



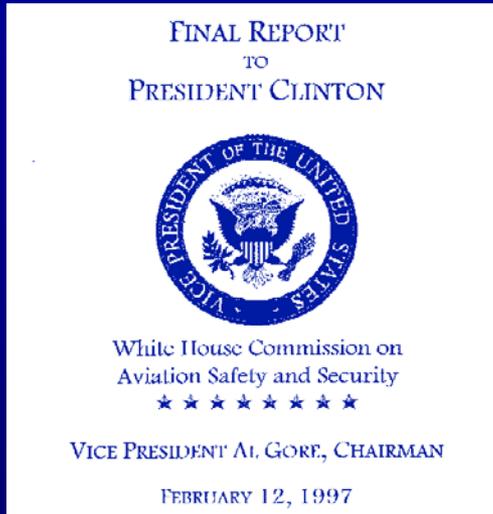
Commercial Aviation Safety Team (CAST)

Overview

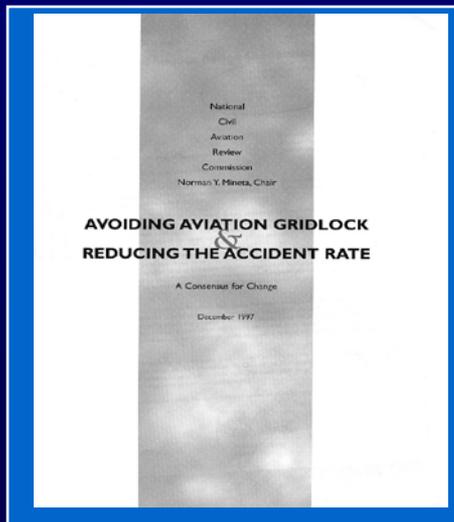
PA-RAST

September, 2016

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

Industry

Government

**Commercial Aviation
Safety Team
(CAST)**

- AIA
- Airbus
- ALPA
- APA
- A4A
- IFALPA
- NACA
- Boeing
- GE*
- RAA
- FSF

- IATA**
- AAPA**
- ATAC**
- APFA**
- ACI-NA**

- DOD
- FAA
 - Aircraft Certification
 - Flight Standards
 - Accident Investigation
 - Air Traffic Operations
 - Airports
- NASA
- ICAO**
- EASA
- TCCA
- NATCA**
- NTSB**

* 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

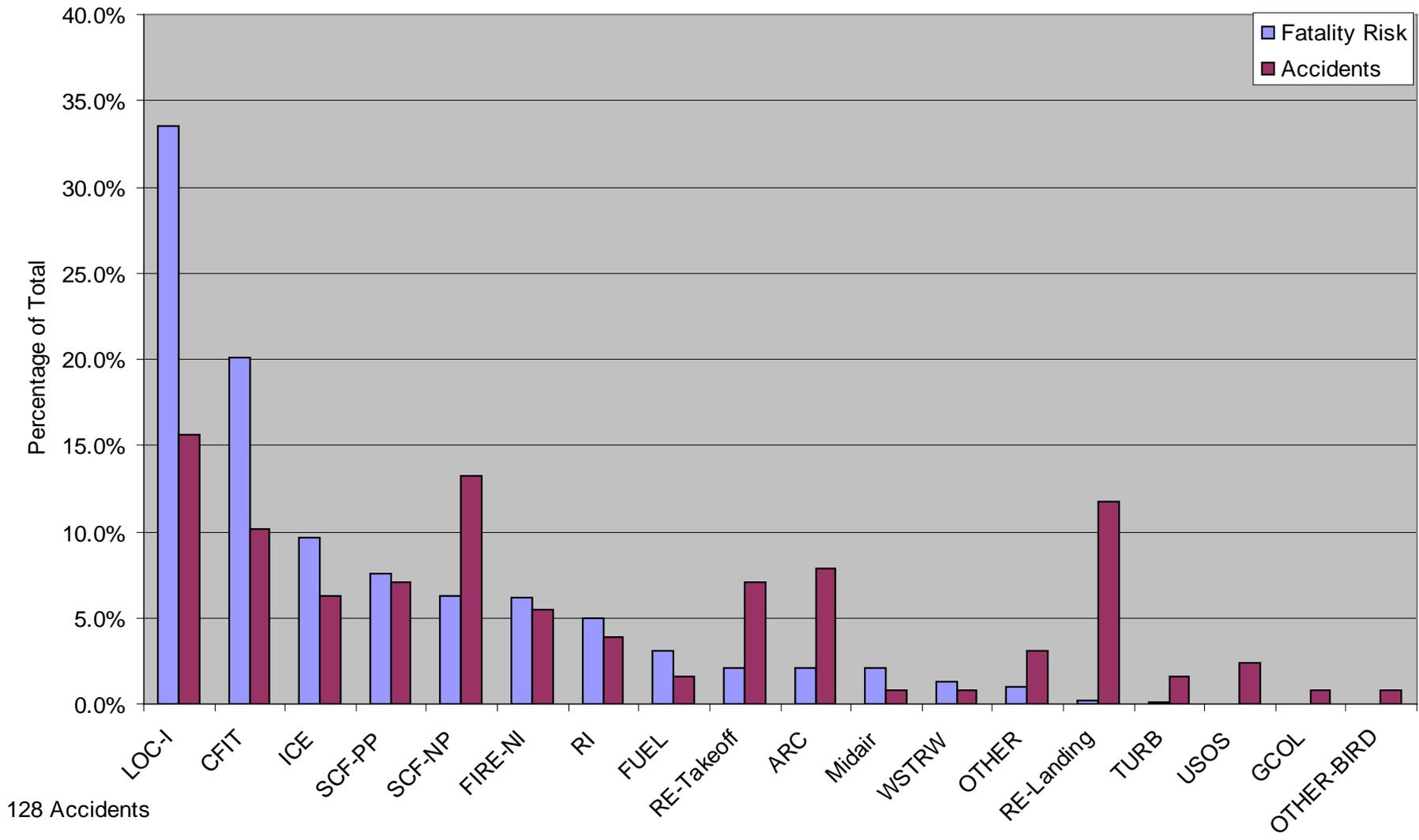
- Enable a continuous improvement framework built on the proactive identification of current and future risks, developing mitigations as needed and monitoring the effectiveness of implemented actions.

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.



1987-2011 Part 121 Hull Loss and Fatal Accidents



128 Accidents

CAST

Safety Strategy

**Data
Analysis**

*Agree on
problems and
interventions*

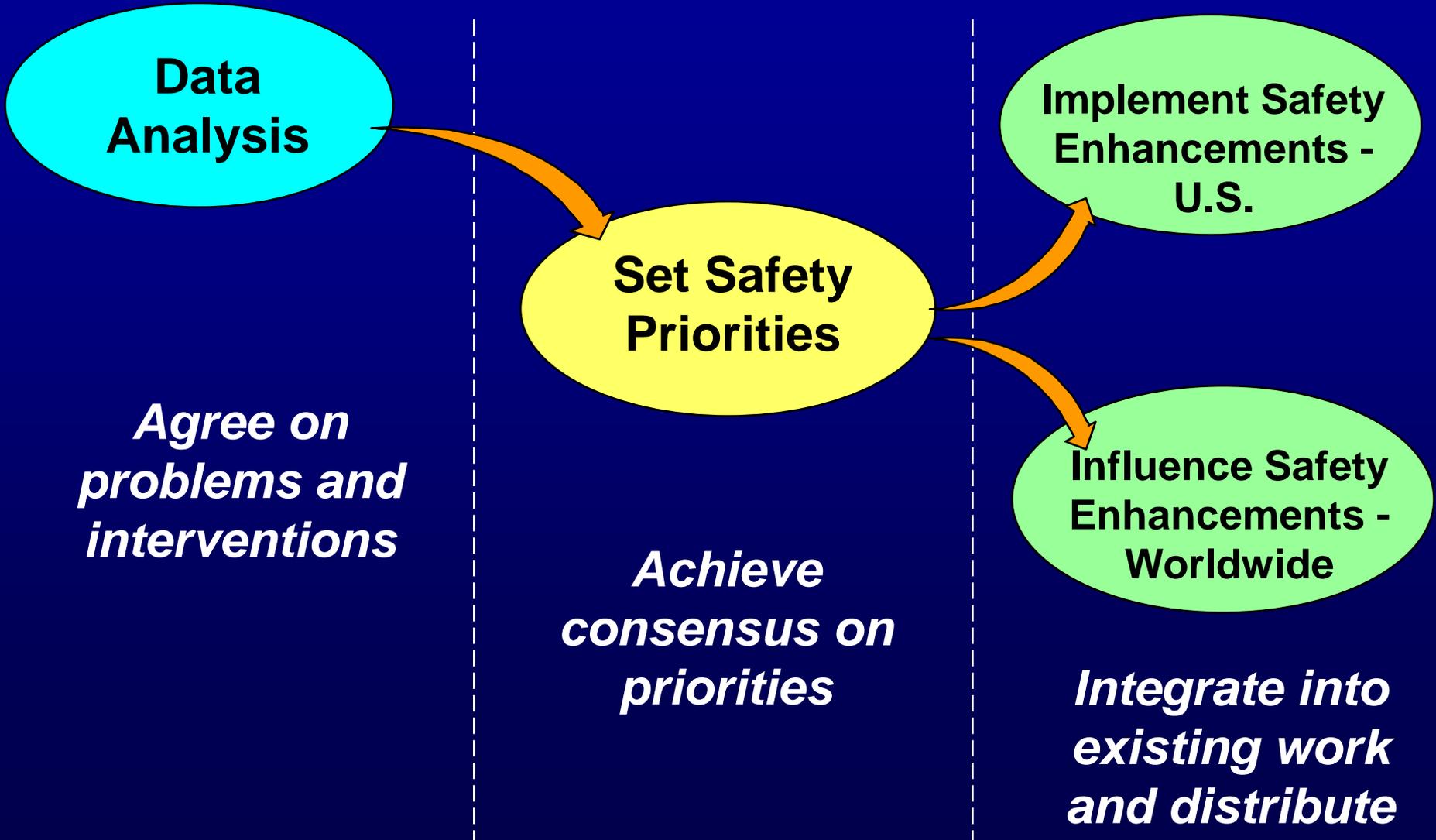
**Set Safety
Priorities**

*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

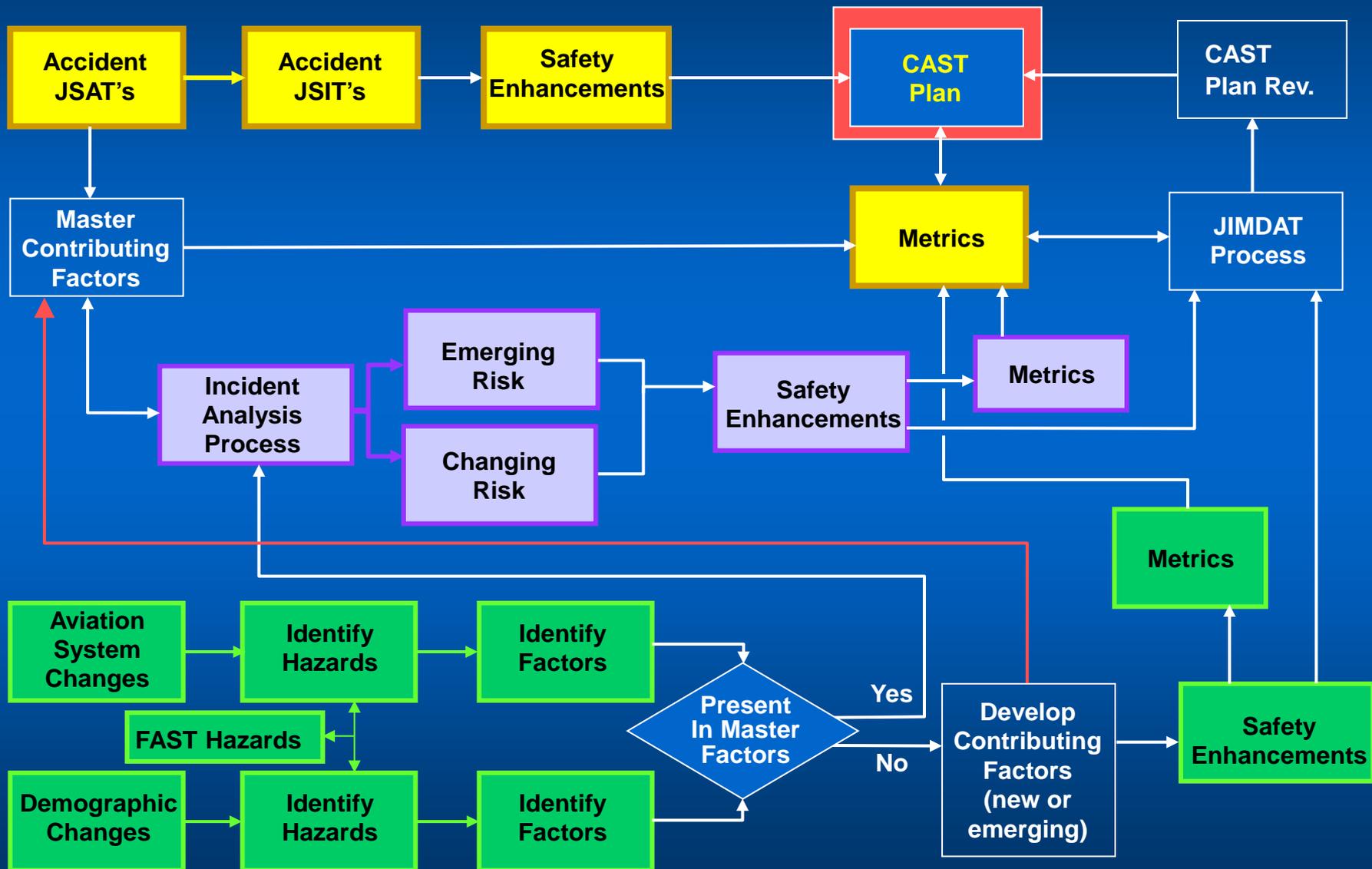
Joint Safety Analysis and Implementation Teams (JSAIT)

- Consolidated data analyses and safety enhancement development team

Joint Implementation Measurement Data Analysis Team (JIMDAT)

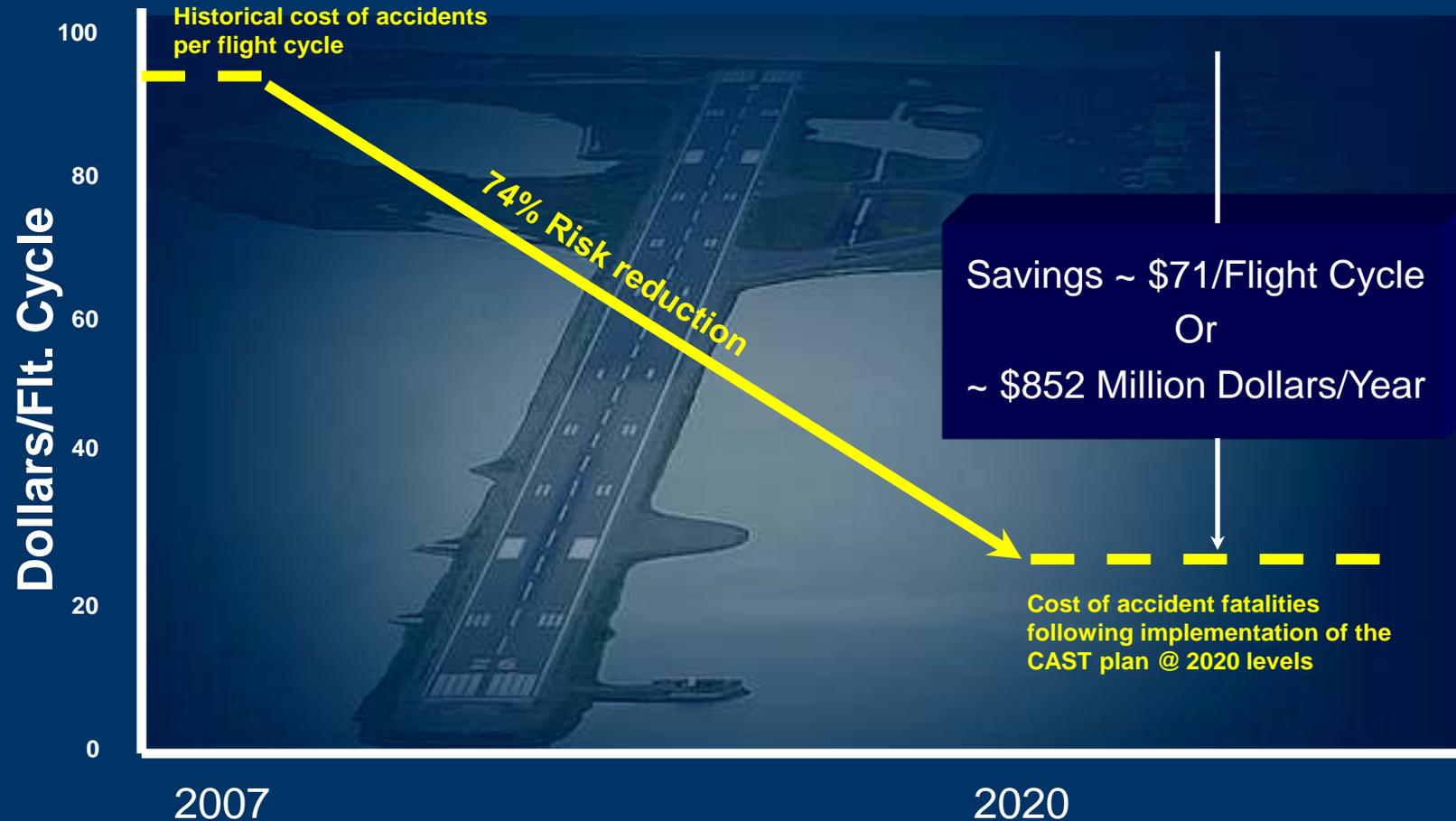
- Master safety plan
- Enhancement effectiveness
- Future areas of study and emerging risks

Safety Plan Development



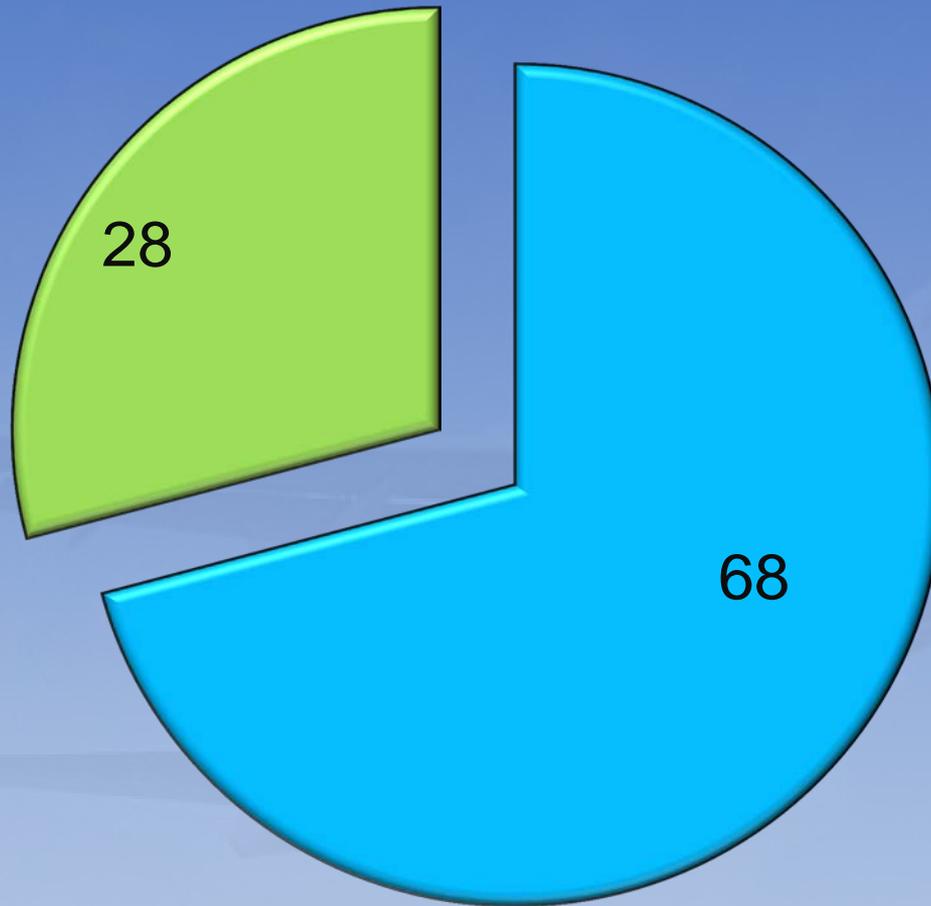
Cost Savings

Part 121 Aviation Industry Cost Due to Fatal/Hull Loss Accidents





CAST – Safety Enhancements



96 Safety Enhancements
68 Complete
28 Underway

■ Completed

■ Underway



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)

Misconfiguration

- Analysis underway, set to conclude in the next few months

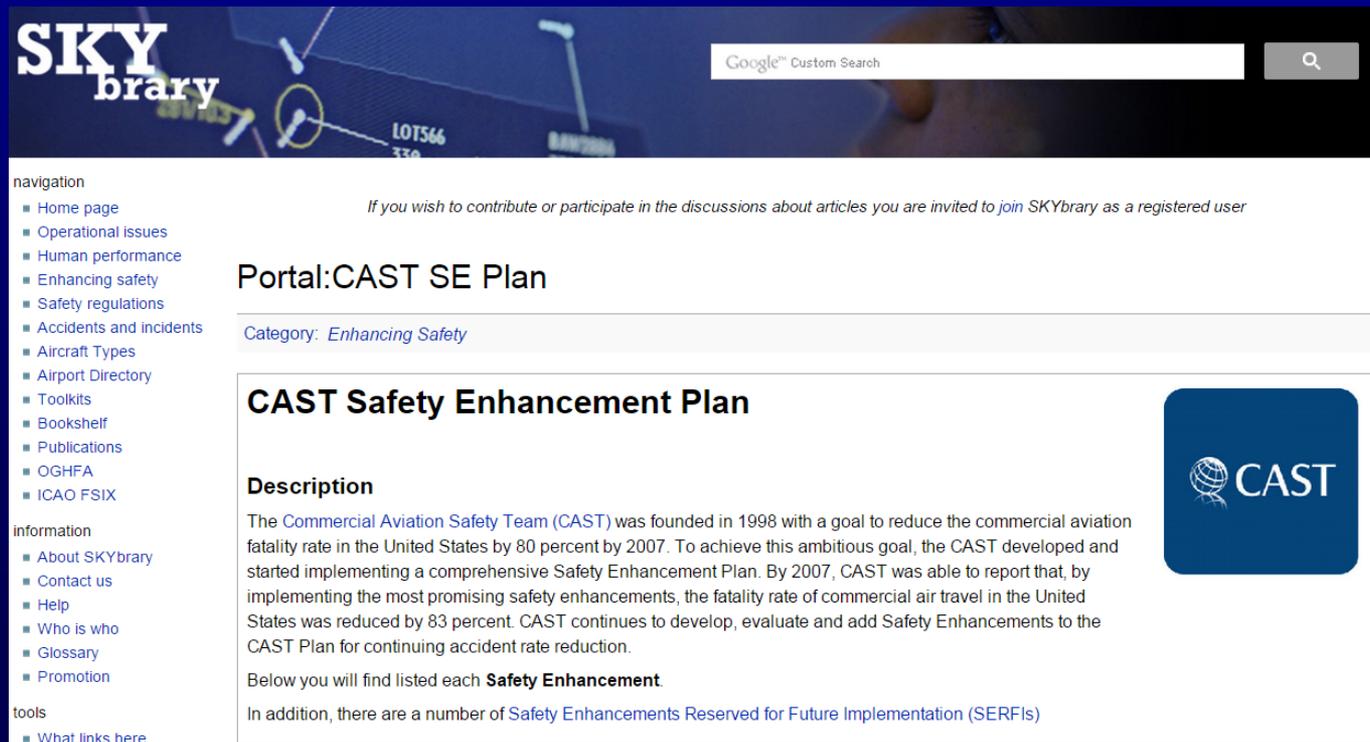
Safety Enhancements available on Skybrary:

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 labeled "Google™ Custom Search". Below the header is a navigation menu with categories like Home page, Operational issues, Human performance, etc. The main content area displays the article "Portal:CAST SE Plan" with a category of "Enhancing Safety". The article title is "CAST Safety Enhancement Plan". Under the "Description" section, it states: "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, it says "Below you will find listed each Safety Enhancement" and "In addition, there are a number of Safety Enhancements Reserved for Future Implementation (SERFIs)". A CAST logo is visible on the right side of the article content.

SKYbrary

Google™ Custom Search

navigation

- Home page
- Operational issues
- Human performance
- Enhancing safety
- Safety regulations
- Accidents and incidents
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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 Engagement Criteria



- Safety Value
 - CAST's effort will provide an opportunity to improve safety within the region
- Infrastructure
 - The region has an established infrastructure to enable the implementation of safety improvements
- Partnerships
 - The region has established a government and industry partnership to influence change and establish their own safety goals

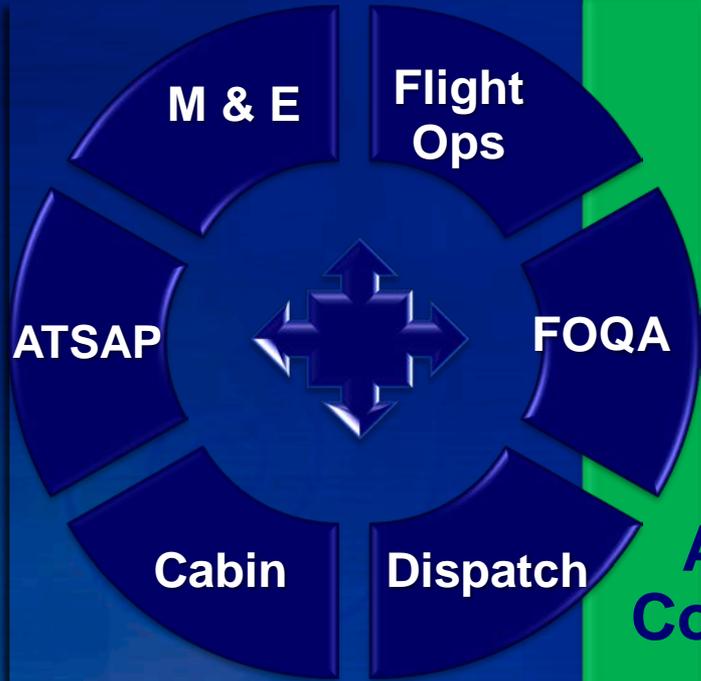


InfoShare



- InfoShare is a semiannual Industry-sponsored, FAA facilitated event for airline safety professionals, manufacturers, and the FAA to share safety issues, lessons learned and mitigation strategies, in a protected environment.
- Focused largely on operational safety issues, but airplane design is always an underlying issue.
- Next meeting will be held March 15-17
- InfoShare generates many issues to JIMDAT to perform risk assessment.

The success of information sharing relies on collaboration among voluntary safety programs



**Aviation
Community**

Emerging Safety
Concerns
Share Best
Practices



ASIAS

Analysis and
Monitoring +
Vulnerability
Discovery



CAST

Safety
Enhancement
Implementation



Guideline
Criteria C 1.1

Study Prioritization (Fleet Risk)

