

Transforming General Aviation Safety Five-Year Strategy

Flight Standards Service

General Aviation and Commercial Division, AFS-800

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Federal Aviation
Administration



Overview of Five-Year Strategy

- **General Aviation Vision**
- **Need for Transformation**
- **Non-regulatory Strategic Approach**
- **Two-year Review**



Vision

**To transform General Aviation safety
and reduce the fatal accident rate
to an unprecedented low level.**



Why is a Transformation Necessary?

- In 2010, the GA fatal accident rate was 1.14 accidents per 100,000 hours flown, or 268 accidents
- Over the past several years, the GA accident rate as a whole has basically been static with only very minor improvements
- We can do better by working with the GA community within legal boundaries and without rulemaking

**General Aviation is one of the FAA's
last unresolved safety challenges**



Overarching Fatal Accident Prevention Strategy

- A concentrated and focused outreach, training, and engagement strategy to produce the desired internal and external culture change will result in a previously unachievable accident reduction in the GA community.

History has shown that a focused and committed effort by the FAA and the community produces the desired objective

- The overall strategies are based on:
 - Identification of the risk (correcting and analyzing the data)
 - Mitigation of the risk utilizing training and outreach
 - Working across the general aviation community

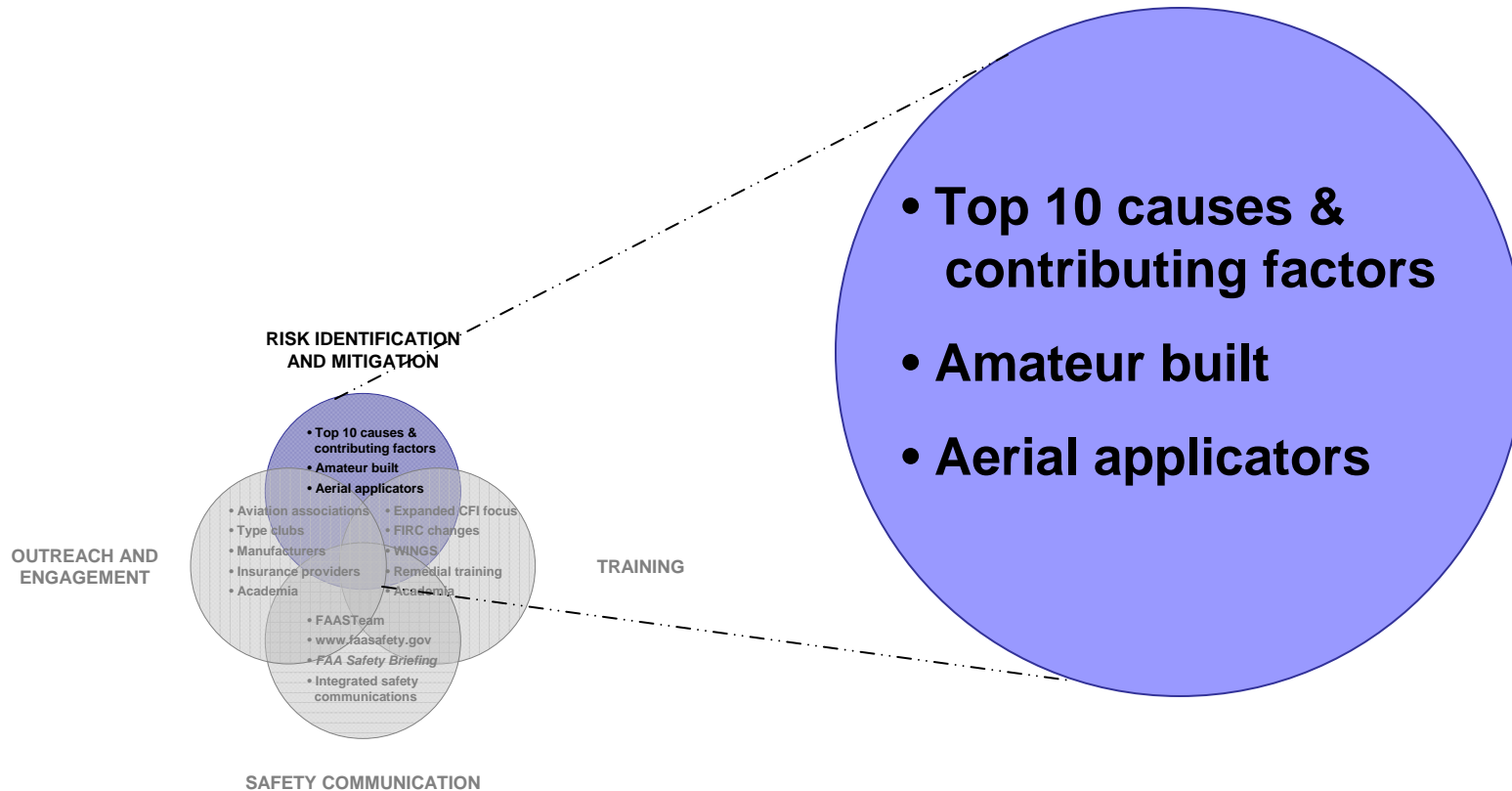


Transformation Approach

RISK MANAGEMENT (Identification and Mitigation)



Risk Management



Risk Identification and Mitigation: Near Term

- ✓ Identify top ten causes of fatal accidents
- ✓ Identify the leading contributing factors

Mine data to address highest risk areas and achieve greatest safety benefits*

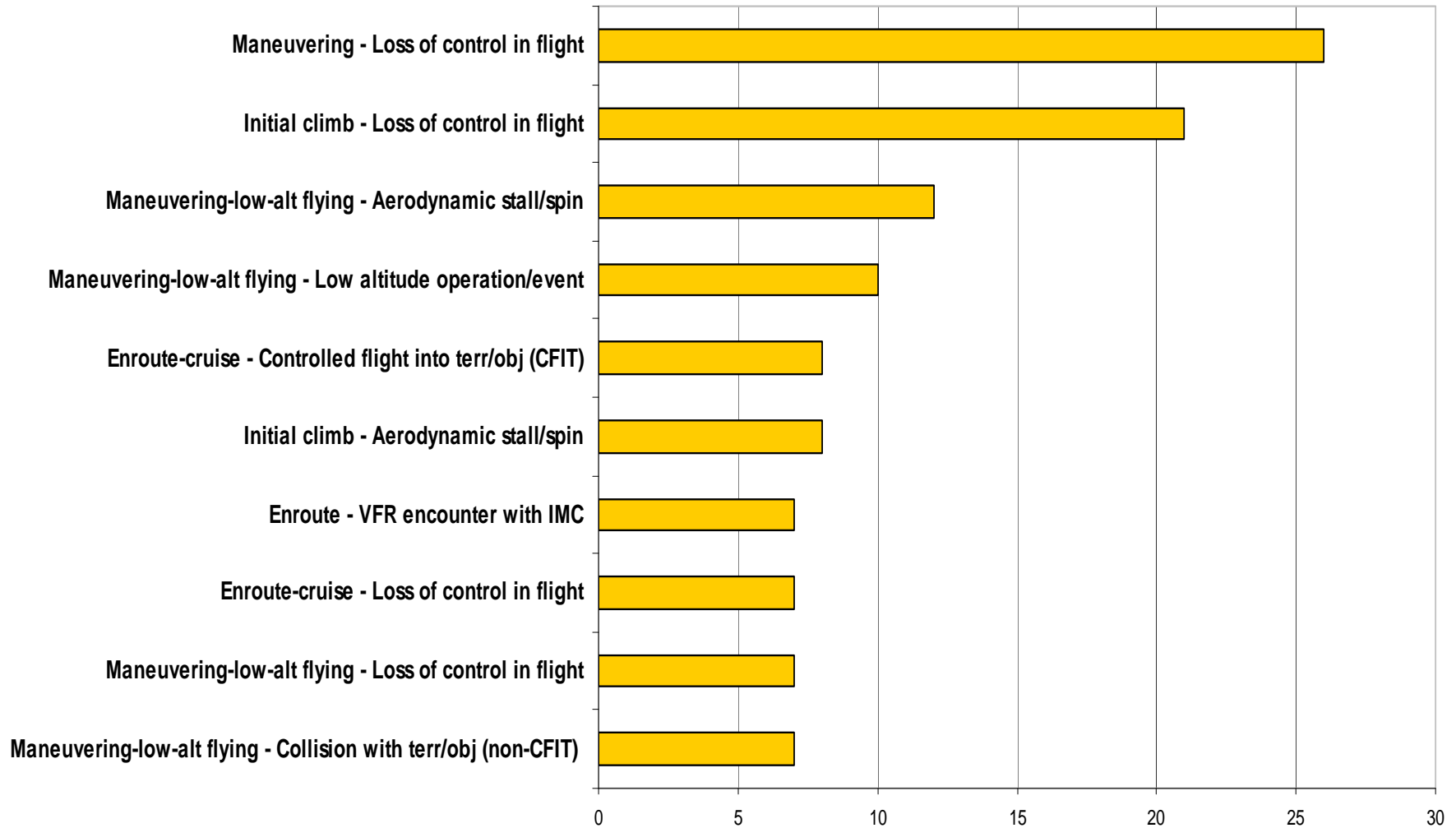
Reach out, and listen, to GA community and its organizations to receive input on possible improvements and other options

Develop and implement general mitigation strategies

- * These first years, we concentrate on generalized improvements throughout the GA community while we (FAA & industry) mine data for more specific future interventions



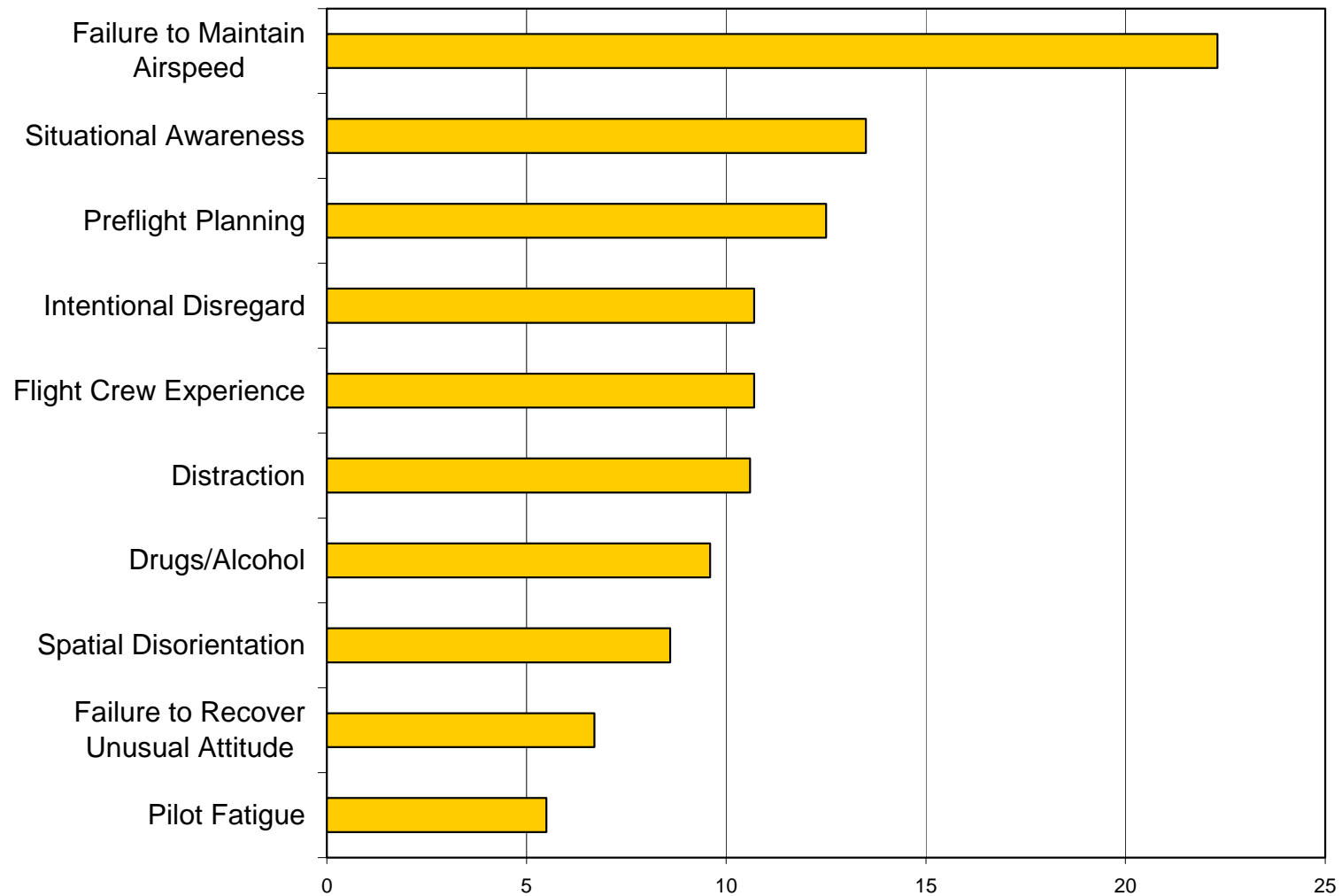
Top Ten GA Accident Causes*



* 2008-2009. Data consistent with the 2009 Nall Report.



Top Ten GA Accident Contributing Factors



Risk Identification and Mitigation: Long Term

- GA JSC* and CAST** model will allow analysis of the data to identify the specific interventions that provide the “biggest bang for the buck”
- Develop richer data sources and further refine data mining capabilities
- Encourage and broaden involvement across aviation community to ensure validation of data and interventions
- Implement highly targeted mitigations as identified through GA JSC and CAST
- Continuously measure results

*General Aviation Joint Steering committee **Commercial Aviation Safety Team

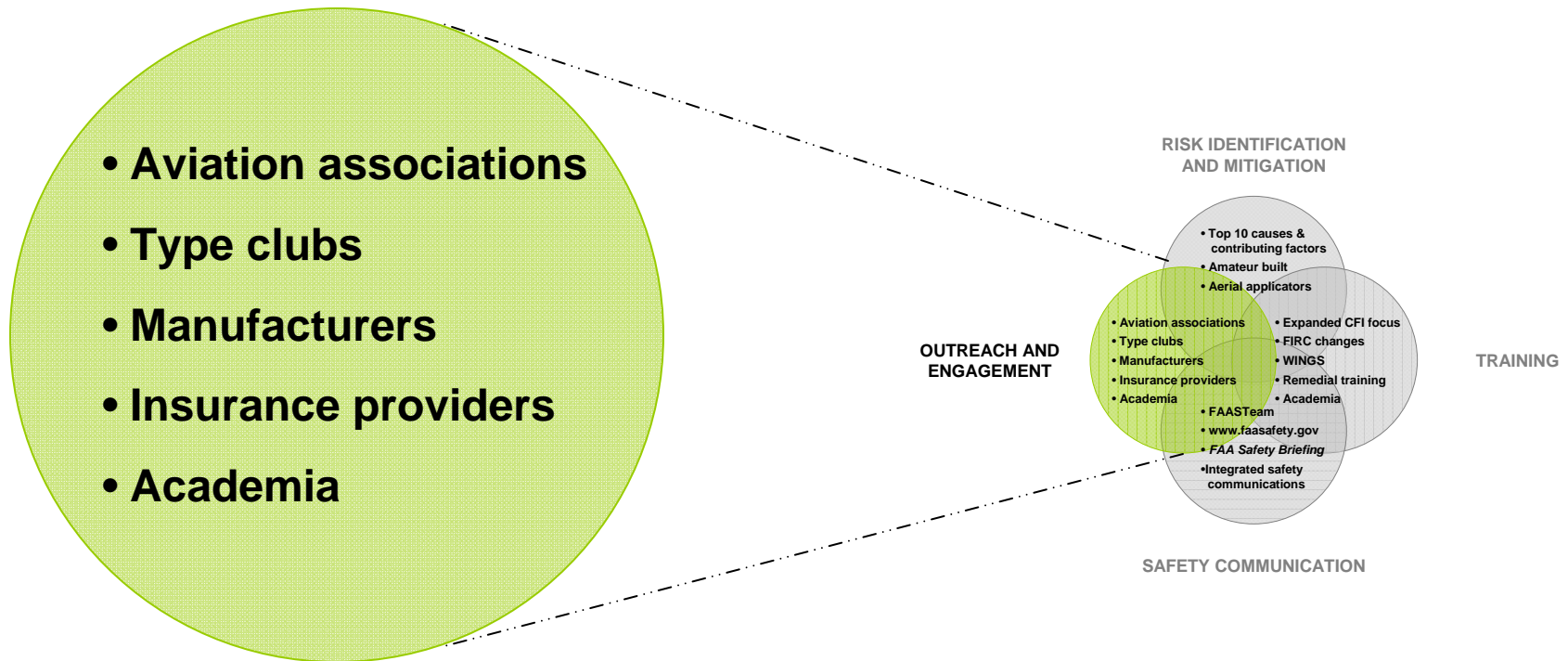


Risk Identification and Mitigation: Targeted Interventions

- **Amateur-Built Aircraft**
 - Airmen transition to experimental or unfamiliar airplanes
 - Published Advisory Circular (AC 90-109, Airmen Transition to Experimental or Unfamiliar Airplanes)
- **Agricultural Operations**
 - Establish workgroup to include field expertise
 - Review operations and airworthiness
 - Targeted outreach based on findings



Outreach and Engagement

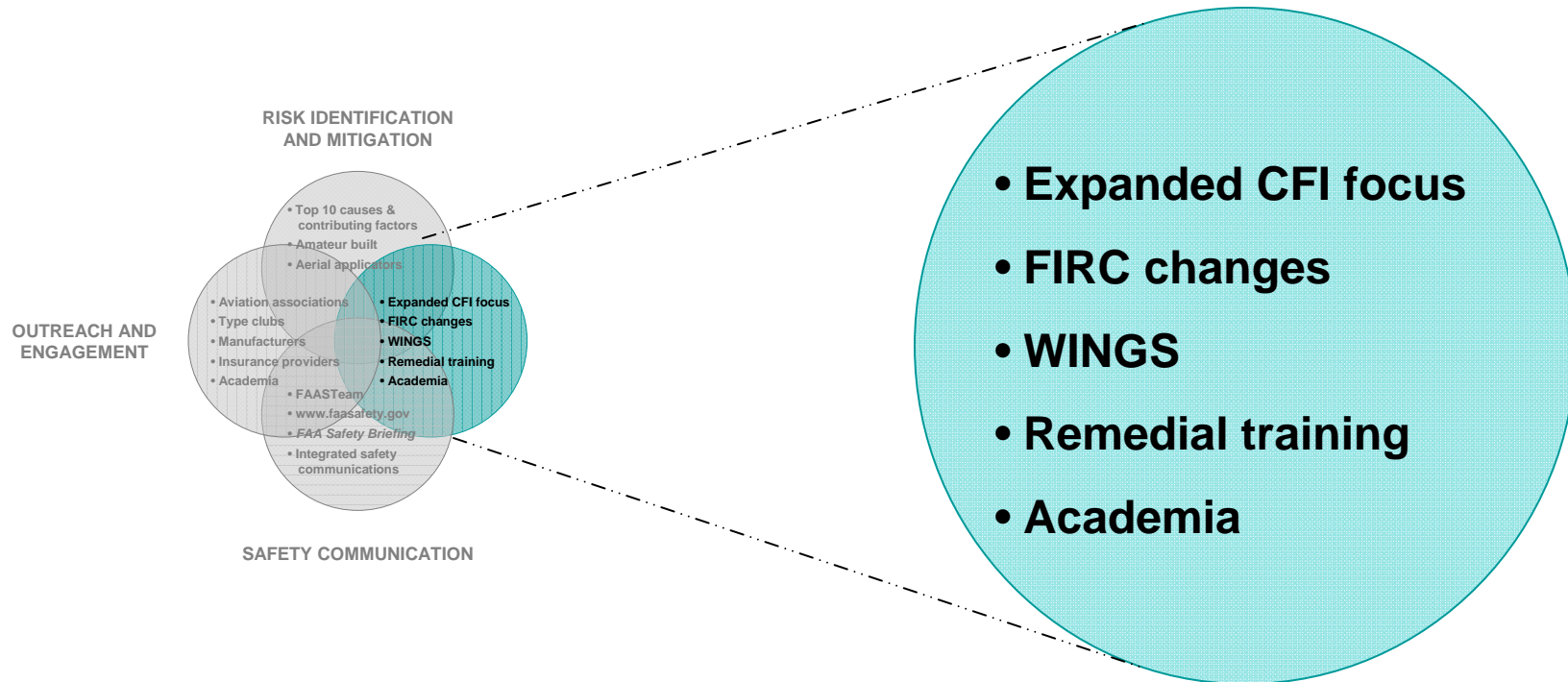


Outreach and Engagement

- Type Clubs
- CFIs
- Aviation Associations (AOPA, EAA, etc.)
- Manufacturers
- Aircraft Insurance Providers
- Academia



Training

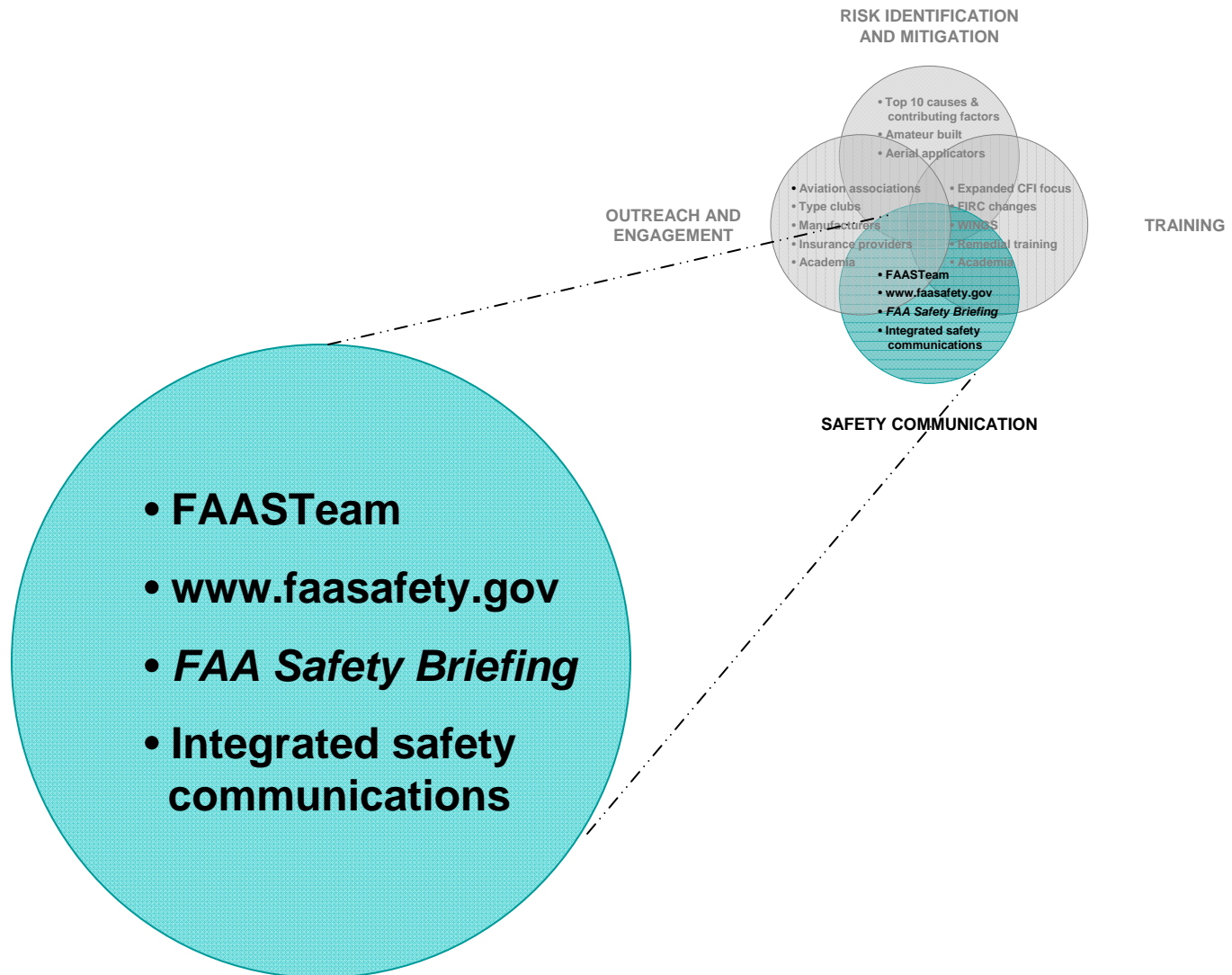


Training

- Expanded CFI Focus
 - Senior CFI Forum
 - FIRC updates
 - Review CFI recurrent training and renewal requirements
 - Gather input from GA community
- WINGS pilot proficiency: www.faaafety.gov
- Re-emphasis on remedial training – pilots and mechanics



Safety Communication



Safety Communication

- **FAASTeam**
 - Refocused on GA and accident reduction and outreach.
 - The 2nd Annual Safety Standdown: April 2 kick-off at Sun 'n Fun, regional Standdown-focused events throughout April
 - Greater presence for national exhibit team
- **www.faasafety.gov**
 - Improvements to Web site for ease of access and content upgrades
 - Further improvements to WINGS pilot proficiency program
- ***FAA Safety Briefing***
 - Provide information and resources on accident causes, mitigation strategies, and training
 - Develop methods, including use of social media, to target unreached members of the GA community



Two-Year Review

- Review effectiveness of non-regulatory mitigations
- Share results with key stakeholders
- Adjust strategy as necessary
- Rolling review process



Bottom Line

- **To have the necessary impact on safety, with this non-regulatory strategy, we must all be part of the solution.**

**“You must be the change you wish to see
in the world.”**

Mahatma Gandhi