



EGYPT

AGA/AOP PRIORITIES & CHALLENGES

Third Meeting of the Aerodromes Safety, Planning and Implementation Group

ASPIG/3 Meeting (25-27 October 2021)

Presented by:

Egyptian civil aviation authority

Cairo airport company

Egyptian airport company





- Aerodromes Certification Implementation
 - Before Aerodrome Certification
 - After Aerodrome Certification
- Runway safety teams Implementation.
- Global reporting format Implementation.
- ACDM Implementation.
- Air Navigation Deficiencies AOP Area MANDD (https://mandd.icao.int)
)satisfaction.
- State's Needs on capacity building.

TABLE OF CONTENT







ECAA

Challenges& Priorities Before Aerodrome Certification



Before Aerodrome Certification:

Priorities

 The Airport operators need to comply with the relevant ICAO SARPs and applicable national regulations

Challenges

- Many of Non-compliances was found such as runway strips, Runway end safety areas, Taxiway, signs, Markings, old Markings etc.
- Non-compliance exists due to :
 - Lack of training
 - Insufficient maintenance programs

Aerodromes Certification Implementation (CAIRO AIRPORT)







- Training done for all participants from the Operations and Engineering and safety sectors
- identify and register non-conformities
- Corrective action done (ACTION PLAN) within an acceptable timeframe









Challenges & Priorities After Aerodrome Certification





Priorities

 The Airport operators need to Maintaining and renewing the certification



Challenges

Obstacles

 Using cranes for New building or redevelop a structure near the airport





Challenges

Obstacles

- Ex. Construction of a underground station in the final area of the RWY 23R threshold
- 1- Operational restrictions for RWY 05L/23R

Cairo INTL AP (HECA)

Till 2109010800EST, RWY 05L CLSD. RWY 23R used for DEP only.





Challenges

Obstacles

- 2- Increase movements on the other RWYs
- 3- Inability to implement runway maintenance programs in its time









Challenges

Obstcales

4- Rubber accumulating on the runway 05C threshold

Cairo INTL AP (HECA)

Till 2109150800EST, THR RWY 05C may be slippery when wet, TFC to FLW TWR instsuctions.





- Maintain the Training Capacity, and sufficient human resources
- Maintain the maintenance of the infrastructure and equipment
- COVID 19 Vs Funds are very limited; High Costs & Limited Airports Resources
- Infrastructure deficiencies; Annual budgetary system for maintaining and sustaining aerodrome facilities
- Work on progress during operation
- Lack of provision of adequate funding in addressing and resolving issues of deficiencies arising from the inspections and audits of the aerodromes







Runway safety teams Implementation (Cairo international airport)







Cairo International Airport

- CAC RST was Established in September 2015.
- CAC RST comprises Representatives from :-
 - Airport Authority.
 - Pertinent Stakeholders .





- CAC Runway Safety Team Aims At :
- Improving Runway Safety Data Collection, Analysis and Dissemination;
- Maintaining Signage and Markings are ECARs-Compliant and Visible to Pilots and Airside Drivers.





- CAC Runway Safety Team Aims At: cont.
- Ensuring that Runways Operation Procedures are Compliant with ECARs Standards;
- Analyzing & Evaluating any Accidents / Incidents related to Runway operations
 Incursions Excursions Wildlife Laser... etc.) and propose corrective actions and pertinent defenses.





Priorities

- Policy Of CAC RST
- Transparency .
- Non Punitive Principal .
- Team Working .
- Information Sharing .

Challenges

- Building and Maintaining a common understanding approach among RST members .
- Maintaining formal and voluntary reporting channels among the involved entities.
- Maintaining meeting frequency during the prevailing global health problems .







Runway safety teams Implementation in Other international Airports













- Safety awareness is implemented Periodically.
- Coordination between all services providers SMS.
- Continued promotion of the establishment of RSTs at each airport
- Establishing effective reporting systems, for sharing information of hazards
- Exchanging information and best practices
- Establish a system to allow a free flow of feedback from line pilots







- Coordination: Lots of different organizations to coordinate.
- Workload: All organizations are busy.
- Frequent changes to the composition of the team;
- Challenges with effective documentation of safety information;
- Team building challenges





Global reporting format Implementation





Priorities

- ► Training for aerodrome stakeholders was conducted via ICAO/ACI training online
- ► Initial implementation plan has been developed.
- ► Coordination with airport runway safety team.

Challenges

- ► Implementation by multiple stakeholders.
- ► Simple concept but complex implementation.
- Assessment of a change human brain is not always trust worth.
- ► Time needed to perform measures
- Interfering with operations on active RWY
- ► Resourcing is a real issue: finding enough skilled personnel.







Cairo international airport



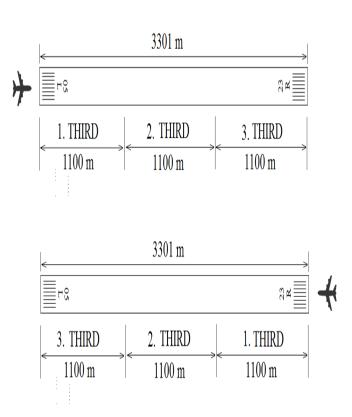
GLOBAL REPORTING FORMAT IMPLEMENTATION





Priorities

- Initial training of for the airport's operations and engineering sector trainers was conducted online
- An implementation plan has been developed
- Coordination with the runway safety team
- On-the-Job Training (OJT) for all implementation participants from the Operations and Engineering sector



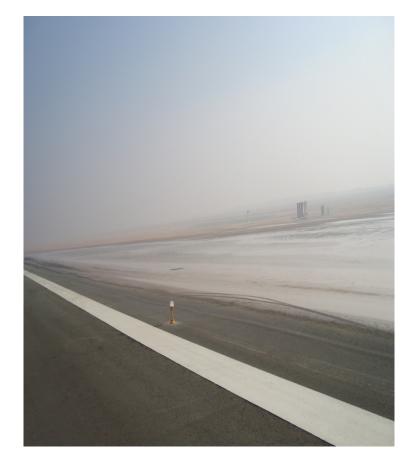
Global reporting format Implementation





Challenges

- AIS does-not have a Snow tam system until now
- Due to the good weather and the lack of rain throughout the year at Cairo Airport, the global reporting format will be activated within a few days of each year in the winter season Which requires retraining (OJT) for all implementers to remind them of all procedure annually before winter



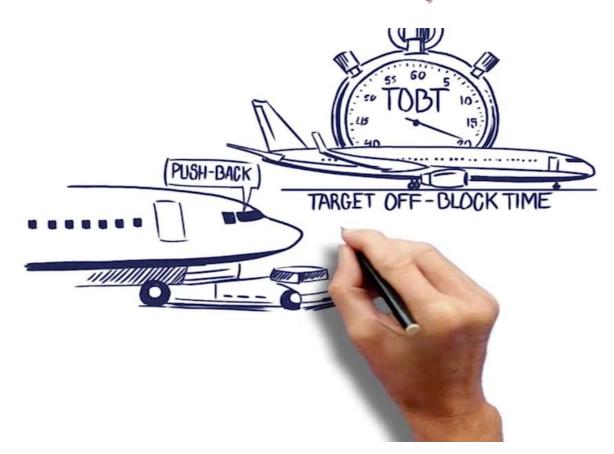
Global reporting format Implementation





ACDM Implementation

(CAIRO INTERNATIONAL AIRPORT)





Priorities

- Cairo International Airport has developed an Airport Collaborative Decision Making (A- CDM) group, which include (Airport operator, Airline operators, Ground Handlers, Air Navigation Service Provider, Network operations, ARFF, Terminal operator etc.) to implement the project at Cairo Airport, Egypt
- We sharing information about 13 Milestones from 16 Milestones (based on the Eurocontrol model)





- the performance of Air Navigation Services (ANS) in 7 Egyptian International Airports (HECA, HESH, HEGN, HELX, HESN, HEBA and HEMA) for two months (June and July 2021) for four key performance indicators.
- 1- KPI 01 Departure Punctuality
- 2- KPI 02 Taxi-out Additional Time
- 3- KPI 13 Taxi-in Additional Time
- 4- KPI 14 Arrival Punctuality







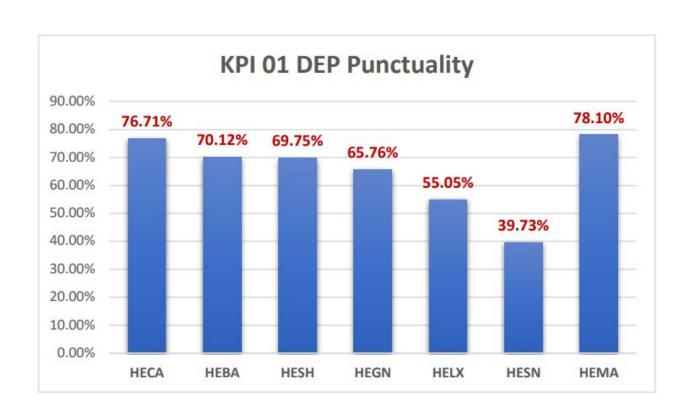
Eurocontrol Milestones	Applied
Milestone 1 - ATC Flight Plan Activated	√ √
Milestone 2 - CTOT Allocation/EOBT – 2 Hrs	
Milestone 3 - Take off from Outstation	
Milestone 4 - Local Radar Update/FIR Entry	
Milestone 5 - Final Approach	$\sqrt{}$
Milestone 6 - Landed	
Milestone 7 - In Block	
Milestone 8 - Aircraft at Gate	$\sqrt{}$
Milestone 9 - TOBT Entered	
Milestone 10 - TSAT Issued	
Milestone 11 - Boarding Starts	$\sqrt{}$
Milestone 12 - Aircraft Ready	$\sqrt{}$
Milestone 13 - Start-up Request	$\sqrt{}$
Milestone 14 - Start-up Approved	$\sqrt{}$
Milestone 15 - Off Block	$\sqrt{}$
Milestone 16 - Take Off	$\sqrt{}$





KPI 01 Departure Punctuality

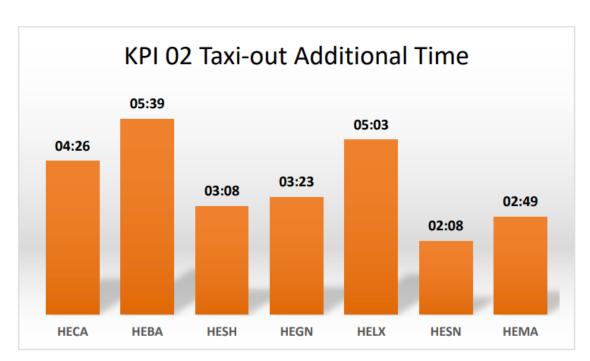
KPI 01	Number of scheduled departing flights	DEP Punctuality
HECA	4011	76.71%
HEBA	415	70.12%
HESH	767	69.75%
HEGN	996	65.76%
HELX	109	55.05%
HESN	73	39.73%
НЕМА	160	78.10%







KPI 02 Taxi-out Additional Time

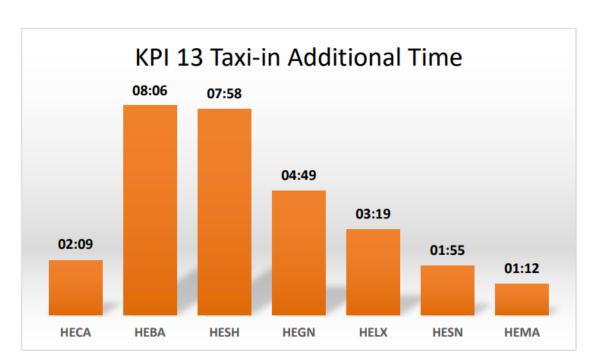


KPI 02	Taxi-out Additional Time
HECA	04:26
HEBA	05:39
HESH	03:08
HEGN	03:23
HELX	05:03
HESN	02:08
HEMA	02:49





KPI 13 Taxi-in Additional Time

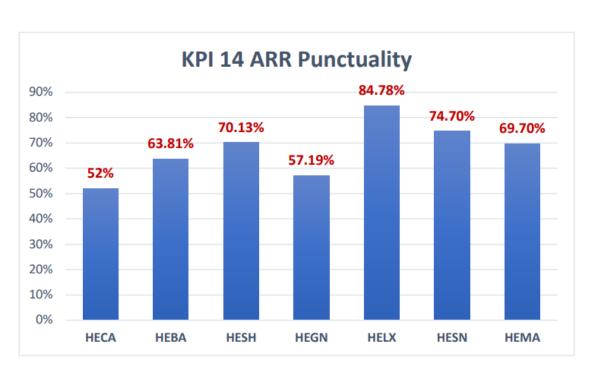


KPI 13	Taxi-in Additional Time	
HECA	02:09	
HEBA	08:06	
HESH	07:58	
HEGN	04:49	
HELX	03:19	
HESN	01:55	
НЕМА	01:12	





KPI 14 Arrival Punctuality



KPI 14	Number of scheduled arriving flights	ARR Punctuality
HECA	4794	52%
HEBA	630	63.81%
HESH	780	70.13%
HEGN	1238	57.19%
HELX	92	84.78%
HESN	83	74.70%
HEMA	243	69.70%



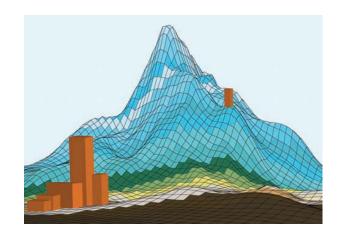




Corrective action to compliance with the requirement of E-TOD and AD mapping

A technical committee was established including all the stakeholders and involved entities and performed the following tasks:

- Evaluating the current implementation status;
- Putting a realistic road map
- Determining the work techniques & implementation mechanisms



Air Navigation Deficiencies AOP – Area MANDD satisfaction

Implement the provision of required obstacle data sets (E-TOD)







Current/future aerodromes expansions/projects





Priorities

- Maintaining operational safety during constructions
- prevent the runway incursion
- Protect OLS; Heavy construction equipment which would infringe Approach and Take-off OLS
- Prevent wildlife attraction
- Implementation of safety measures during construction
- Establish standard vehicle routes to avoid crossing aircraft movement areas
- Provide training for all drivers of vehicles that operate on the aircraft movement area
- Conduct a Risk Identification and Assessment exercise whenever the airport configuration changes

Challenges

- Keep project on schedule during COVID -19 period
- Construction adjacent to the existing operational runway
- Need to tackle the needs in next phase of development
 - Longer time to resolve some infrastructure issues

Current **Development** Projects:

- HEBA New Terminal (Borgalarb airport)
- HESC New RWY(St. Catherine airport)

Current/future aerodromes expansions/projects (EAC)



State's Needs on capacity building





Priorities

- Maintain the USOAP CMA Effective Implementation' (EI) score 84.38%
- Certificate the secondary aerodrome (on request for international operation)
- Implement the E-TOD Requirement

Challenges

FULL implement the GRF (training)

State's Needs on capacity building







Thanks for your attention