

# Wildlife & FOD Workshop

24- 26 March 2014  
Cairo, Egypt

## Technology

### Session #6 Presentation #3



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24- 26 March 2014  
Cairo, Egypt

## Technology And Hazards Management

Presented by Jamal Zaal  
Dubai Airports





- Content:
  - Collaboration between local agencies.
  - Ownership of FOD issues

# Collaboration between local agencies



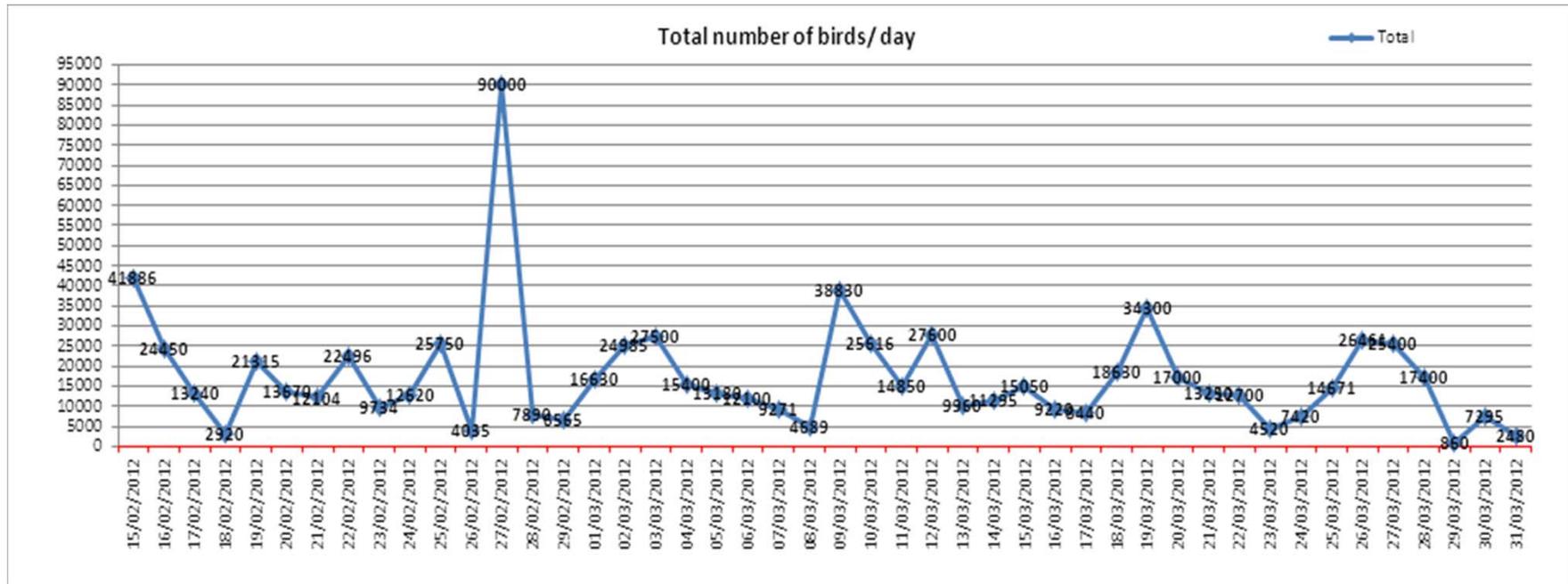


# Species and Migration Patterns

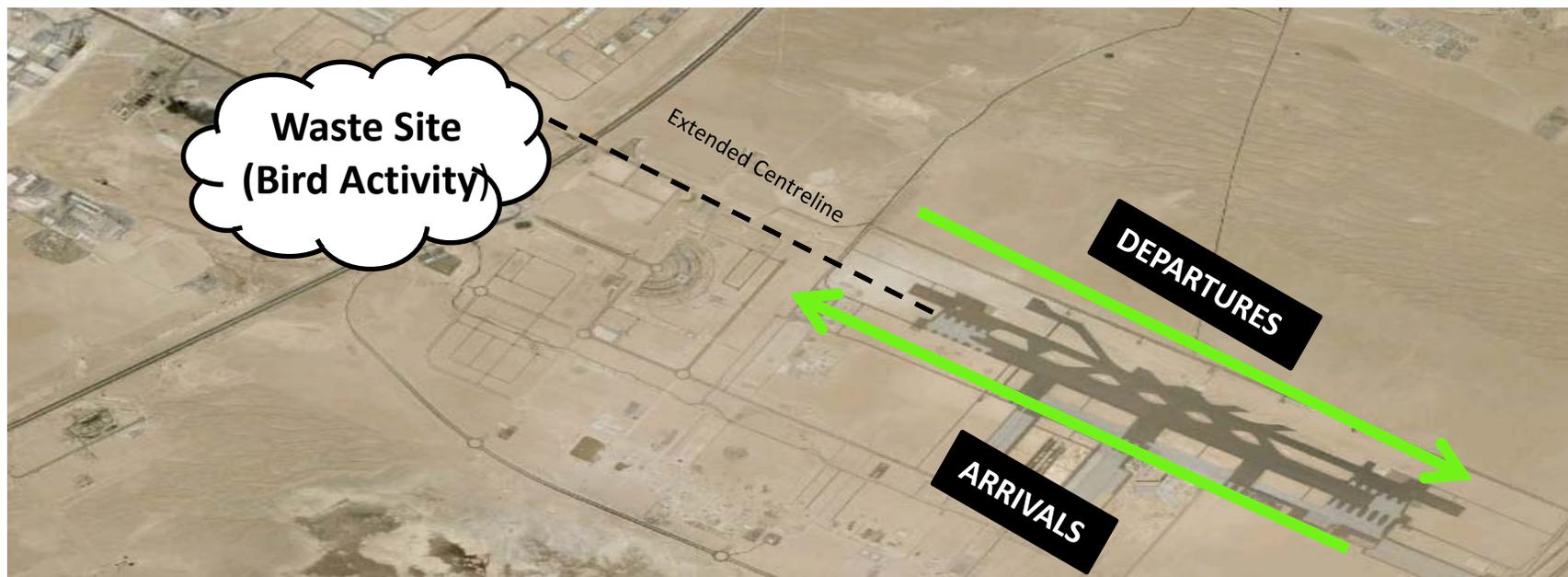
## Black headed gulls



# Dubai Municipality Waste Site & Flight Restrictions



- Daily bird monitoring – 12hrs per day
- Numbers peaked at over 100,000 in early January, compared to approx 76,000 during last years observations.
- Cost to Dubai Airports resource Approx 485,000AED.

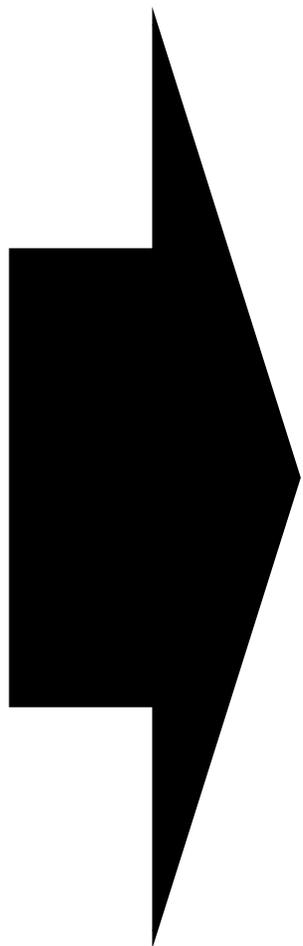


### Restrictions To Avoid Over-flight of Waste Site

- Departures restricted to runway 12
- Arrivals restricted to runway 30
- Majority of aircraft can accept tailwind component of approximately 12-15kts maximum.
- Training flights for light aircraft must remain east of emirates road at all times



## Comparison to 2010/11/12/13 migration



Runway restrictions

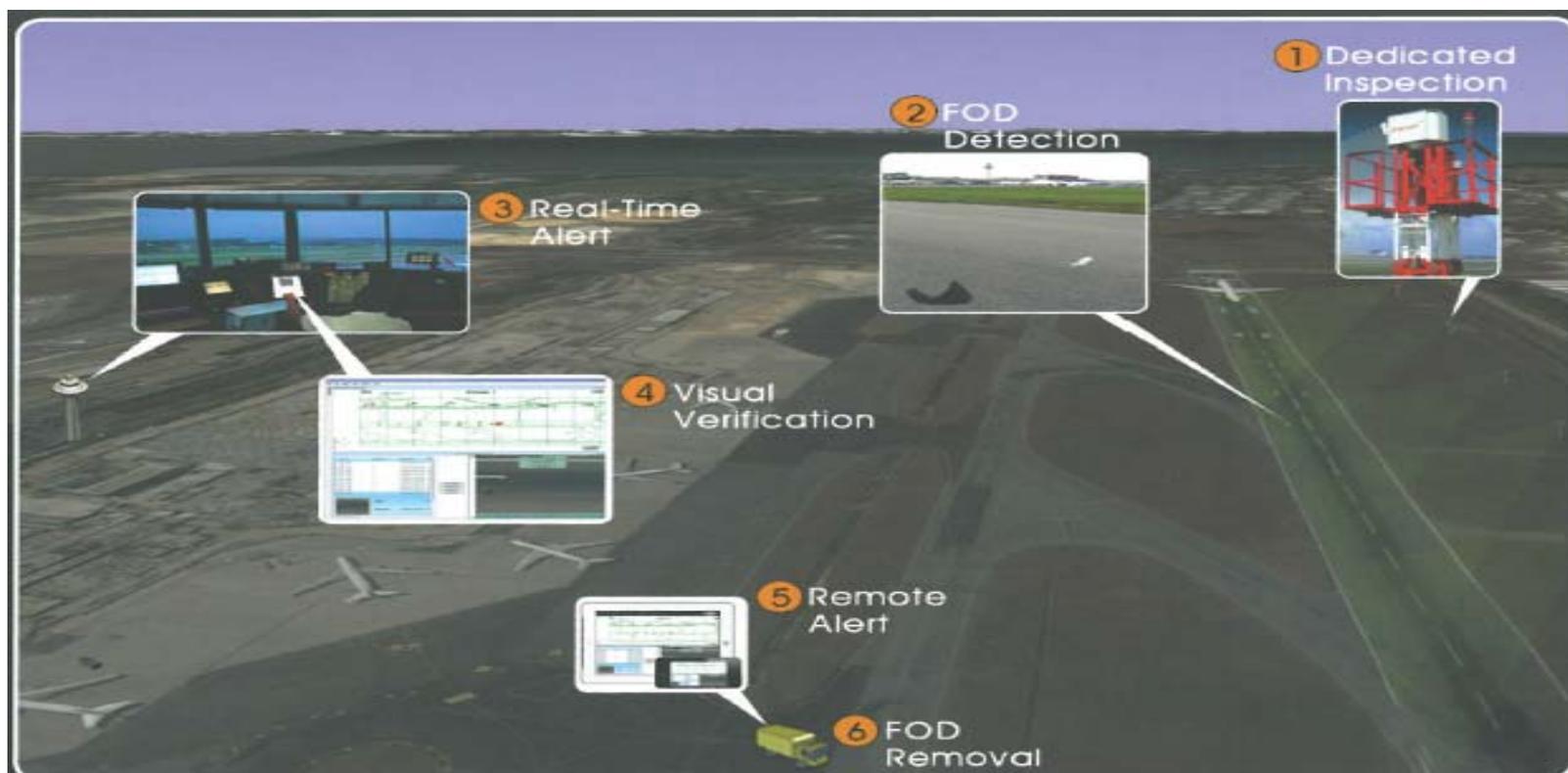
NOTAM issued

Largest Observation

Operational Disruption

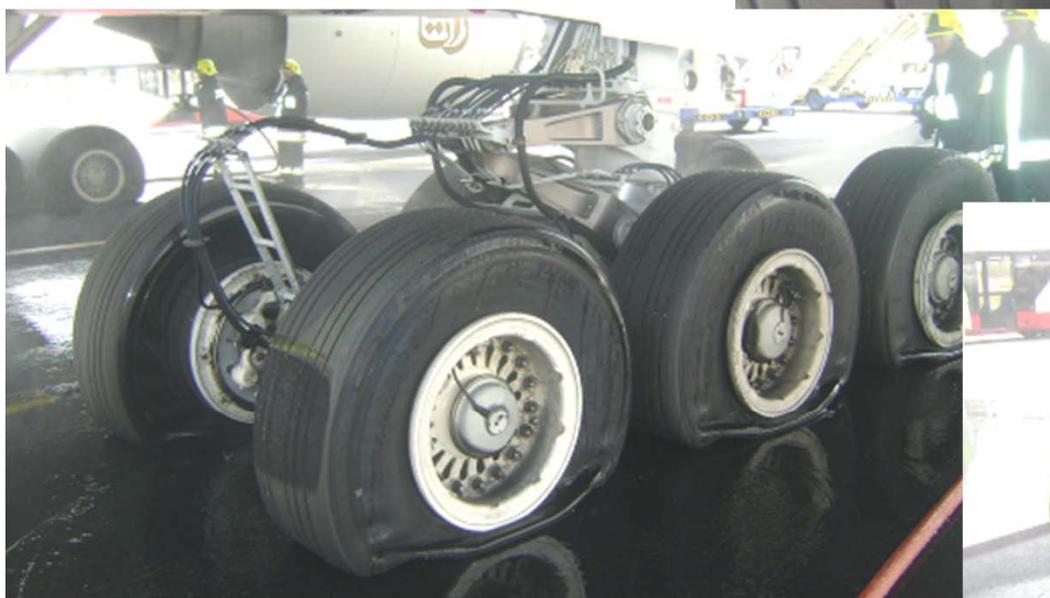
- Ownership of FOD issues

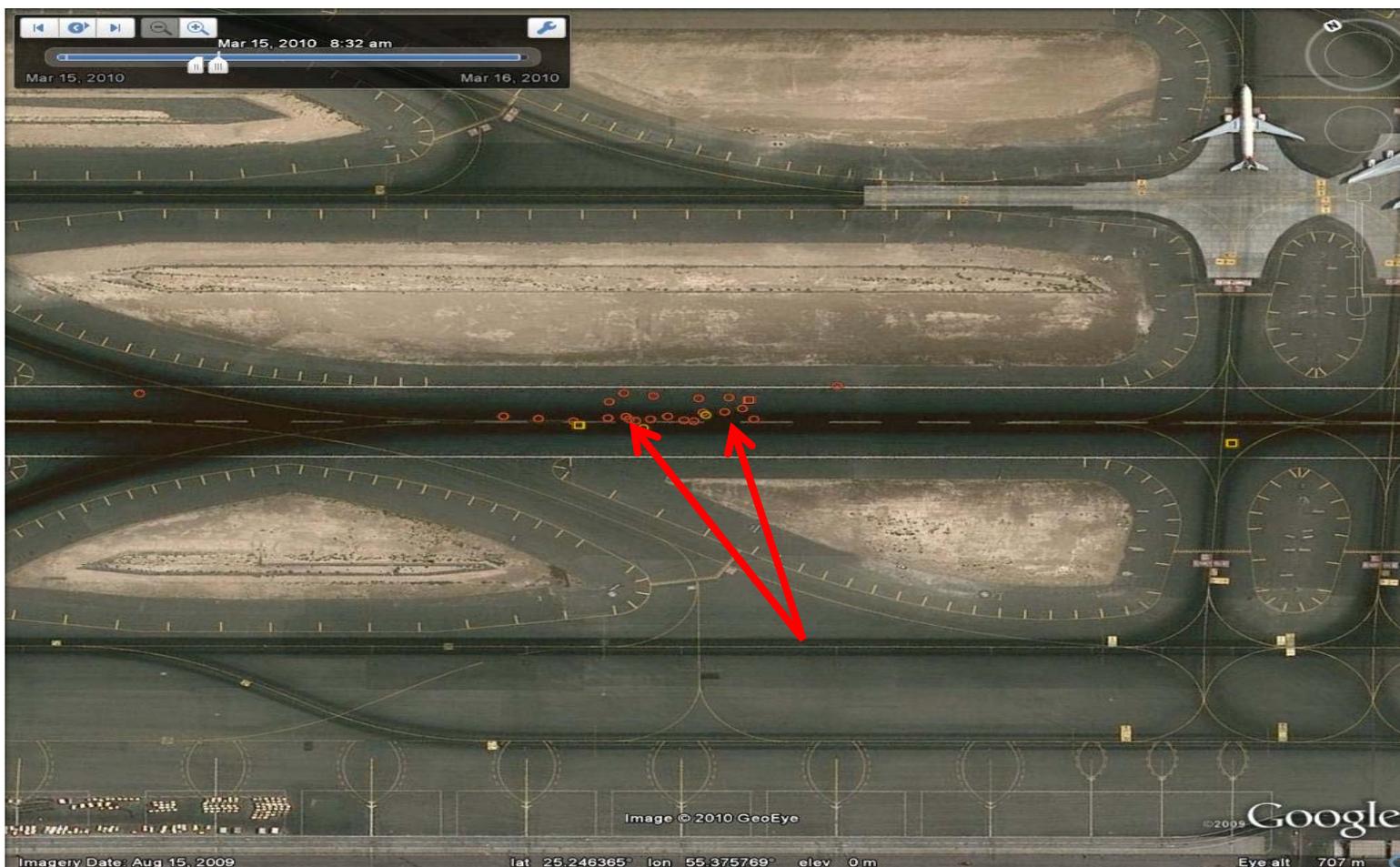


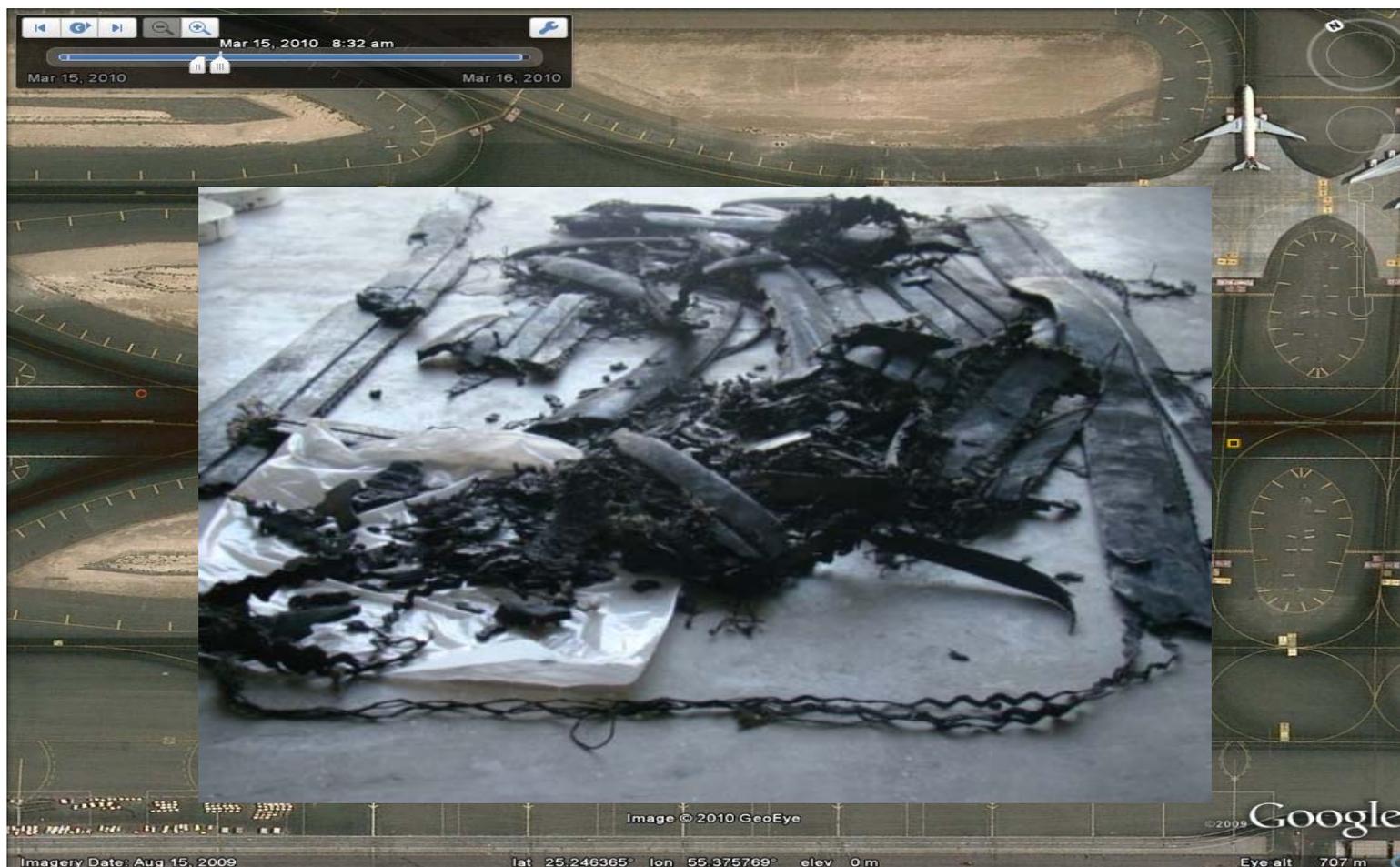


### iFerret™ Operations Workflow

<b>Step 1 : Dedicated Inspection</b>	Dedicated EO Sensors monitor defined areas of runway sectors continuously
<b>Step 2 : FOD Detection</b>	iFerret™ processes electro-optic images to detect FOD in real-time
<b>Step 3 : Real-time Alert</b>	Audio and video alert with location information
<b>Step 4 : Visual Verification</b>	Zoom-in view of detected FOD for visual verification
<b>Step 5 : Remote Alert</b>	Remote alert to mobile devices with text and/or image details
<b>Step 6 : Recovery Dispatch</b>	Rapid recovery of FOD









## Airside Monthly Performance Managing the key

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### 2. REACTIVE SAFETY KPI's

#### 2.1 Aircraft Related Incidents

- Runway Incursions
- FOD on Runway
- Bird Strike
- Tyre Burst
- Aircraft Roll back
- Unauthorised Pushback
- Aircraft-vehicle Conflict
- Aircraft Ground Damage
- Aircraft Ground Damage
- Other Critical Airside Saf (Runway excursion/Power airside vehicles/Taxiway issues/VDGS issues/Ma

#### 2.2 Personal injury

- Staff Injury
- Passenger Injury

#### 2.3 Vehicle Accidents

#### 2.5 Spillages

- Aircraft Spillages
- Equipment Spillages

#### 2.6 Project related incidents

### 3. PROACTIVE SAFETY KPI's

#### 3.1 Wildlife management

#### 3.2 Inspections

##### 3.2.1 Duty Team Inspections

- Runway Inspections
- Taxiway Inspections
- Apron inspections

##### 3.2.2 SMS Inspections

- Aircraft Related Inspections
- Vehicle Related Inspections
- Project related Inspections

##### 3.2.3 FOD Inspections

##### 3.2.4 ADP Checks/Violations issued

##### 3.2.5 Audits

- GCAA Audits
- Internal Departmental Audits
- Stakeholder Audits
- Turnaround Audits
- SUSA

##### 3.2.6 Meetings

##### 3.2.7 Campaigns

##### 3.2.8 Communications

##### 3.2.9 Risk register

##### 3.2.10 Risk Assessments

##### 3.2.11 Runway Friction Test

### 4. GENERAL PERFORMANCE KPI's

#### 4.1 Staff Absence

- Airside Ops Duty Team
- ARFFS

#### 4.2 Positions Vacant

#### 4.3 Vehicle Serviceability

**Slow Down**

**FO(O)D FOR THOUGHT**

Commit to a **FOD** free airport

مطارات دبي

**F.O.D. PICK IT UP Or**

Commit to a **FOD** free airport.....

مطارات دبي Dubai Airports



**Rushin Slows**

stay don't

Make sure you read the

Erigo

**fol**

don't take a short cut to an accident

Aircraft have priority on taxiways and runways

Erigo

put safety first to avoid the worst

Safety is everyone's responsibility. 24 people were hurt last year in airside driving accidents.





**Thank You**