

NextGen Is Changing Air Travel

NextGen, the Next Generation Air Transportation System, is a set of programs being implemented by the Federal Aviation Administration (FAA) over the next several years. This modernization program is a complex undertaking that the FAA believes will lead to more efficient and accurate flight trajectories that will benefit travelers and airlines.

NextGen replaces ground-based tracking systems with satellite-based Global Positioning Systems (GPSs). This change allows more precise, accurate routing and tracking of aircraft, on the ground and in the air.

AIRPORT OPERATIONS WILL IMPROVE

Implementing NextGen will bring three major changes to airport operations:

- New technologies will change flight paths, enabling aircraft to fly more direct routes, saving fuel and reducing CO₂ emissions.
- Tracking technologies will pinpoint aircraft in the air and on the ground, allowing for better aircraft management.
- Data sharing will provide airports with a better picture of aircraft operations and enable better system-wide planning, especially in inclement weather.

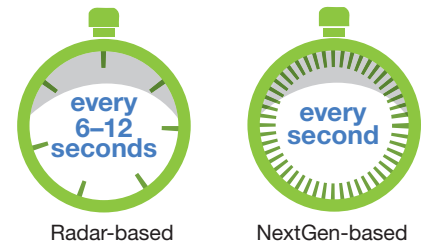
NEXTGEN PINPOINTS AIRCRAFT LOCATIONS



GPS technology allows for more precision.

Just one change – reducing air travel delays caused by weather – will have a significant impact on the air travel system. Delays at large airports cause ripple effects throughout the system, impacting airports of every size. NextGen technology addresses this by pinpointing aircraft position relative to weather systems and precisely rerouting travel to avoid weather problems.

AIRCRAFT POSITIONING UPDATE FREQUENCY



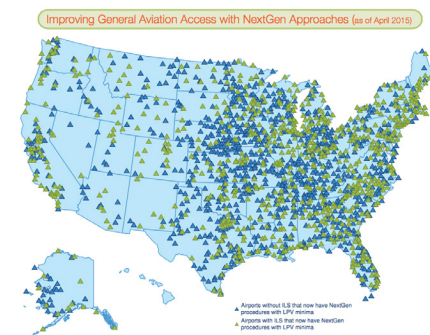
70%

PERCENTAGE OF DELAYS THAT ARE ATTRIBUTABLE TO WEATHER

Weather has often been a major factor in flight delays. According to the FAA, 70% of flight delays can be attributed to weather. In terminal areas, NextGen technologies allow continued operation during inclement weather. With NextGen, it is possible to have safe arrival and departure windows that would previously have been closed due to weather.

SMALLER AIRPORTS WILL ALSO BENEFIT

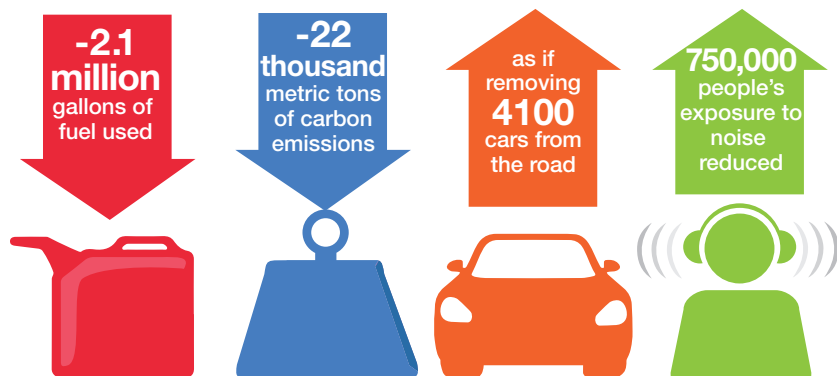
NextGen improvements will be seen in smaller and general aviation airports, too. The same technology enhancements happening at large metroplex airports will mean better instrument approaches and safer air travel. General aviation pilots who install an Automatic Dependent Surveillance–Broadcast (ADS-B) unit in their aircraft will receive weather and aircraft traffic information right in their cockpit. For example, it's already helping ADS-B-equipped pilots at Charles M. Schulz in Sonoma County, California, land their aircraft when the approach is covered in fog.



NEXTGEN SUPPORTS ENVIRONMENTALLY HEALTHY GROWTH

With NextGen, airport takeoffs and landings follow more precise flight tracks. Continuous descent reduces nitrous oxide emissions. Along with better management of taxi queues on the ground, this means less fuel burned from gate to gate.

IN SEATTLE, NEXTGEN IMPROVED THE ENVIRONMENT



NEXTGEN ALSO RAISES SOME CONCERNS

Any change this large and complex will affect our community. Our airport will work closely with the FAA as they develop NextGen procedures for our airport to maximize the environmental benefit and minimize impacts.

FIND OUT MORE

Visit www.faa.gov/nextgen/ to learn more.

AIRPORT LOGO
CAN BE PLACED HERE

KNOWING
nextGen