SASO

System Approach For Safety Oversight

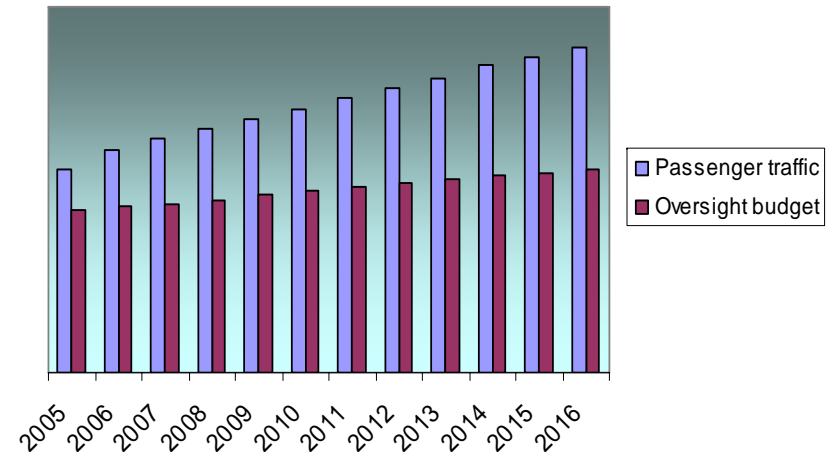**Federal Aviation Administration**

Agenda

- The FAA challenge – Why do we need SASO?

- What is the SASO vision?

- Transformation – What changes must occur?

- SASO umbrella – What will be affected by change?

- Plan and approach – How is it going to happen?

- Schedule – How long will it take?

- Current and future state - What will happen in the near/long term?

- Heard it before – What makes SASO different?

- Support – How can you help?

- What is in it for you?

- Points of contact - Where can I get more info?

Challenge – Why do we need SASO?

Increase Safety

- Current forecasts: 57% increase in total scheduled US airline passenger traffic between 2005-2016.

- The number of general aviation hours flown will increase by 3.2% per year through 2017.*

Legend: Passenger traffic / Oversight budget
(Years: 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016)
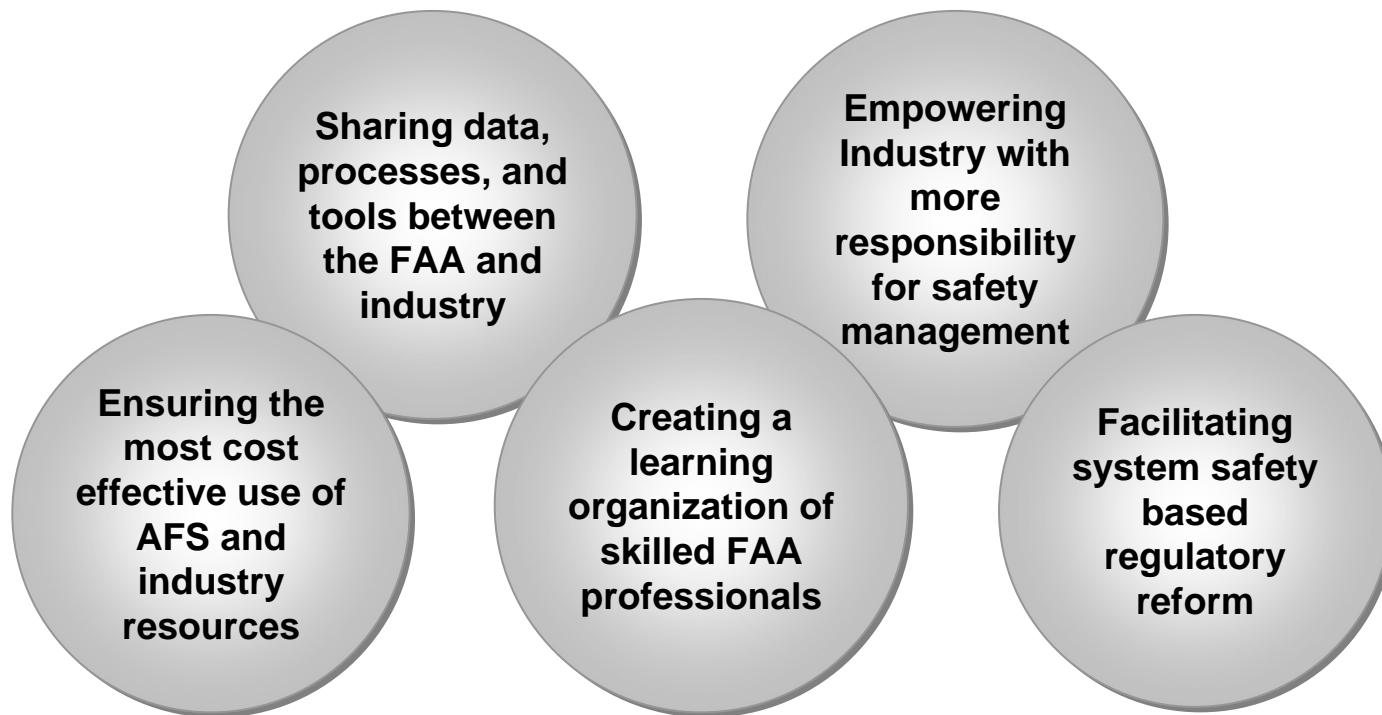
Control Cost

- Based on the traffic forecast, FAA budget for oversight will increase as the aviation industry continues to grow, but not at the same projected rate of growth.

Need to reduce accident rate while effectively managing resources!

Data source – FAA Aerospace Forecast Fiscal Years 2006-2017.

What is the SASO vision?

The System Approach for Safety Oversight (SASO) Program is an AVS initiative to transform the Flight Standards Service and the aviation industry to a national standard of system safety by implementing a comprehensive set of world class system safety practices.

Sharing data, processes, and tools between the FAA and industry

Empowering Industry with more responsibility for safety management

Ensuring the most cost effective use of AFS and industry resources

Creating a learning organization of skilled FAA professionals

Facilitating system safety based regulatory reform

Transformation – What changes must occur?

SASO will affect virtually all aspects of AFS business

Business Areas	Today	Tomorrow
Oversight Strategy	Regulatory Compliance	**Safety Risk Management**
Workforce Skills	Aviation Expertise	**Aviation Expertise *PLUS***
Regulations & Guidance	Focus on Compliance	**Ensure Compliance through System Safety**
Information Technology	Independent Systems	**Integrated Enterprise Architecture**
External Relationships	Varied & Circumstantial	**Standardized & Collaborative**
Business Processes	Regulatory Compliance & End-Product Observation	**Regulatory Compliance plus System Examination**
Management & Organizations	Stovepipe Programs	**Consolidated Programs**

SASO umbrella – What will be affected?

Business process and infrastructure will be based on system safety practices.	Safety oversight programs will operate collaboratively.
Work Processes	SPAS
Risk Management	FSAS
System Safety	ATOS
Workforce Skills & Training	WebOPSS
IT, Tools	FSIMS
	OASIS

Relationship to ISO 9001:2000 (QMS)

- **ISO 9001:2000 (QMS) documents existing AFS business processes (policies and procedures).**

- **SASO seeks to improve (re-engineer) those processes to incorporate system safety principles.**

So HOW is this going to happen?

There is a **plan**.

Phase I: Planning and Engineering 2003 through 2009

Phase II: Implementation 2009 through 2017

Phase III: In-Service Management from 2017 and beyond
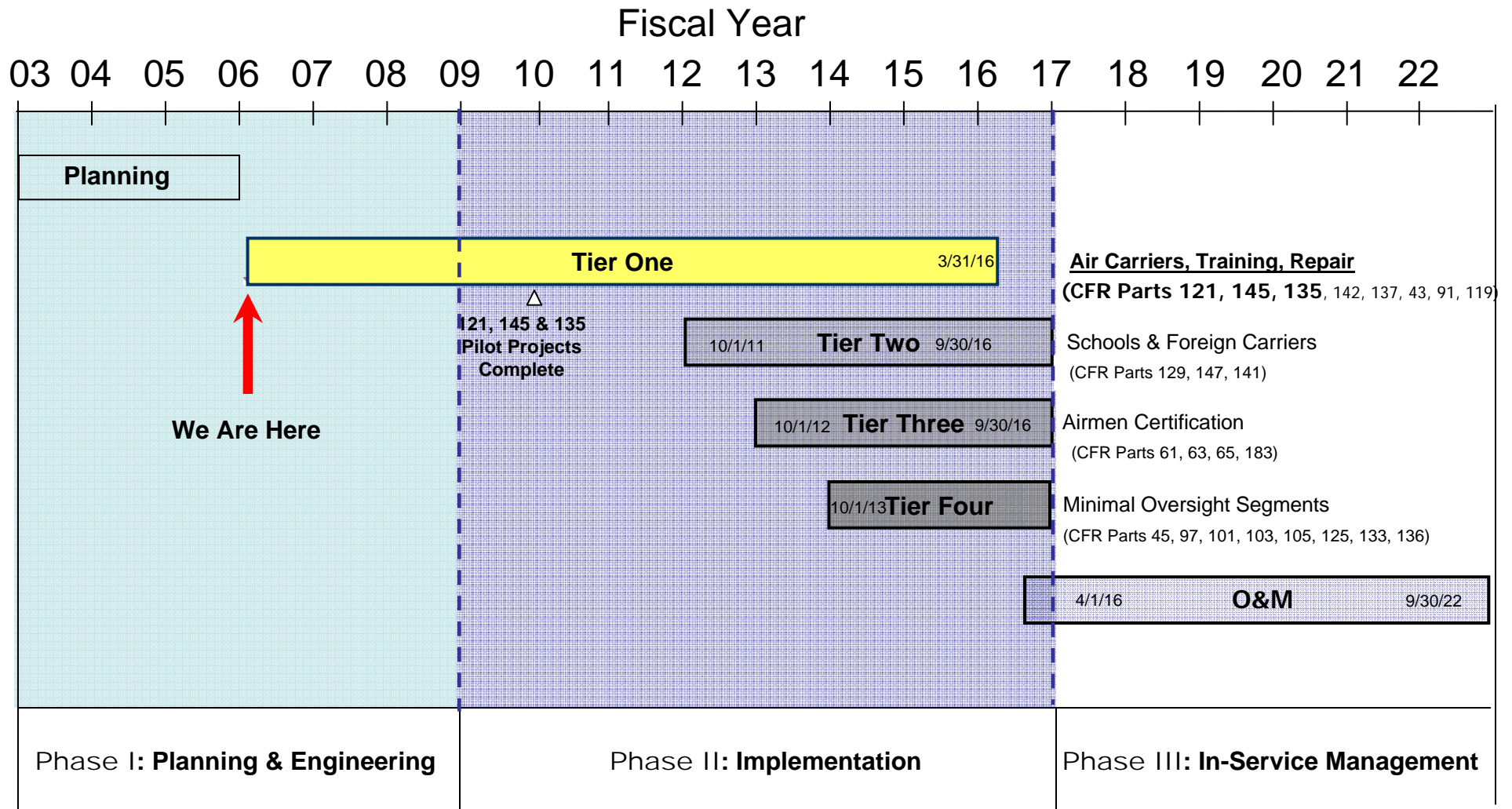
The SASO four-step approach

Business Process Reengineering – Reengineer AFS business processes to incorporate system safety.

Change Management – Prepare for, manage, and reinforce change.

System Alignment – Align AFS Systems with reengineered business processes.

Enterprise Architecture – Integrate AFS Systems in AVS enterprise architecture.

Schedule – How long will it take?

Fiscal Year

| 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |

Planning

Tier One   3/31/16 — **Air Carriers, Training, Repair (CFR Parts 121, 145, 135**, 142, 137, 43, 91, 119)

121, 145 & 135 Pilot Projects Complete

We Are Here

10/1/11 **Tier Two** 9/30/16 — Schools & Foreign Carriers (CFR Parts 129, 147, 141)

10/1/12 **Tier Three** 9/30/16 — Airmen Certification (CFR Parts 61, 63, 65, 183)

10/1/13 **Tier Four** — Minimal Oversight Segments (CFR Parts 45, 97, 101, 103, 105, 125, 133, 136)

4/1/16 **O&M** 9/30/22

Phase I: Planning & Engineering   **Phase II: Implementation**   **Phase III: In-Service Management**

Current state – Where we are today?

- Secured leadership support

- Secured funding

- Started planning and outreach activities

Current state cont. – pilot projects

SASO Part 121 Pilot Project

- The Pilot Project is a collaborative effort between AFS-30 and AFS-900 to incorporate system safety in Part 121 oversight.

- The rollout of ATOS to all Part 121 air carriers has to be completed by the end of CY07.

- The "As-Is" and "To-Be" business process assessment and modeling is completed; Transition preparation is underway.

SASO Part 145 Pilot Project

- Part 145 Pilot Project kickoff meeting with AFS-30, FAA SMEs, Volpe, PricewaterhouseCoopers, Crown Consulting, ICF Consulting took place in June, 2006.

- Bottom-Up approach: the input from the field is integral to the development of "As-Is" and "To-Be" process models.

- Multiple (11) site visits in multiple regions are planned to be completed by April 2007.

Current state cont. – Projected ATOS transition for 2006-2007*

Region	CMTs Transitioning from non-ATOS to ATOS 1.1 in '06	Region	CMTs Transitioning from non-ATOS into ATOS 1.2 in '07
Alaskan	2	Alaskan	4
Central	3	Central	0**
Eastern	3	Eastern	13
Great Lakes	3	Great Lakes	19
Northwest Mountain	3	Northwest Mountain	5
Southern	5	Southern	26
Southwest	2	Southwest	5
Western-Pacific	9	Western Pacific	6

- **All CMTs in ATOS 1.1 will undergo differences training to transition into ATOS 1.2 by the end of '07.**

These numbers are subject to change.

**All CMTs in the Central region will be transitioned to ATOS 1.1 by the end of 2006. These CMTs will also receive differences training to upgrade from version 1.1 to 1.2.

Current status cont. – ATOS implementation details and support

- Each region identified at least one CMT to be transitioned to ATOS 1.1 in FY06.

- Full transition to ATOS 1.2 will be completed by December 31, 2007.

- Each region identified at least one person to participate on a regional transition team in FY07.

- Regional transition teams will have an ATOS coordinator.

Future state – What will happen in 10 years?

- Air carriers will have safety management systems.

- Decision support systems will produce more actionable information.

- Regulations will reinforce system safety.

- FAA oversight cost growth will stabilize.

- Industry and FAA will build a culture of information sharing.

- FAA will shift to culture of safety risk management.

Heard it before – How is SASO different?

SASO is:

1. Focused on people and processes first, machines second
2. Funded substantially and stably
3. Integrated with other AVS programs and initiatives
4. Taking a measured approach… listen, learn and test before roll-outs
5. Involving the industry from the very start
6. Working on a conservative, long-term schedule
7. Developed as an AVS-wide initiative
8. Intended as an effort to develop better ways to do our job

SASO is not:

1. A new system… you will not see a SASO logo on your desktop
2. A division stovepipe
3. ATOS, but ATOS is a part of SASO
4. An additional program

What is in it for you?

- Database consolidation

- Less time on "administrative" work

- More accurate data

- Closer alignment between inspectors and certificate holders on safety issues

Support – How can you help?

- Become a SASO team member

- Support in understanding current ("As-Is") oversight environment

- Support in developing future ("To-Be") oversight environment

- Disseminate SASO Program information

- Provide feedback

Points of Contact

- Program Manager
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- Deputy Program Manager and Change Management Lead
  - Estrella Gonzales, 703-661-0546
  - Estrella.Gonzales@faa.gov

- Business Process Reengineering Lead
  - Richard Abbott, 202-787-3931
  - Richard.J.Abbott@faa.gov

- SASO Outreach Volunteer
  - YOUR NAME, your phone
  - Your eMail

Website: http://www.faa.gov/safety/programs_initiatives/oversight/saso

Change?
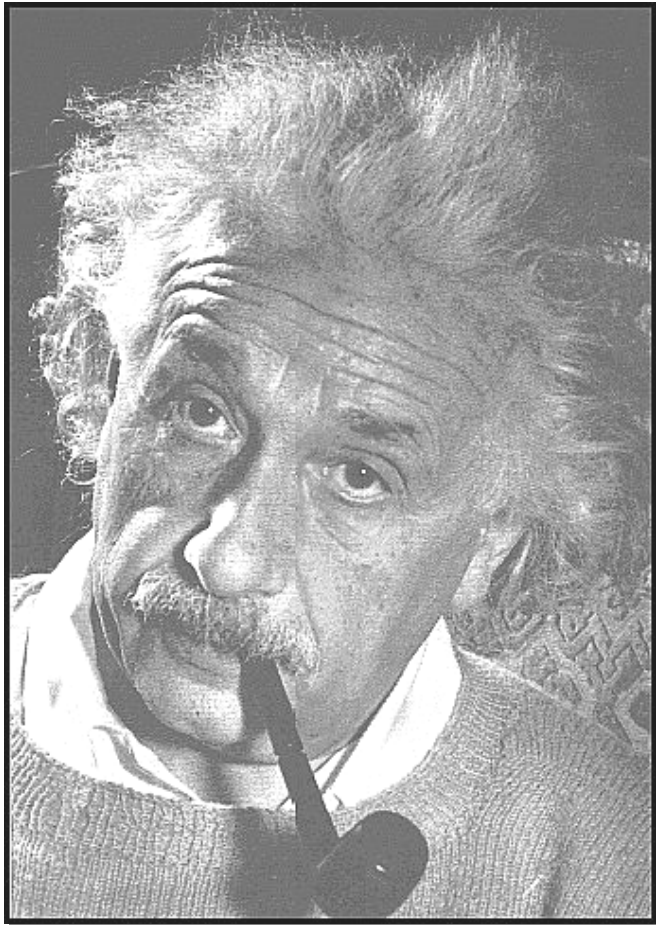
"Insanity: doing the same thing over and over and expecting different results..."

-Albert Einstein