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





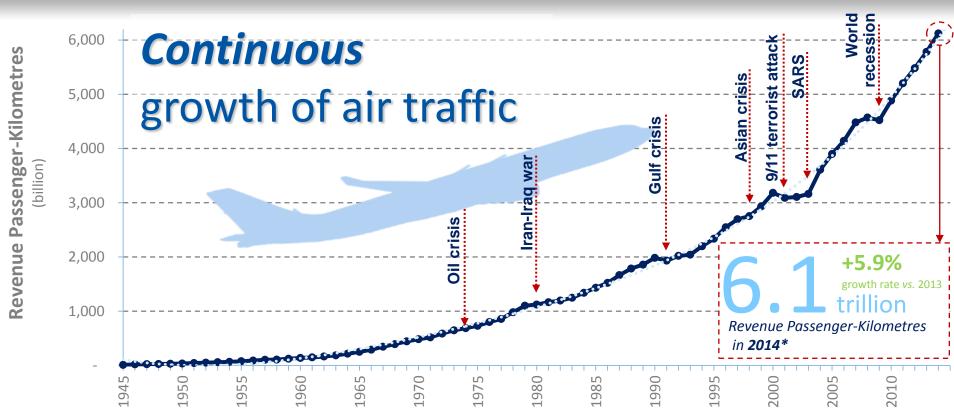






ICAO — Raison D'être

- 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 Passengers carried

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

Aircraft departures

Freight Tonne-kilometres

vs 32 million in 2013

> +4.6% vs 2013

Note: world scheduled services *preliminary figures

8/4/2015

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



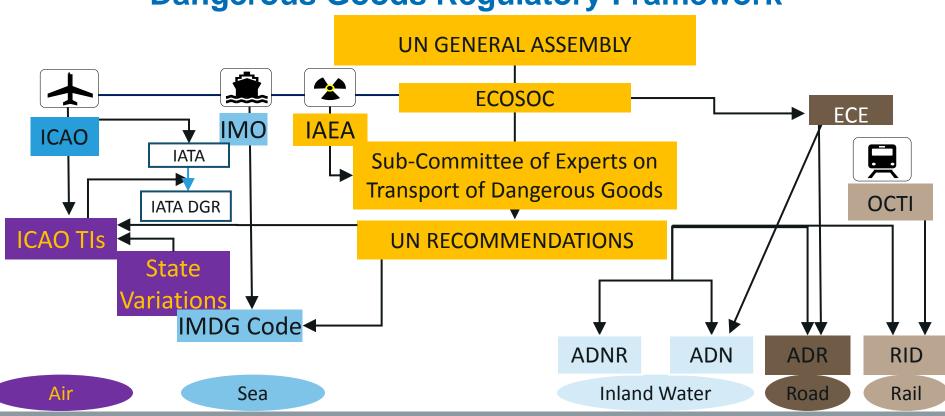


Why Rules are Necessary

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

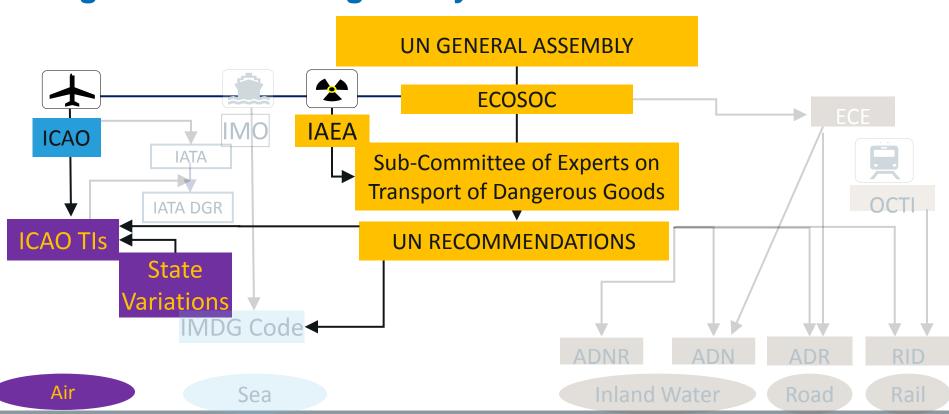


Dangerous Goods Regulatory Framework



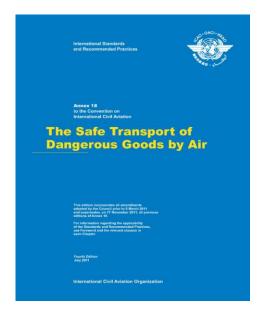


Dangerous Goods Regulatory Framework — Air Mode



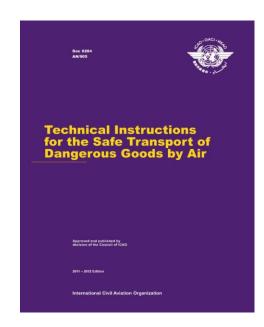
Annex 18

- 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
- Safety is at the package, not aircraft, level
- ICAO does <u>not</u> regulate manufacturers of goods consigned as cargo



WHAT'S SPECIAL ABOUT LITHIUM BATTERIES?