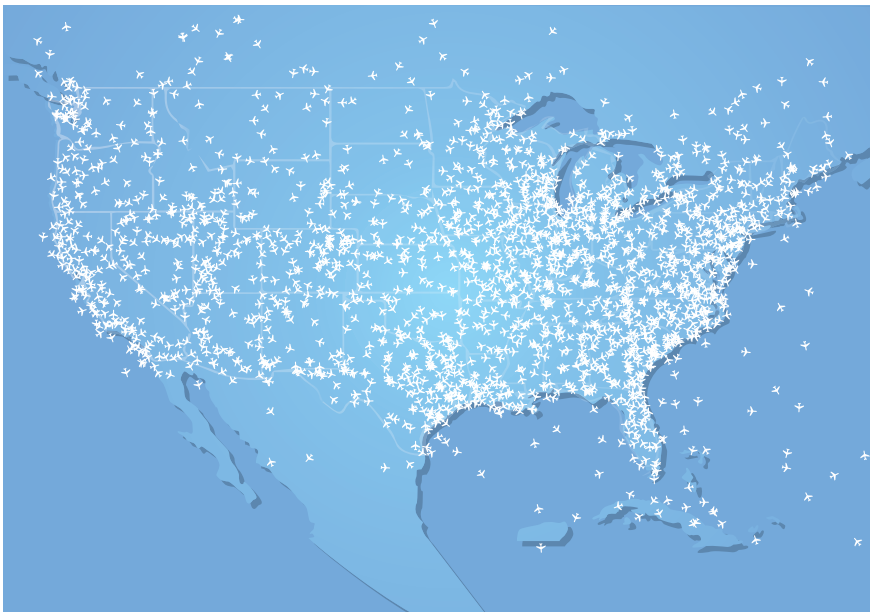


# NextGen: Advancing Air Safety

At any given time, there are around 7,000 aircraft in the air in the U.S. To monitor all of that traffic and keep it moving safely, air traffic controllers have relied on monitoring screens showing information gathered from ground-based tracking and radar systems, a process that has been used since the 1950s. While it is quite reliable, advances in technology, particularly satellite-based Global Positioning Systems (GPSs), are enabling a new era in managing the air transportation system. Known as NextGen, the Next Generation Air Transportation System, it is being implemented by the Federal Aviation Administration (FAA).

## NextGen Increases Safety Across the Nation



*More than 1,600 airports in the U.S. already have NextGen procedures making it easier for all pilots, including general aviation pilots, to fly to airports during low visibility conditions.*

## PRECISE INFORMATION IMPROVES SAFETY

Pilots can use flight deck displays of other aircraft positions to maintain proper separation, such as when landing on closely spaced runways. This information is available under Automatic Dependent Surveillance–Broadcast (ADS-B), which reports aircraft location derived from GPS. This can also permit taxi procedures in low visibility, reducing weather-related delays, and maintaining more predictable operations.

NextGen also enables more direct, shorter flight paths. Improved GPS-based surveillance plus predictable, repeatable flight paths will allow

# 70%

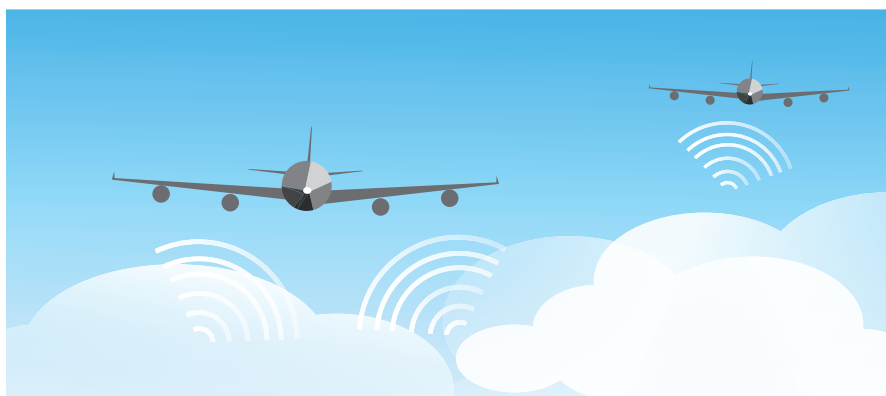
## PERCENTAGE OF DELAYS THAT ARE ATTRIBUTABLE TO WEATHER

*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.*

the air travel system to continue current levels of safety in the face of increased future traffic demand.

Weather has often been a major factor in flight delays. In fact, according to the FAA, 70% of flight delays can be attributed to weather. Now, with NextGen, airplanes can share exact weather data with controllers and reroute around weather systems. In terminal areas, NextGen technologies allow continued operations during inclement weather. With NextGen, it is possible to have safe arrival and departure windows that would previously have been closed due to weather.

### NextGen Pinpoints Aircraft Locations

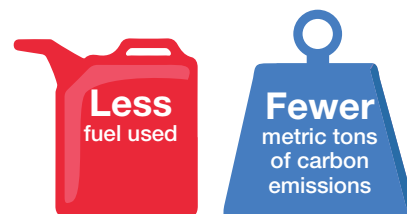


*GPS technology allows for more precision.*

### FIND OUT MORE

Visit [www.faa.gov/nextgen/](http://www.faa.gov/nextgen/) to learn more.

**In Washington, D.C.,  
NextGen Saved Fuel and  
Reduced Pollution**



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CAN BE PLACED HERE

  
**KNOWING**  
**nextGen**