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Next Generation Air Transportation System:

Increasing capacity, efficiency, safety, and security while protecting the environment, NextGen's satellite-based system relies on new navigation and communication capabilities. It enables more efficient routing of aircraft that reduces noise, fuel burn, emissions, and airport congestion.

Economic costs of not transforming the system are enormous.

- Without NextGen, job growth suffers. Employment trends in aviation-related industries indicate a possible loss of as many as 2 million new jobs every five years.
- Not implementing NextGen could cost the nation about $35 billion in annual economic losses in 2014, and around $52 billion in annual economic losses by 2024 just in unmet demand.
- In 2007, domestic delays cost the U.S. economy $41 billion, and this *excludes* international, freight, military, and general aviation.

NextGen has significant environmental benefits.

- NextGen environmental benefits and interoperability support a global approach to emissions standards through the U.N.'s International Civil Aviation Organization. This will prevent economic consequences from various regional entities' imposing operational restrictions.
- Without NextGen, congestion in 2007 resulted in additional fuel burn emitting about 7.1 million metric tons of carbon dioxide. NextGen's new technologies will reduce flight time and delays, resulting in lower fuel burn and noise, less emissions and congestion.
- NextGen builds on industry's current progress in reducing emissions through new engines, airframes, avionics, communications, and materials technologies.

Crucial investment in NextGen R&D is urgently needed.

- Critical NextGen R&D is not being funded. Delay means increased costs and postponed benefits. At least $300 million annually in additional federal NextGen R&D funds is needed, an insignificant amount compared with the economic benefits.
- The current FAA Reauthorization extension illustrates the problem: it holds FAA at old funding levels, postponing vital R&D and increasing economic losses.

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