

# Policy Perspectives on Commercial Space Transportation

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Transportation Conference

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Federal Aviation  
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# FAA and Commercial Space Transportation

- In FY 2012, we licensed 7 successful U.S. launches and 2 successful re-entries.
- In first quarter of FY 2013, FAA licensed 5 successful launches.
- This quarter, 5 more launches are planned, including two commercial missions to the International Space Station.

# FAA authority and mission

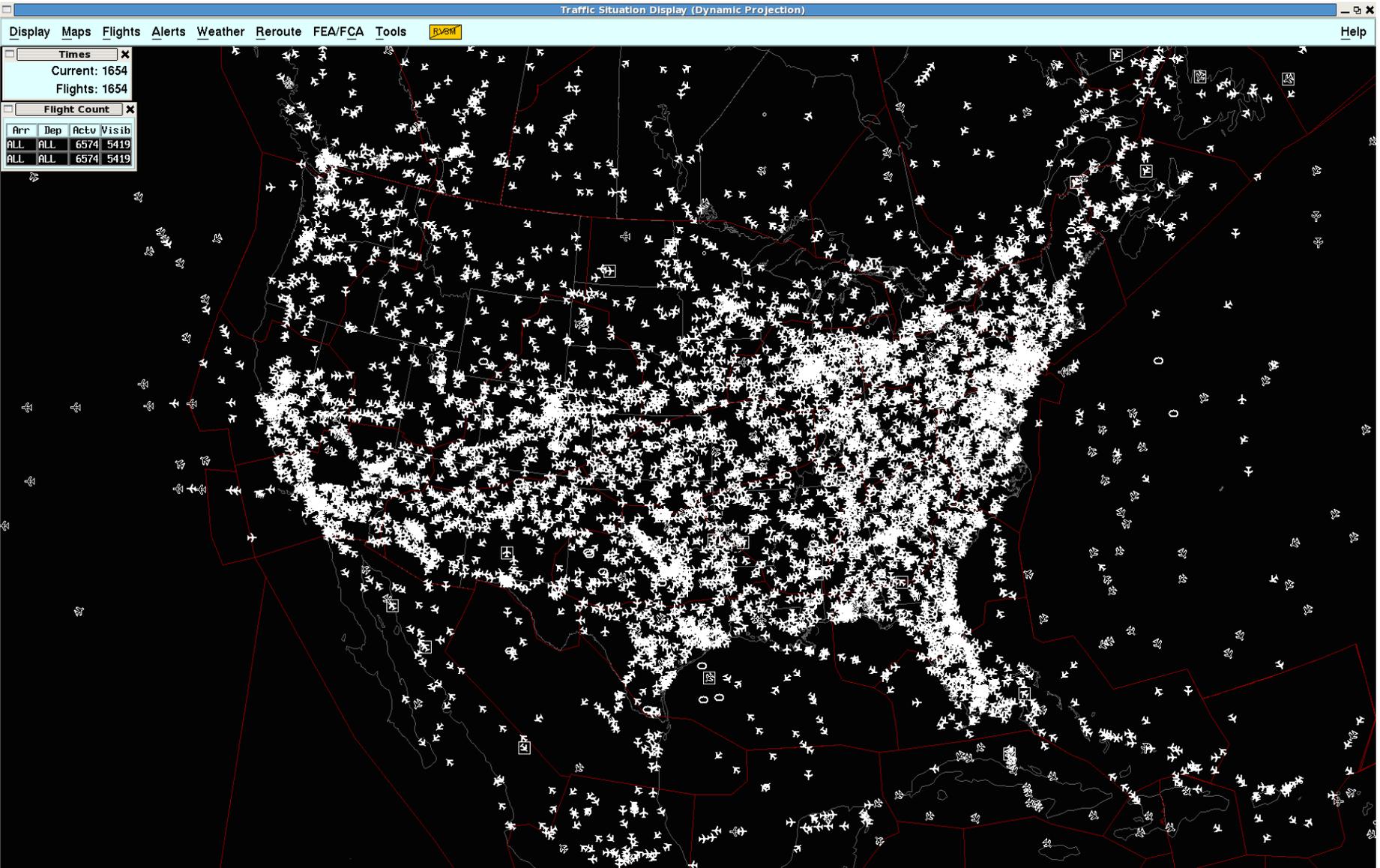
- Our continuing mission is to provide the safest, most efficient airspace system in the world – consistent with Title 49 authority.
- Title 49 also charges us with promoting and encouraging US leadership in commercial space transportation activities.
- Furthermore, the President's 2010 National Space Policy directs government departments and agencies to encourage and facilitate the growth of US commercial space transportation.



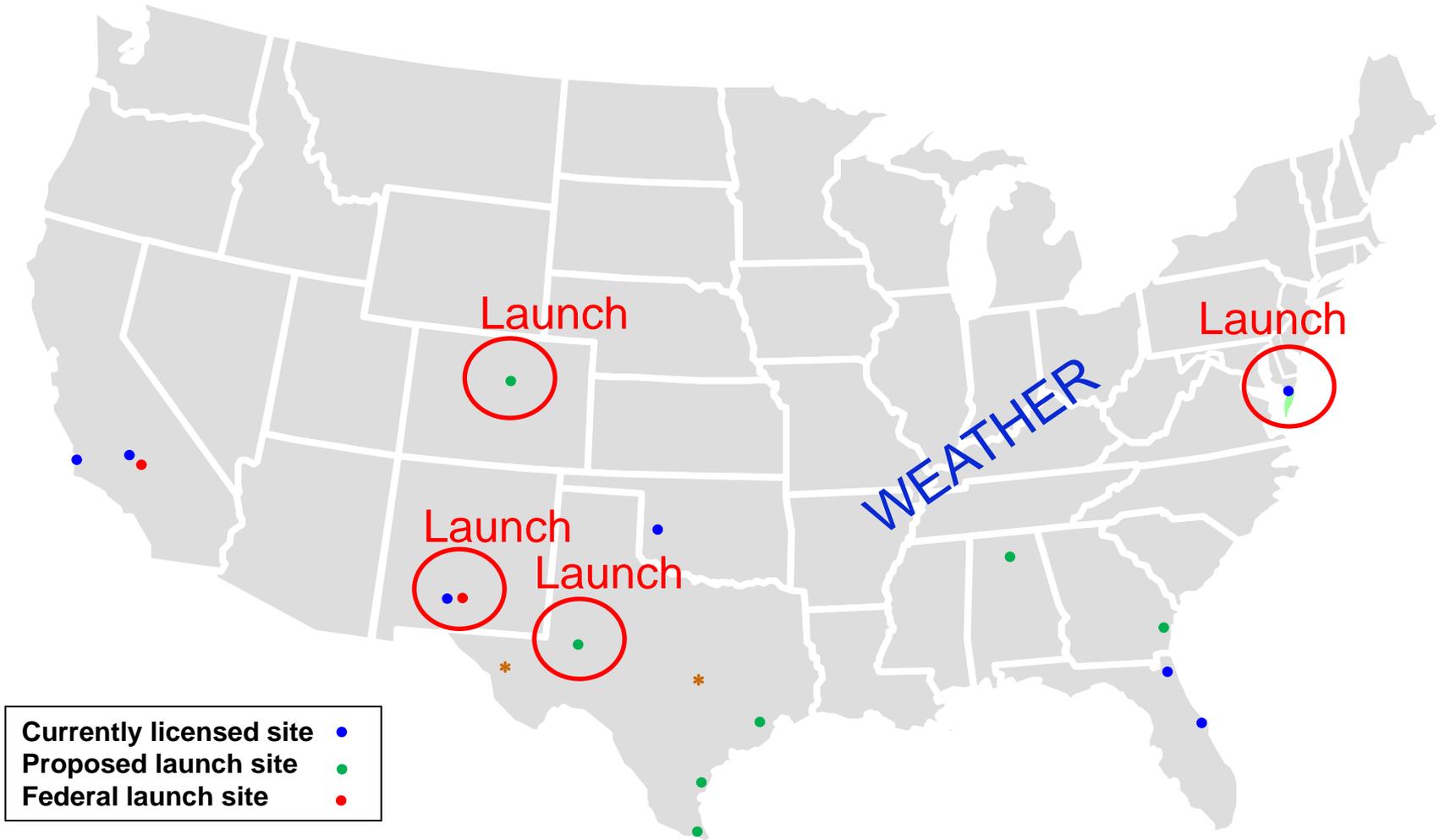
# Our Challenge

“...one of the FAA’s main tasks will be to safely integrate commercial space operations into the NAS.”

***– FAA Administrator Michael Huerta Keynote Address to 16<sup>th</sup> Annual FAA Commercial Space Transportation Conference***



# Potential Commercial Space Transportation Launch Scenario



# Need for policy framework now

- Airspace is a limited resource.
- For the foreseeable future, safety considerations require dedicated airspace for space launches and re-entries.
- Currently able to accommodate space launches and re-entries on a case-by-case basis.
- Need to prepare for future NAS demands, that will include manned and unmanned aircraft as well as growing commercial and military space transportation and amateur rocket activities.

# Policy Issues

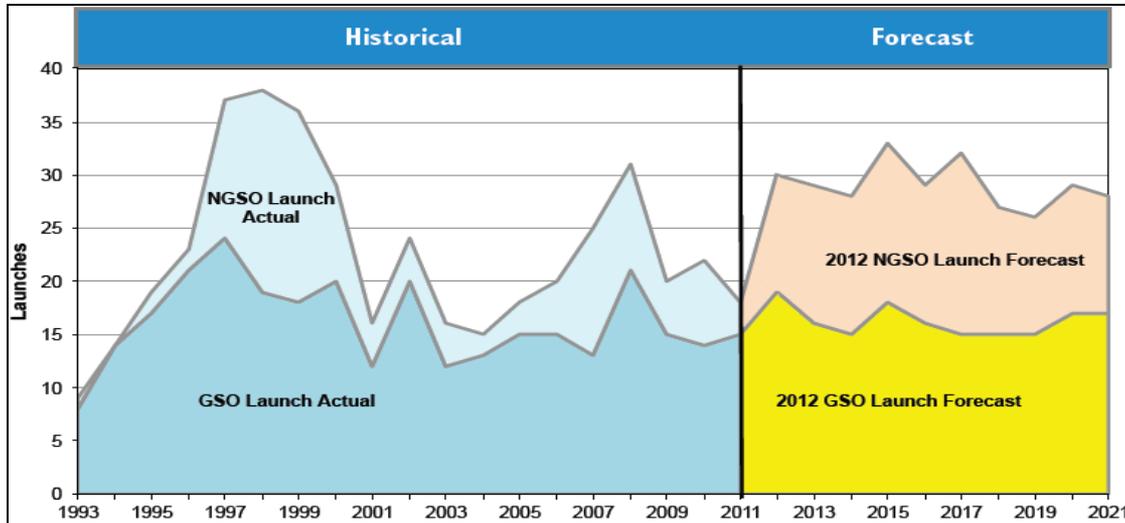
- **Manage demand for finite airspace** among space launch and reentry operations, aviation operations, as well as amateur rocket activities.
- Work with broader community on commercial space transportation activity in **Special Use Airspace**.
- Notification to **foreign nations of potential hazards** of space launch and reentry operations and sharing of safety data with those nations.
- Manage the hazards to aircraft in the NAS from **reentering space debris**.

# International Activities

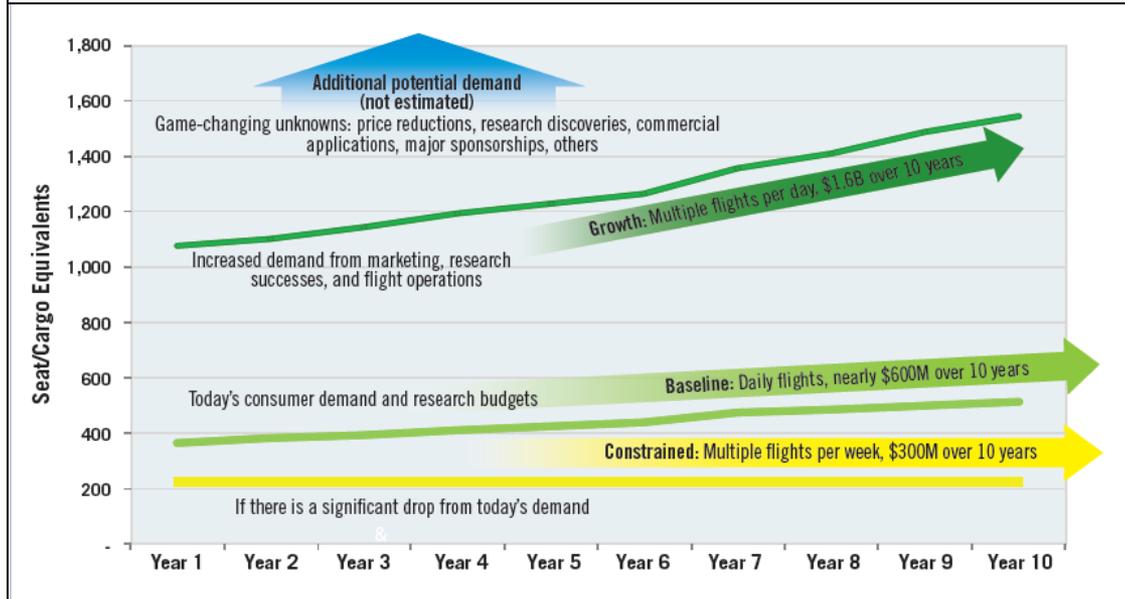
- As compared with our global partners, we have a relatively mature set of regulations for the commercial space transportation industry.
- We are starting our dialogue with other countries about regulatory cooperation and promoting our regulations internationally for adoption in accordance with the 2010 National Space Policy.



# Forecasting



**Total demand of 509 satellites and 291 commercial launches (2012-2021)**



**Potential for significant growth in suborbital reusable vehicles (SRV) – 10-year forecast**

