

Next Gen

Developing the Business Case

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AA an active participant in NextGen...

- **Developed the first modern RNAV procedure at Eagle County Regional Airport (EGE) in 1990**
- **Operated the first (and only) simultaneous, parallel RNAV SIDs at the Dallas-Fort Worth Airport (DFW) in 2004**
 - **More than 1 Million procedures flown to date**
- **Developed an RNAV/RNP approach in South America at Mariscal Sucre Airport, Quito, Ecuador (UIO) in 2006**
- **First airline to have all Boeing fleet RNP qualification**



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AA an active participant in NextGen (continued)

- **FAA CNS (Communications, Navigation and Surveillance) Task Force**
- **RTCA Next Gen Task Force**
- **Oneworld CNS Task Force**
 - **Enable oneworld alliance synergies to monitor / engage in related activities in U.S., Europe and Asia**
- **IATA OPS, ICAO forums**
- **Test on AA Flight 63 from Paris to Miami on June 11, 2009**
 - **AA will become the first U.S. airline to test next-generation technology and procedures that will significantly reduce carbon emissions and save fuel on transatlantic routes**



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NextGen benefits...

- **Provides needed benefits for American, the airline industry and the travelling public including:**
 - **Lower noise footprint**
 - **Safety**
 - **Lower fuel consumption**
 - **Lower carbon emissions**
 - **Reduced delays**
 - **Deactivation of older ground-based navigation beacons**



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Considerations in developing the business case

- **Maximize benefits of equipage already on the airplanes**
- **Economics of moving navigation infrastructure from the ground to on the aircraft**
- **“Certainty” that a benefit will be realized on schedule**
- **Coordination of airspace changes with other aviation agencies**
- **Equitable treatments of commercial aviation vis-à-vis business/general aviation**
- **Size of investments; speed of benefits**
- **Stability of technological standards and pricing**
- **New aircraft vs. retrofit**



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