

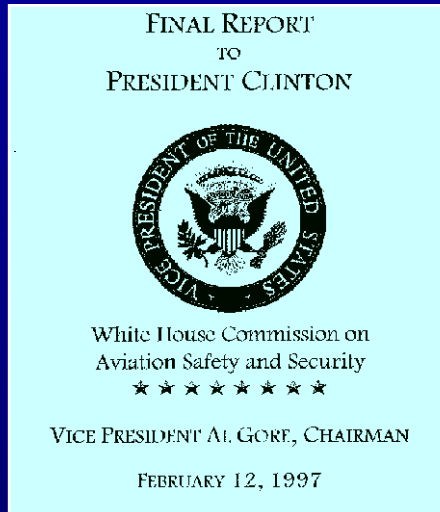


Commercial Aviation Safety Team (CAST)

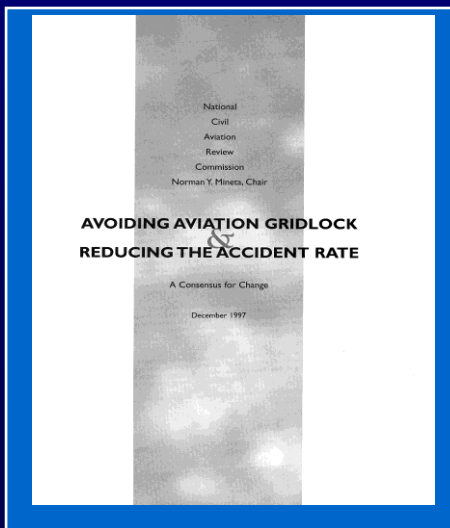
Update

APRAST/8 March 2016
Ranee Carr Elter, FAA

In the U.S., our focus was set by the White House Commission on Aviation Safety, and The National Civil Aviation Review Commission (NCARC)

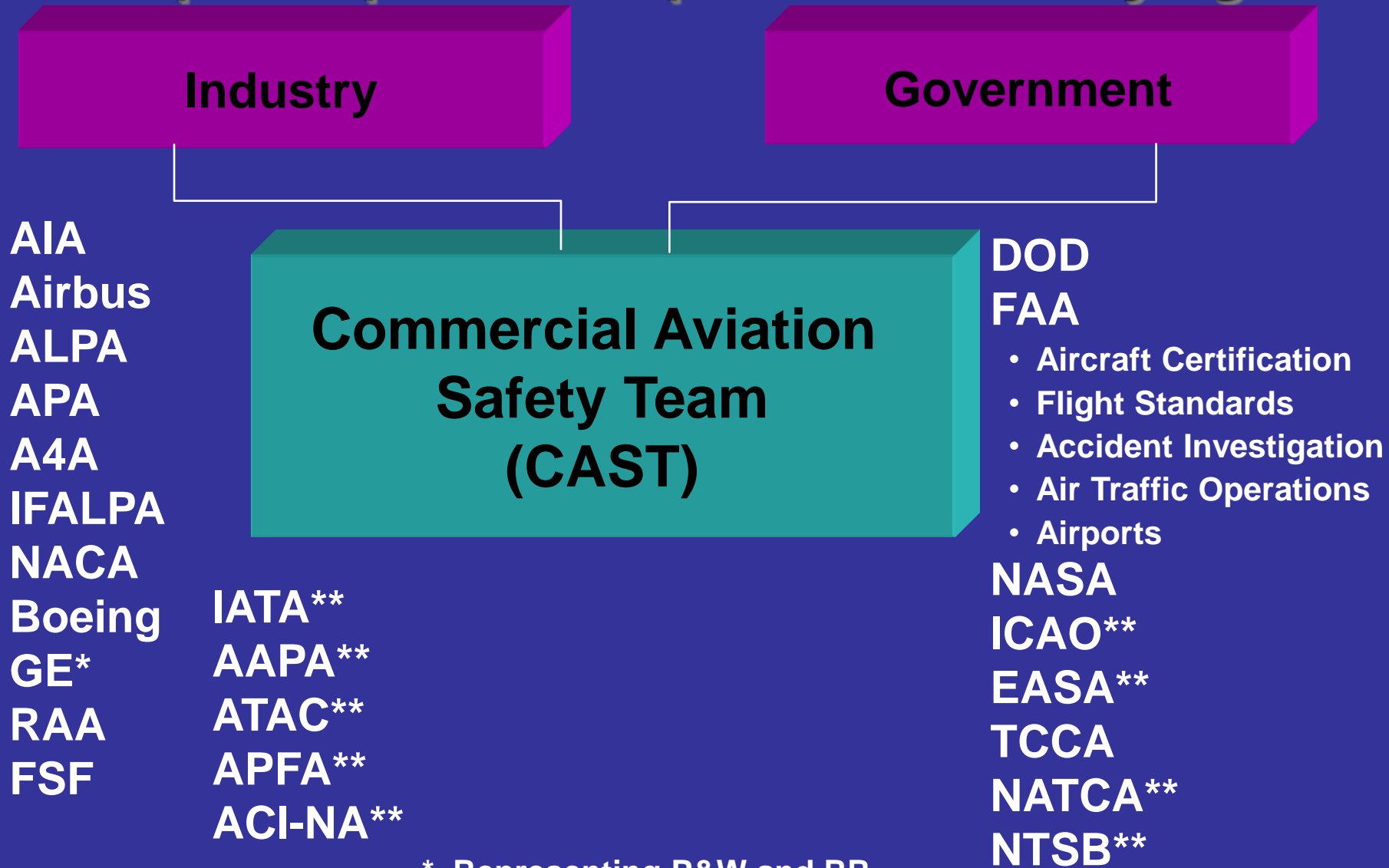


1.1 . . . Reduce Fatal Accident Rate . . .



- . . . Strategic Plan to Improve Safety . . .
- . . . Improve Safety Worldwide . . .

CAST brings key stakeholders to cooperatively develop & implement a prioritized safety agenda



* Representing P&W and RR

** Observer

Vision - Mission - Goals



Vision

- Key aviation stakeholders acting cooperatively to lead the world-wide aviation community to the highest levels of global commercial aviation safety by focusing on the right things.

Mission

- Enable a continuous improvement framework built on the proactive identification of current and future risks, developing mitigations as needed and monitoring the effectiveness of implemented actions.

Goal

- Reduce the U.S. commercial aviation fatality risk by at least 50% from 2010 to 2025
- and
- Continue to work with our international partners to reduce fatality risk world-wide commercial aviation.

CAST Safety Strategy

**Data
Analysis**

*Agree on
problems and
interventions*

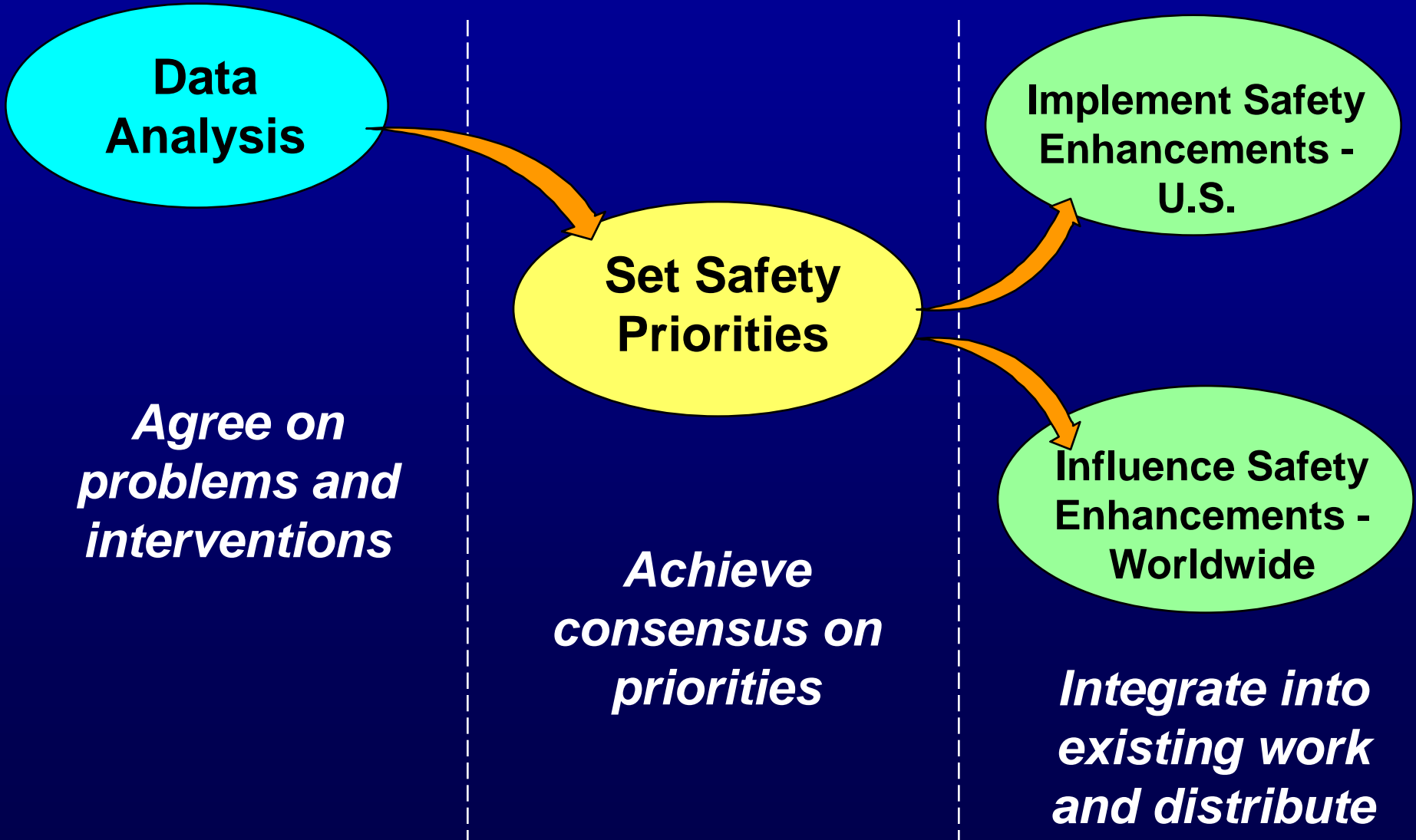
**Set Safety
Priorities**

*Achieve
consensus on
priorities*

**Implement Safety
Enhancements -
U.S.**

**Influence Safety
Enhancements -
Worldwide**

*Integrate into
existing work
and distribute*





CAST Organization

Joint Safety Analysis Teams (JSAT)

- Data analyses

Joint Safety Implementation Teams (JSIT)

- Safety enhancement development

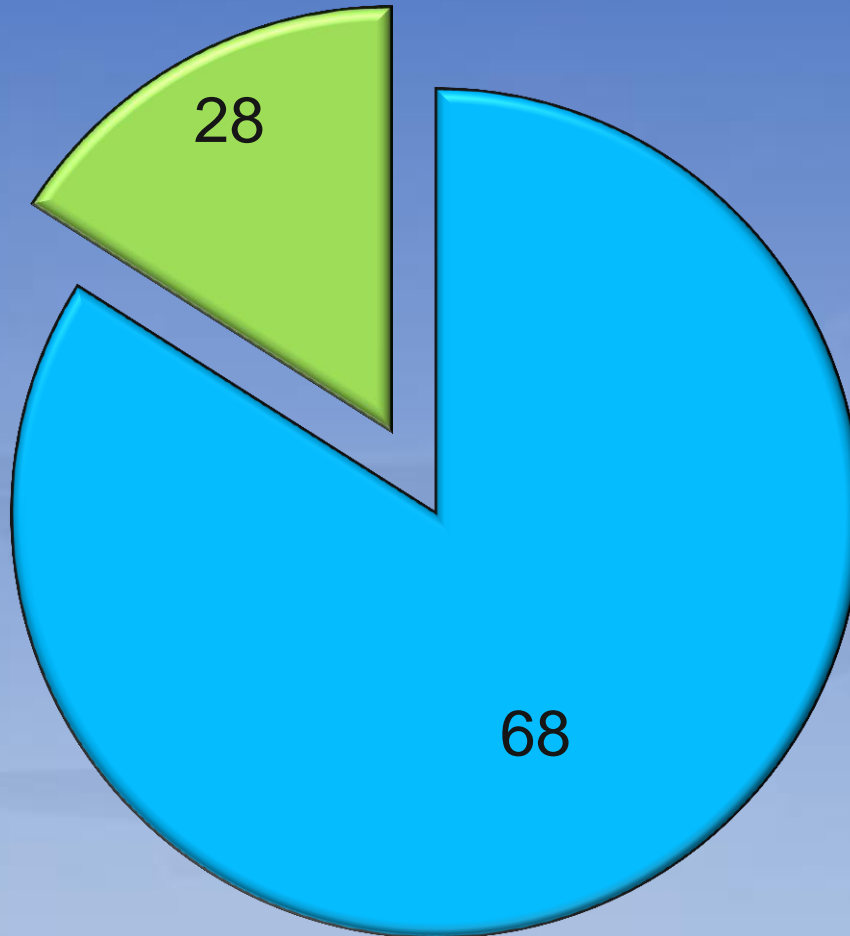
Joint Safety Analysis and Implementation Teams (JSAIT)

- Consolidated data analyses and safety enhancement development team

Joint Implementation Measurement Data Analysis Team (JIMDAT)

- Master safety plan
- Enhancement effectiveness
- Future areas of study and emerging risks

CAST – Safety Enhancements



96 Safety Enhancements
68 Complete – 71%
28 Underway – 29%

- Completed
- Underway

2025 Plan Risk Reduction Estimate

50 %



Recent CAST Safety Enhancements Issued



Airplane State Awareness

- Previously completed JSIT
 - 19 new Safety Enhancements (SEs 192-211)

RNAV-Departures and STARs

- Recently completed JSAIT
 - 3 new Safety Enhancements (SEs 212-214)

Runway Excursions

- Recently Completed JSAIT
 - 8 new Safety Enhancements (SEs 215-222)

Takeoff Misconfiguration

- Analysis Underway

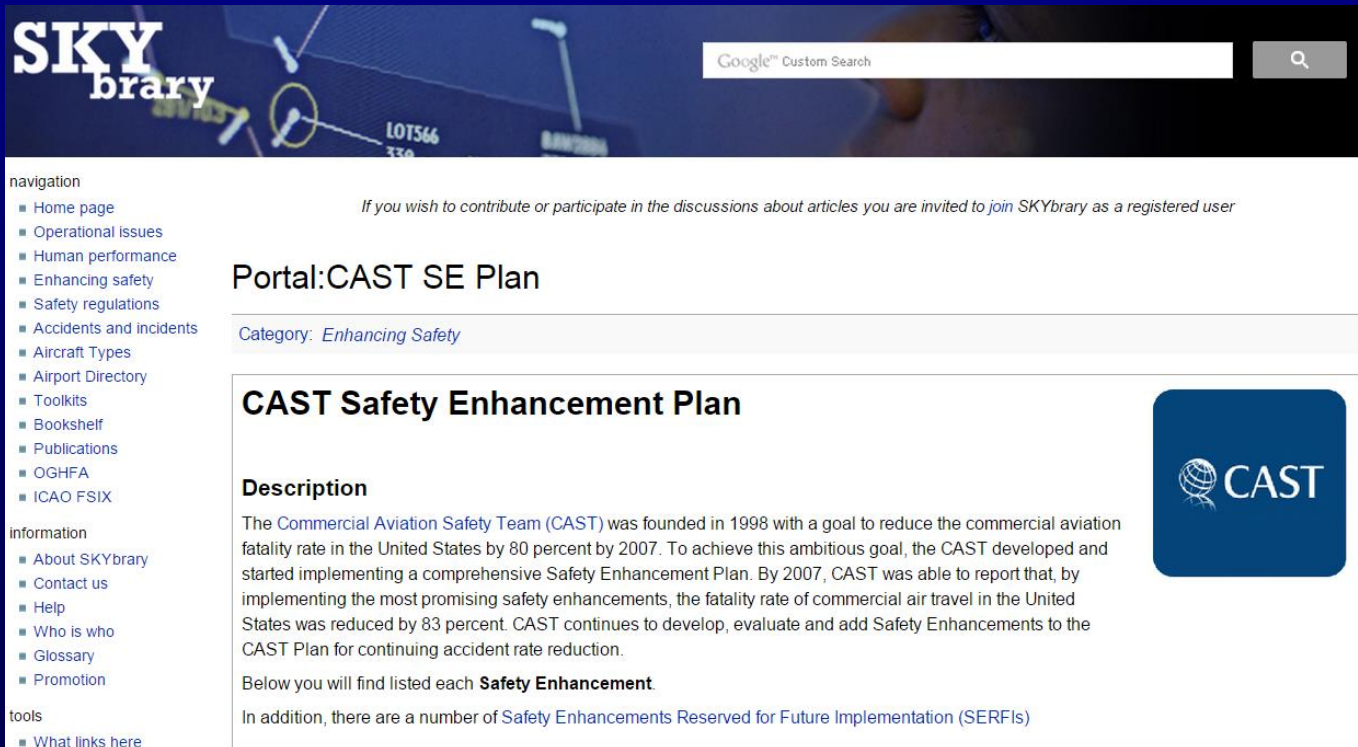
Safety Enhancements available on Skybrary:

http://www.skybrary.aero/index.php/Portal:CAST_SE_Plan

CAST

CAST Safety Enhancement Plan and details of all Safety Enhancements can be found at:

http://www.skybrary.aero/index.php/Portal:CAST_SE_Plan



The screenshot shows the SKYbrary website interface. At the top left is the SKYbrary logo. To the right is a search bar with the text "Google™ Custom Search" and a magnifying glass icon. Below the header is a navigation menu with the following items: Home page, Operational issues, Human performance, Enhancing safety, Safety regulations, Accidents and incidents, Aircraft Types, Airport Directory, Toolkits, Bookshelf, Publications, OGHFA, and ICAO FSIX. Below the navigation menu is a section for "information" with links to About SKYbrary, Contact us, Help, Who is who, Glossary, and Promotion. At the bottom left is a "tools" section with a link to "What links here". The main content area features a heading "Portal:CAST SE Plan" and a sub-heading "Category: Enhancing Safety". Below this is a section titled "CAST Safety Enhancement Plan" with a "Description" sub-section. The description text reads: "The Commercial Aviation Safety Team (CAST) was founded in 1998 with a goal to reduce the commercial aviation fatality rate in the United States by 80 percent by 2007. To achieve this ambitious goal, the CAST developed and started implementing a comprehensive Safety Enhancement Plan. By 2007, CAST was able to report that, by implementing the most promising safety enhancements, the fatality rate of commercial air travel in the United States was reduced by 83 percent. CAST continues to develop, evaluate and add Safety Enhancements to the CAST Plan for continuing accident rate reduction." Below the description is a note: "Below you will find listed each **Safety Enhancement**". At the bottom of the main content area, it says: "In addition, there are a number of Safety Enhancements Reserved for Future Implementation (SERFIs)". On the right side of the main content area is a blue square logo with a globe icon and the text "CAST".

SKYbrary

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navigation

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- Enhancing safety
- Safety regulations
- Accidents and incidents
- Aircraft Types
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Portal:CAST SE Plan

Category: *Enhancing Safety*


CAST Safety Enhancement Plan

Description

The Commercial Aviation Safety Team (CAST) was founded in 1998 with a goal to reduce the commercial aviation fatality rate in the United States by 80 percent by 2007. To achieve this ambitious goal, the CAST developed and started implementing a comprehensive Safety Enhancement Plan. By 2007, CAST was able to report that, by implementing the most promising safety enhancements, the fatality rate of commercial air travel in the United States was reduced by 83 percent. CAST continues to develop, evaluate and add Safety Enhancements to the CAST Plan for continuing accident rate reduction.

Below you will find listed each **Safety Enhancement**

In addition, there are a number of Safety Enhancements Reserved for Future Implementation (SERFIs)





CAST International Outreach





CAST Role in the Regions

- Work with States or regional safety teams to introduce CAST to the regional aviation community.
- Work with interested parties to build momentum for safety initiatives.
- Provide detailed CAST safety plan information based on regional risk data at official meetings.
- Provide assistance in tailoring CAST safety enhancements to each regional environment.
- Work with States or regional safety teams to adopt CAST Safety Enhancements (SE)



RASG-APAC, CAST Partnership

- In 2013, RASG-APAC and CAST finalized information sharing agreement to allow exchange of aggregate de-identified trend information for operations to RASG-APAC member selected airports
 - *De-identified is defined as analysis which has been stripped of any information concerning the identity of any and all crew, crew member, employee and airline-specific information*
 - Seven APRAST meetings since entering this agreement
 - Restructuring of APRAST subteams (SEI-WG, SRP WG) helps support this agreement
- Agreement allows capability to compare operations in the APAC region to U.S. industry norms relative to safety issues identified through queries and aggregate results of de-identified digital flight data, de-identified safety reports and other available safety information.
- All trend information and analysis results are protected by RASG-APAC (and APRAST) members = no information or analyses will not be publicly shared or not shared with any party not participating in this activity. Additionally, APRAST SEI implementation and progress information is shared with CAST.

