

Next**GEN**



FAA

Delivering NextGen

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New Technology Workshop
June 6, 2012



What is NextGen?



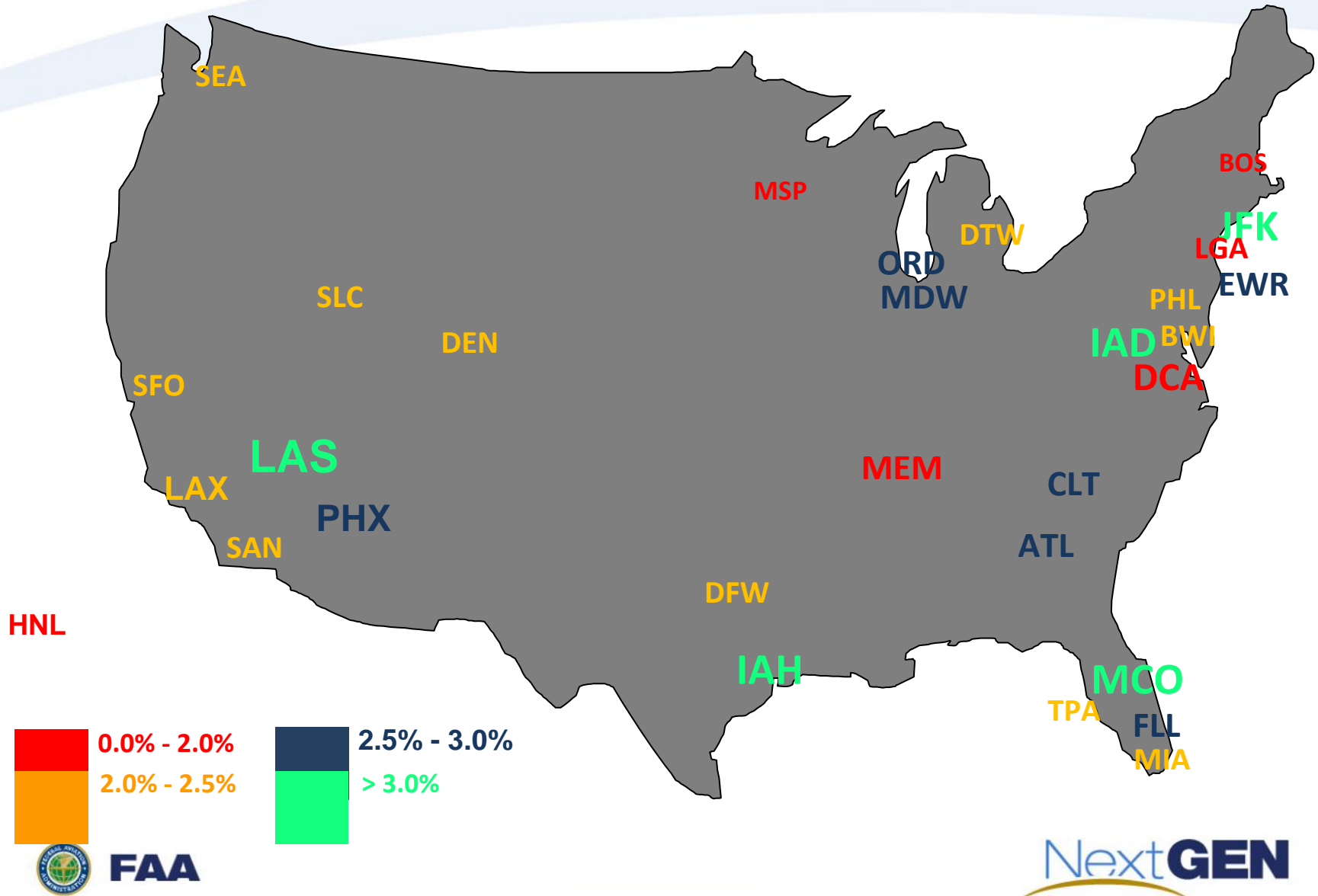
- NextGen represents the transformation of our national airspace system
- It **integrates** new and existing technologies, procedures and policies

Why do we need NextGen?

- **5,000 Planes in air at any time**
- **1 Billion passengers per year in 2020***
- **More than 10 Million jobs**
- **\$1.3 Trillion in economic activity**
- **5.2% of GDP**

**FAA Aerospace Forecast Fiscal Years
2012-2032*

Core 30 Airports: Passenger Growth



What do we need?

An airspace system that will:

- Ease congestion and offer enhanced efficiency to match demand while ensuring safety
- Reduce impact on the environment and without impacting aviation's contribution to our economy
- Maximize the use of today's technology, while setting the stage for the next generation of technologies and procedures



A technician wearing a blue shirt and blue gloves is working on a large, complex aircraft engine. The engine is mounted on a white aircraft fuselage. The technician is using a tool to work on the engine's components. The background shows a hangar with a corrugated metal wall and a window.

NextGen is...

Economic Impact

Making it **More Efficient** - delay reductions derived from NextGen capabilities will provide \$24 billion in cumulative benefits through 2020.



NextGen is...

Sustainability

NextGen procedures at Seattle will reduced carbon dioxide emissions per year equivalent of taking 4,100 cars off the streets.

NextGen is...

Flexibility & Efficiency

By 2018, implement tools for flexibility & efficiency in:

- Aircraft Routing
- Weather Avoidance
- Airspace Utilization



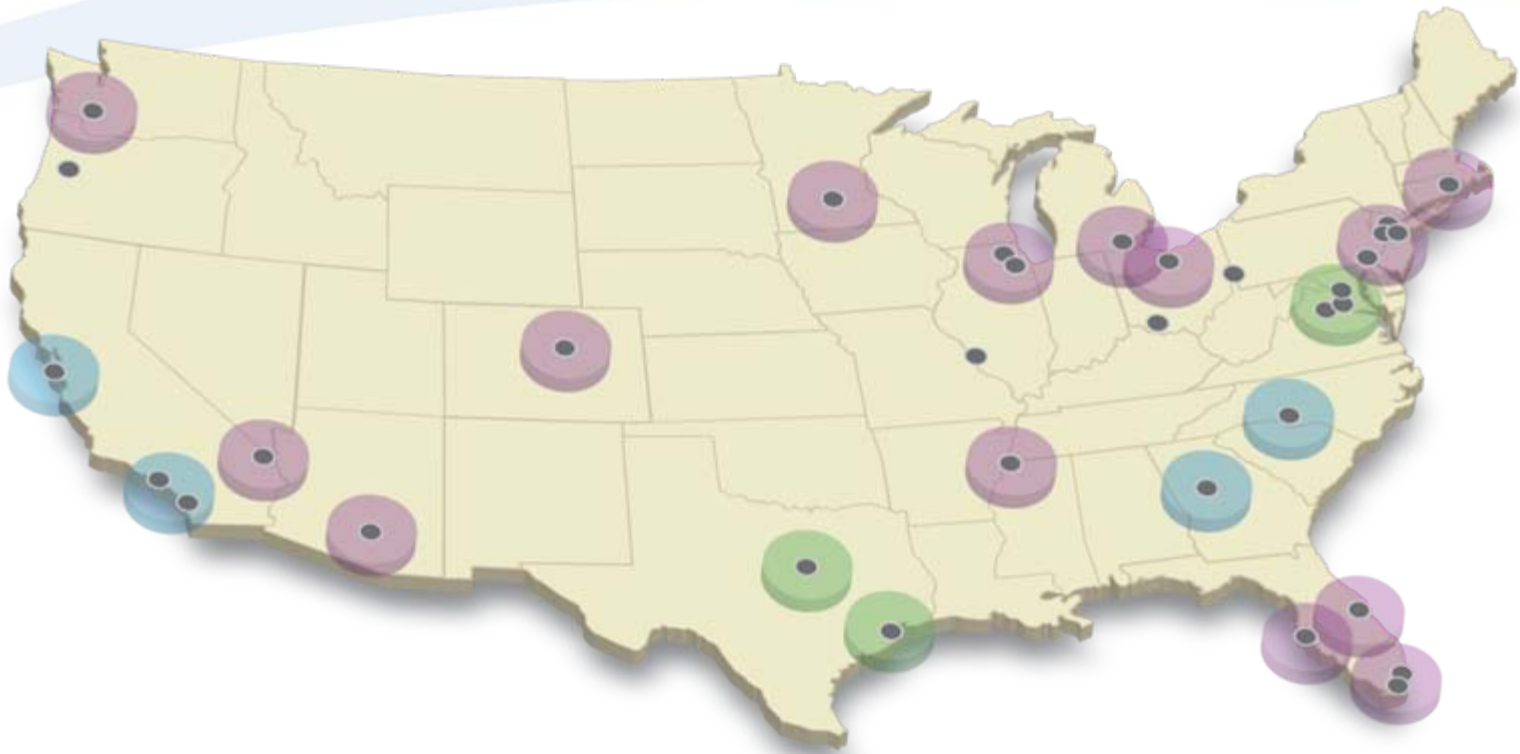
NextGen is...

Safety



Make it **Safer** - satellites provide faster updates with greater position accuracy for surveillance and navigation versus conventional radar.

Metroplex Initiative



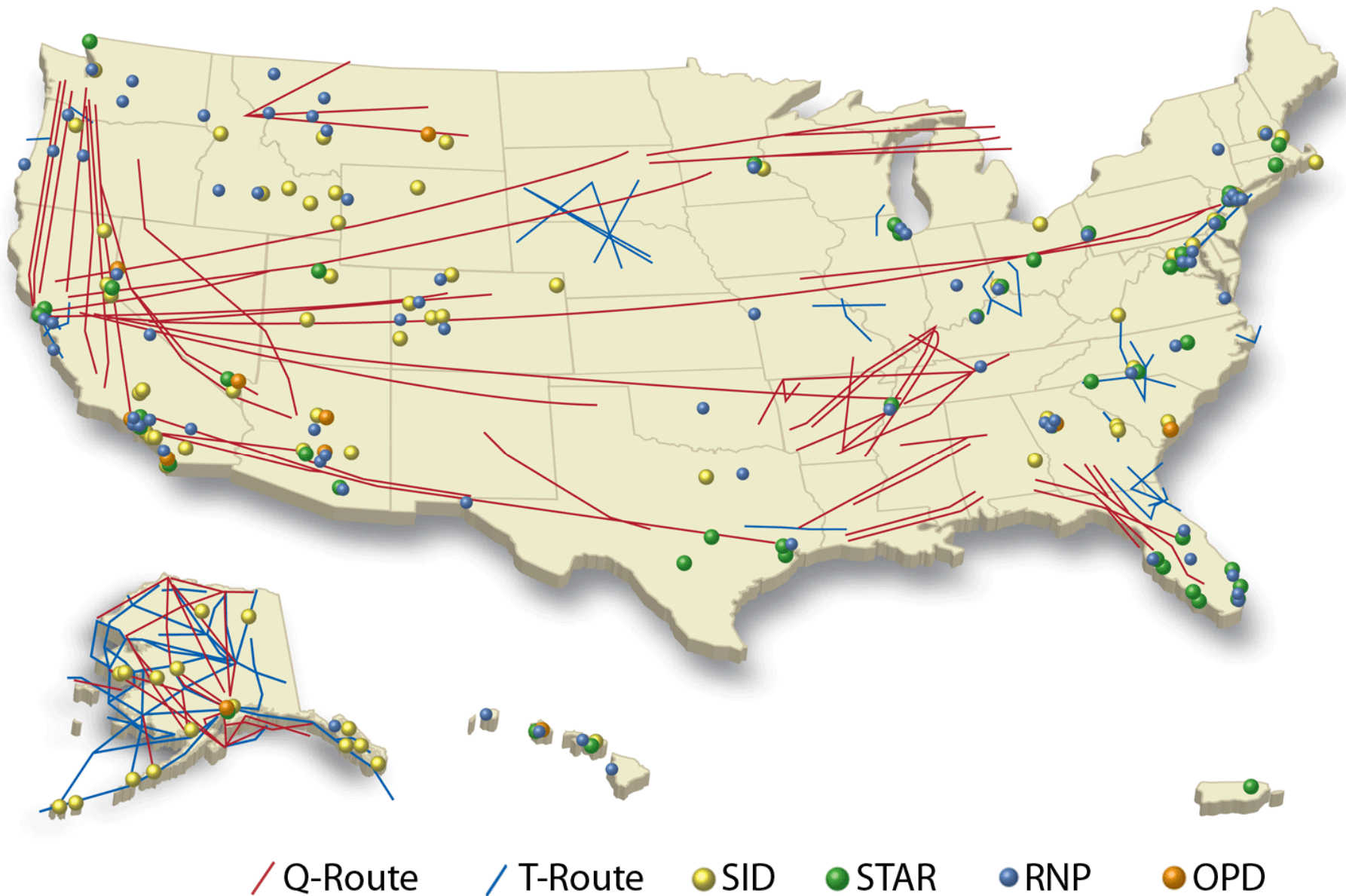
- Core Airports
- Design and Implementation Teams active
- Study Teams complete
- Metroplex areas eligible for future study



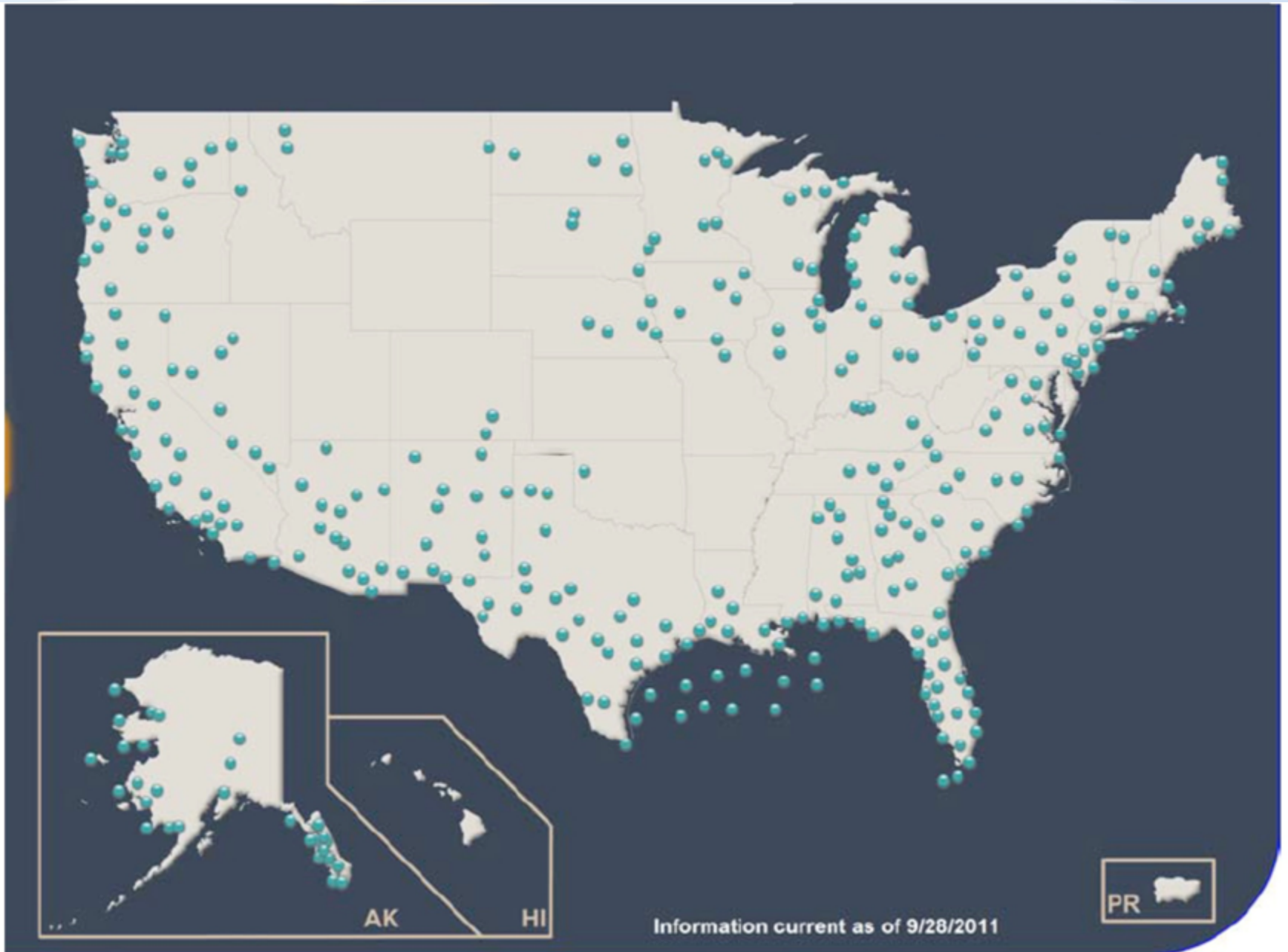
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Next**GEN**

Performance Based Navigation



ADS-B Implementation – Radio Stations



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NextGen Arrival Path

Conventional Landing Path

NextGen Dashboard Lands On Time

We are always pleased to share the next steps toward enhancing our invisible infrastructure in the sky.

As we move forward with this joint endeavor that encompasses aviation, we are opening dialogues with airlines to help them fly NextGen routes. We're also working with them to discover all the benefits they are experiencing from new performance-based navigation procedures at airports across the country.

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NextGen Experience

Houston Gulf of Mexico Louisville San Francisco

NextGen Satellite Navigation Approaches

Questions?

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