

Creating a Safety Culture at the FAA

Office of Safety

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FAA's Air Traffic Organization

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Federal Aviation
Administration

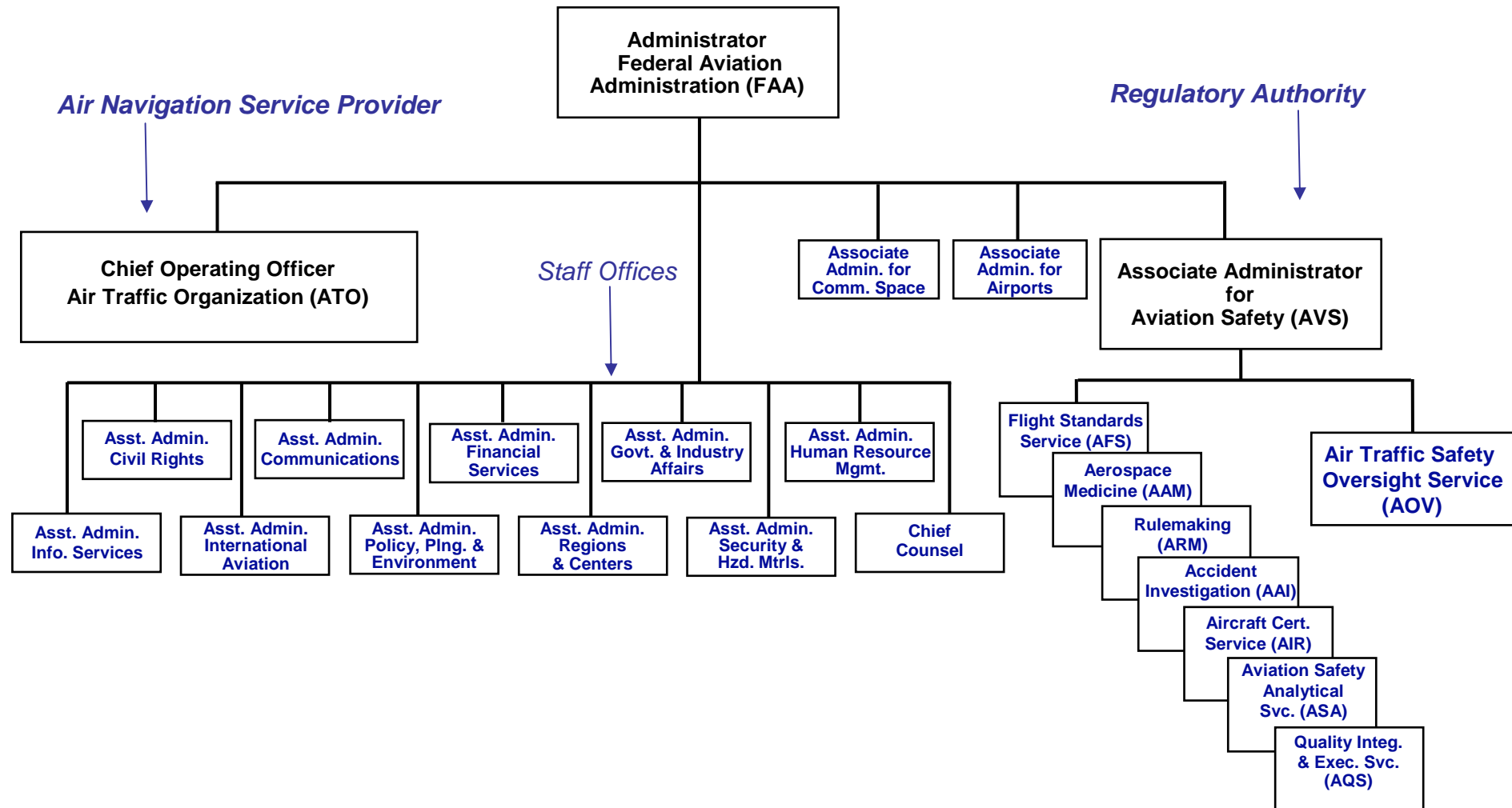


Federal Aviation Administration

- **Operates and maintains an Air Traffic System managing 50,000 flights a day**
- **FAA responsible for both Regulation and Services**
- **Safety is focused in two areas**
 - Regulatory (standards, certificates)
 - Operational (services)



Unique Organizational Structure



Our Safety Record

- 3 year rolling accident rate is low – 1 in 16 million
- 57% reduction in commercial fatal accident rate since '98
- No major accidents for U.S. airline industry in last two fiscal years



Success comes with Challenges

- **Accident rate at an all time low**
 - Can cause complacency
- **Accountability for Safety Metrics**
 - Often drives information underground
- **Strong Management**
 - Lessened employee involvement



Multi-Layered Approach to Change

- **Structural Changes**
- **Policy Changes - Implement SMS**
- **Training and Promotion**
- **International Partnerships**
- **Baseline Current State**
 - Safety Culture Surveys
- **Transition to Safety Culture**
 - Crew Resource Management
 - Non-punitive Reporting Programs

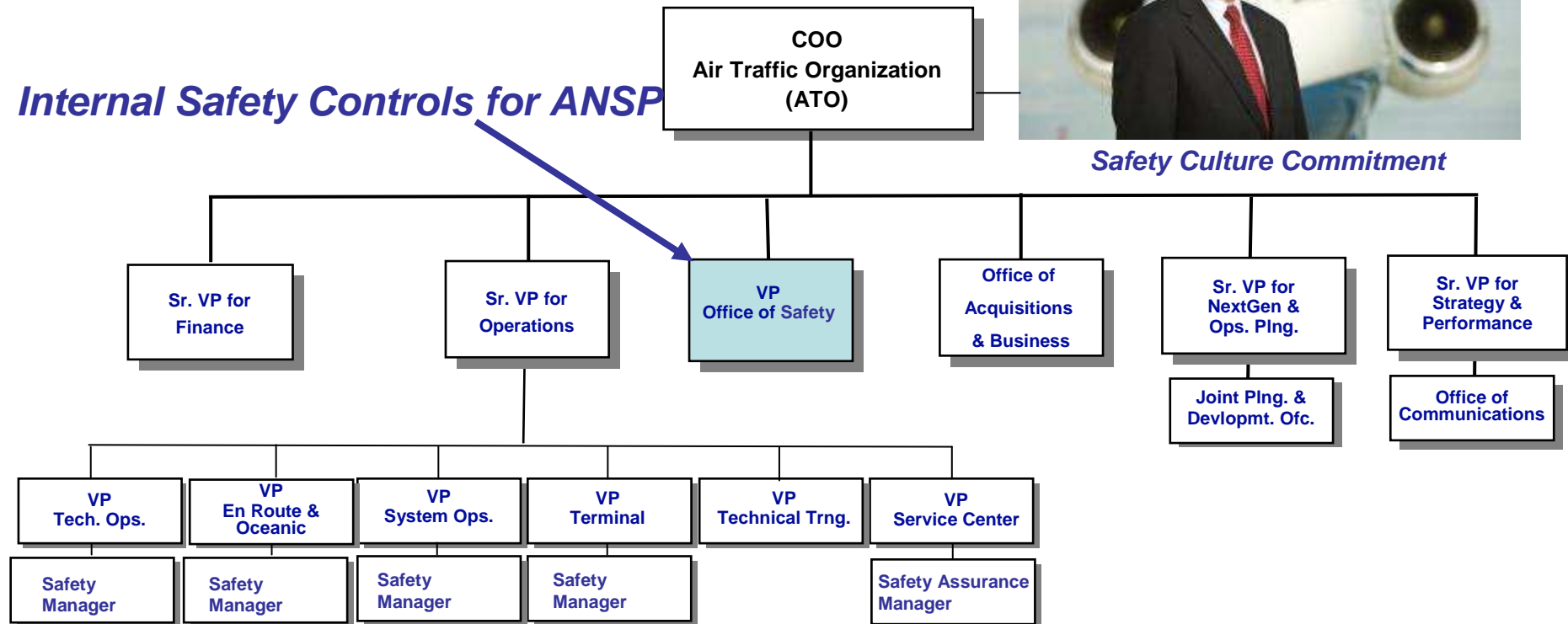


Structural Changes

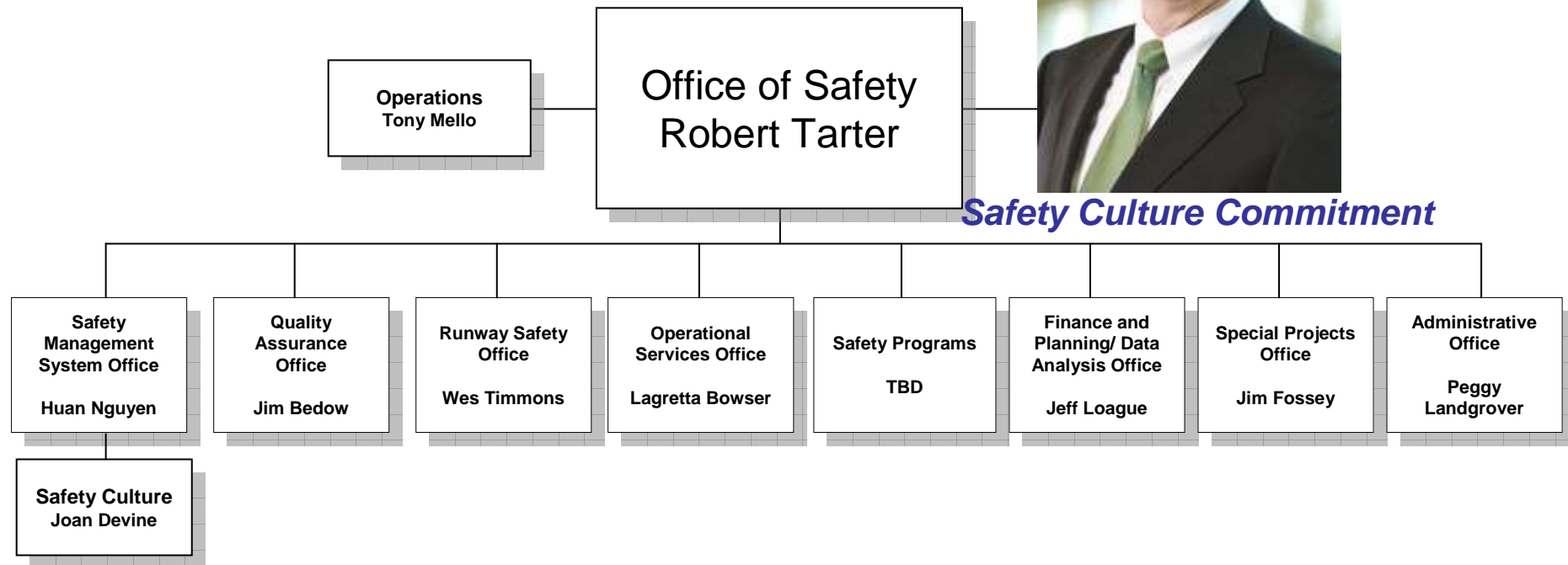
Internal Safety Controls for ANSP



Safety Culture Commitment



Office of Safety



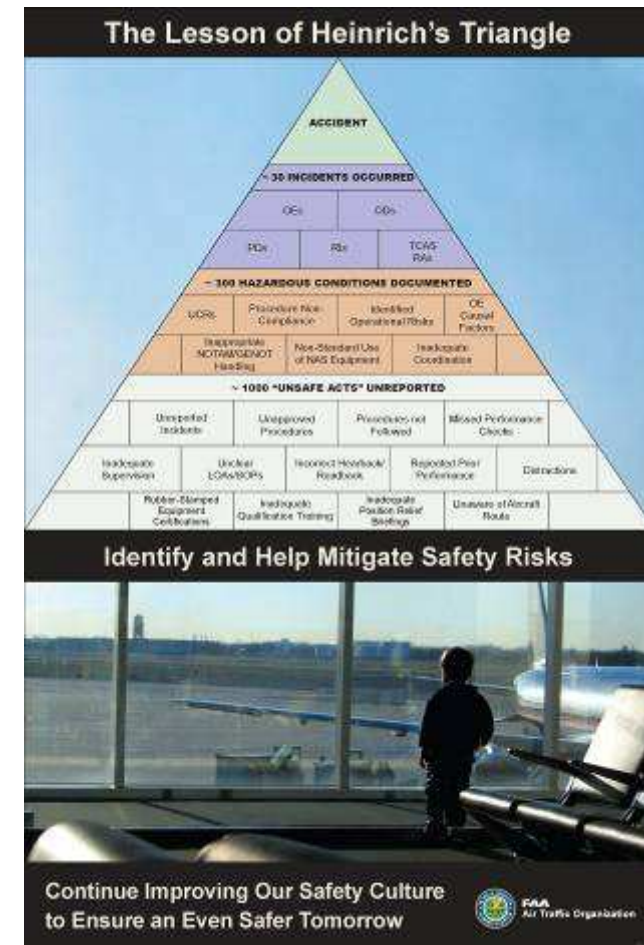
Policy Changes – Implement SMS

- **2004: Safety Management System (SMS) initiated**
 - 4 Tenets: Policy, Risk Management, Assurance and Promotion
 - Describes processes and training programs
- **2007: SMS Policy Adopted**
 - COO commits to creating safety culture
 - Performance and Rewards are aligned with safety metrics
 - Baseline of the Safety Culture begun
- **2008: SMS tied to Performance**
 - SMS implementation added to FAA Flight Plan



Training and Promotion

- Safety Culture DVDs
- Lesson of Heinrich's Triangle
- Control Tower “BASICS”
- ATC Local Safety Seminars
- Runway Safety Action Teams
- Crew Resource Management



International Partnerships

- **FAA/EUROCONTROL Memorandum of Cooperation**
 - Safety Action Plan (AP-15)
 - Safety Culture White Paper
- **Civil Air Navigation Services Organization (CANSO) Safety Standing Committee Work Groups**
 - Safety Culture
 - Safety Culture Assessment Model
 - Barriers and Enablers Research
 - Global Standard for SMS
 - Safety Data Sharing
 - Safety Metrics
 - Operational Safety



Baseline the Current State

- **Interviews with senior leadership (15 persons)**
- **Survey of approximately 600 leadership level managers in the ATO, results showed:**
 - Safety roles and responsibilities need more clarity
 - Reluctance to report safety issues
 - Need more effective way to measure safety issues
- **Survey of frontline employees at 12 air traffic control facilities for baseline**
 - Recently completed follow-up survey at same facilities
 - Analyzing for best practices and lessons learned

Safety Culture Survey Required Effort

- **Issues**

- Availability of researcher at times delayed schedule
- Getting contracts/grants in place delayed schedule

- **New tools for online surveys make it easier**

- **Benefits?**

- provides management with valuable data on culture issues
- provides data to support voluntary reporting programs



Programs

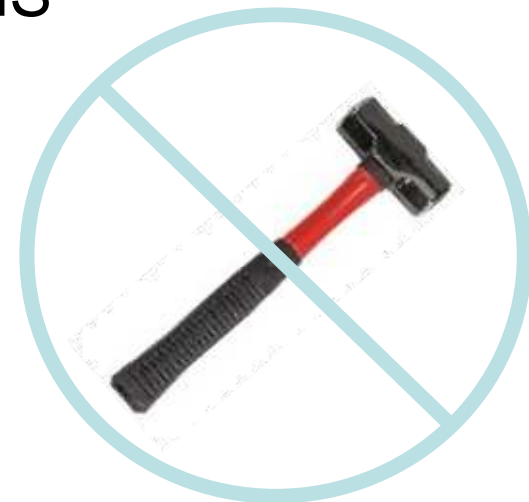
- **Existing Programs**
 - Aviation Safety Reporting System (NASA)
- **New Programs to enhance Safety Culture**
 - Air Traffic demonstration “ASAP” program (ATSAP)
 - Technical Operations demonstration ASAP program
 - Annual ATO Safety Summit
 - FAA Fatigue Summit in July 2008
 - Crew Resource Management training



Hank Krakowski at Safety Summit

Safety Culture Change: Next Steps

- Rollout non-punitive reporting system nationwide
- Integrate safety culture training for new controllers
- Embed safety thinking throughout the training lifecycle
- Increase safety communications
- Complete implementation of the SMS
- Remove barriers to a Just Culture



Summary

- Safety is good business

