



# BCA In-Service Safety Process Overview

## ICAO SMS Symposium

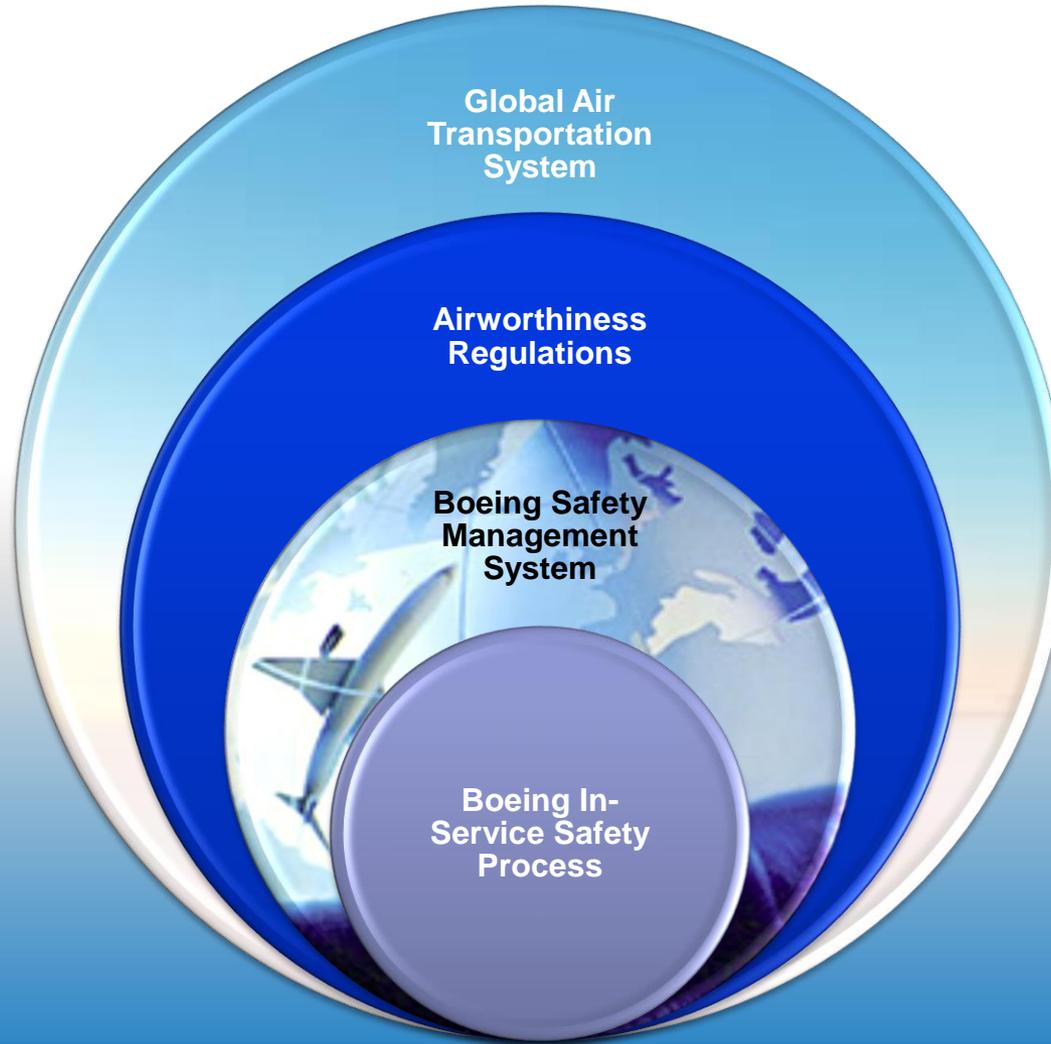
### Safety Promotion Panel

Kigali, 22-24 May 2018

Chamsou Andjorin

# A Global Perspective

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# Global Air Transportation System



Design → Build → Operation → Maintenance → Infrastructure → Regulation

**Working together for a Safe and Efficient Global Air Transportation System today and in the future.**

# Adherence to Airworthiness Regulations



## **Compliance and conformance ensure safety at delivery:**

- Airworthiness regulations establish the minimum standard for design safety
- Boeing requirements exceed regulatory standards in some cases
- Type certification process ensures compliance to applicable airworthiness regulations
- Production processes / certification ensures product conformity to the type design

## **The In-Service Safety Process (ISSP) ensures the continued operational safety of the fleet throughout the product lifecycle:**

- Continuous monitoring of product performance to identify potential safety issues
  - Boeing ISSP develops recommended corrective actions to maintain or restore the airworthiness of the fleet
  - Safety decisions and corrective actions may exceed regulatory standards
  - FAA may mandate corrective actions via Airworthiness Directive

**Certification and production conformity ensure the safety upon delivery and the In-Service Safety Process ensures safety throughout the product lifecycle**

# BCA Safety Management System Overview

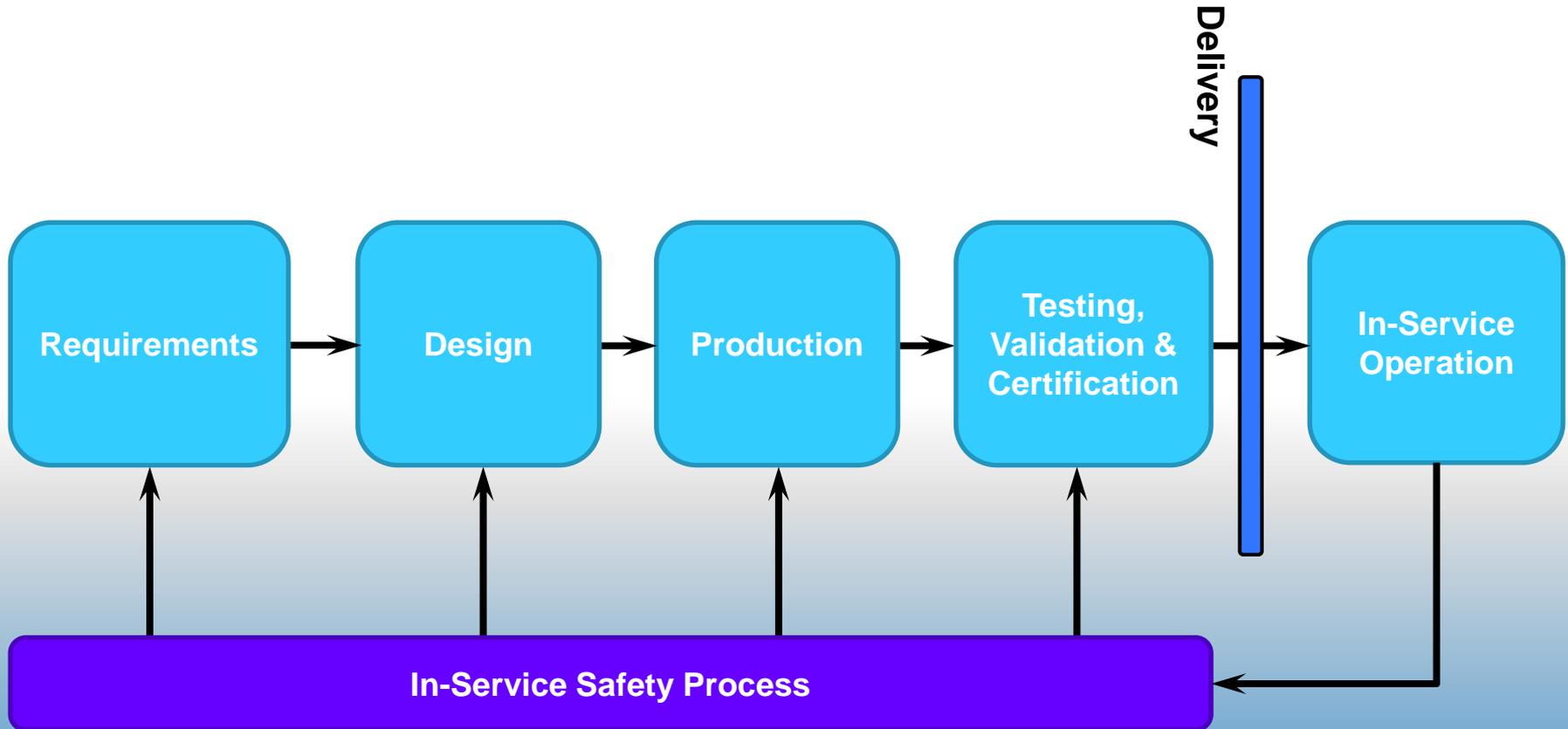


- Safety Policy & Objectives
  - Establishes Leadership commitment to Product Safety as a BCA priority; defines safety accountabilities at all levels; documents Safety Management System
- Safety Risk Management
  - Implements a system for hazard identification, analysis, and risk management; is essential in controlling risk to acceptable levels
- Safety Assurance
  - Assesses organization safety performance; validates effective implementation of risk controls; evaluates whether risk controls remain effective
- Safety Promotion
  - Communicates the BCA safety culture; maintains a safety training program that ensures personnel are trained and competent



# BCA In-Service Safety Process

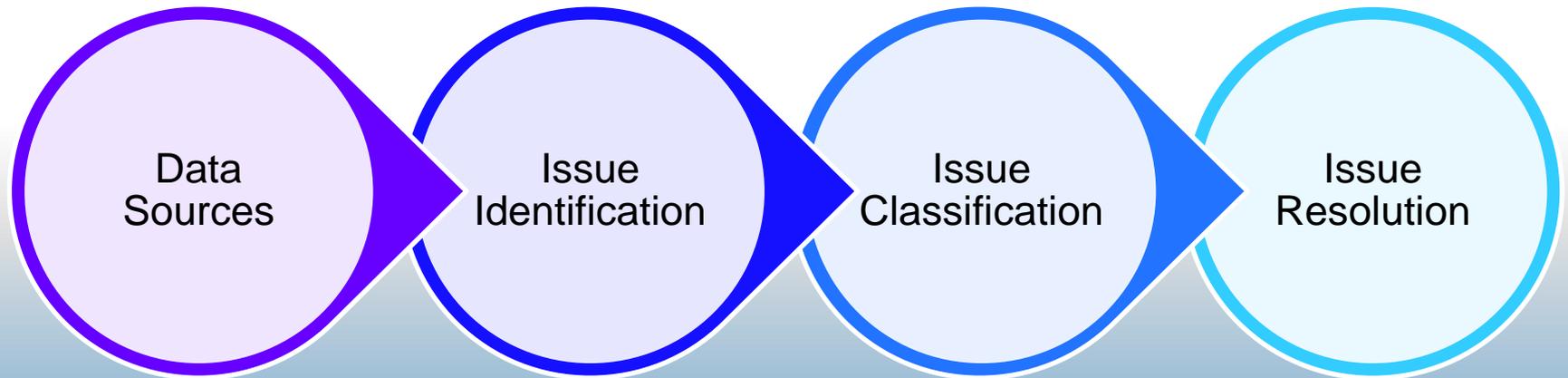
## Manufacturer's Product Life Cycle



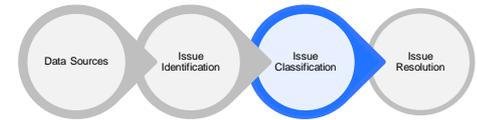
# BCA In-Service Safety Process



## In-Service Safety Process

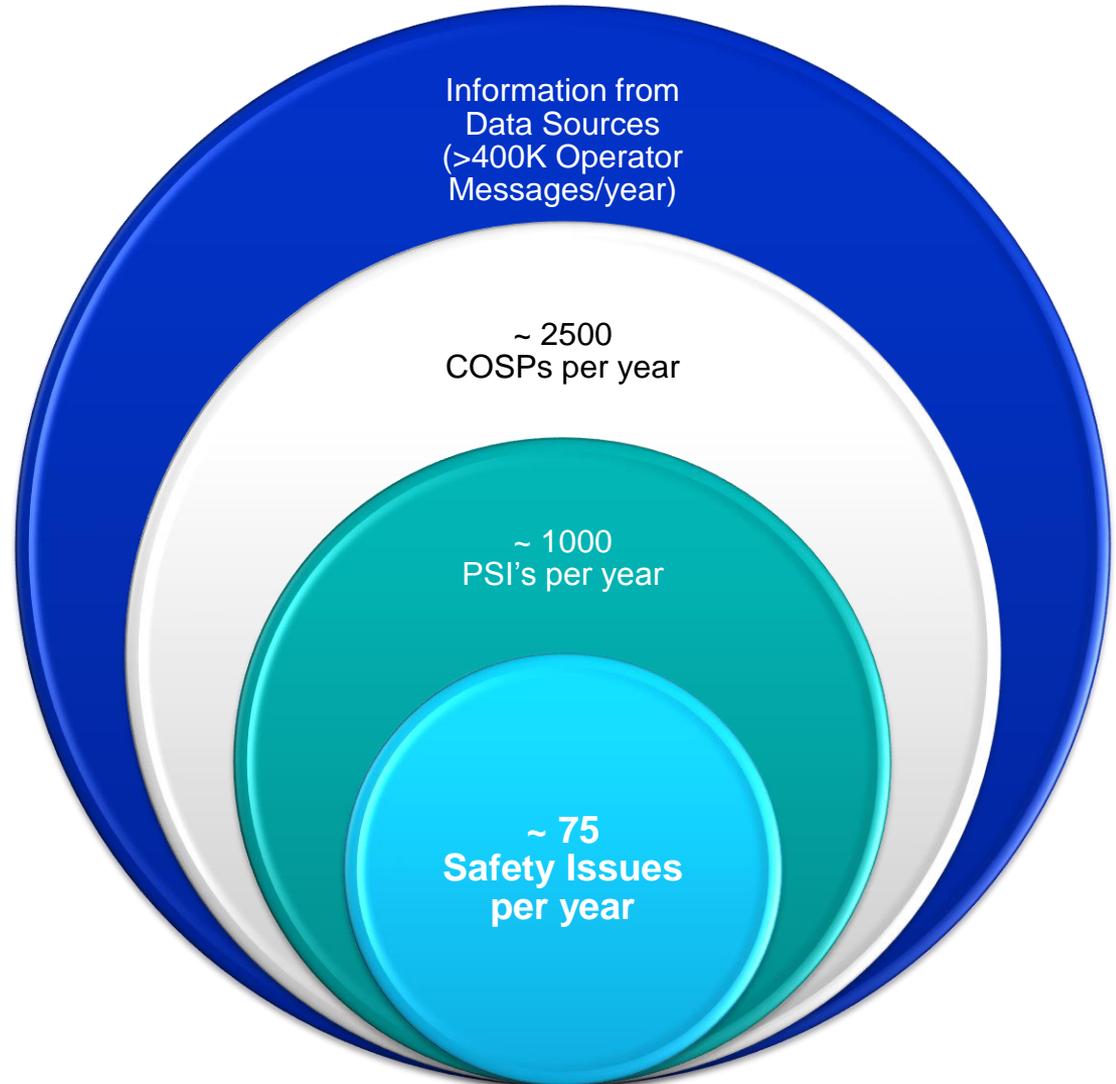


# BCA In-Service Safety Process

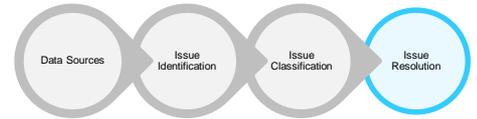


## Safety Process Output

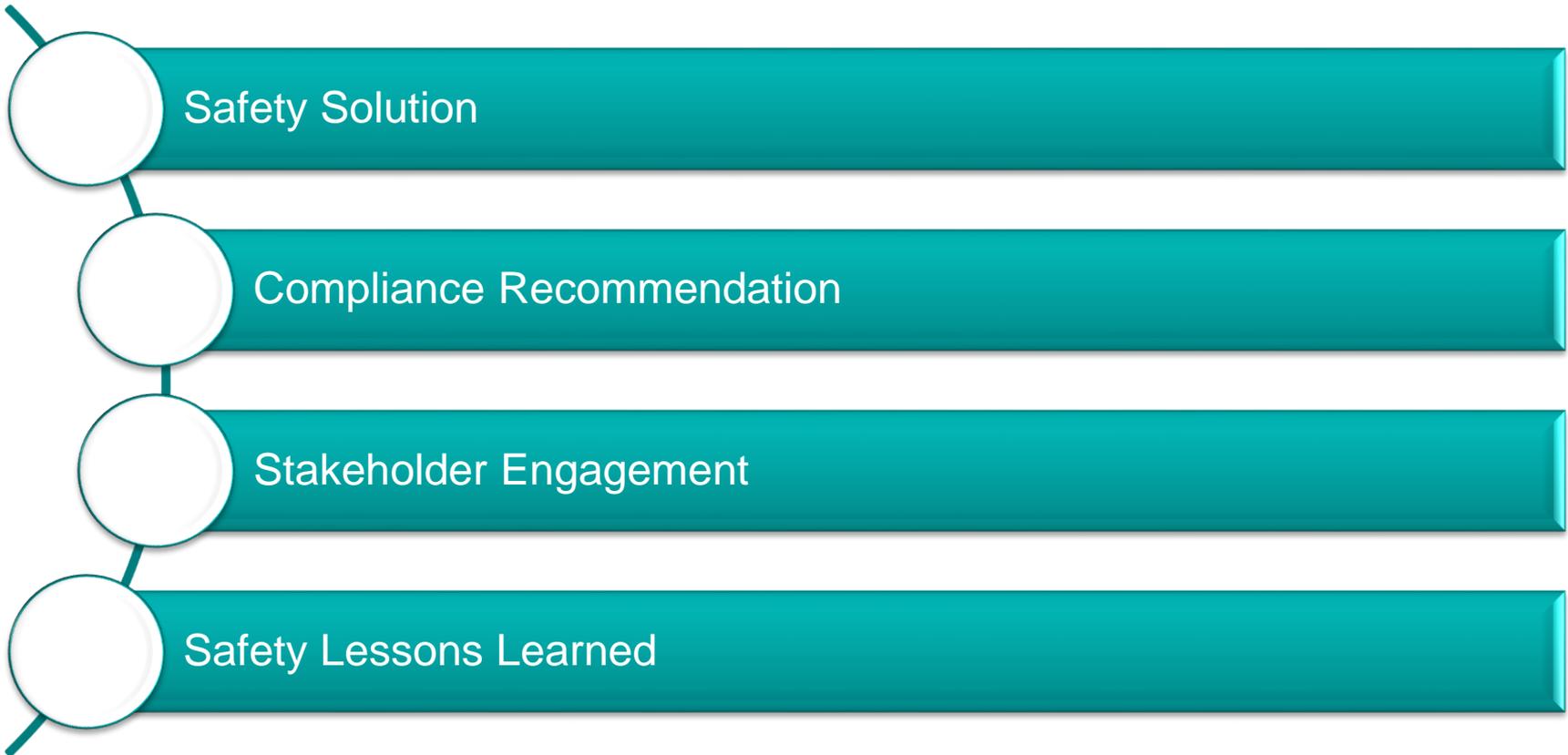
- For all decisions of “Safety”, an initial Fleet Risk Management plan will also be reviewed and approved



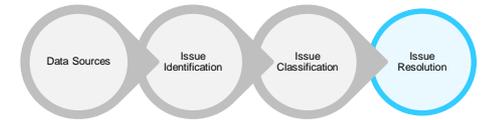
# BCA In-Service Safety Process



## Issue Resolution Process Elements



# BCA In-Service Safety Process

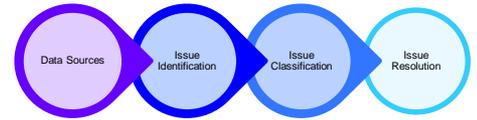


## Stakeholder Engagement

- Operator Engagement
  - Once a decision of ‘Safety’ is rendered, a Fleet Team Digest article is published. In some cases a Multi-Operator-Message communication is released.
  - Coordination of solution development and compliance time with the lead airline
- FAA Engagement
  - Solution and compliance coordination
  - Service Information approval
  - Regular Partnership Meetings between Boeing and FAA



# In Summary



## Boeing In-Service Safety Process Ensures the Continued Airworthiness of the Boeing Fleet through:

- Continuous monitoring of in-service product performance
- Proactively identify emerging safety concerns
- Robust, consistent process for making safety decisions
- Solution and risk management plan coordinated with regulatory agencies and operators
- Safety Lessons Learned process engaged to prevent reoccurrence



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# Questions?

