

Runway Safety Program for the Airport Operator

Singapore Aviation Safety Seminar 2018
Singapore, 26 – 29 March 2018

SL Wong, Head - Technical & Industry Affairs
Airports Council International





How We Look at Runway Safety?

- Build it right
 - Airport Planning and Design
- Use it right
 - Operations
- Keep it right
 - Maintenance and construction

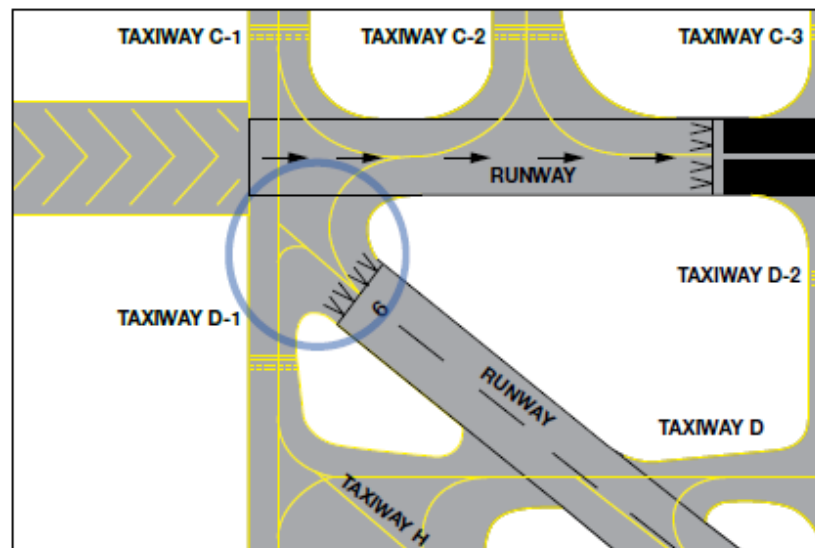
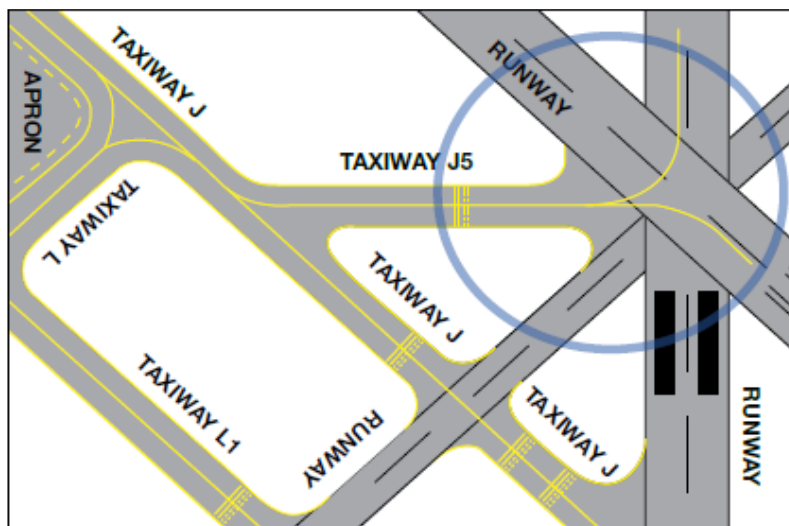


Build it Right

- Avoid building hazards into design such as:
 - Cross or converging runways
 - Closely spaced parallel runways with RET leading directly to another runway
 - Y-shaped taxiway intersections
 - Taxiways crossing a RET
- Signs and markings
- RESA

Build it Right (cont')

- Avoid cross or converging runways, closely spaced runways, complicated taxiway layout

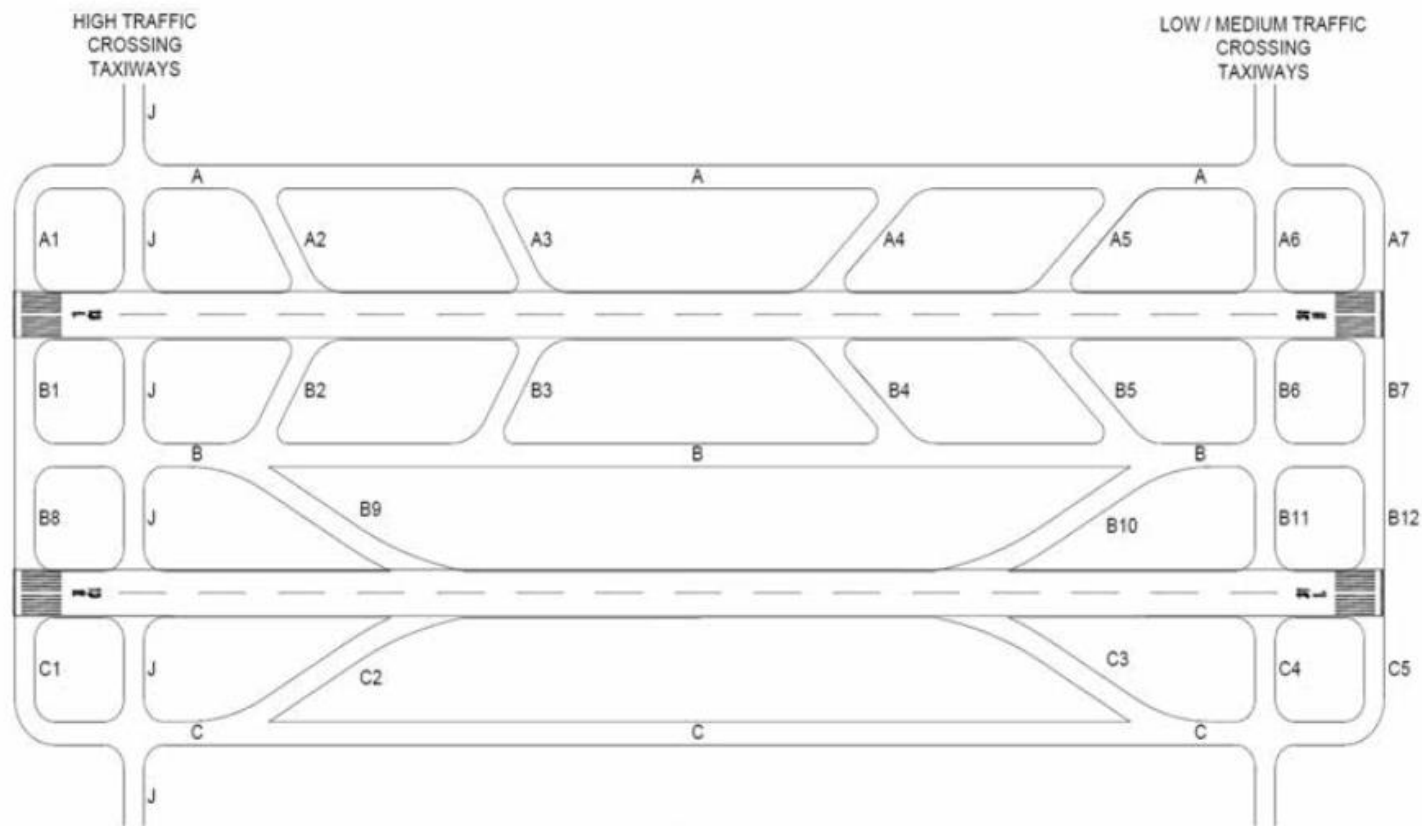


Eliminating Cross Runways





Simple and Logical Taxiway Names





Use It Right (Operations)

- Wildlife hazard
- FOD
- Vehicle licensing and driver training
- Obstacle control





Keep It Right (Maintenance)

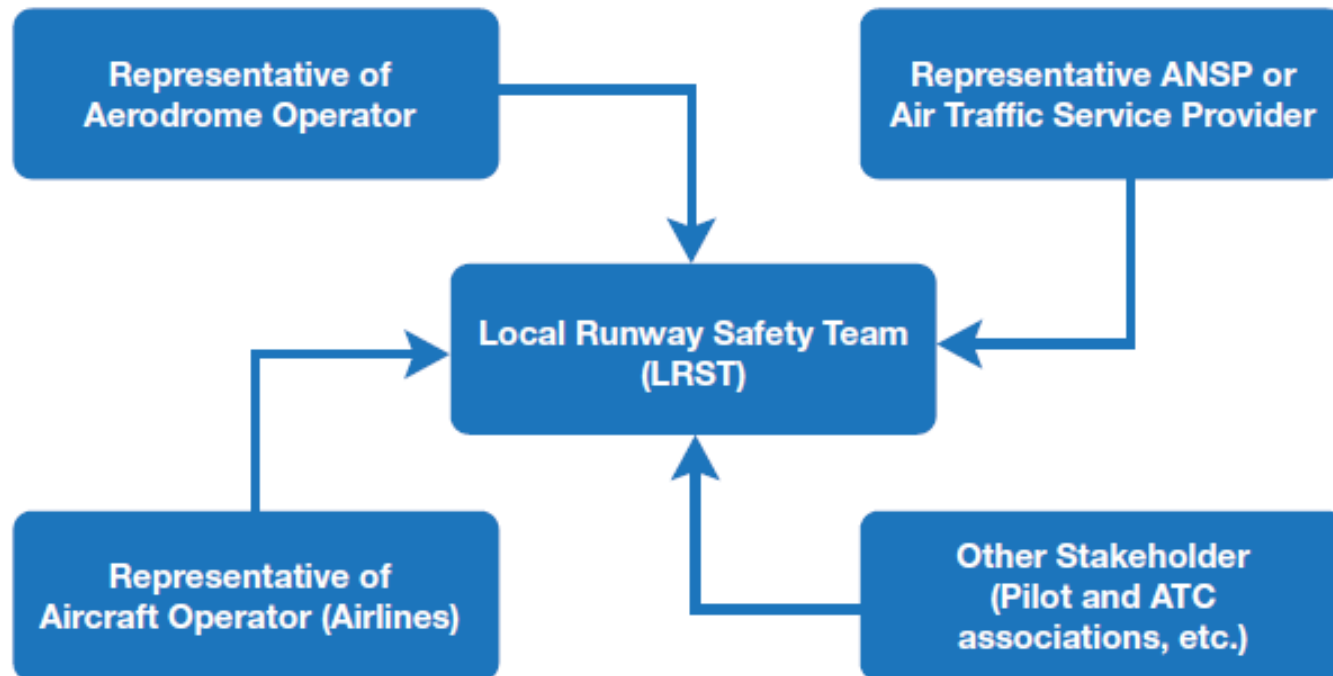
- Runway maintenance
 - Friction test
 - Rubber removal
 - Repairs
- Drainage
- Vegetation control
- Operations while construction





Don't Forget Your Partners

- Runway Safety everybody's responsibility
- Runway Safety Team



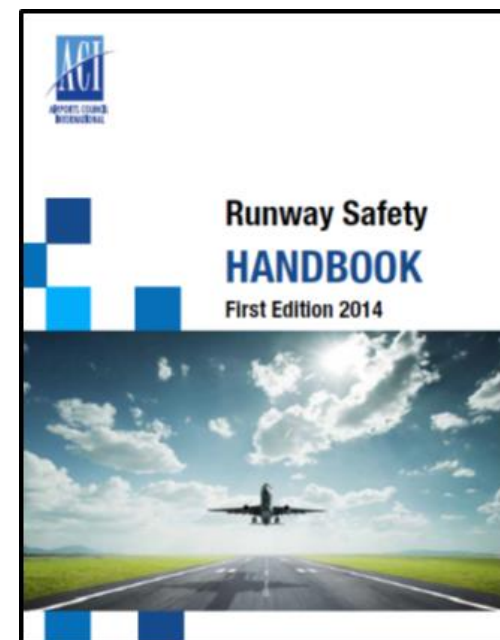
What Are the Tools We Use?



Training



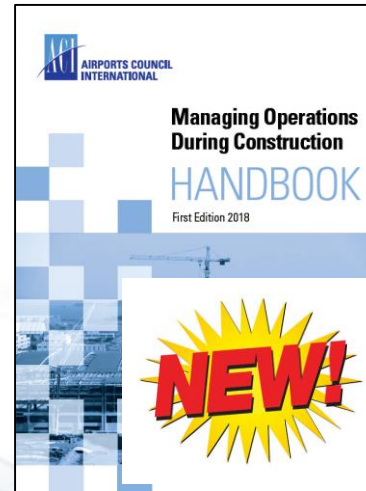
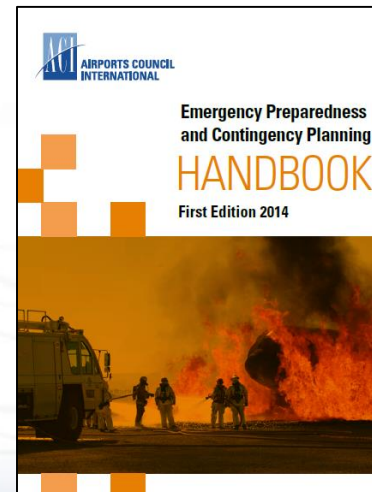
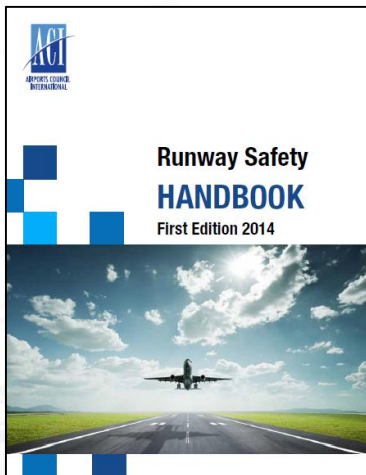
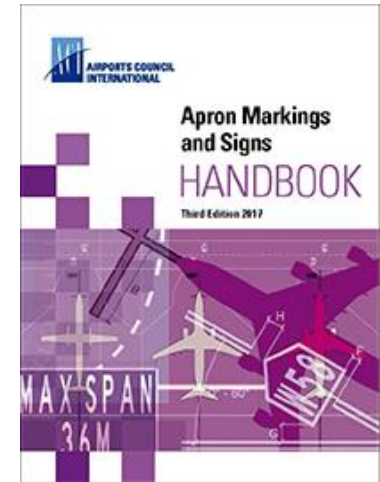
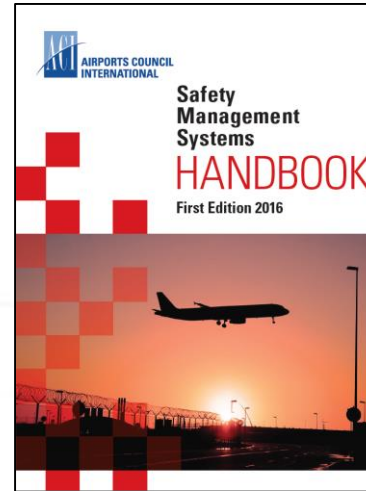
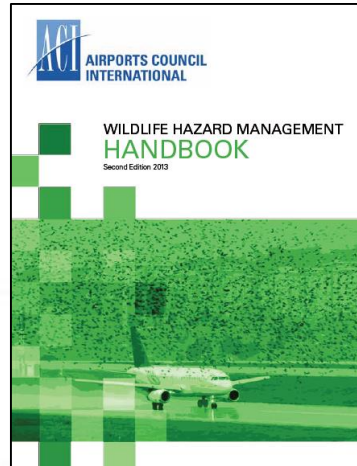
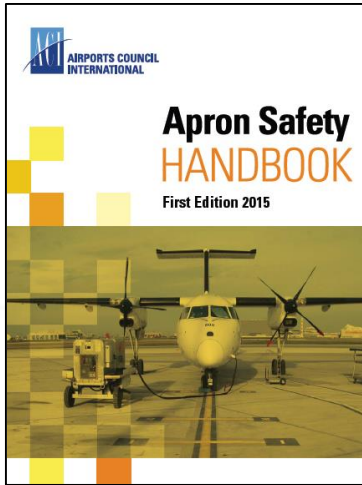
Onsite peer review



Written guidance



Guidance Materials for Aerodrome Safety



Airfield
Maintenance
Handbook
(Being Drafted)



Training



Online (www.olc.aero)



Face-to-face



Onsite Safety Review (APEX in Safety)

- Airport Excellence for Safety
- Peer safety review for airports
- It is NOT an audit
- ACI initiative launched in May 2011
- Technical assistance/advice to improve aerodrome safety



How Does APEX Work?

- Airport (Host) requests for assistance
- ACI assembles team
 - Safety Partner (safety expert from other airports)
 - ICAO staff
 - ACI staff
 - Others experts
- Team conducts on-site review (1 to 2 weeks)

How Does APEX Work?

- Checklist based on ICAO SARPs and ACI and best practices
- Report on gaps and recommendations



APEX Team in Action



Abu Dhabi March 2014



Typical Areas Covered

- Airfield signs, lightings and markings
- SMS
- Rescue and Firefighting
- Runway safety
- Wildlife management



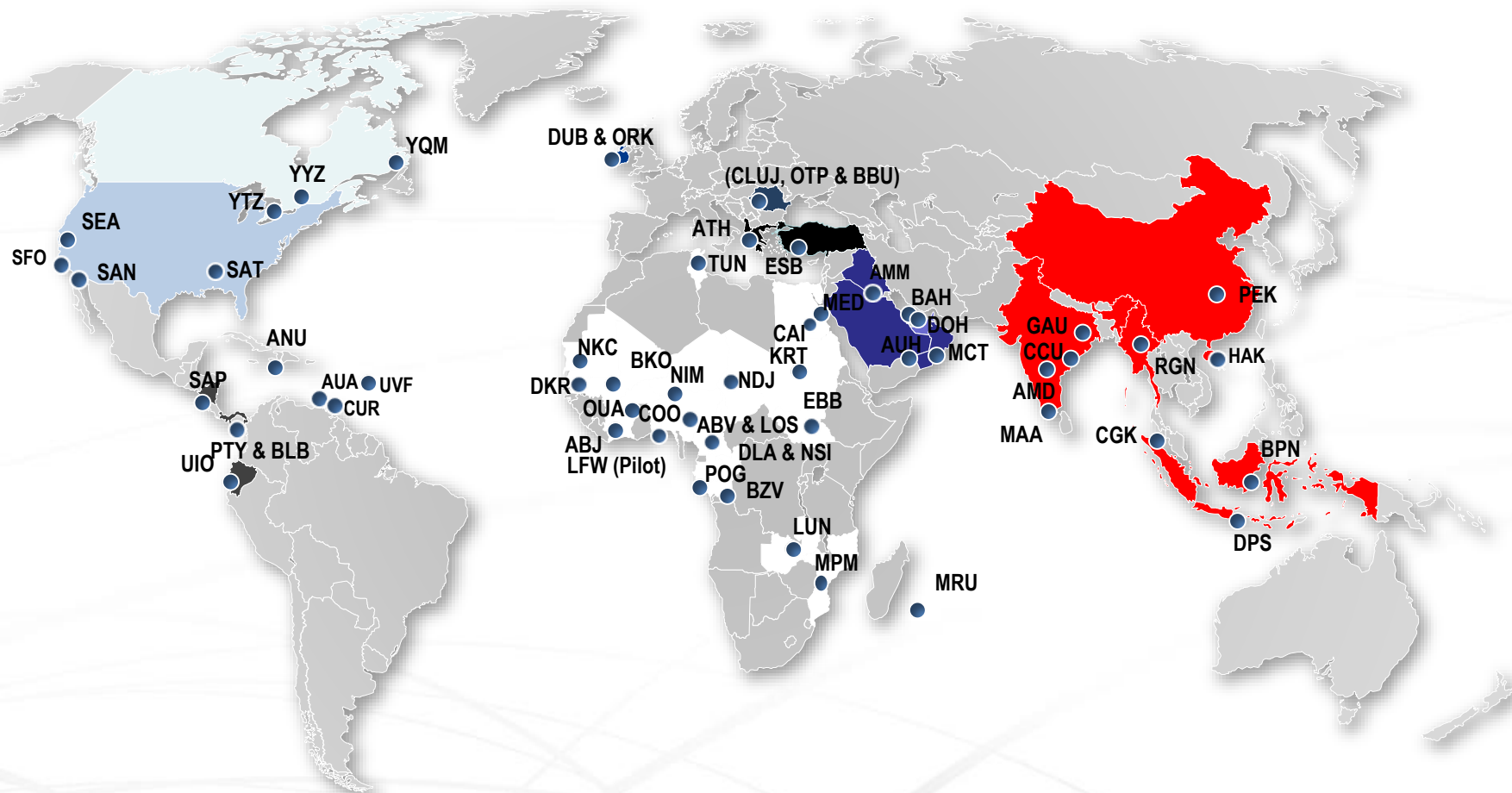


What have been the Major Findings?

- Incompliant Airfield Signs, Markings, Lights
- Inadequate SMS
- Inadequate RFF facilities
- Inadequate maintenance program
- Inadequate training



Who Has Hosted APEX Reviews?





In Summary

- Build it right
 - Airport Planning and Design
- Use it right
 - Operations
- Keep it right
 - Maintenance and construction