

Environmental Provisions in NextGen Financing Reform Act of 2007

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Administration**





NextGen Vision

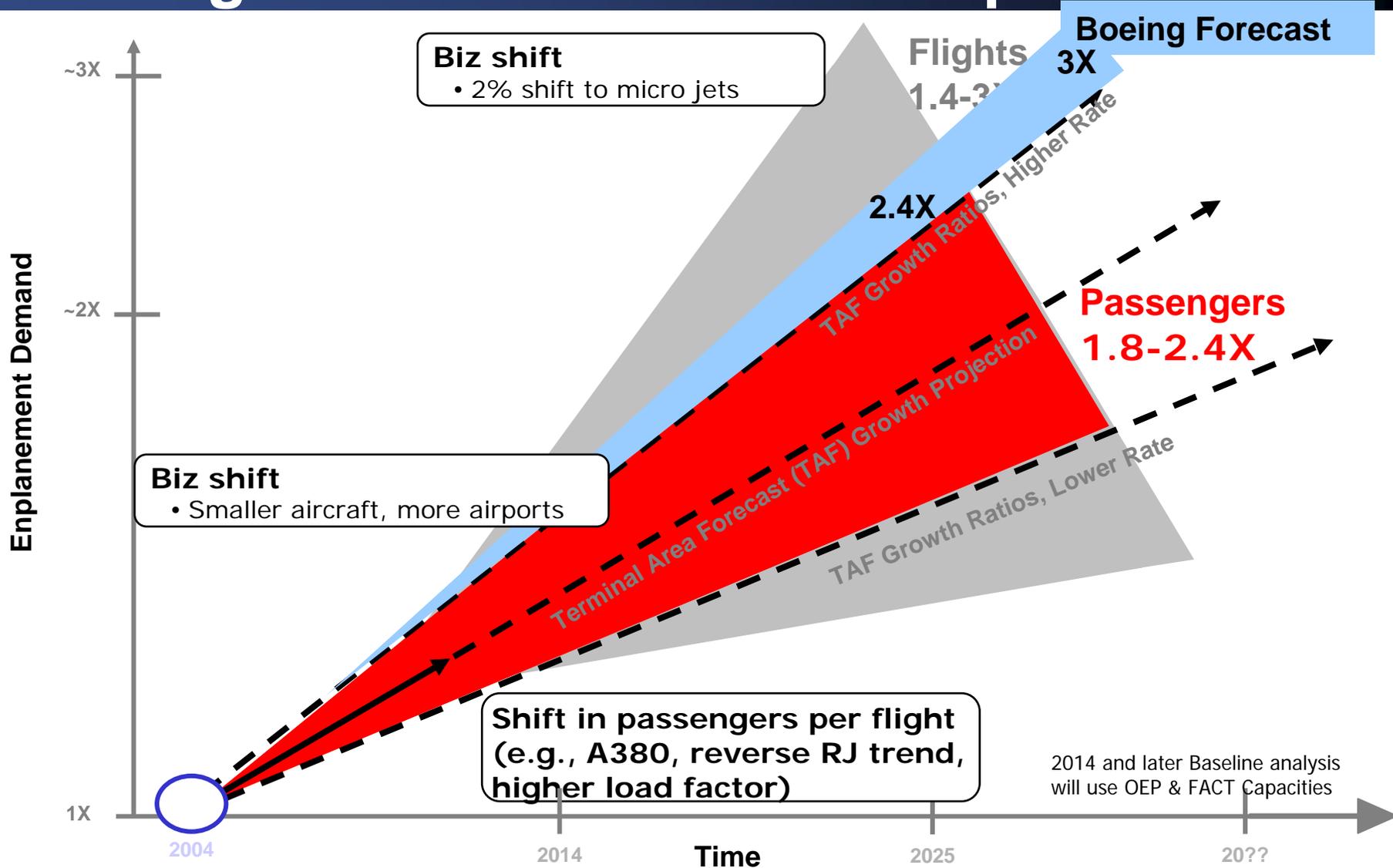
Provide environmental protection that allows sustained aviation growth

Factors:

- 2X increase in system by 2025
- Fundamental changes in the system
- Increased focus on environmental quality
- Vision to grow aviation while reducing *significant* environmental impacts



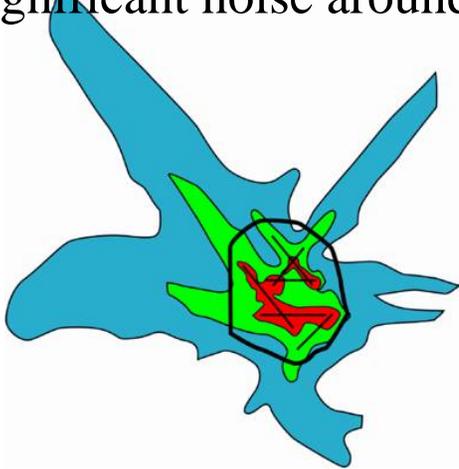
Challenge: Demand Continues Upwards



Aviation & The Environment - The Issues

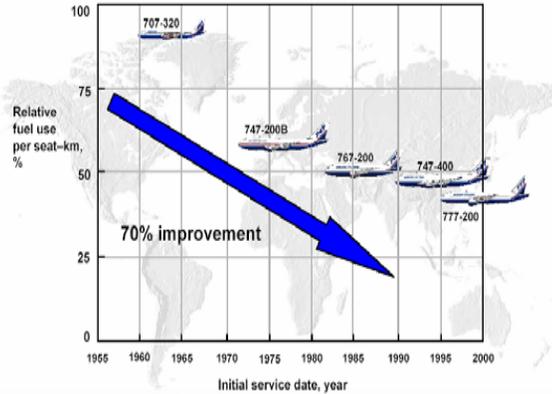
Community Noise Impacts

Reducing and mitigating significant noise around airports



Reducing significant water quality impacts

Energy



Progress in fuel efficiency/alt fuels

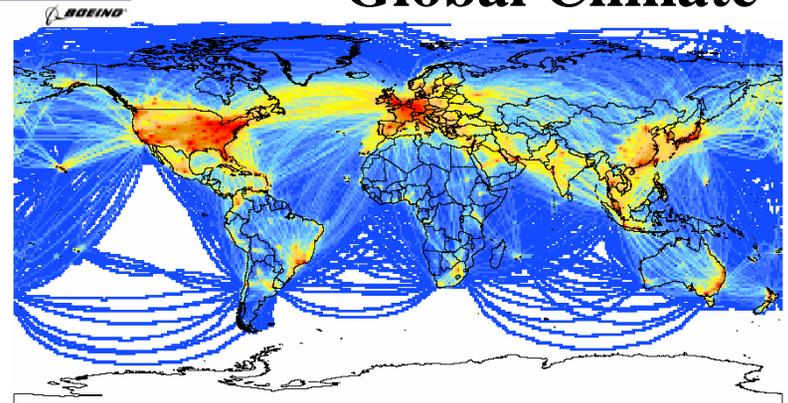
Water Quality

Air Quality

Limiting or reducing impact on local air quality



Global Climate



Addressing aviation's effect on global climate



Primary Focus of New Environmental Provisions

Quieter, cleaner, more energy efficient

Bring new technologies,
operational innovations,
and other capabilities on line
to reduce aviation environmental impacts.



The Ultimate Solution: New Technology



- Historically technology accounts for 90% of environmental reduction.
- New concepts offer promise for improvement



“CLEEN” Research Consortium

- Establish world-class consortium for development, maturing, & certification of lower energy, emissions, noise engine & airframe technology over 10 years.
- Includes performance objectives for fuel efficiency, NOx, noise, alternative fuels, retrofit potential.



Airport Cooperative Research Program (ACRP)

- Make ACRP permanent.
- Add \$5 million a year from AIP for environmental research for the airport environment, including noise, air and water quality.



Initiatives: Flight operations

- Operational measures offer near-term improvements, pending new technology, e.g., CDA can reduce fuel burn, emissions, and noise.
- Reducing congestion and optimizing airport ground and terminal airspace



operations can reduce noise and emissions.



Environmental Mitigation Demonstration Pilot Program

- 6 projects to demonstrate benefits of promising research at airports (noise, air or water quality).
- 50% share Federal funding up to \$2.5 million AIP per project.
- FAA will disseminate best practice information based on project results.



Grant Eligibility for Assessment of Flight Procedures

- AIP assistance for environmental review of FAA's proposed implementation of noise abatement flight procedures approved in airport noise compatibility programs (Part 150).
- Purpose is to bring new noise abatement flight procedures on line faster for airports.



Reimbursable Agreements for Special Studies

- Broadens authority for FAA and airport sponsors to use AIP for voluntary reimbursable agreements for FAA to perform special studies needed for—
 - Environmental reviews for airport development
 - Mitigation in an airport EIS/ROD
 - Part 150 mitigation



Summary of NextGen Provisions

- Research Consortium for Lower Energy, Emissions and Noise Technology Partnership “CLEEN”
- Airport Cooperative Research Program
- Environmental Mitigation Demonstration Pilot Program
- AIP for Assessment of Flight Procedures
- Reimbursable Special Studies

