MENA ARCM DATABASE TEAM

Committee Meeting

September 11-12 , 2022

OUTLINE

1 INTRODUCTION

2 WORK DONE

3 SUMMARY OF FINDINGS

4 TEAM RECOMMENDATION

1. Introduction

In order to foster the cooperation among member states, the MENA ARCM Committee has recognized the importance of developing a database platform and assigning a dedicated team for this mission.

Our team has conducted a series of workshops to draw the roadmap, the required data and the recommendation for the database

Introduction

Aim of Database Team

❑ Develop MENA ARCM Database through defining available resources and capabilities among the MENA ARCM member states.
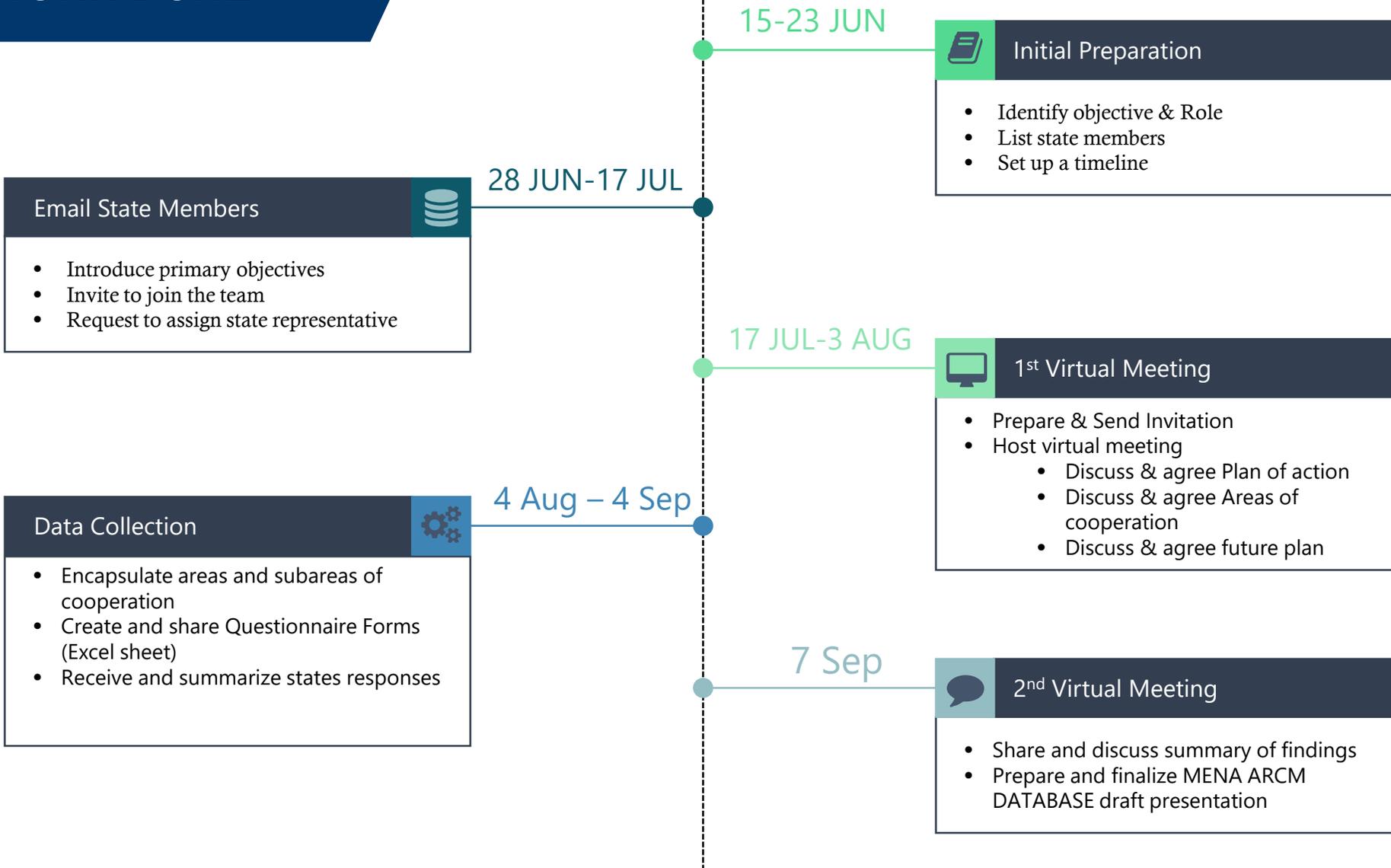
Motives & Benefits

❑ Facilitate multi-lateral technical cooperation and collaboration

❑ Technical assistance in accidents and incidents investigation

❑ Enhance member states compliance to Annex 13

❑ Make utmost use of AIG resources available including expertise, training capabilities, equipment, investigation know-how and information, standards and guidance.

Workshops in brief

❑ Discussed and agreed importance of database

❑ Discussed and agreed on the roadmap

❑ Discussed and agreed areas of cooperation

❑ Finalized recommendation and final presentation

2. WORK DONE

15-23 JUN

Initial Preparation
- Identify objective & Role
- List state members
- Set up a timeline

28 JUN-17 JUL

Email State Members
- Introduce primary objectives
- Invite to join the team
- Request to assign state representative

17 JUL-3 AUG

1st Virtual Meeting
- Prepare & Send Invitation
- Host virtual meeting
  - Discuss & agree Plan of action
  - Discuss & agree Areas of cooperation
  - Discuss & agree future plan

4 Aug – 4 Sep

Data Collection
- Encapsulate areas and subareas of cooperation
- Create and share Questionnaire Forms (Excel sheet)
- Receive and summarize states responses

7 Sep

2nd Virtual Meeting
- Share and discuss summary of findings
- Prepare and finalize MENA ARCM DATABASE draft presentation

Final Presentation at MENA ARCM Committee Meeting 11-12 SEP

AREAS OF COOPERATION

Areas	Investigation Expertise	Tools & Equipment	Reports	Process and procedure Manuals	Training	LAB	Delegation of investigation	Safety recommendations
Sub- areas	Names or Organization	Aerial photography (Drones)	Reporting analysis	Investigation manuals	OJT	Downloading FDR& CVR	facility	Mechanism
	Expertise (Human factor, cyber security, operations, Engineering, Air navigation ATC, FDR& CVR, Metallurgy	Simulator, FARO, Animation Software, hydrophones, ROV & Sonars	Investigation reports	Practices for writing manuals	Bi-annual Sharing plans	Animation	Examination area	Repository
		Field investigation kits	Peer review before publication	Developing manuals	Drills	Metallurgy Analysis	Expertise	Promotion
				Drafting, consulting, publishing, implementation, assessment		FDR/CVR Analysis	Wreckage storage	Technical Category
				References				Follow-up

3. Summary of Findings

9
MEMBERS

2
7

Participated

Not Participated

Morocco

Libya

Sudan

Jordan

Iran

Palestine

KSA

UAE

Oman
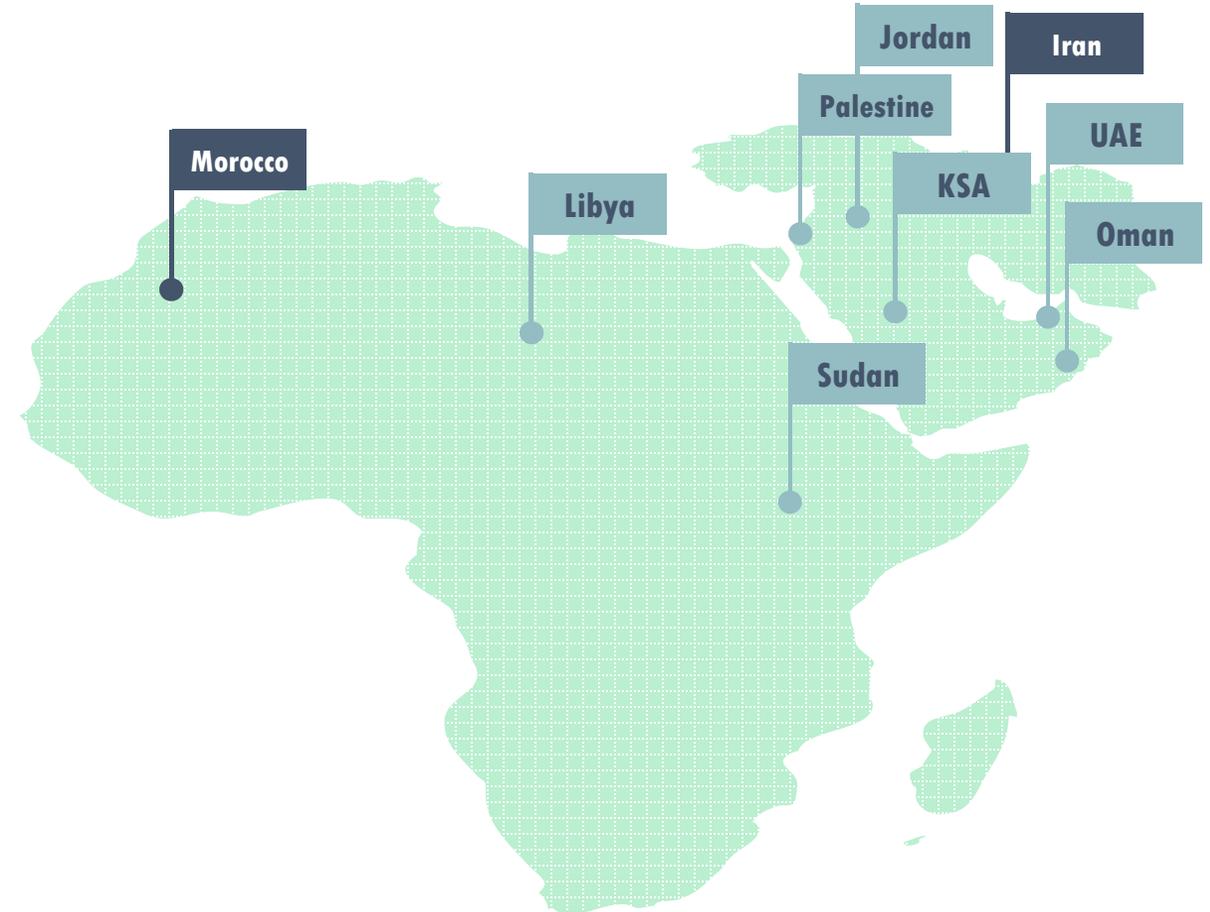
8 Areas of cooperation were included in the data collection phase

(Investigation Experts, Tools & Equipment, Reports, Process & procedures, Training, Eng. Lab, Delegation of Investigation, Safety recommendation)

DATA COLLECTION - OVERVIEW

Palestine
- Number of Experts : 1
- Investigation Reports Write/Analyze : No
- Examination Area : No
- External Visitors : Unknown
- FDR/CVR Download : No
- Metallurgy Analysis : No
- Aerial Photography : No
- Recommendation Procedure : No
- Provide OJT : No

Jordan
- Number of Experts : 1
- Investigation Reports Write/Analyze : No
- Examination Area : Yes
- External Visitors : 2
- FDR/CVR Download : No
- Metallurgy Analysis : No
- Aerial Photography : No
- Recommendation Procedure : Yes
- Provide OJT : Yes

UAE
- Number of Experts : 7
- Investigation Reports Write/Analyze : Yes
- Examination Area : Yes
- External Visitors : 5
- FDR/CVR Download : Yes
- Metallurgy Analysis : No
- Aerial Photography : Yes
- Recommendation Procedure : Yes
- Provide OJT : Yes

Libya
- Number of Experts : 1
- Investigation Reports Write/Analyze : No
- Examination Area : No
- External Visitors : Unknown
- FDR/CVR Download : No
- Metallurgy Analysis : No
- Aerial Photography : No
- Recommendation Procedure : No
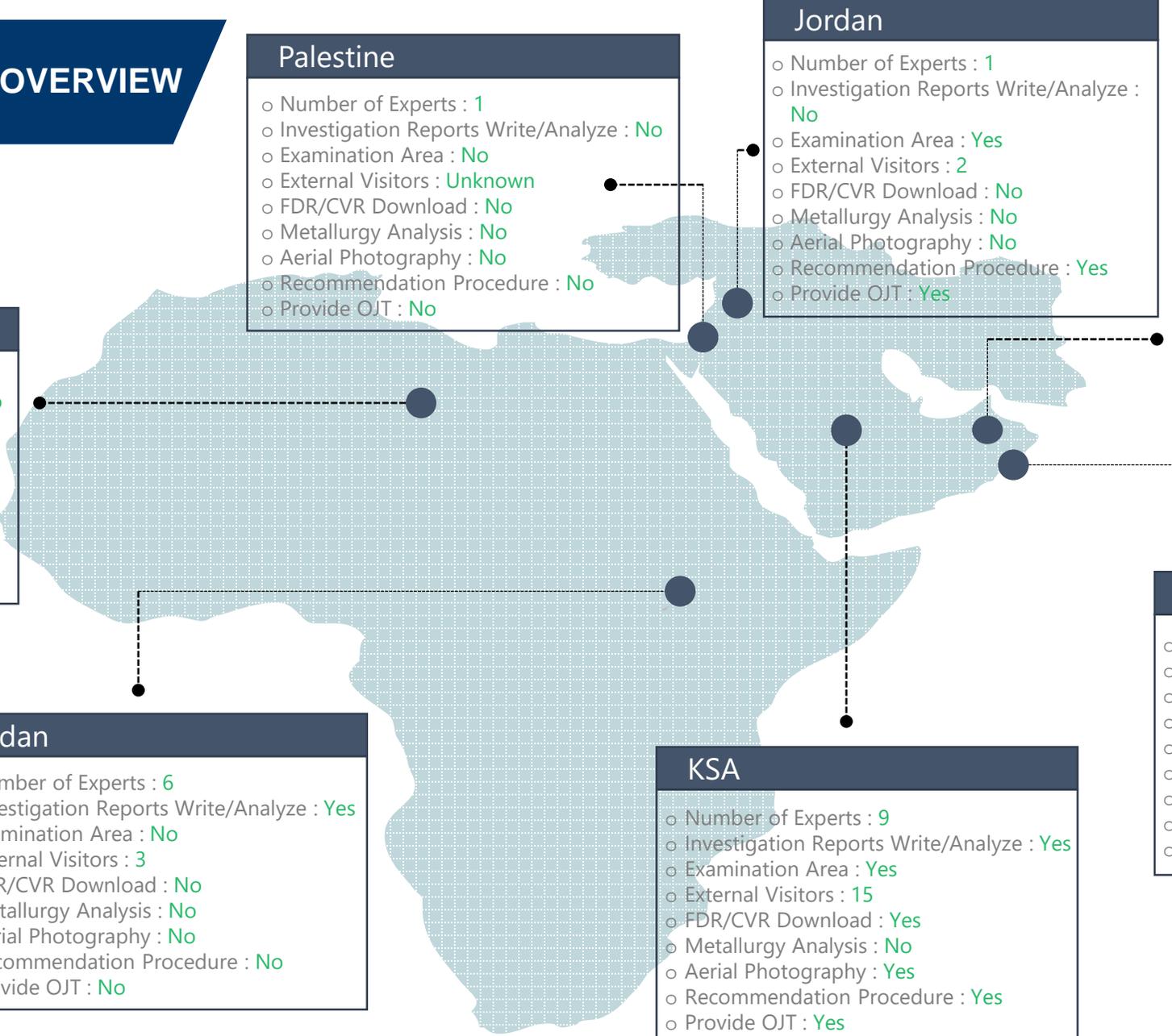- Provide OJT : No

Oman
- Number of Experts : 1
- Investigation Reports Write/Analyze : Yes
- Examination Area : Yes
- External Visitors : 2
- FDR/CVR Download : No
- Metallurgy Analysis : No
- Aerial Photography : Yes
- Recommendation Procedure : Yes
- Provide OJT : No

Sudan
- Number of Experts : 6
- Investigation Reports Write/Analyze : Yes
- Examination Area : No
- External Visitors : 3
- FDR/CVR Download : No
- Metallurgy Analysis : No
- Aerial Photography : No
- Recommendation Procedure : No
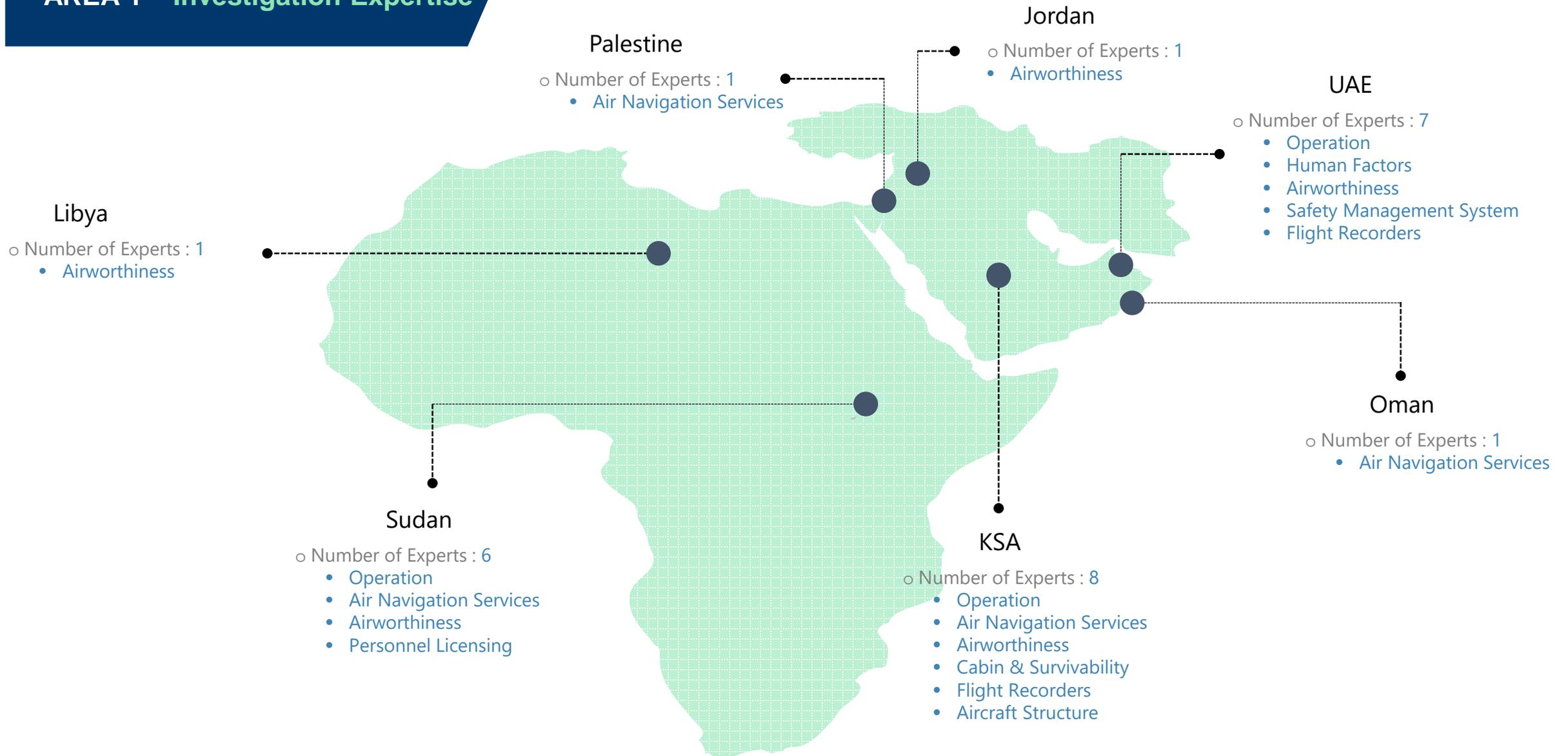- Provide OJT : No

KSA
- Number of Experts : 9
- Investigation Reports Write/Analyze : Yes
- Examination Area : Yes
- External Visitors : 15
- FDR/CVR Download : Yes
- Metallurgy Analysis : No
- Aerial Photography : Yes
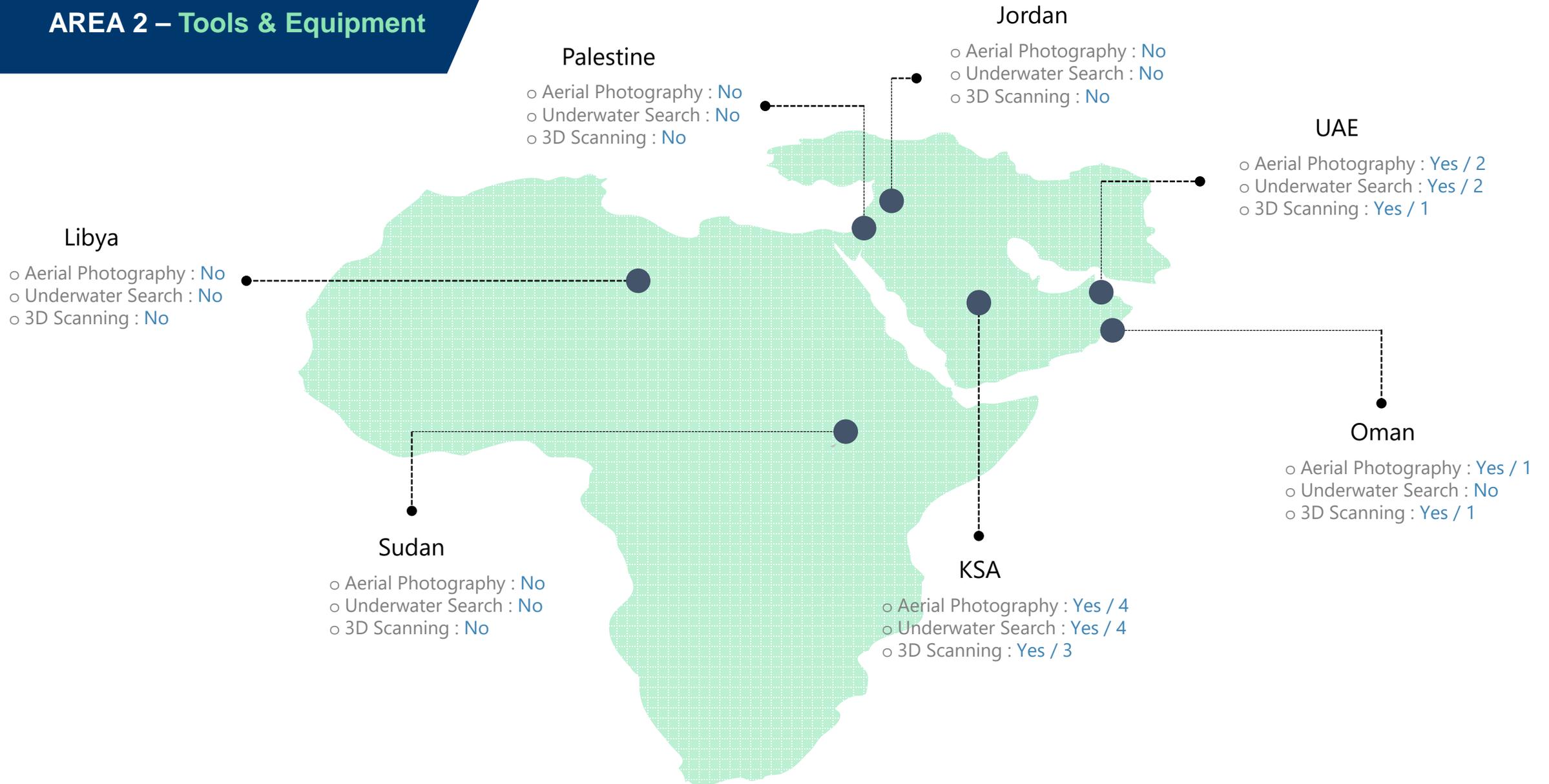- Recommendation Procedure : Yes
- Provide OJT : Yes

AREA 1 – Investigation Expertise

Palestine
- o Number of Experts : 1
  - Air Navigation Services

Jordan
- o Number of Experts : 1
  - Airworthiness

UAE
- o Number of Experts : 7
  - Operation
  - Human Factors
  - Airworthiness
  - Safety Management System
  - Flight Recorders

Libya
- o Number of Experts : 1
  - Airworthiness

Oman
- o Number of Experts : 1
  - Air Navigation Services

Sudan
- o Number of Experts : 6
  - Operation
  - Air Navigation Services
  - Airworthiness
  - Personnel Licensing

KSA
- o Number of Experts : 8
  - Operation
  - Air Navigation Services
  - Airworthiness
  - Cabin & Survivability
  - Flight Recorders
  - Aircraft Structure

Jordan
- Aerial Photography : No
- Underwater Search : No
- 3D Scanning : No

Palestine
- Aerial Photography : No
- Underwater Search : No
- 3D Scanning : No

UAE
- Aerial Photography : Yes / 2
- Underwater Search : Yes / 2
- 3D Scanning : Yes / 1

Libya
- Aerial Photography : No
- Underwater Search : No
- 3D Scanning : No

Oman
- Aerial Photography : Yes / 1
- Underwater Search : No
- 3D Scanning : Yes / 1

Sudan
- Aerial Photography : No
- Underwater Search : No
- 3D Scanning : No

KSA
- Aerial Photography : Yes / 4
- Underwater Search : Yes / 4
- 3D Scanning : Yes / 3

AREA 3 – Investigation Reports

Palestine
- Issued investigation reports: No
- No. of reports (Annually): 0
- Writing procedure: No
- Analyzing procedure: No
- Reviewing Procedure : No

Jordan
- Issued investigation reports: Yes
- No. of reports (Annually) : 4
- Writing procedure: No
- Analyzing procedure: No
- Reviewing Procedure : No

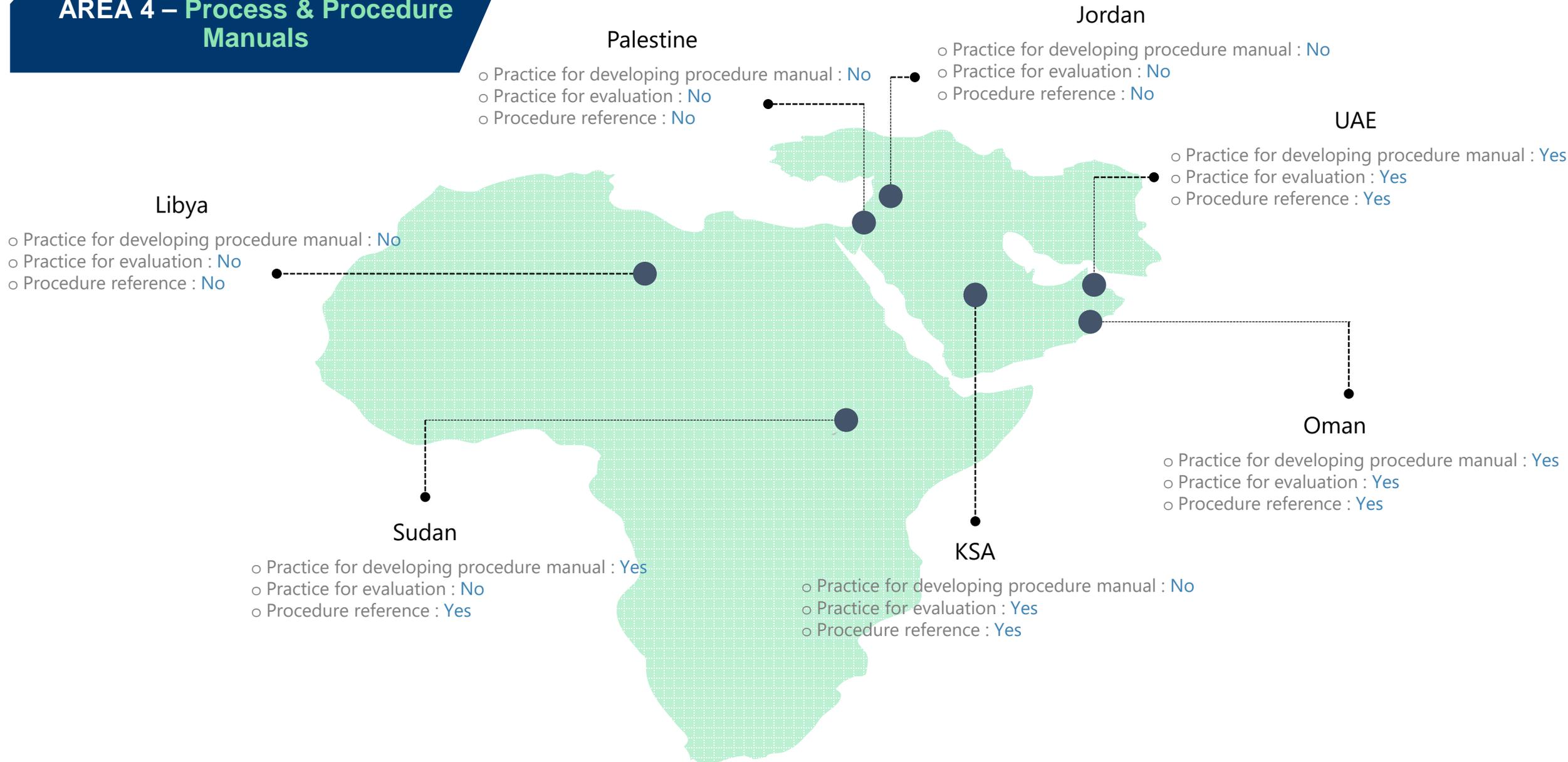**UAE**
- Issued investigation reports: Yes
- No. of reports (Annually): 15
- Writing procedure: Yes
- Analyzing procedure: Yes
- Reviewing Procedure : Yes

Libya
- Issued investigation reports: No
- No. of reports (Annually) : 0
- Writing procedure: No
- Analyzing procedure: No
- Reviewing Procedure : No

Oman
- Issued investigation reports: No
- No. of reports (Annually) : 0
- Writing procedure: Yes
- Analyzing procedure: Yes
- Reviewing Procedure : Yes

Sudan
- Issued investigation reports: Yes
- No. of reports (Annually) : 1
- Writing procedure: Yes
- Analyzing procedure: No
- Reviewing Procedure : No

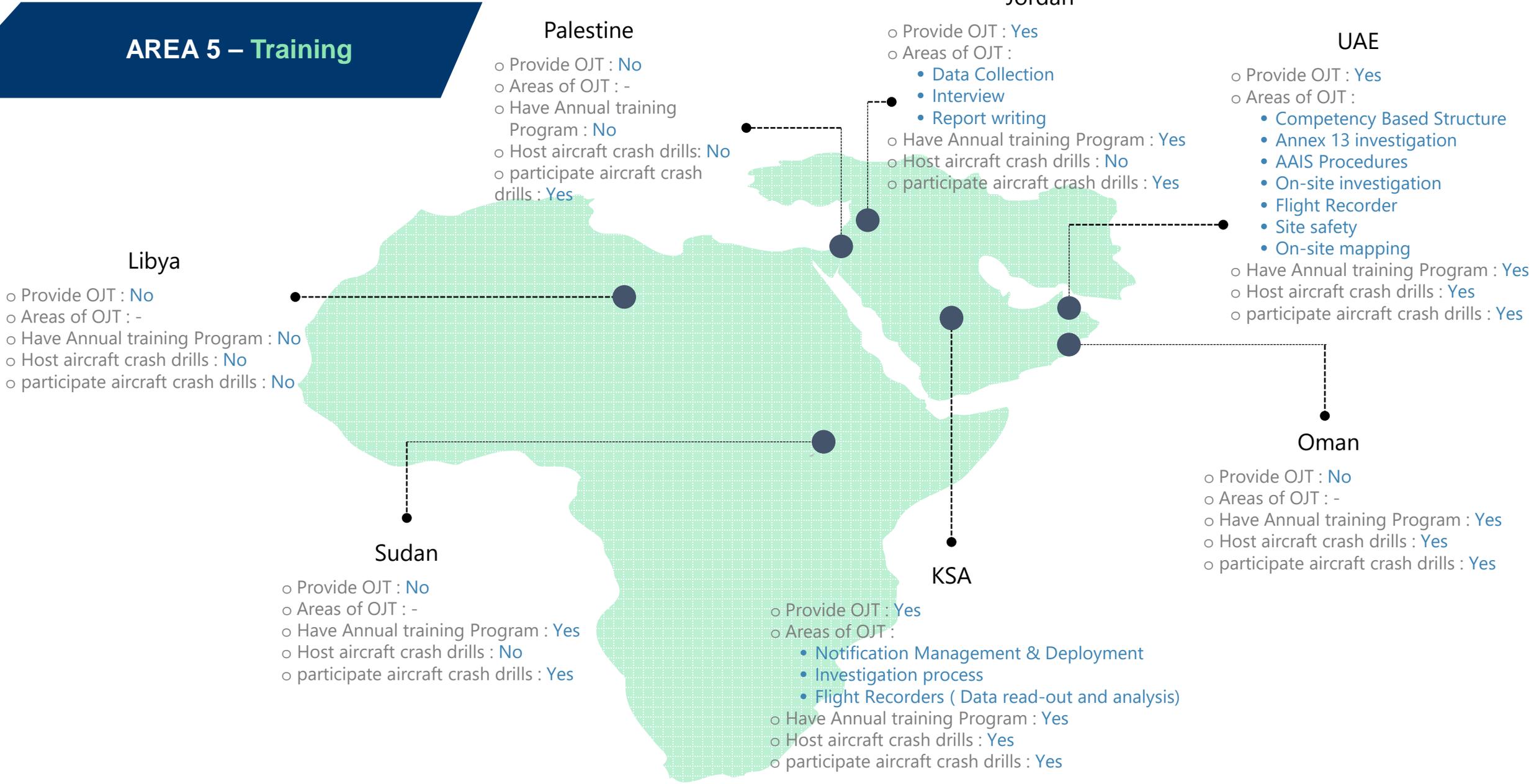**KSA**
- Issued investigation reports: Yes
- No. of reports (Annually) : 12
- Writing procedure: Yes
- Analyzing procedure: Yes
- Reviewing Procedure : Yes

Palestine
- Practice for developing procedure manual : No
- Practice for evaluation : No
- Procedure reference : No

Jordan
- Practice for developing procedure manual : No
- Practice for evaluation : No
- Procedure reference : No

UAE
- Practice for developing procedure manual : Yes
- Practice for evaluation : Yes
- Procedure reference : Yes

Libya
- Practice for developing procedure manual : No
- Practice for evaluation : No
- Procedure reference : No

Sudan
- Practice for developing procedure manual : Yes
- Practice for evaluation : No
- Procedure reference : Yes

KSA
- Practice for developing procedure manual : No
- Practice for evaluation : Yes
- Procedure reference : Yes

Oman
- Practice for developing procedure manual : Yes
- Practice for evaluation : Yes
- Procedure reference : Yes

AREA 5 – Training

Palestine
- Provide OJT : No
- Areas of OJT : -
- Have Annual training Program : No
- Host aircraft crash drills: No
- participate aircraft crash drills : Yes

Jordan
- Provide OJT : Yes
- Areas of OJT :
  - Data Collection
  - Interview
  - Report writing
- Have Annual training Program : Yes
- Host aircraft crash drills : No
- participate aircraft crash drills : Yes

UAE
- Provide OJT : Yes
- Areas of OJT :
  - Competency Based Structure
  - Annex 13 investigation
  - AAIS Procedures
  - On-site investigation
  - Flight Recorder
  - Site safety
  - On-site mapping
- Have Annual training Program : Yes
- Host aircraft crash drills : Yes
- participate aircraft crash drills : Yes

Libya
- Provide OJT : No
- Areas of OJT : -
- Have Annual training Program : No
- Host aircraft crash drills : No
- participate aircraft crash drills : No

Oman
- Provide OJT : No
- Areas of OJT : -
- Have Annual training Program : Yes
- Host aircraft crash drills : Yes
- participate aircraft crash drills : Yes

Sudan
- Provide OJT : No
- Areas of OJT : -
- Have Annual training Program : Yes
- Host aircraft crash drills : No
- participate aircraft crash drills : Yes

KSA
- Provide OJT : Yes
- Areas of OJT :
  - Notification Management & Deployment
  - Investigation process
  - Flight Recorders (Data read-out and analysis)
- Have Annual training Program : Yes
- Host aircraft crash drills : Yes
- participate aircraft crash drills : Yes

AREA 6 – Engineering Lab

Palestine
- o FDR\CVR download : No
- o Animation software : No
- o Material Analysis : No

Jordan
- o FDR\CVR download : No
- o Animation software : No
- o Material Analysis : No

UAE
- o FDR\CVR download : Yes
- o Animation software : Yes
- o Material Analysis : No

Libya
- o FDR\CVR download : No
- o Animation software : No
- o Material Analysis : No

Sudan
- o FDR\CVR download : No
- o Animation software : No
- o Material Analysis : No

KSA
- o FDR\CVR download : Yes
- o Animation software : Yes
- o Material Analysis : No

Oman
- o FDR\CVR download : No
- o Animation software : No
- o Material Analysis : No
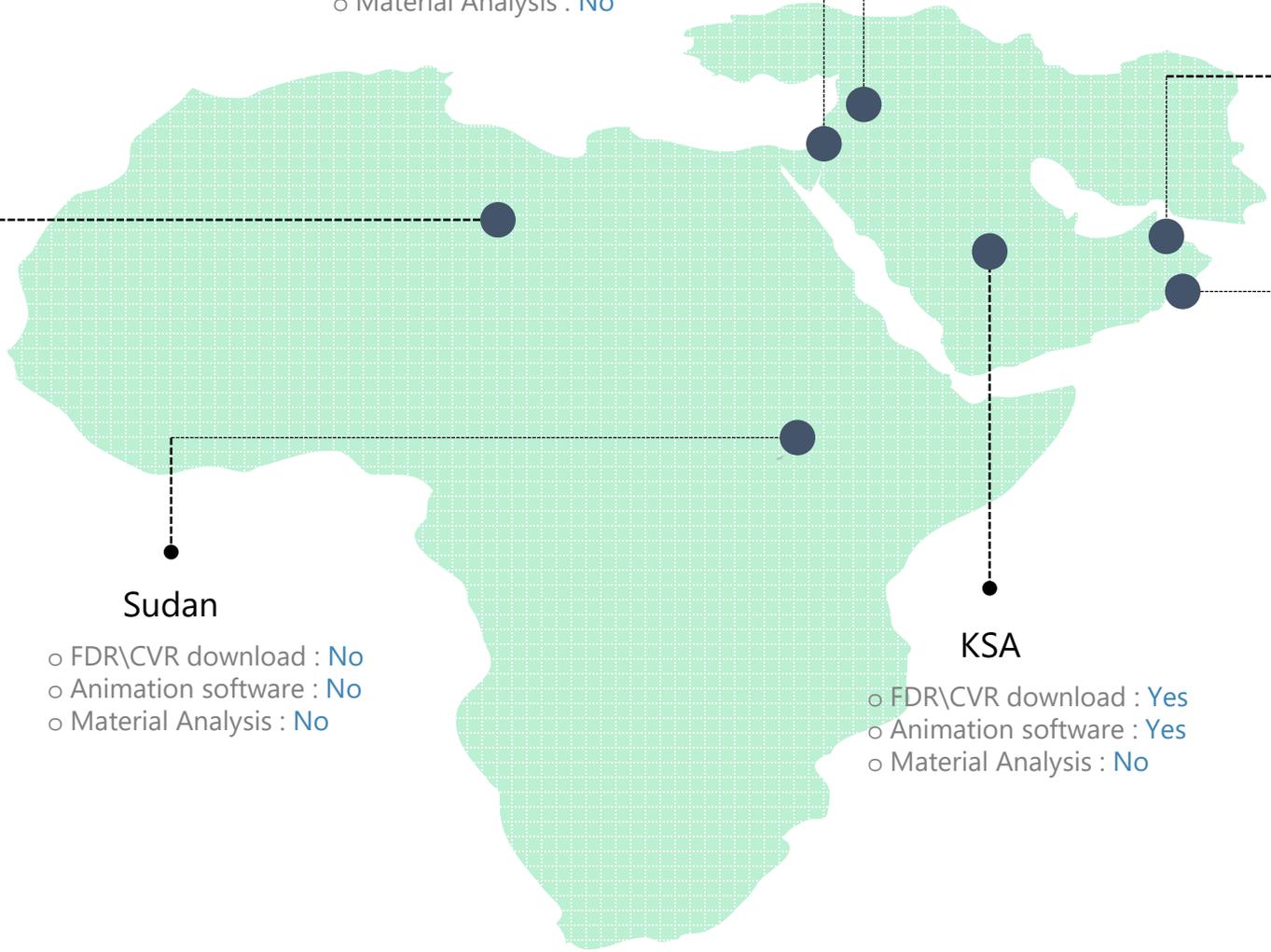
AREA 7 – Delegation \ Assistance of investigation

Palestine
- External visitors : No
- Examination area : No
- Wreckage area : No

Jordan
- External visitors : 2
- Examination area : Yes
- Wreckage area : No

UAE
- External visitors : 5
- Examination area : Yes
- Wreckage area : Yes

Libya
- External visitors : No
- Examination area : No
- Wreckage area : No

Oman
- External visitors : 2
- Examination area : Yes
- Wreckage area : Yes

Sudan
- External visitors : 3
- Examination area : No
- Wreckage area : No

KSA
- External visitors : 15
- Examination area : Yes
- Wreckage area : Yes

AREA 8 – Safety Recommendation

Palestine
o Issued safety recommendation : No
o Published recommendation : -
o Mechanism to issue safety recommendation : No
o Technical categories of safety recommendations : No
o (Non – technical) categories : No
o Recommendation follow-up procedure : No

Jordan
o Issued safety recommendation : Yes
o Published recommendation : -
o Mechanism to issue safety recommendation : Yes
o Technical categories of safety recommendations : No
o (Non – technical) categories : No
o Recommendation follow-up procedure : Yes

UAE
o Issued safety recommendation : Yes
o Published recommendation (since 2007): 1150
o Mechanism to issue safety recommendation : Yes
o Technical categories of safety recommendations : No
o (Non – technical) categories : No
o Recommendation follow-up procedure : Yes

Libya
o Issued safety recommendation : No
o Published recommendation : -
o Mechanism to issue safety recommendation : -
o Technical categories of safety recommendations : No
o (Non – technical) categories : No
o Recommendation follow-up procedure : No

Sudan
o Issued safety recommendation : Yes
o Published recommendation : -
o Mechanism to issue safety recommendation : No
o Technical categories of safety recommendations : No
o (Non – technical) categories : No
o Recommendation follow-up procedure : No

KSA
o Issued safety recommendation : Yes
o Published recommendation (since 2013) : 370
o Mechanism to issue safety recommendation : Yes
o Technical categories of safety recommendations : No
o (Non – technical) categories : Yes
o Recommendation follow-up procedure : Yes

Oman
o Issued safety recommendation : Yes
o Published recommendation : 4
o Mechanism to issue safety recommendation : Yes
o Technical categories of safety recommendations : No
o (Non – technical) categories : No
o Recommendation follow-up procedure : Yes
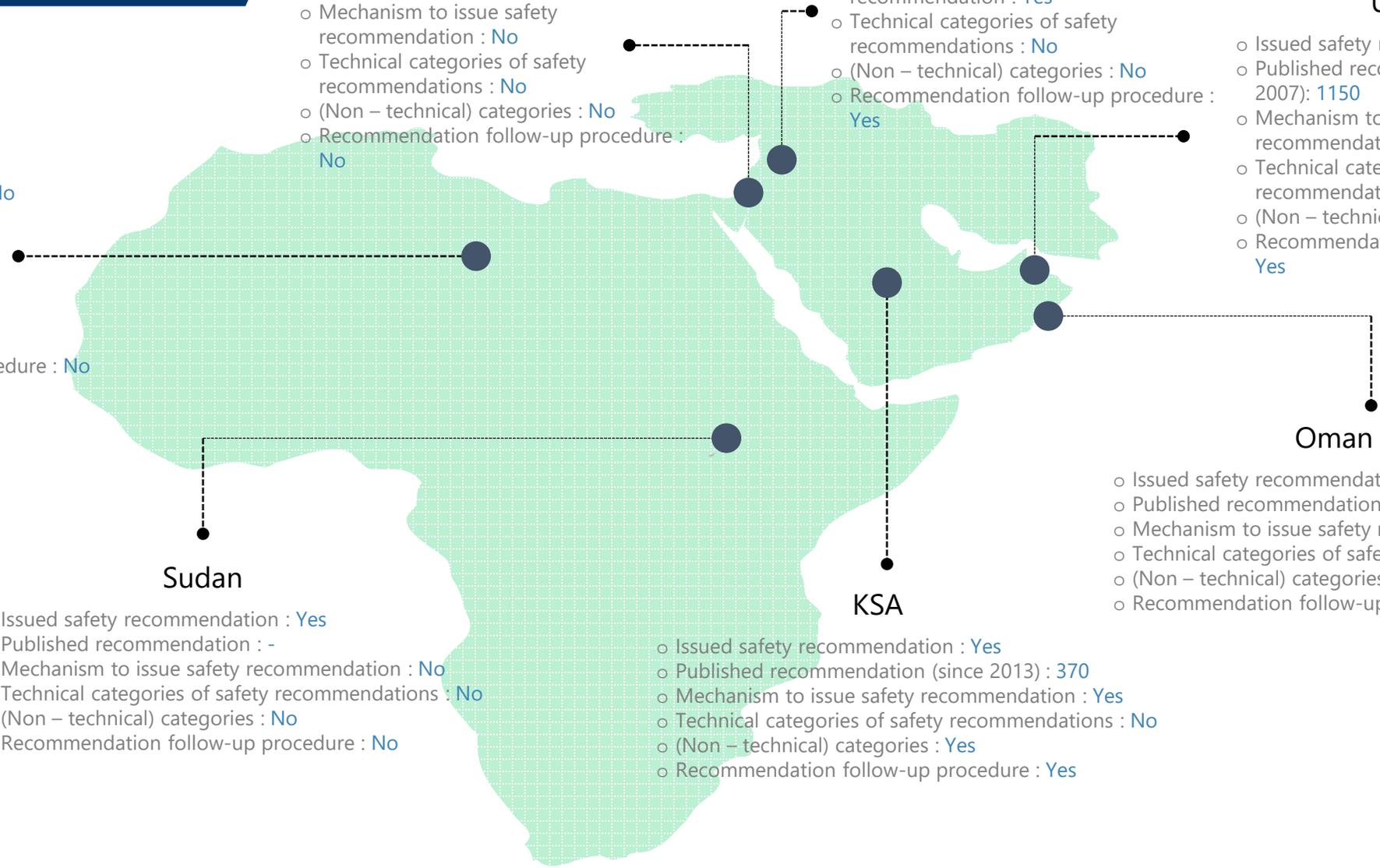
4. Team Recommendation

Function

- View & provide up-to-date data
  - Apply for assistance request
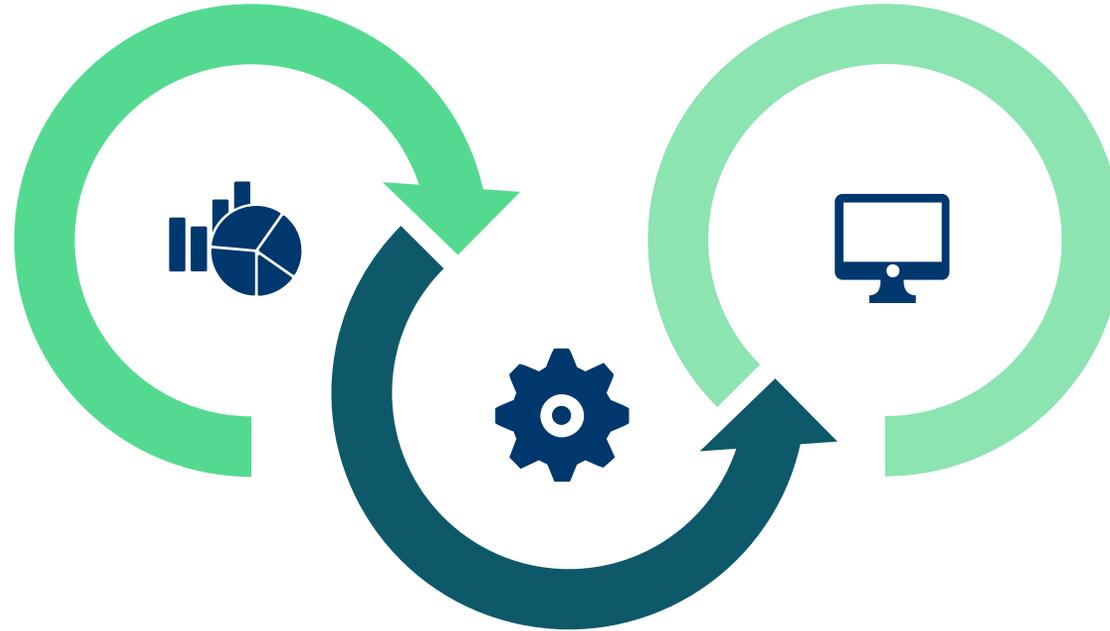
Tool

Online Platform

Features & Characteristics

- Accessible
- Secured and flexible
- History log
- 1 controller, 1 admin member for each state
- Periodic update (Monthly, quarterly, biannually)
- General view for other states

MENA ARCM DATABASE

Committee Meeting

September 12 , 2022

OUTLINE

1 **State Members**

2 **Action Plan**

1. STATE MEMBERS

STATE MEMBERS					
State	Contact	Email	Phone	Data	MoU Signature
Sudan	Mr. Abdelwahid Elhag	Abdelwahid.aai@scaa.gov.sd	+249 123499406	Yes	Signed
UAE	Ms. Aysha Al Hamili	Ahamili@gcaa.gov.ae	+971 565333390	Yes	Signed
Palestine	Mr. Mohammed Ammous	Ammous1966@gmail.com	+970 593942953	Yes	Signed
Saudi Arabia	Mr. Albara'a Naser	Anaser@aib.gov.sa	+966 504332416	Yes	Signed
Jordan	Dr. Abdallah Al Samarat	investigation@carc.gov.jo	+962 772208400	Yes	Signed
Oman	Mrs. Ziyana Alsaid	Zayana.alsaeed@mtcit.gov.om	+968 99840014	Yes	Signed
Libya	Mr. Waled Hammam	waled.hammam@caa.gov.ly	+218 926533780	Yes	Signed
Djibouti	Mr. Hassan Elmi	hassanelmibea@hotmail.com	+253 77526069	Yes	Signed
Morocco	Mr. Mbarek Ifakir	m.lfakir@aviationcivile.gov.ma	+212 664697644	No	Signed
Iran	Mohammed Sajad	m-sajad@cao.ir		No	Signed
Iraq				No	Signed
Kuwait				No	Signed
Mauritania				No	Signed
Yemen				No	Signed

2. Action Plan

- Re-Invite state members
- Benchmark
- Develop Process & Procedure
- Define parameters
- Agree NDA
- Launching Plan

OUTCOME OF THE 2ND MENA ARCM MEETING

September 13 , 2022

OUTLINE

1 ADOPTION & ELECTION

2 DEVELOPMENT OF DATABASE PLATFORM

3 DATABASE PLATFORM MANAGEMENT

4 TECHNICAL ASSISTANCE MECHANISM

5 PLATFORM FOR SHARING RECOMMENDATIONS

6 FUTURE WORK PROGRAMME

1. Adoption of the provisional agenda and election of MENA ARCM Coordinator

The subject was addressed in WP/1 presented by the secretariat

❑ The meeting reviewed and adopted the provisional Agenda

❑ Eng. Albaraa (Director of Engineering Lab), Accident Investigation Bureau, KSA was unanimously elected as the Coordinator for the MENA ARCM.

2. Development of the MENA ARCM database Platform

The Subject was addressed in <u>PPT 1</u>, the meeting was apprised with appreciation of the work achieved by the MENA ARCM Database Team presented by the MENA ARCM coordinator

❑ The meeting noted that Questionnaire on the database was circulated to the MENA ARCM member States. It is also noted that 7 States (Jordan, Libya, Palestine, Oman, Saudi Arabia, Soudan and UAE) only replied to the Questionnaire and provided the data.

❑ In addition, the meeting urged the remaining States to provide their replies to the coordinator as soon as possible within 15 days.

❑ The meeting noted with appreciation the action plan (working program) for the next 6 months, presented by the coordinator.

❑ Accordingly, the meeting agreed on the developed database using initially the excel sheet. In addition, the meeting agreed to explore other option for the development of the platform.

3. MENA ARCM database Platform Management

The Subject was addressed in <u>WP/4</u>

❑ The meeting agreed on the followings:

✓ ICAO will host the database supported by ACAO.

✓ MENA ARCM coordinator to collect the data from the MENA ARCM member States in coordination with the assigned State Focal Point.

✓ The coordinator to share the received / updated data with ICAO and ACAO.

✓ ICAO and ACAO to circulate the received / updated Data among MENA ARCM member States.

✓ The frequency of reporting / updating data to be biannually and as needed.

✓ The coordinator to clearly define the area of cooperation / parameters.

✓ The coordinator to collect the unscheduled trainings and be provided to ACAO and ICAO, so that to be circulated to the MENA ARCM member States.

4. MENA ARCM technical Assistance Mechanism

The Subject was addressed in <u>WP/5</u>

❑ The meeting noted with appreciation the proposal presented by UAE. The meeting agreed and tasked the MENA ARCM coordinator in coordination with the assigned focal points on the followings:

✓ To review and study the UAE proposal in order to come out with the draft form, processes and procedures.

✓ To develop KPI, so that to measure the MENA ARCM's performance (assistance mechanism)

✓ To develop the non-disclosure agreement.

5. Questionnaire on Establishing a Platform for Sharing Safety Recommendations Analysis

The subject was addressed in WP/3

❑ The meeting noted with appreciation the analysis of the questionnaire presented by the secretariat.

❑ The meeting recognized the importance of establishing a platform on sharing safety recommendations. However, at this initial stage of developing database, the meeting agreed to postponed the discussion on the establishment of the platform for the 4th MENA ARCM meeting.

6. Future work program

The subject was addressed in <u>WP/6</u>

❑ The meeting agreed that the 3rd MENA ARCM meeting to be tentatively held virtually on the Q1 2023. The exact date of the meeting will be coordinated with the Chairperson.

❑ The meeting agreed that the 4th MENA ARCM meeting to be held on the 18th September 2023 back-to-back with AIIG/3 (19 – 21 Sep 2023). Morocco offered to host both meetings.