OVERVIEW



I.2 STRUCTURE OF MAIB





I. MAIB OVERVIEW

I.3 HUMAN RESOURCES

- ❑ **FULL TIME: 4 INVESTIGATORS**
- ❑ **PART TIME: 22 INVESTIGATORS**
 - **12 OPERATIONAL INVESTIGATORS**
 - **10 INVESTIGATORS UNDER OJT**
- ❑ **PART TIME:**
 - **ROYAL AIR MAROC**
 - **ROYAL AIR FORCE**
 - **ROYAL GENDARMERIE**
 - **AIR ARABIA MAROC**
 - **ONDA**
 - **AMPL**





I. MAIB OVERVIEW

I.4 MATERIAL RESOURCES

FLIGHT DATA ANALYSIS LABORATORY (CVR & DFDR)



I. MAIB OVERVIEW

I.4 MATERIAL RESOURCES

FLIGHT DATA ANALYSIS LABORATORY (CVR & DFDR)





I. MAIB OVERVIEW

I.4 MATERIAL RESOURCES

PROTECTIVE EQUIPMENT / BIOLOGICAL RISKS, ETC.





I. MAIB OVERVIEW

I.4 MATERIAL RESOURCES

OTHER EQUIPMENTS





I. MAIB OVERVIEW

I.4 MATERIAL RESOURCES **PERIODIC TRAININGS**





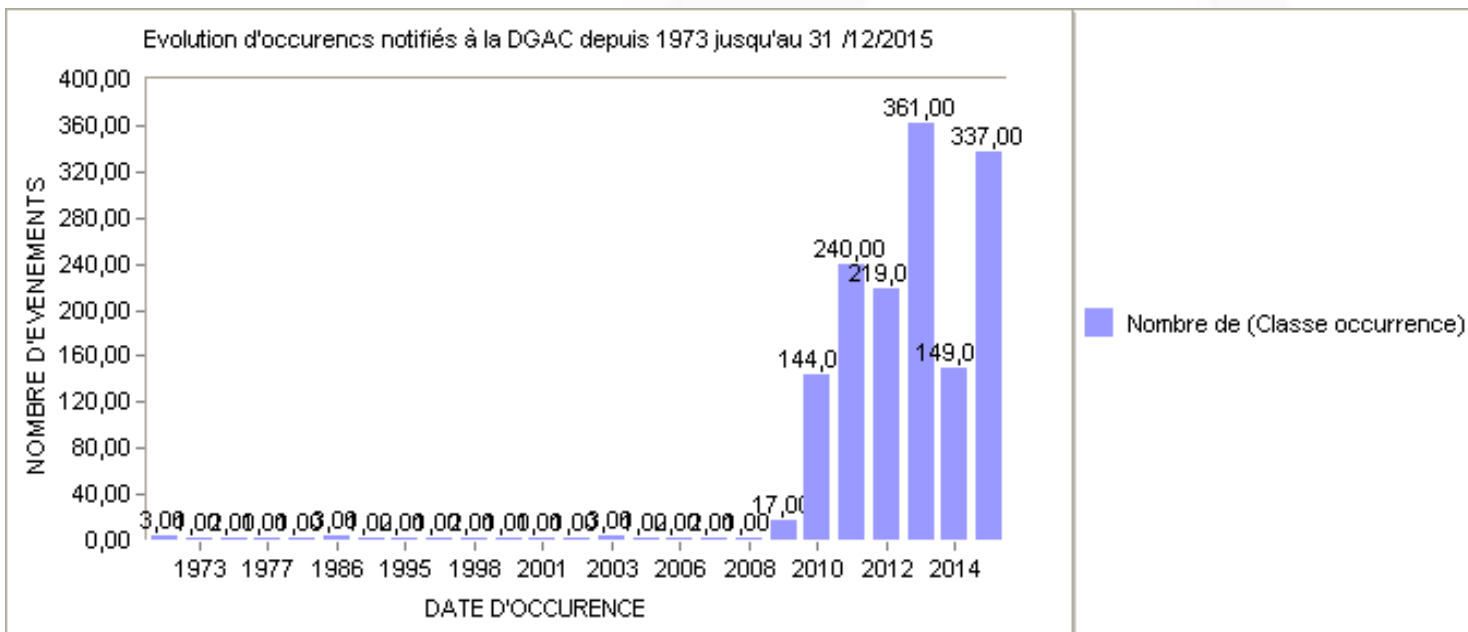
I. MAIB OVERVIEW

I.4 MATERIAL RESOURCES

Availability of individual kits



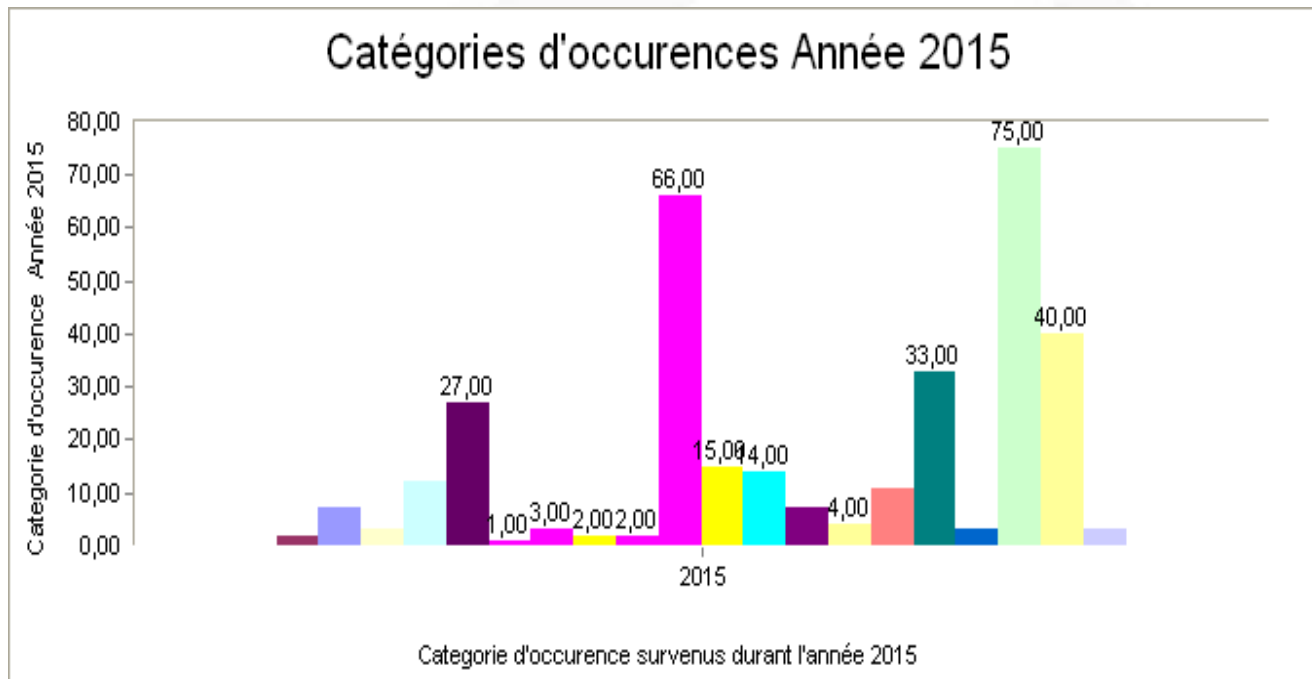
II. MAIB EVENTS ECCAIRS :



EVOLUTION OF THE NUMBER OF OCCURRENCES 1974-2015



II. MAIB EVENTS ECCAIRS :



AIRCRAFT SYSTEM FAILURES	: 75
IMPACTS OF BIRDS	: 66
GROUND SUPPORT	: 27
AIR TRAFFIC ATM	: 33
DRIVING FAILURES	: 15
OTHER	: 40

III. MAIB ACTIVITY SINCE 2008



**TRAINING
INVESTIGATOR'S
MANUAL**



**CONFIRMED
INVESTIGATOR**



**BASIC
TRAINING**

**OJT
(3 INVESTIGATIONS
SUPERVISED)**



**PROFILE
PREREQUISITE**



III. MAIB ACTIVITY SINCE 2008



IMPLEMENTATION OF AIG QUALITY SYSTEM ISO9001 CERTIFICATION

1. PROCESS DESIGNATION OF A TECHNICAL INVESTIGATOR

**2. SENDING NOTIFICATIONS , REPORTS, TECHNICAL
SURVEY REPORTS**

**3. COMMUNICATION AND FOLLOW-UP OF SAFETY
RECOMMENDATIONS**

**4. RIGHT AND OBLIGATION OF EACH INDIVIDUAL
PARTICIPATING IN THE INVESTIGATION**



III. MAIB ACTIVITY SINCE 2008



**ACCIDENTS INVESTIGATED
SINCE 2008:
(42 OCCURRENCES)**

**SERIOUS INCIDENTS
INVESTIGATED SINCE 2008
48 / 124**



IV . USOAP CMA OF MAIB



AUDIT 2009
52,58%

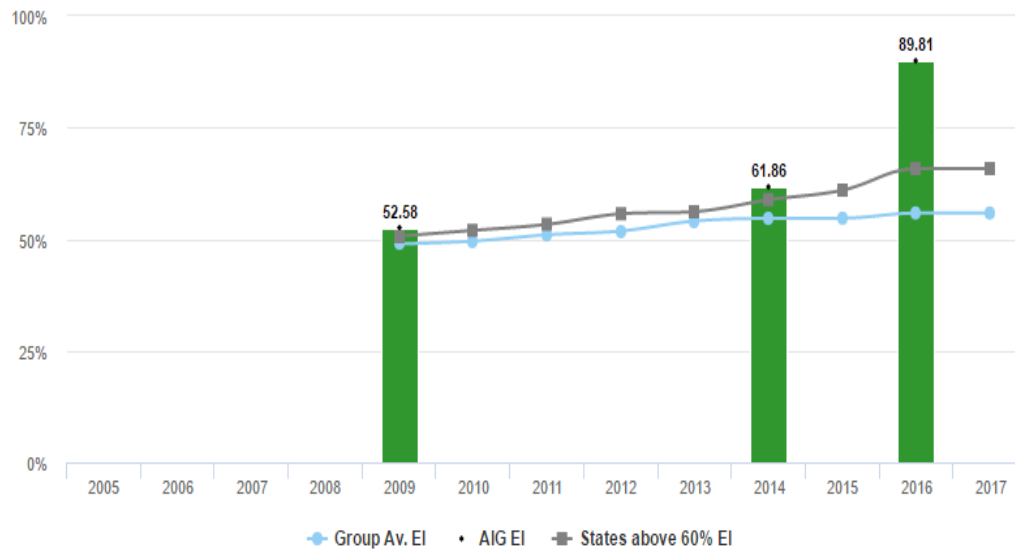
ICVM
2014
61,86%

AUDIT 2016
89,81%

Trends

Show EI Trends

Year-end Trends
Morocco versus World



Unsatisfactory PQs by CE

	AIG
CE-	3
CE-	3
CE-	2
CE-	
CE-	2
CE-	
CE-	
CE-	1



IV . USOAP CMA MAIB



OBJECTIVE
2018 = **94%**



V. BEAM PROPOSALS



**BILATERAL OR
MULTILATERAL
COOPERATION**

❖ **KINGDOM OF SAUDI ARABIA**
❖ **UAE**

1

**STANDARDIZED
TRAINING
PROGRAM**

2

**ASSISTANCE IN
INVESTIGATING
ACCIDENTS AND
INCIDENTS**

3

**STANDARDIZATION
OF INVESTIGATION
PROCEDURES
(USAOP)**



CONCLUSION



STRENGTH POINTS

- 90% COMPLIANCE WITH A13 REQUIREMENTS
- QUALITY CERTIFICATION ISO 9001
- ABILITY TO PROVIDE RECURRENT TRAINING

ACCIDENTS INSURED AT 100%

Points Requiring Improvement

FUNCTIONAL INDEPENDENCE
NUMBER OF INVESTIGATORS
SERIOUS INCIDENTS 40%

BASIC TRAINING
ADVANCED TRAINING

EFFICIENT SOLUTION

BILATERAL COOPERATION, OR MULTILATERAL AT REGIONAL
LEVEL (MENA RAIO)





THANK YOU FOR YOUR ATTENTION

IF YOU WANT TO SHARE WITH US YOUR
EXPERIENCE; CAPABILITIES AND PROVIDE US
WITH YOUR EXPERTS IN AIG FIELD;
PLEASE JOIN US

CONTACTS:

- ❖ PERMANENTE PHONE : **+212 6 60 18 18 70**
- ❖ E-mail : **BEAMAROC@AVIATIONCIVILE.GOV.MA**
- ❖ MINISTRY SITE:

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