

# Why are we here?



#### An overview

- RASG-APAC/4-WP/16
  - "Lithium batteries the need for appropriate action"
- FAA research
- ICCAIA involvement
- Who needs to do what.....



# ICAO's role in the safe transport of lithium batteries by air



# ICAO and dangerous goods

- Background on ICAO
- Dangerous goods defined
- Why are rules necessary
- International regulatory framework
- ICAO and Annex 18



#### ICAO and its Role

The International Civil Aviation Organization (ICAO) is a UN specialized agency, created in 1944 upon the signing of the *Convention on International Civil Aviation* (Chicago Convention).





# The **Chicago Convention** was signed on 7 December 1944

**52 States** 1944

**191 States** 2015





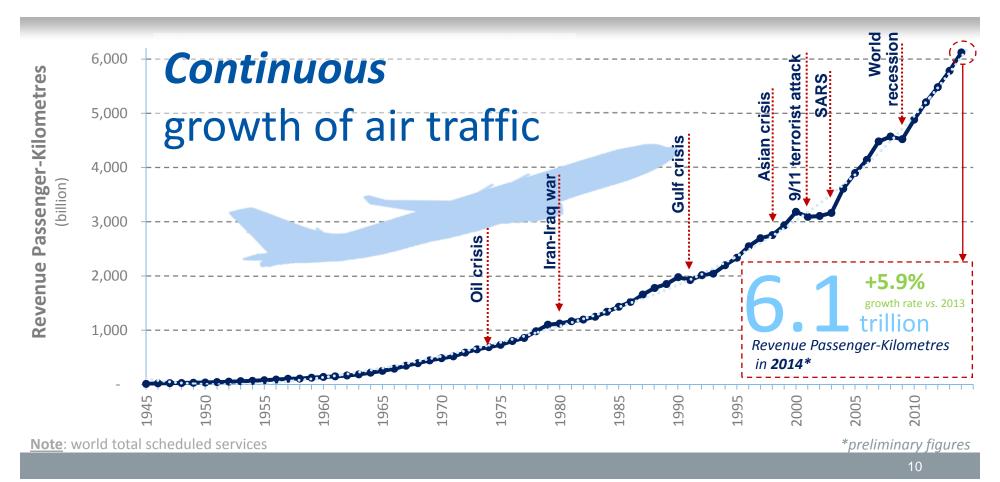






#### ICAO — Raison D'être

- The safe and orderly development of international civil aviation
- States work through ICAO to form agreements on the minimum Standards that must be met for safe, secure, efficient and "green" international aviation
- Nineteen Annexes to Chicago Convention
- Annex 18 The Safe Transport of Dangerous Goods by Air





# **Air Transport in 2014**\*

in 2013

vs 3.1 billion 3.2 Passengers carried

+5.9% vs 2013 **Revenue Passenger-Kilometres** 

Aircraft departures

Freight Tonne-kilometres

+4.6% vs 2013

vs 32 million

in 2013

**Note**: world scheduled services



# **International Civil Aviation Organization**



ICAO Member States (191)



ICAO Council



ICAO Assembly



Air Navigation Commission



# Dangerous Goods

 Articles or substances capable of posing risk to:

- Health
- Safety
- Property
- Environment





### Why Rules are Necessary

- 11 May 1996
- Florida Everglades
- 110 fatalities
- Fire, loss of control
- Chemical oxygen generators improperly prepared, packaged and identified

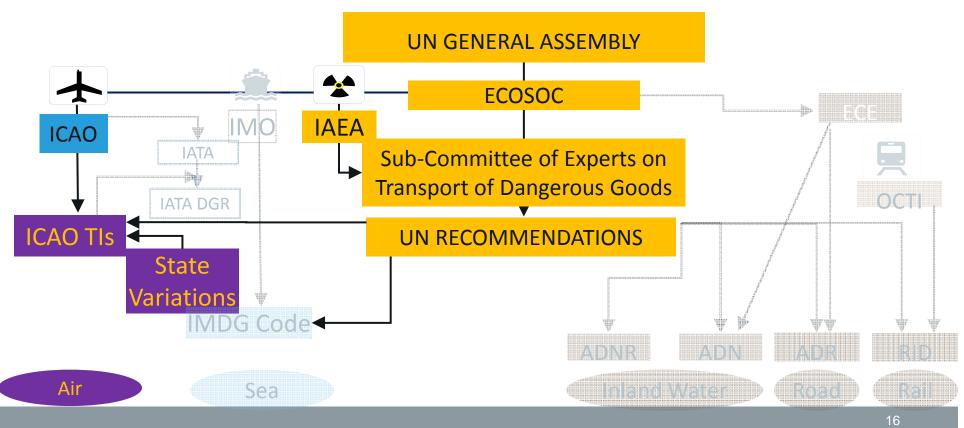




#### **Dangerous Goods Regulatory Framework UN GENERAL ASSEMBLY ECOSOC** ECE IMO **IAEA ICAO** IATA Sub-Committee of Experts on **Transport of Dangerous Goods** OCTI IATA DGR ICAO TIS **UN RECOMMENDATIONS** State Variations ▼ IMDG Code<mark>◀</mark> **ADNR ADN RID ADR** Sea **Inland Water** Road Rail Air



#### Dangerous Goods Regulatory Framework — Air Mode



# Annex 18

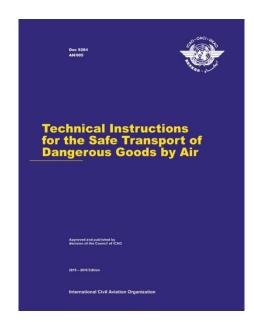
- The Safe Transport of Dangerous Goods by Air
  - "The Standards and Recommended Practices of this Annex shall be applicable to all international operations of civil aircraft."
  - "Each Contracting State shall take the necessary measures to achieve compliance with the detailed provisions contained in the Technical Instructions."





## **Technical Instructions**

- Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284)
- Issued every two years to reflect UN cycle
- Multimodal harmonization and facilitation aspects of transport





### What's in the Instructions?

- Classification based on hazard
- Package = packaging plus contents
- Hazard communication
  - Labelling of package
  - Documentation
- Safety is at the package, not aircraft, level



# WHAT'S SPECIAL ABOUT LITHIUM BATTERIES?