



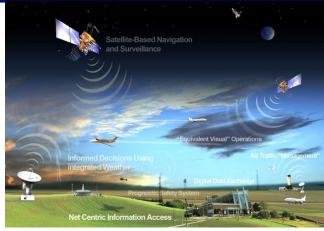
Future of ATFM

What does the future look like from your seat?

Short term, next 8 years

Long Term, beyond 2025

How will you participate in shaping the future?









Short Term

Optimal Profile Climb/Decent

Airborne Reroute (ABRR)

Required Time of Arrival (RTA)

Data Comm

Pre Departure

Airborne

Special Activity Airspace

ADS-B/C

Improved separation?

Performance Based Navigation

WiFi enabled aircraft

What else?





Unmanned Aircraft



Proximity to Commercial use airports



Piloted vs. Autonomous

Integration into NAS





Commercial Space Aviation-Style Launch Vehicle Operations **U.S. Launch Sites and Spaceports** Commercial/Government/Private Active and Proposed Sites Poker Flat Research Gulf of Mexico Range • Kodiak Airport Complex Mojave Air and Space Port Wallops Key ◆ U.S. Federal Launch Site Oklahoma Spaceport Flight Facility Non-Federal FAA-Licensed **Launch Site Cecil Field** Owned by University of Spaceport Alaska Geophysical Sole Site Operator **SPACEPORT**COLORADO -Cape Canaveral Blue Origin Air Force Station Launch site Cape Canaveral Sea Launch Platform Spaceport Other launch sites and spaceports have been proposed by: Alabama, Colorado, Reagan Test Site Florida (multiple locations), Georgia, Hawaii, Indiana, Texas (multiple locations) Kwajalein Atoll, Marshall Islands Washington, Wisconsin, and Wyoming FAA/AST: February 2013



Long Term

Can we build off the current system?

Will it be automated?

Or

Human oversight of automation?

Future is being designed NOW!



