International Flight Inspection Symposium

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Oklahoma City, Oklahoma

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Flight Inspection must stay ahead of the growth and changes in global aviation.



- FAA is transitioning to the Next Generation Air Transportation System.
- FAA has a new, proactive approach to safety.
- Global civil aviation is growing.

Moving to NextGen: Aviation Forecast



2016: One billion passengers expected.

 2016: 18% increase in domestic traffic.

Moving to NextGen: Aviation Forecast

 High-tech data link pilotless aircraft are a reality today.

 By 2015: 11,000 new Unmanned Aircraft Systems will be built.



Moving to NextGen: Aviation Forecast

- Very light Jets:
 - 2020: over 5000.

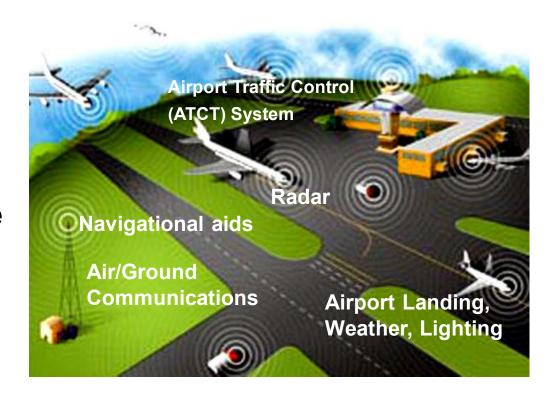
- Commercial Space in 2010:
 - Branson has 200 tickets sold already.
 - Plans 2 flights / day.



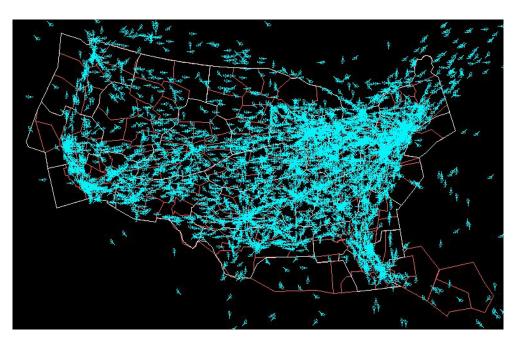


Current U.S. System Can't Handle Growth

- Ground-based
- Human-centric with limited automation
- Single channel voice control
- Aging infrastructure



Current U.S. System Can't Handle Growth



- Studies show the current system can't accommodate 2016 traffic levels.
- Without improvements, delays could increase 400% by 2016.

Next Generation Air Transportation System (NextGen)

Transformation of the National Airspace System

Goal is to:

- Further enhance safety
- Increase air traffic capacity
- Strengthen Homeland security
- Protect the environment



NextGen Transformation Capabilities

- Satellite Navigation and Control
- Voice and Data Communication
- Improved Weather Forecasting Ability



NextGen Capabilities, con't.





- Common Situational Awareness
- Sharing of decision making between ground and cockpit
- Network enabled realtime information sharing

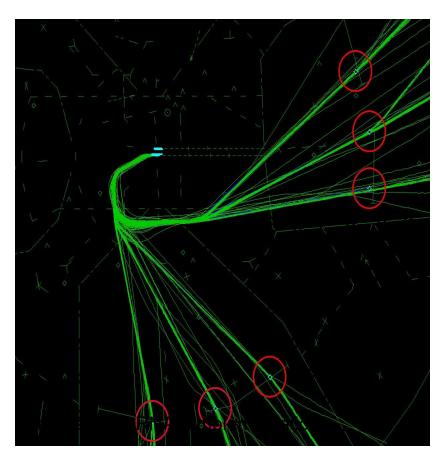
NextGen: Performance-based Navigation

Area Navigation

- Allows for more direct and precise flight paths.
- Cuts ground delays and miles flown.

Required Navigation Performance

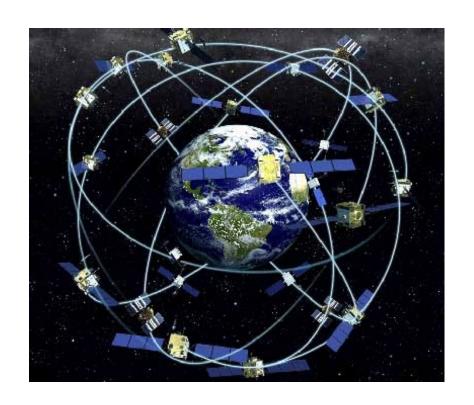
- Allows flexible approach procedures with reduced minima.
- Can enable closer route spacing.



Post RNAV Implementation, Atlanta

Satellite-based Surveillance: Automatic Dependent Surveillance-Broadcast (ADS-B)

- 1 second update vs.12 seconds for radar
- Improved surveillance in mountainous areas
- Allows for more efficient aircraft separation



Gulf of Mexico: Current Conditions



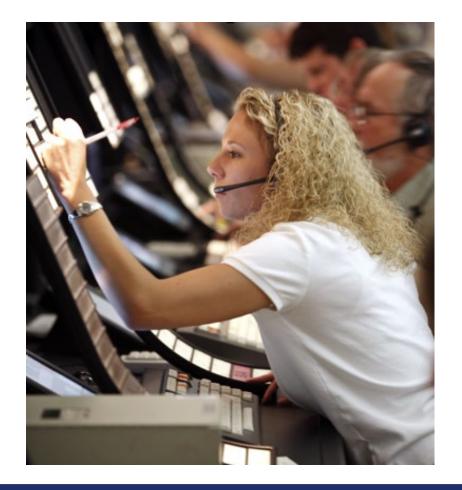
Gulf of Mexico: ADS-B Enabled



Net-Centric Operations and Data Communications

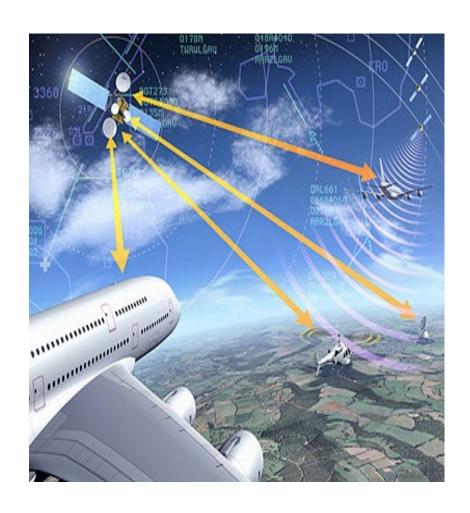
 System Wide Information Management (SWIM) allows all users to see a common picture of the NAS.

 Data Communications enables less tactical decision planning and coordinating.

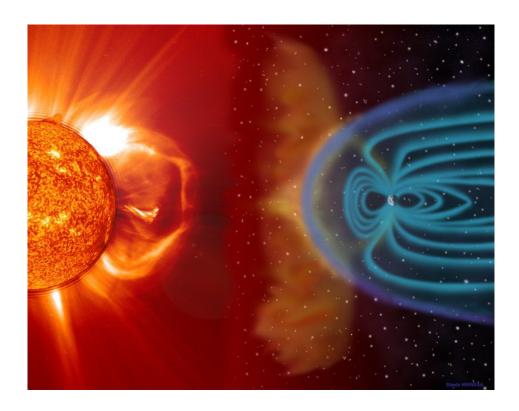


NextGen Benefits

- Reduced delays and gridlock.
- Reduced fuel usage and emissions.
- Many more flights can be accommodated.



Challenges: Space Weather



 Space Weather can impair satellite-based systems.

How can we mitigate this impairment?

FAA is Committed to Safety Management System (SMS)

- Proactive, integrated approach to safety.
- Changes to the NAS must have risk mitigation
- Effective Flight Inspection is a key part of SMS.



Global Aviation is Growing, therefore ...



- Global safety efforts, including flight inspection, are a necessity.
- FAA is proud to work with international partners on global safety efforts.

Global Safety: Challenge to you



- ICASC can have a large impact in global safety.
 - Refresh your Charter
 - Seek ICAO affiliation

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