Runway Incursion Prevention in Oman: Challenges and Solutions

Waleed Khalfan Al-Riyami
ICAO National Continuous Monitoring Coordinator
ANS Safety Inspector – Air Traffic Control Examiner

Public Authority for Civil Aviation
The Sultanate of Oman
Muscat Airport currently has 7 runway access points
Muscat Airport Development

**Challenge:** With the new second runway there will be 28 runway access points
Muscat Airport Development

Solution: Published, flow sensitive standard taxi routes
Muscat Airport Development

**Challenge:** How to avoid runway incursions in the first 2/3 of the runway (high inertia area)
Muscat Airport Development

**Solution:**

- Cross only in the last 1/3 of runway
- A) No angled intersection departures;
- B) Use right angle departures in the first 1/3 runway
Muscat Airport Development

**Challenge:** Standard and consistent signage & markings

**Solution:** Ensure effective maintenance program
Muscat Airport Development

- Adherence to ICAO Document 9870;
- Clear and concise standard phraseology;
- English language proficiency for all;
- Full crossing clearance read-backs;
- Defined ATC crossing procedures;
- Mandatory ‘hold short’ of all runways;
- Video support for areas of non-visibility;
- Vehicle driver training and enforcement;
- SMS and local Runway Safety Teams.
Just 3 more words...

Awareness;

Training;

Participation.
Thank you!!!