

Wildlife & FOD Workshop

24- 26 March 2014
Cairo, Egypt

Technology

Session #6 Presentation #2





Queen Alia International Airport

- Introduction of AIG
- WILDLIFE
- FOD



Queen Alia International Airport

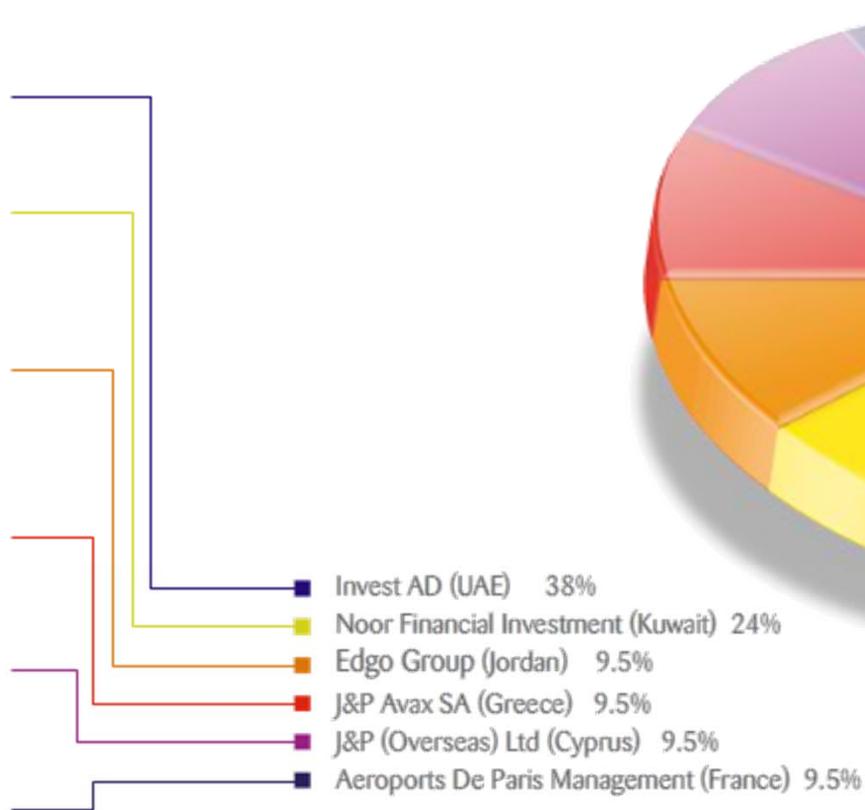
BELIEVE IN JORDAN



Airport International Group

Airport International Group (AIG)

- Airport International Group (AIG) is a Jordanian company comprising a consortium of local, regional and international partners brought together for their experience in finance, airport operations and construction



... gathering local, regional and international investors and expertise!

Queen Alia International Airport



A beautifully designed baggage reclaim area with sufficient space and luggage carts to welcome QANA's growing passenger numbers.



A unified one terminal building, welcoming departing and arriving passengers through two different floors.



After passing through the only security check point at the terminal, passengers will have plenty of time to shop through a fine selection of brand names, or just relax at one of the many options of restaurants and cafes available prior to their flight.



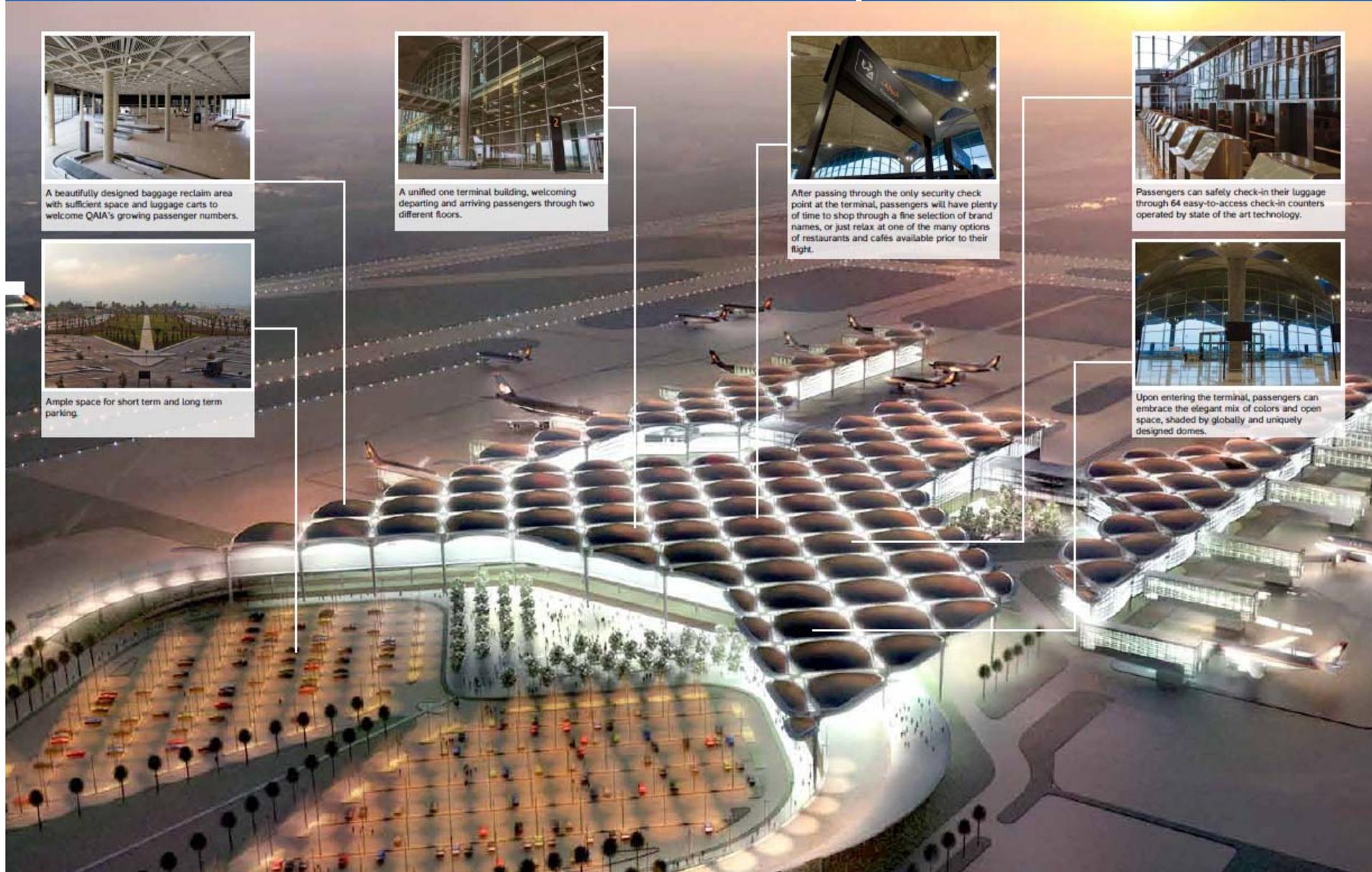
Passengers can safely check-in their luggage through 64 easy-to-access check-in counters operated by state of the art technology.



Ample space for short term and long term parking.



Upon entering the terminal, passengers can embrace the elegant mix of colors and open space, shaded by globally and uniquely designed domes.



Queen Alia International Airport

Previous Terminal Facilities

- 32 aircraft stands, including 8 contact stands
- Area of 58,400 Sq.m
- 46 Check in counters



New Terminal Facilities

- 14 contact stands further expanding to 18, and 24 remote stands
- PAX Capacity of 7M PAX further expanding to 9M
- Area of 100,000 Sq.m
- 64 Check in counters

Quick Facts...

- Two (3660 x 61) meter runways with 2 rapid exits
- High runway PCN (84/F/C/W/T and 79/F/C/W/U)
- 3 Cat II Instrument Landing System (ILS)
- Comprehensive parallel taxiways
- Code E Fire Fighting & Recovery Systems FFRS services
- 24/7 operations – no curfew



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- Traffic

	<i>2007</i>	<i>2013</i>	<i>Growth</i>
<i>Total PAX</i>	<i>3,857,000</i>	<i>6,502,323</i>	<i>+ 68 %</i>
<i>Total ACM</i>	<i>44,700</i>	<i>67,959</i>	<i>+ 52 %</i>



QAIA – Management System

- **Baseline & Foundation**
- QAIA's Safety Management System has been certified by Civil Aviation Regulatory Commission back in 2008 (beginning of the concession) and **all related procedures implemented**, continuously tested and amended.
- Since 2009, AIG is **ISO certified** for:
 - Its Quality Management System (**ISO 9001**) as well as;
 - Its Environment Management System (**ISO 14001**)
 - Furthermore, its Customer knowledge & Satisfaction Management System complies with **ISO 10002** standards;

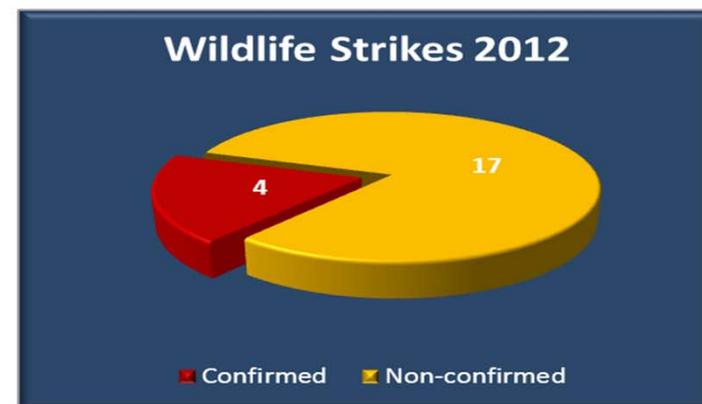
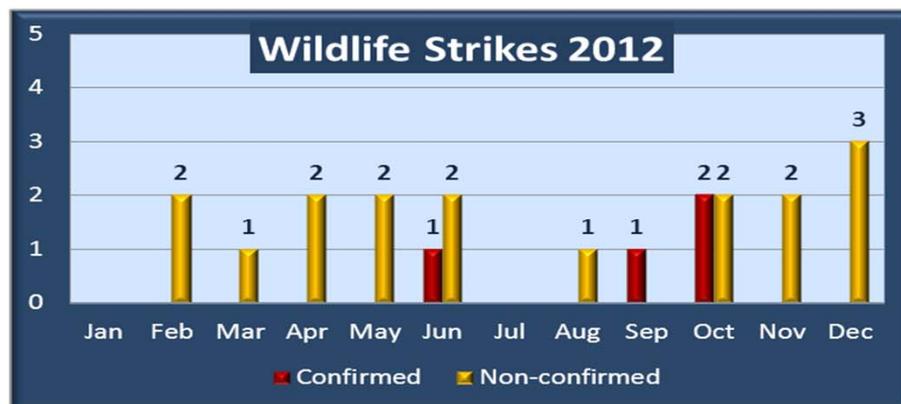
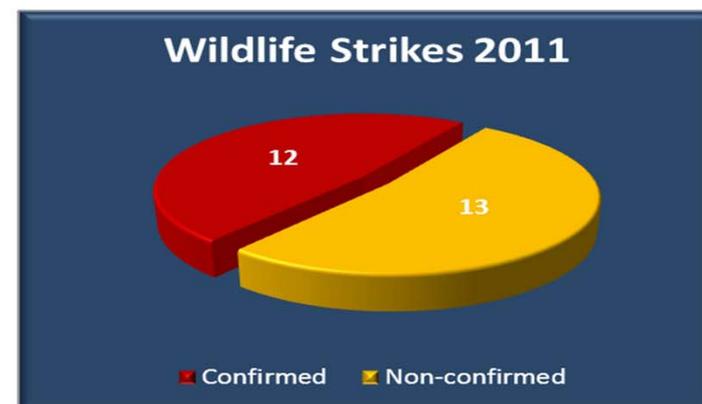
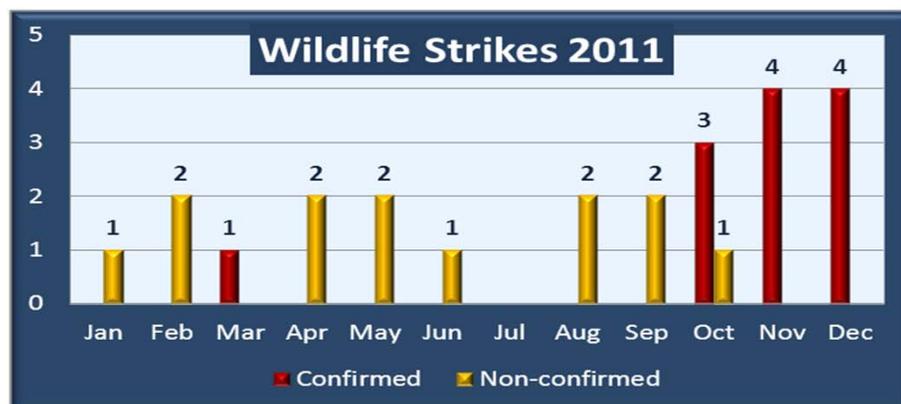


QAIA - Wildlife

- Guest... generally protected
 - Dogs (fence, cargo area, main access point) - Traps
 - Cats (former terminal, construction site) - Traps
 - Pigeons (former terminal nest, stakeholders...) – Spikes/repellent;
 - Stone curlew, skylark, crested lark, House sparrow, Spanish sparrow, linnet – habitat/scarring;
- Migration/seasonal (October – January)

QAIA - Wildlife

- Strikes – Statistics (2011 & 2012)



QAIA - Wildlife

- Risk assessment
 - Probability criteria:

Wildlife Strike Rate per 10,000 movements	>10	3 - 10	1 – 2.9	0.4 – 0.9	0 – 0.3
Probability category	Very High	High	Moderate	Low	Very Low

- Severity criteria:

Percentage of strikes Causing damage	>20%	10–20%	6 – 9.9%	2 – 5.9%	0 – 1.9%
Severity category	Very High	High	Moderate	Low	Very Low

QAIA - Wildlife

- Wildlife – Statistics (2013)



- 1.3 per 10,000
- Damage - 0% (further amendment to consider other impact i.e. delays etc.)

QAIA - Wildlife

- Risk matrix

SEVERITY	PROBABILITY				
	Very High	High	Moderate	Low	Very Low
Very High	5A	5B	5C	5D	5E
High	4A	4B	4C	4D	4E
Moderate	3A	3B	3C	3D	3E
Low	2A	2B	2C	2D	2E
Very Low	1A	1B	1C	1D	1E

- Objective: stay green!
- Next target community surrounding QAIA...

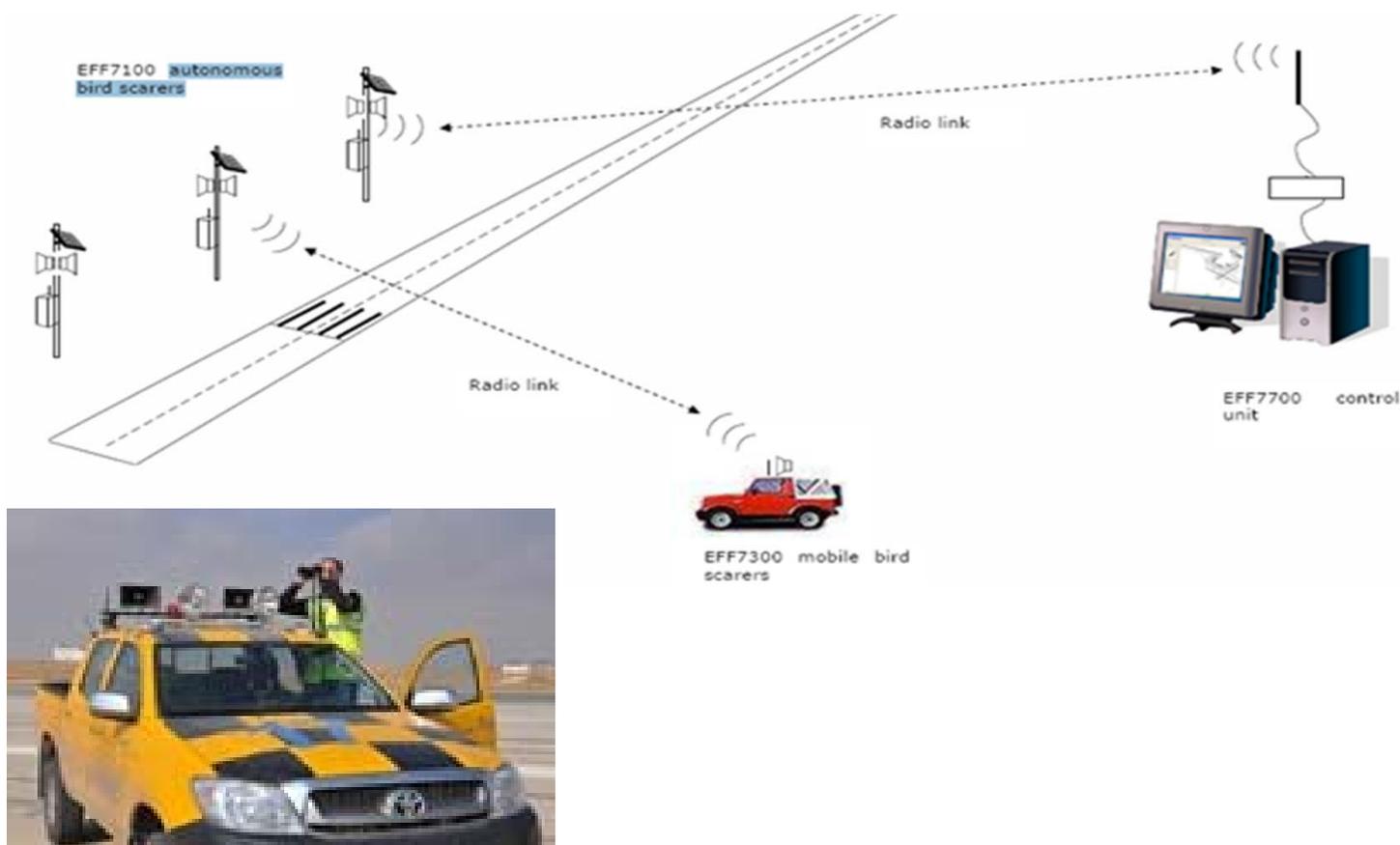
QAIA - Wildlife

- Main action - Habitat management
 - Habitat survey (RSCN) – Procedure amendment
 - Olives trees relocation, systematic grass cutting campaigns;
 - Storm water ditches, no standing waters, WWTP upgrade;
 - **Waste management**



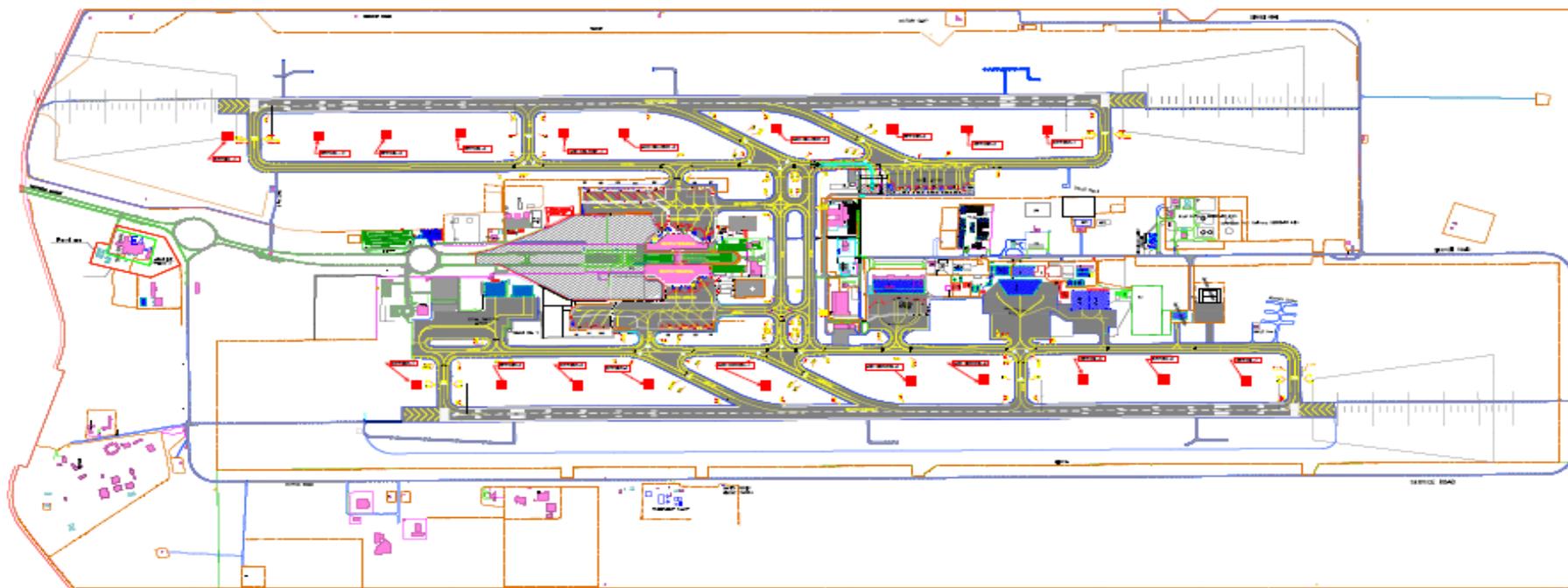
QAIA - Wildlife

- Watching/scaring actions by mobile and fixed equipment on the runway strips



QAIA - Wildlife

- Fixed scaring devices along runways



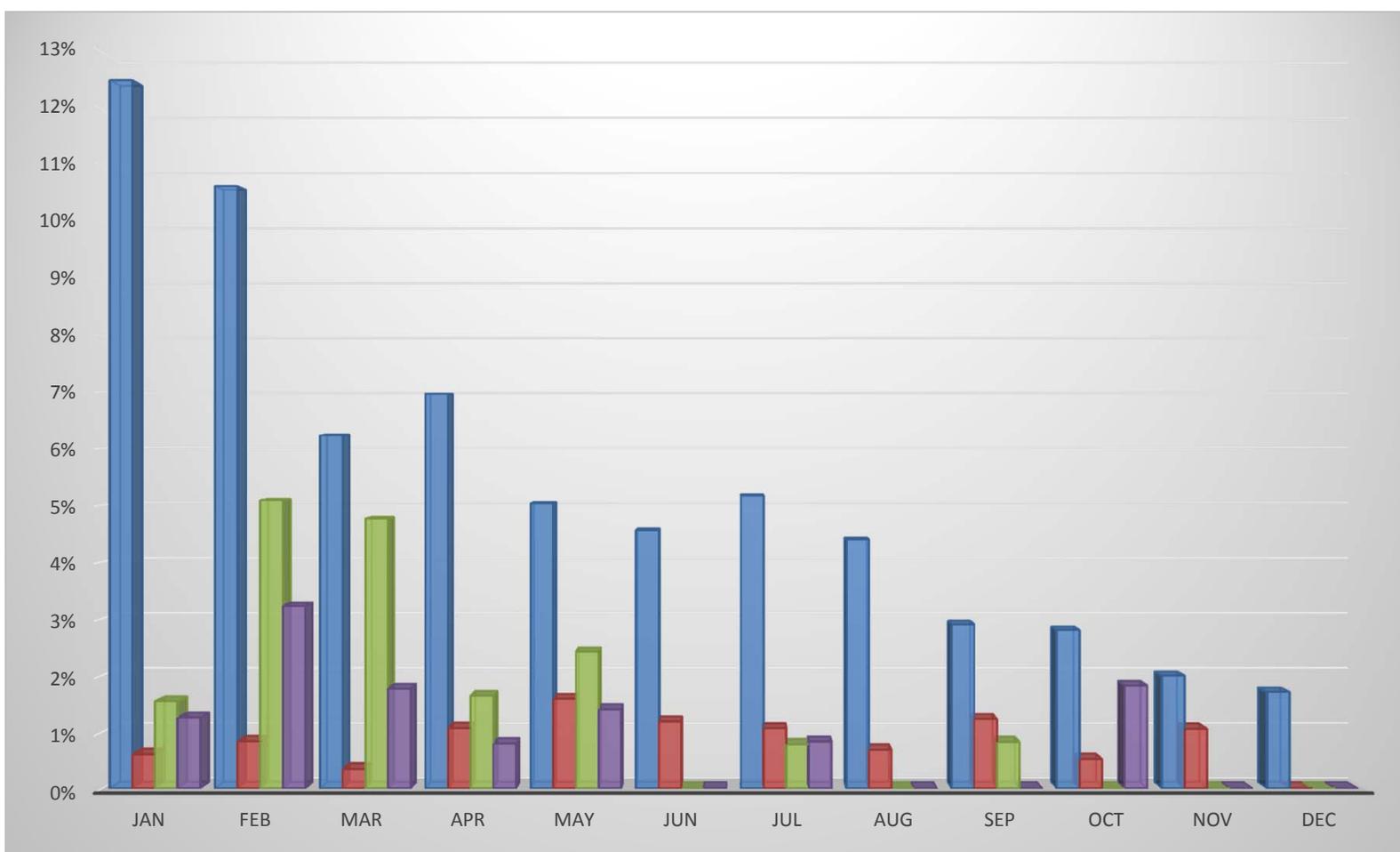


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- FOD

QAIA – Airside safety

- Deviation per movement/per main handler



QAIA - FOD

- Most frequent deviation

ASM Ref.	Violation	Related accidents /incidents	Root Cause
3.9.12.2	Driving around parked aircraft (ASA)	2	Lack of supervision and Safety awareness (Behavior) and staging equipment not in proper specified location (Example: ASA)
3.9.14	Vehicles & Equipment Parking		
3.11	Foreign Object Debris (FOD)	1	Not abiding by waste, trash or refuse disposal procedures. Lack of supervision and Safety awareness (Behavior) and not following procedures and regulations (Behavior)

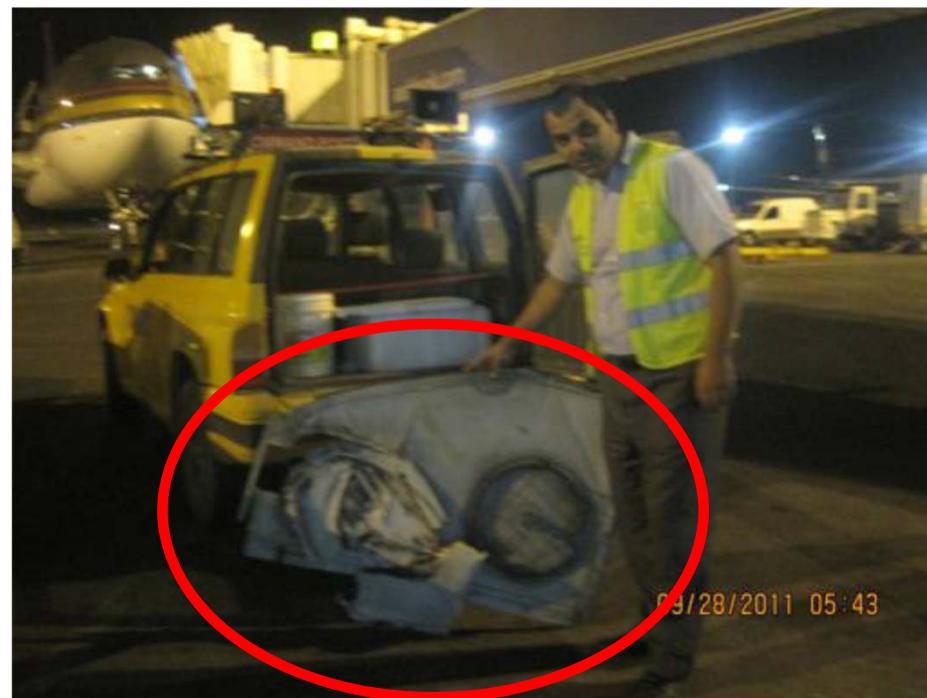
QAIA - FOD

- Equipment used



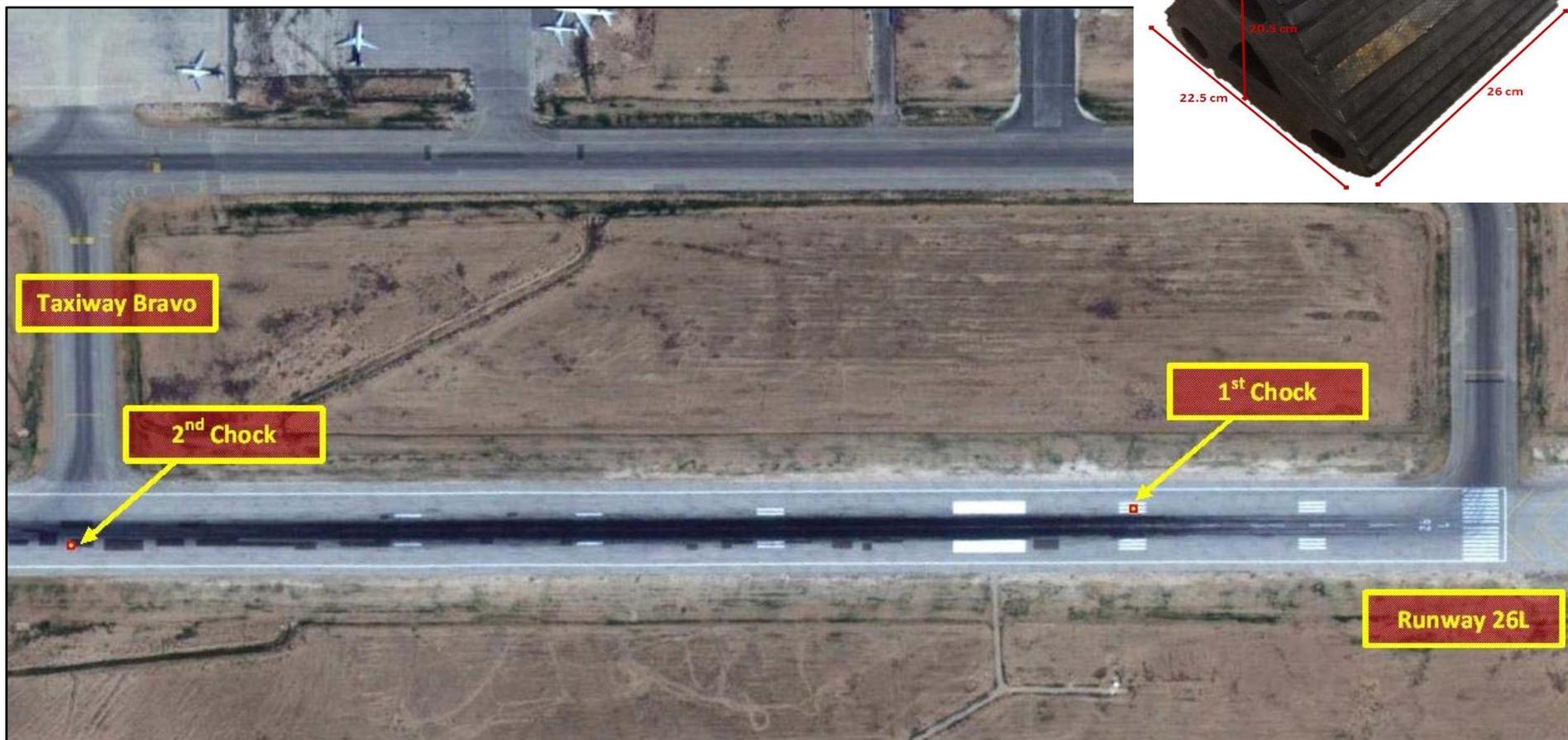
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- More inspection during night...



QAIA - FOD

- Challenging FOD



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- Maintenance...



QAIA - FOD

- For quick removal on RWY/TWY



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- Raising other concern...





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- Key of success:
 - Have basics right (system, procedure, training);
 - Have a consistent/accurate system for continuous monitoring (adjust accordingly);
 - Communicate (awareness, committees);



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- Thank you !