

Wildlife & FOD Workshop

24- 26 March 2014
Cairo, Egypt

CAIRO AIRPORT COMPANY *FOD* *MANAGEMENT*

AHMED HELMY
AVIATION SAFETY MANAGER



Cairo International Airport Layout



Aircraft Movements



CAC SAFETY POLICY



Aerodrome FOD Sources



- ☐ **Personnel ;**
- ☐ **Airport Infrastructure ;**
- ☐ **The Weather Conditions ;**
- ☐ **The Environment ;**

Aerodrome FOD Sources

contd



- ☐ **The Vehicles and Equipment
operating on the Airside ;**
- ☐ **Apron Activities ;**
- ☐ **Aircraft Parts & Maintenance
Activities .**



Aerodrome

FOD

Includes :-

■ GSE Parts :

- ❖ wheels
- ❖ Metal parts
- ❖ Rubber parts
- ❖ ...etc



- **Apron Items :**

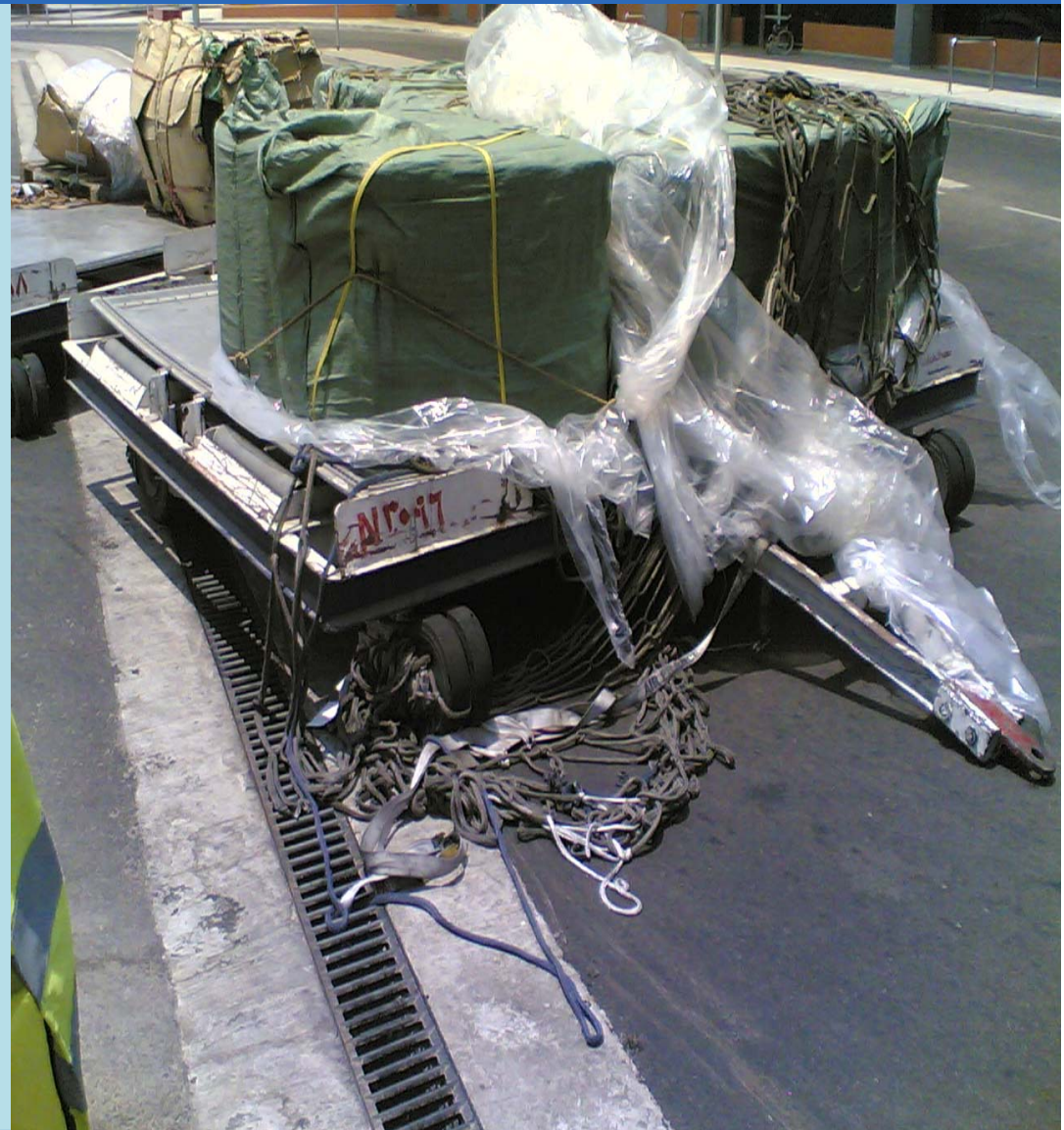
- ❖ paper , glass and plastic debris
mainly from catering activities
- ❖ Luggage & baggage parts
- ❖ ...etc



■ Cargo Activities

Debris :

- ❖ pallets
- ❖ containers
- ❖ wooden materials
- ❖ plastic sheets
- ❖ ...etc



■ Maintenance Materials :

❖ tools

❖ rugs

❖ ...etc



■ ACFT Parts

- ❖ metal parts
- ❖ Rubber parts
- ❖ ...etc





■ Runway and Taxiway Materials :

- ❖ pavements parts
- ❖ rubber joint materials
- ❖ broken signs and lights
- ❖ ...etc



■ Construction Debris :

- ❖ pieces of wood
- ❖ stones
- ❖ metal objects
- ❖ gravels
- ❖ ...etc



■ The Environment :

- ❖ weeds
- ❖ plants
- ❖ wildlife
- ❖ ...etc

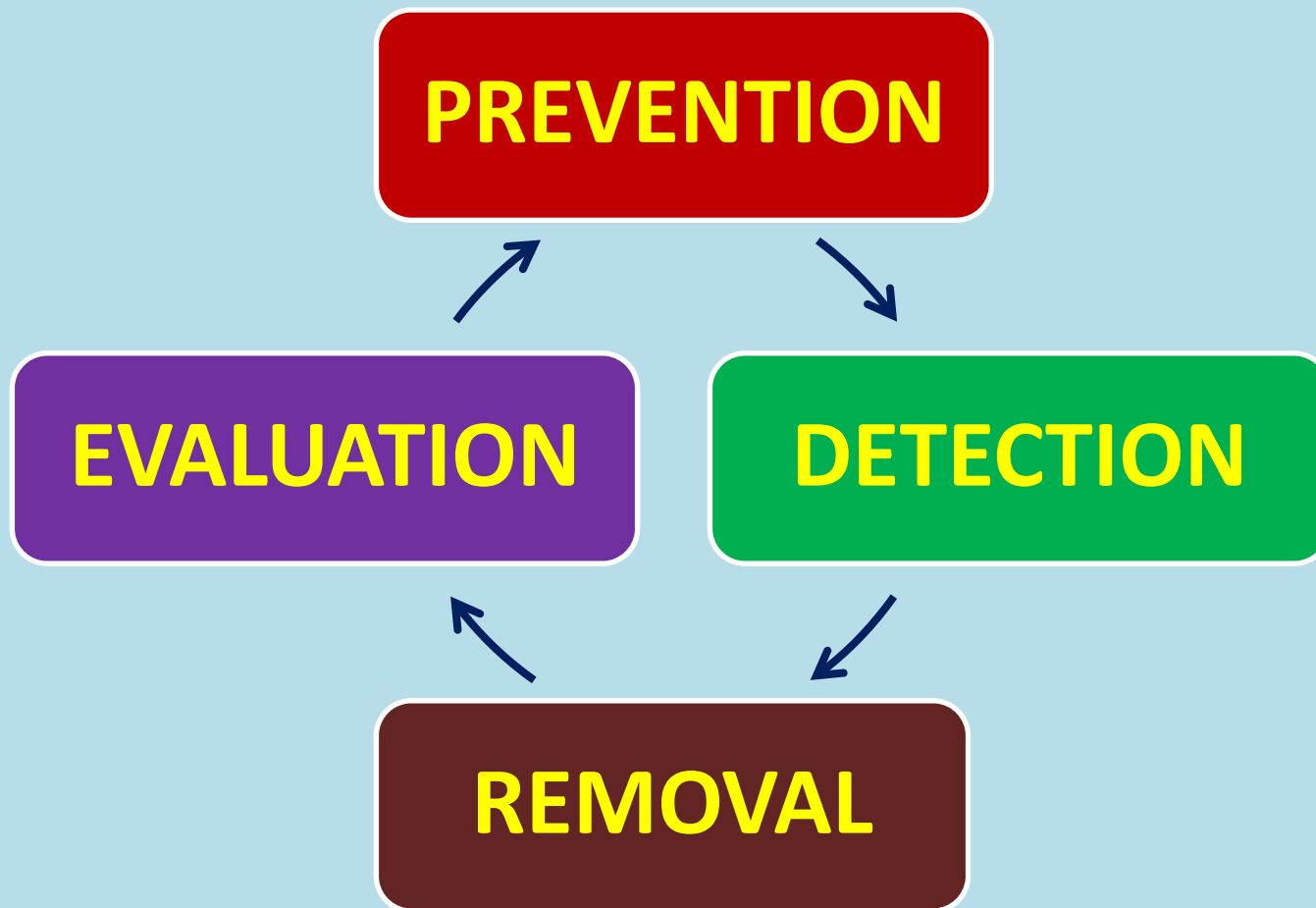


■ The Weather Conditions { wind , rains } :

- ❖ sands
- ❖ standing water
- ❖ mud
- ❖ ...etc

FOD Management Programme

FOD Management Programme Components



1- Prevention Methods



Awareness :-

- ❖ FOD Seminars
- ❖ FOD Bulletins
- ❖ Safety Campaigns
- ❖ Runway Safety Team Committee
- ❖ Ramp Safety Committee



1- Prevention Methods

contd



□ Training :-

❖ Airport Staff

❖ Airside Users



1- Prevention Methods

contd



❑ Construction & WIP Activities Provisions :-

- ❖ Requiring Contractors to Cover all loads ;
- ❖ Requiring Contractors to Secure any loose items that could easily be blown ;
- ❖ Requiring Contractors to Isolate the construction areas ;
- ❖ Requiring Contractors to Clean up the construction areas frequently .

1- Prevention Methods

contd



❑ **Airside Maintenance Programmes :-**

- ❖ **Paved Areas**
- ❖ **Unpaved Areas**
- ❖ **Signage System**
- ❖ **Lighting System**



1- Prevention Methods

contd



Violation Penalties :-



Personnel



Entities



2- Detection Methods



☐ Daily Inspection Programmes :-

- ❖ Runways
- ❖ Taxiways
- ❖ Aircraft Stands
- ❖ Service Roads
- ❖ Cargo Area
- ❖ Unpaved Areas
- ❖ Construction & WIP Areas



3- Removal Methods



❑ Mechanical Cleaning :-

- ❖ Sweepers provided with Magnetic Bars

(6 units + 3 new units by April.2014)

- ❖ Sweepers (2 units)

- ❖ FOD Disposal Trucks (9 units)



Sweeper



Sweeper with
Magnetic Bar



Sweeper with
Magnetic Bar



FOD Disposal Truck

3- Removal Methods

contd

❑ Manual Cleaning :-

- ❖ Manpower Picking – Up Walking Patrols
- ❖ Manpower Teams for cutting weeds & plants in the RWYs & TWYs Strip Areas



4- EVALUATION METHODS

- ❖ Review the effectiveness of existing FOD-Management Procedures from daily Monitoring Reports and Self Audits ;



4- Evaluation Methods

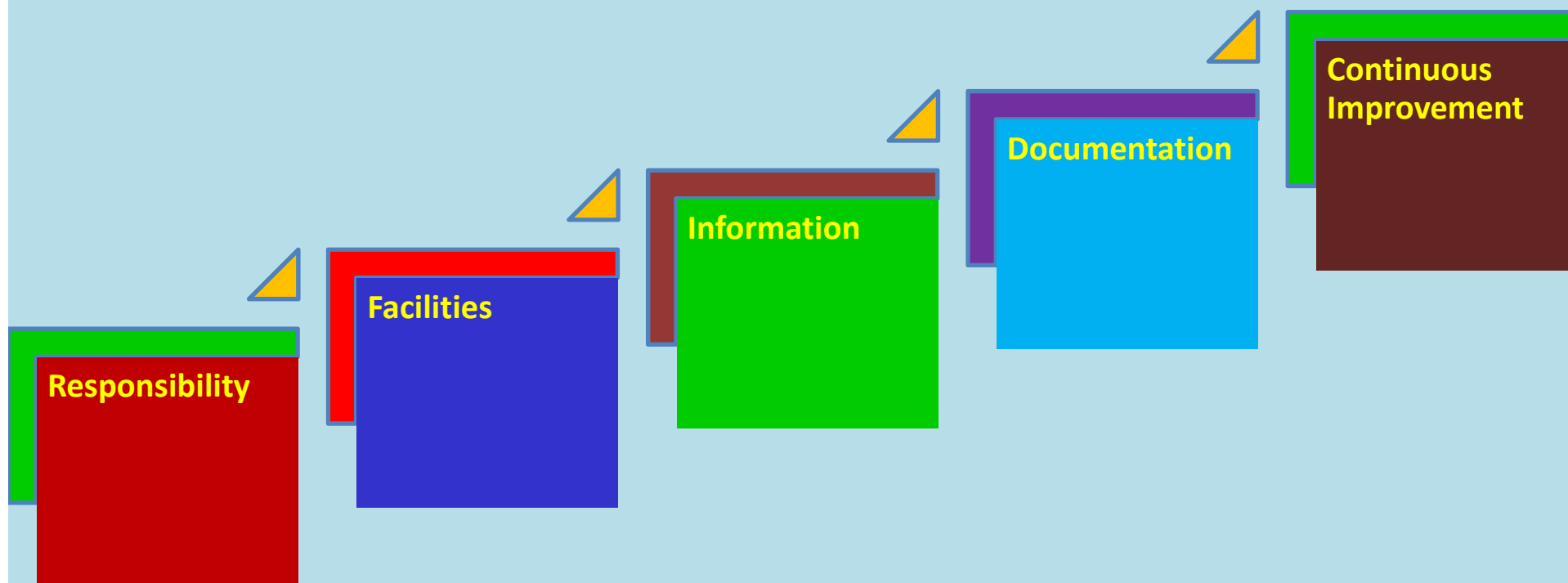
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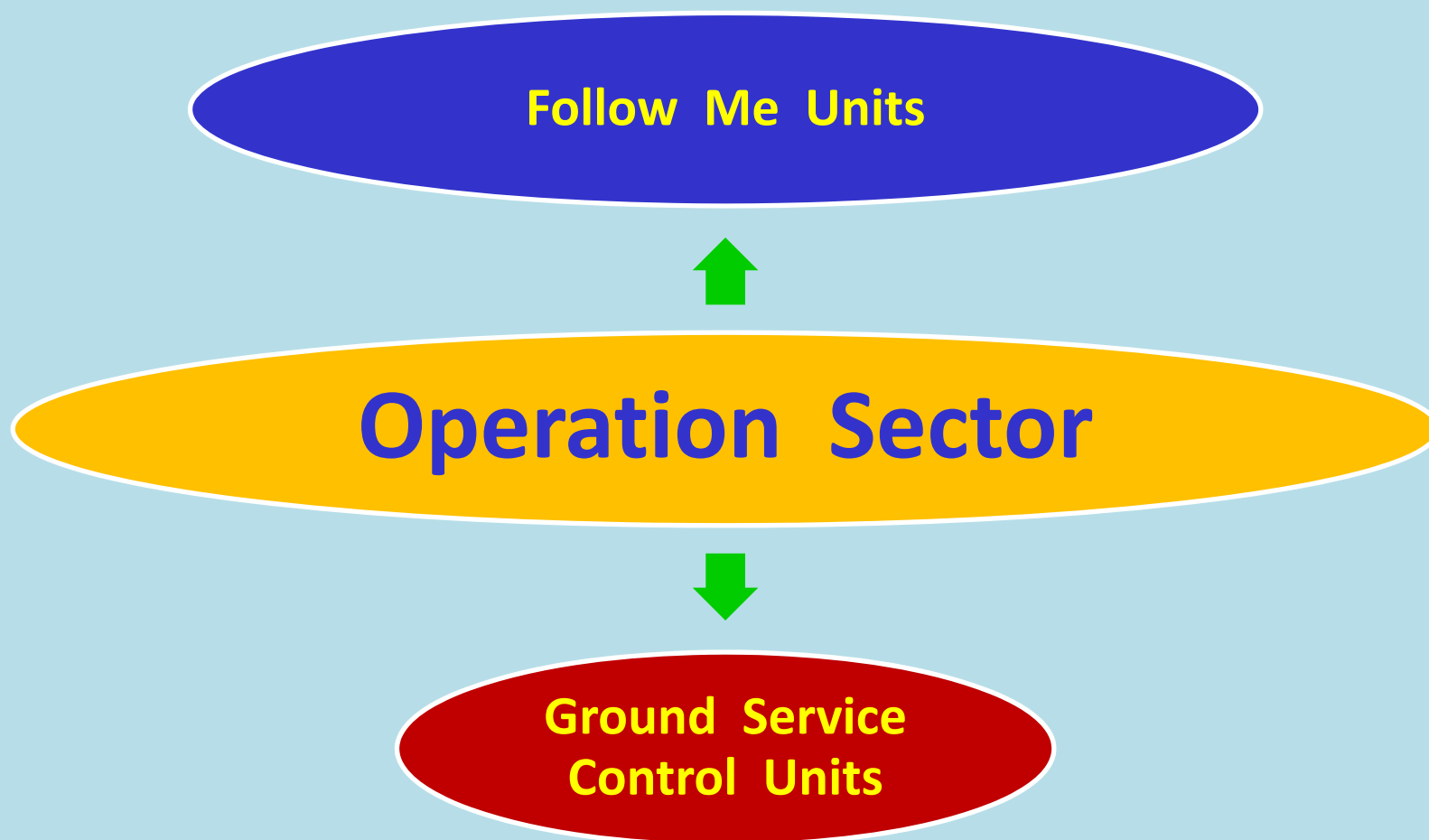
- ❖ **Verify that the Aerodrome is meeting identified performance indicators and targets ;**
- ❖ **Communicate findings to staff and implement corrective procedures and mitigation strategies ;**



FOD Management Programme Substrates



1- Responsibility



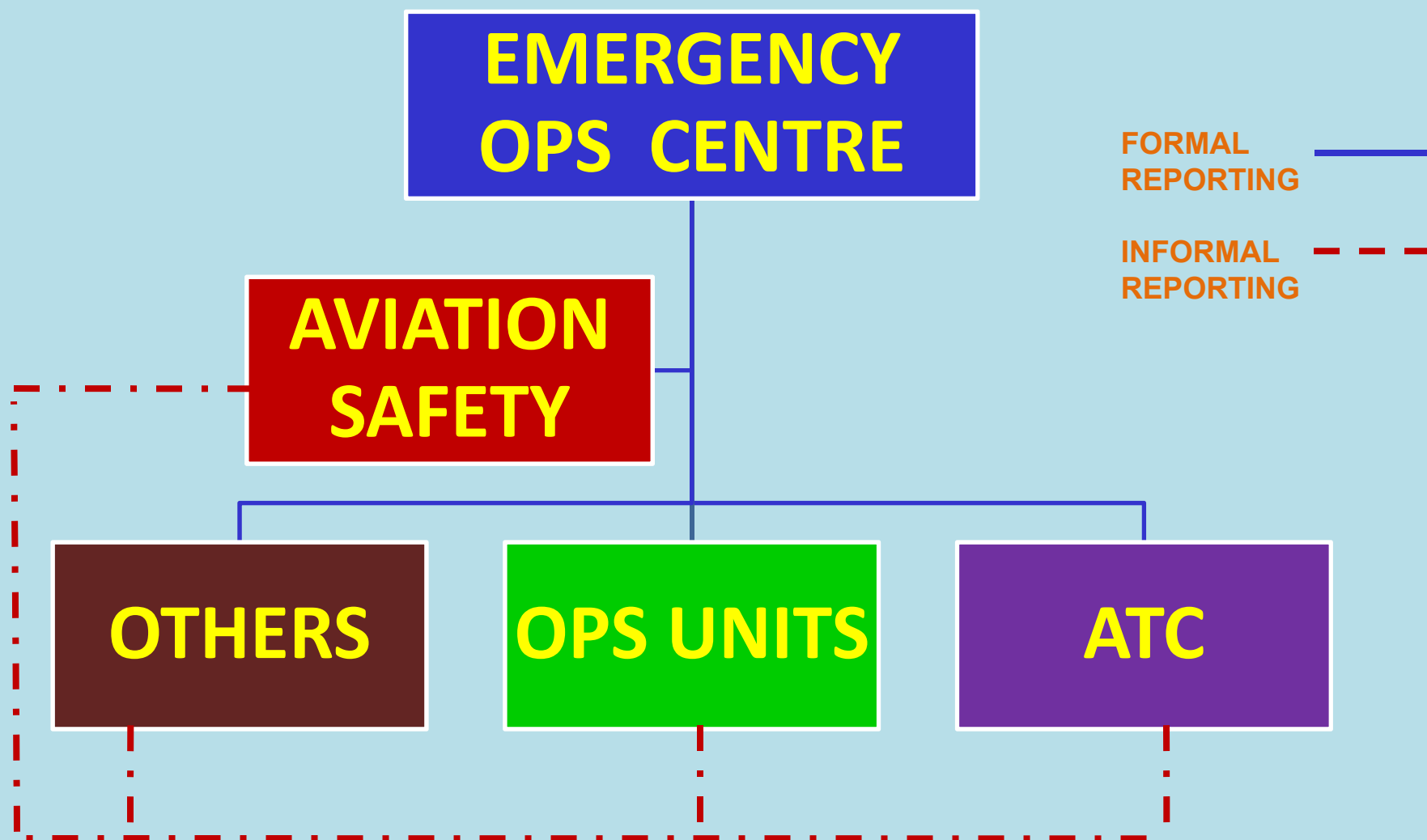
2- FACILITIES

TOOLS

EQUIPMENT

MANPOWER

3- Information



4- Documentation



- ❖ **Inspection
Checklists**
- ❖ **FOD Event
Records
Data Base**



5- Continuous Improvement



- Monitoring



- Analysis

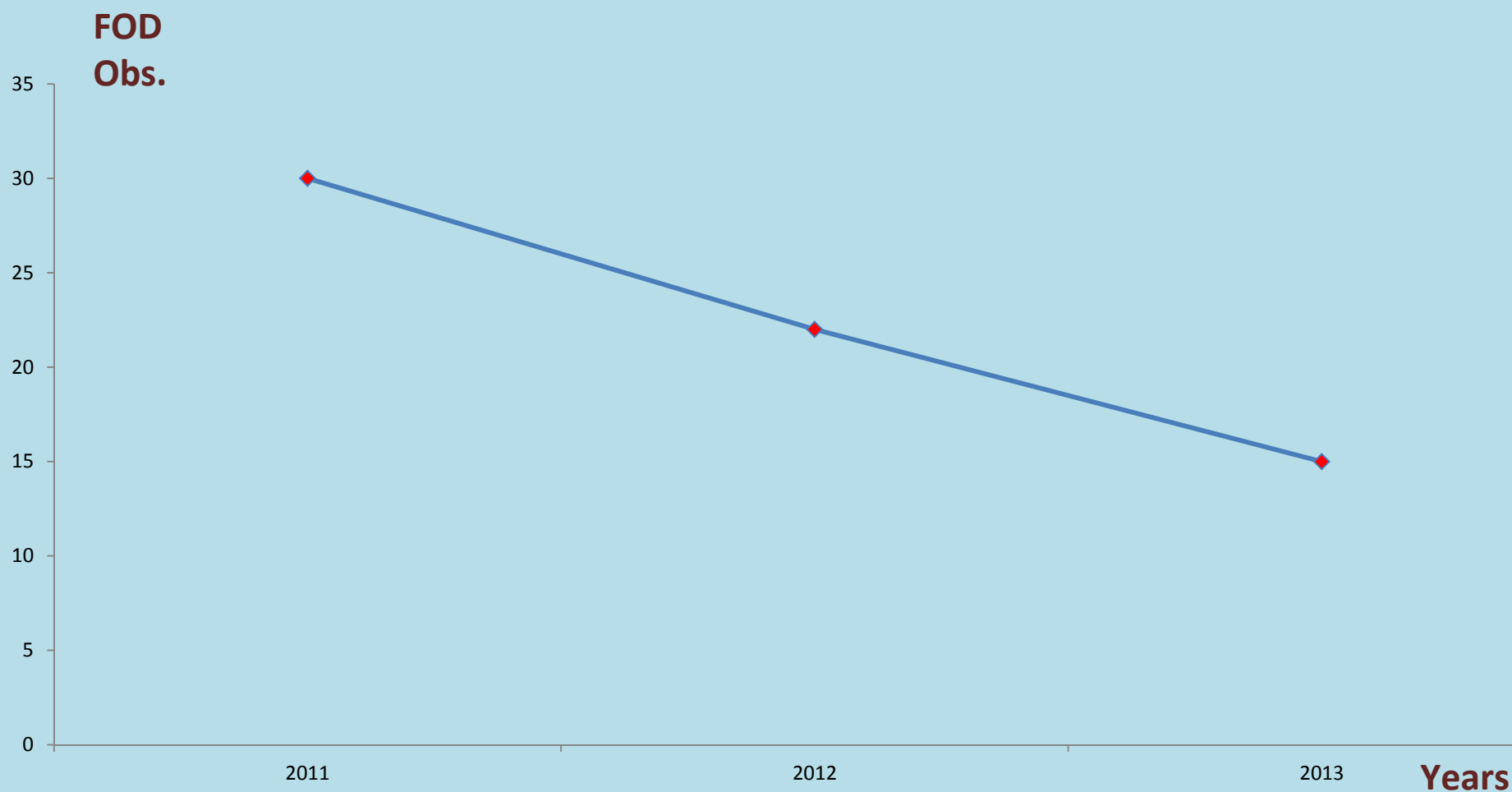


- Evaluation



- Corrective Actions

FOD Observations Trend (HECA/CAI)





Make It FOD

Free

THANK YOU

