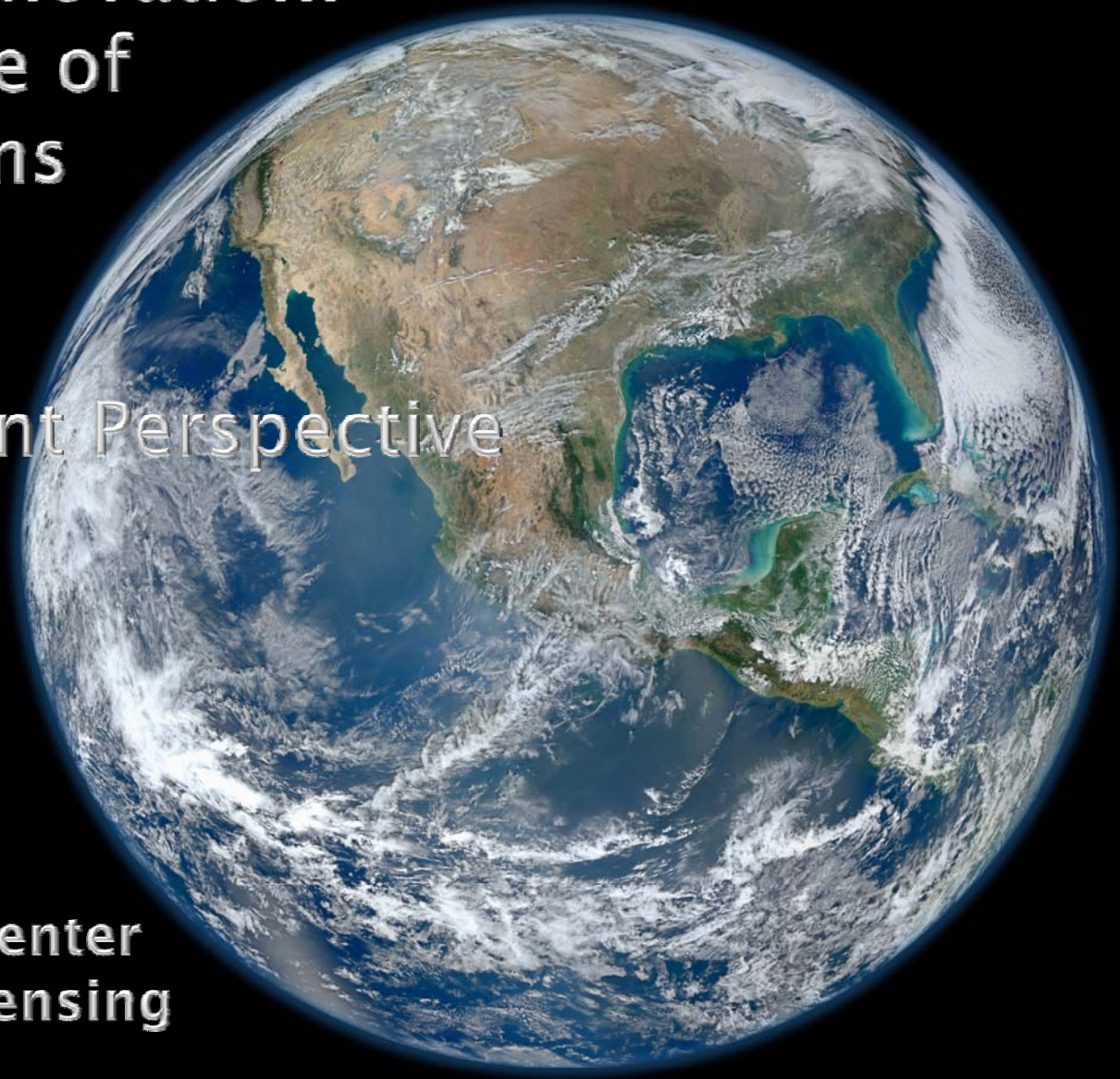


Collaboration and Innovation: The Changing Nature of Government Programs

A Civilian Government Perspective

Doreen Neil
NASA Langley Research Center
Earth Science & Remote Sensing

May 9, 2012





Some civilian government agencies in space:

1. National Oceanic and Atmospheric Administration: daily weather forecasts, severe storm warnings, fisheries management, coastal restoration, and supporting marine commerce.
2. Federal Aviation Administration: WAAS provides vertically-guided landing approaches and other services for all classes of aircraft in all phases of flight - including en route navigation, airport departures, and airport arrivals.
3. United States Coast Guard: Identify, track and communicate with marine vessels using the Automatic Identification System, a maritime digital communication system that continually transmits and receives vessel data.

NASA's vision: To reach for new heights and reveal the unknown so that what we do and learn will benefit all humankind.

Human exploration of space
Earth and space science missions

Space technology and innovation
Aeronautics research

The NASA Earth Fleet

■ Launch-CY2011
■ Launch-CY2013





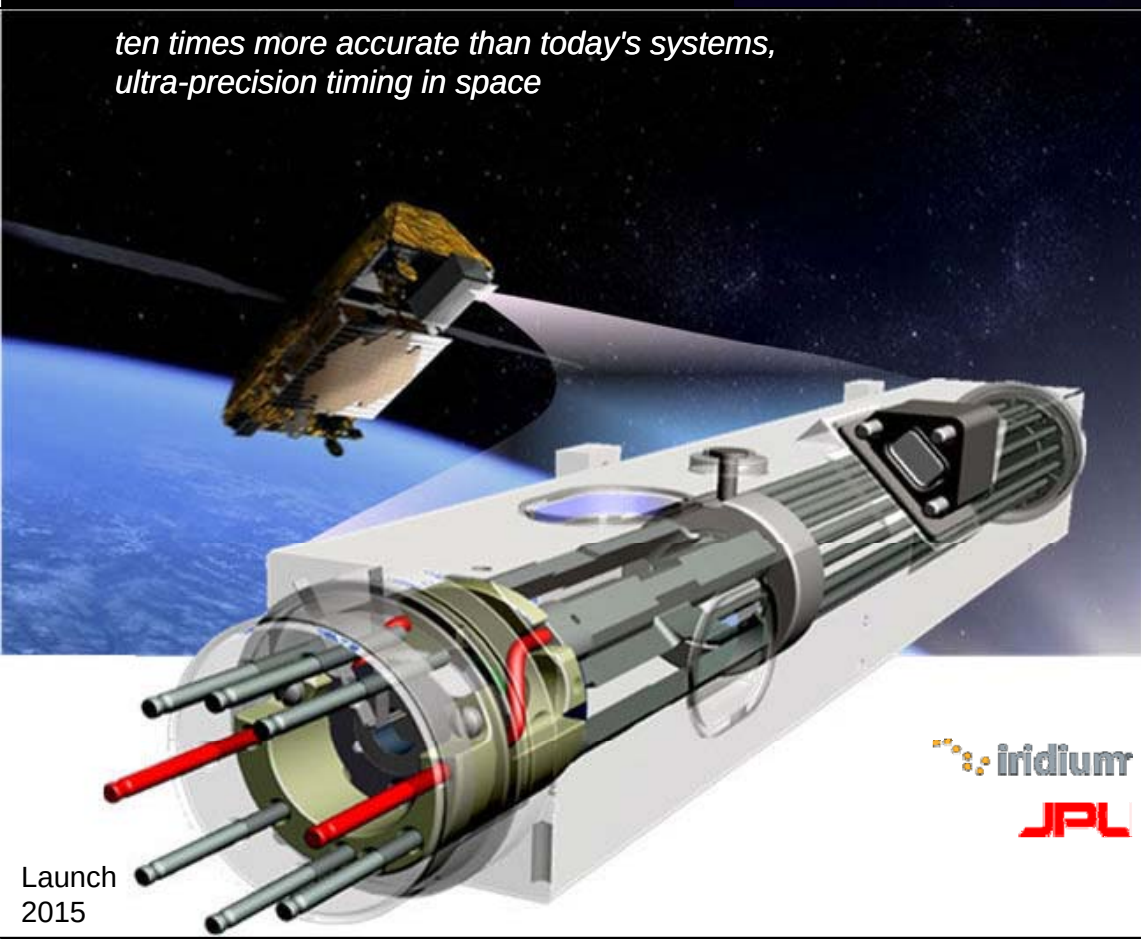
LASER COMMUNICATIONS RELAY DEMONSTRATION

bridging the gap to the next era of space communications

Launch 2014

DEEP SPACE ATOMIC CLOCK

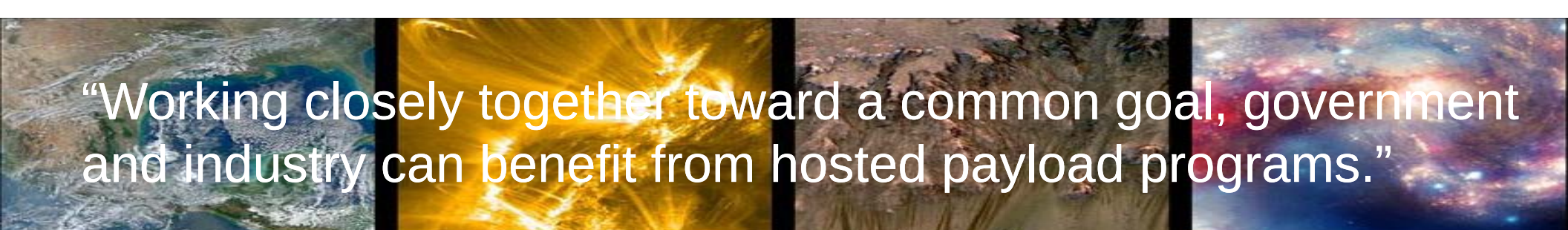
*ten times more accurate than today's systems,
ultra-precision timing in space*



Launch
2015



Commercially hosted
NASA payloads
in development



“Working closely together toward a common goal, government and industry can benefit from hosted payload programs.”

Government teammates are thinking differently about how government executes programs:

1. Commercial terms and conditions (Far Part 12) for hosting services.
2. Separate acquisition of hosting services and payload.
3. Establish a common ACQUISITION interface.
4. Devolve government decision authority to allow rapid decision making.
5. Prioritize/Commit to funding project as planned to assure timely delivery.
6. Eliminate changes in scope to maintain schedule.

Government teammates are adopting standard practices:

1. Frequent in-person communications.
2. Payload nearly flight-ready before hosting contract signed.
3. Address expectations between commercial high reliability program and government Class D payload.
4. Few-of-a-kind government payloads lead to more varied, less re-usable commercial I&T processes and procedures.