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Panel 4 | Reducing Runway Safety Accidents

ICAO GRSS

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Dubai Airports

Connecting the World

Defining the environment

Runway safety risks and challenges...

- Design and operational integrity : risk 'management'
- The human element

Continued and upcoming challenges



Dubai Airports
Connecting the World

Defining the Environment

Dubai Airports operates two major international aerodromes, Certified according to the Regulation of the United Arab Emirates General Civil Aviation Authority (gcaa.gov.ae):

Dubai International (OMDB/DXB)

H24 dual Runway (4F), AFS CAT 10, LVO CAT IIIB



Emirates (EK) and flydubai (FZ) base

90+ airlines serving 260+ destinations

83,654,250 passengers (418,220 movements) in 2016

Al Maktoum International (OMDW/DWC)

H24 single Runway (4F), AFS CAT 10, LVO CAT IIIB



Site of the SP2050 masterplan (5 Runway, 240mppa)



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Runway Safety Risks and Challenges

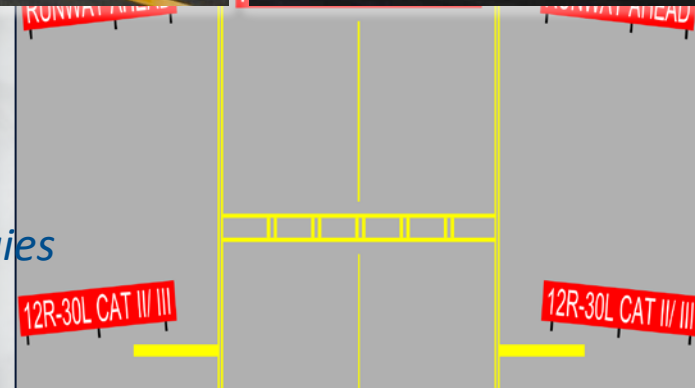
Design and Operational Integrity : Risk 'Management'

Geography and physical characteristics

Monitoring, inspection, performance and corrective action

Technology:

- *H24 Stopbars with RIMCAS and induction loops*
- *Runway Debris Monitoring System (RDMS)*
- *'Follow the Greens'*
- *PAPI / glidepath harmonisation*
- *Enhanced RWY signage*
- *Various vehicle and aircraft surveillance technologies*
- *Bird and drone solutions...*



Runway Safety Risks and Challenges

The Human Element

The Dubai Airports community employs personnel from 60+ countries.

Our cultural diversity brings varied:

- Training needs
- Discipline
- English competence
- Risk perception

QUALITY
RELIABILITY
SAFETY

- Selection, development, retention
- Multi-lingual & modal training
- Robust oversight
- **CULTURE**



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Continued and upcoming challenges...

Communication and information flows

Collaboration

True standardisation

Predictive safety metrics and intelligent distillation of data

Commercial and congestion pressures

Outsourcing and contract management

Fleets and operational mode evolution





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