

Creating a Culture of Safety: The Essential Role of Voluntary Reporting

Sarbhpreet Sawhney

Senior Technical Advisor

Aviation Safety

Federal Aviation Administration



Safety Management – Safety Data Reporting in just Culture Environment

*Safety management is only as **effective** as the **culture** which enables information to flow into it and **impactful change** to flow out of it.*



ICAO Annex 19 highlights voluntary safety reporting systems as a critical component for a robust safety management system.

How do voluntary safety reporting programs contribute to SMS?

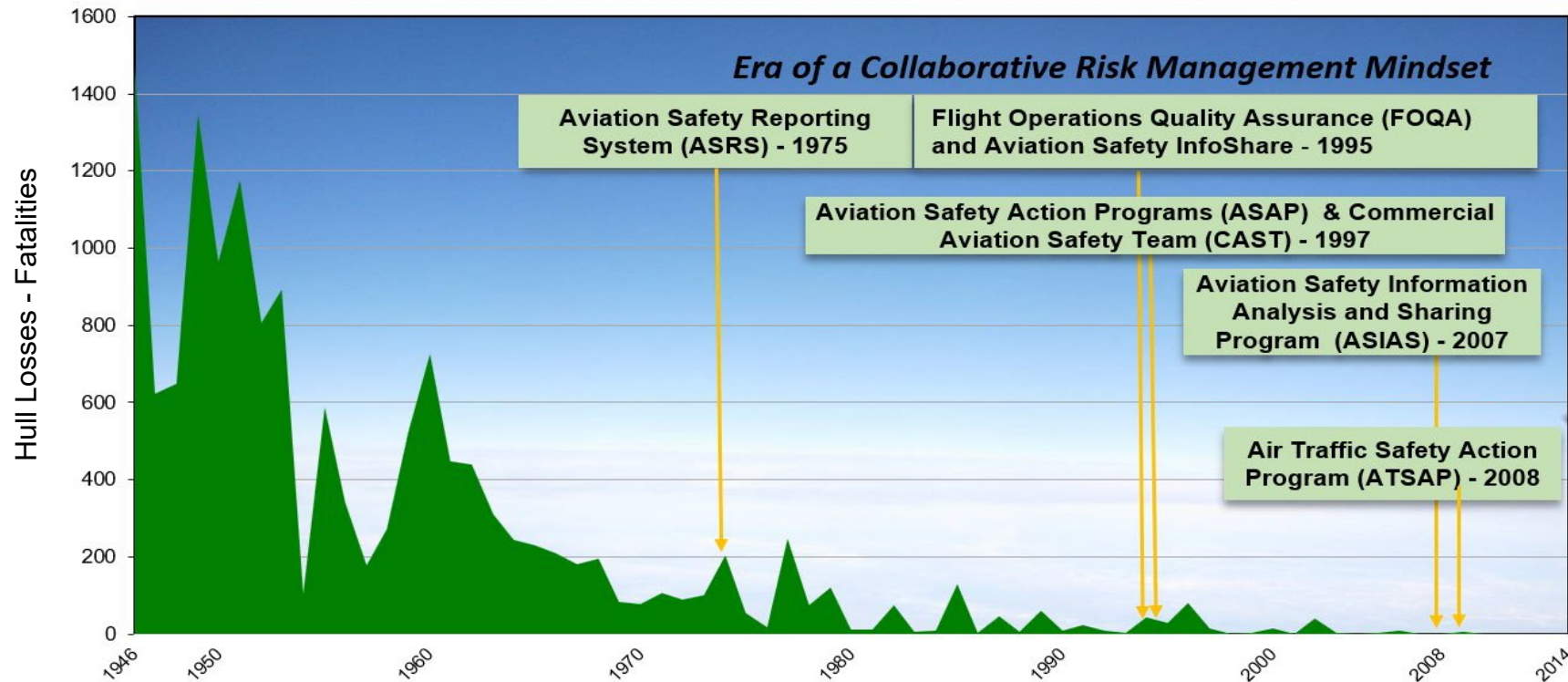
Voluntary safety reporting programs play a pivotal role in enhancing and sustaining a robust Safety Management System:

- Data-Informed Insights - Data Collection and Systemic Trend Analysis
- Early Identification of emerging hazards
- Root Cause Analysis
- Informed Policy and Procedure Development
- Building Trust and Communication – Increased Engagement and Accountability
- Continuous Improvement
- Fostering a Safety Culture

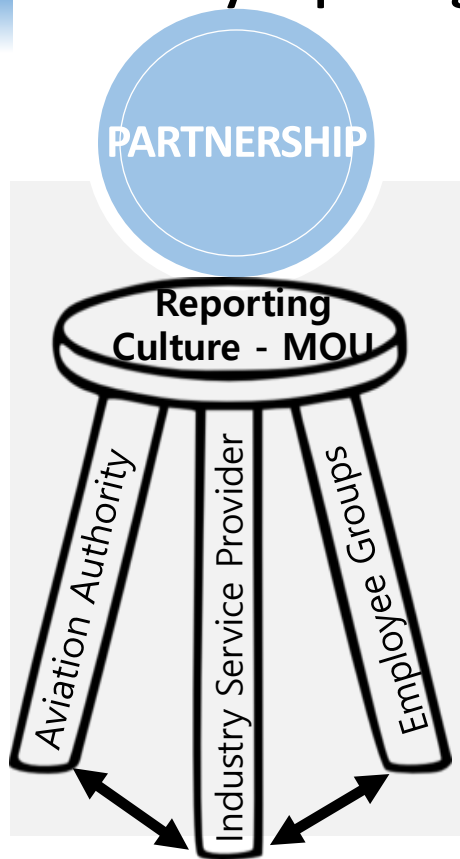
FAA Journey: Safety Culture Mindset In Aviation

REPORTING CULTURE AND ITS IMPACT ON SAFETY

BREAKTHROUGHS IN MAJOR ACCIDENT RATES SINCE 1946



Voluntary Reporting Culture



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Robust system for safety data reporting by aviation stakeholders.

- Clear procedures
- Non-punitive
- Confidential
- Data analysis
- Communication

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An underlying, management led positive **safety culture** that promotes voluntary reporting and establishes a community of learning.

Elements of a voluntary safety reporting program

By incorporating these elements, States and organizations can create a robust voluntary safety reporting program that not only enhances safety but also contributes to a positive safety culture.

- Management Commitment – State Legislation
- Non-Punitive Reporting Environment
- Confidentiality
- Accessibility
- Awareness and Training
- Feedback Mechanism
- Analysis and Action
- Integration with Safety Management System
- Metrics and Evaluation

Governing Voluntary Reporting Programs

CORE OPERATING PRINCIPLES

non-punitive

use of data
and shared
information



data are
de-identified



**voluntary
participation**



analyses
**approved by
consensus**

**consensus
based
governance**



**transparency
of data
management**

data used solely for
**advancement
of safety**



Note: Non-punitive does not mean blatant violations are not addressed; such as in the case of reports associated with criminal activity, substance abuse, controlled substances, alcohol, or intentional falsification.

Reference – [FAA Advisory Circular 120-66](#)

Voluntary Reporting – Data Examples

SAFETY DATA



Aviation Safety Reports
625K+ reports

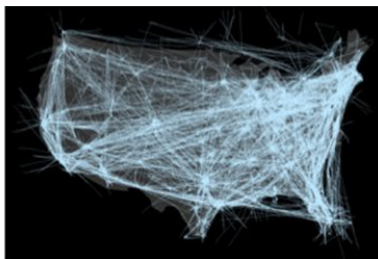


Digital Aircraft Data
32M+ flights



ATC Safety Reports
168K+ reports

**Confidential
Safety Data**



FAA Radar Data
120M+ flights



Weather Data



Procedures, Airspace and
Infrastructure Data

**Government/
Public
Safety Data**

2025 Korea Aviation Safety Forum

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Thank you!

