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Commercial Crew: Launch America

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National Aeronautics and Space Administration

NASA

COMMERCIAL CREW

LAUNCH AMERICA

Path to Flight
May 2016

www.nasa.gov

COMMERCIAL CREW BENEFITS

Transforming Human Spaceflight for Future Generations

Cost-Effective

Developing safe, reliable crew transportation to the International Space Station that reduces reliance on foreign systems.

SPACEX CREW DRAGON & BOEING CST-100 STARLINER

$58 MILLION
per seat

RUSSIAN SOYUZ

$81 MILLION
per seat

COMMERCIAL CREW BENEFITS

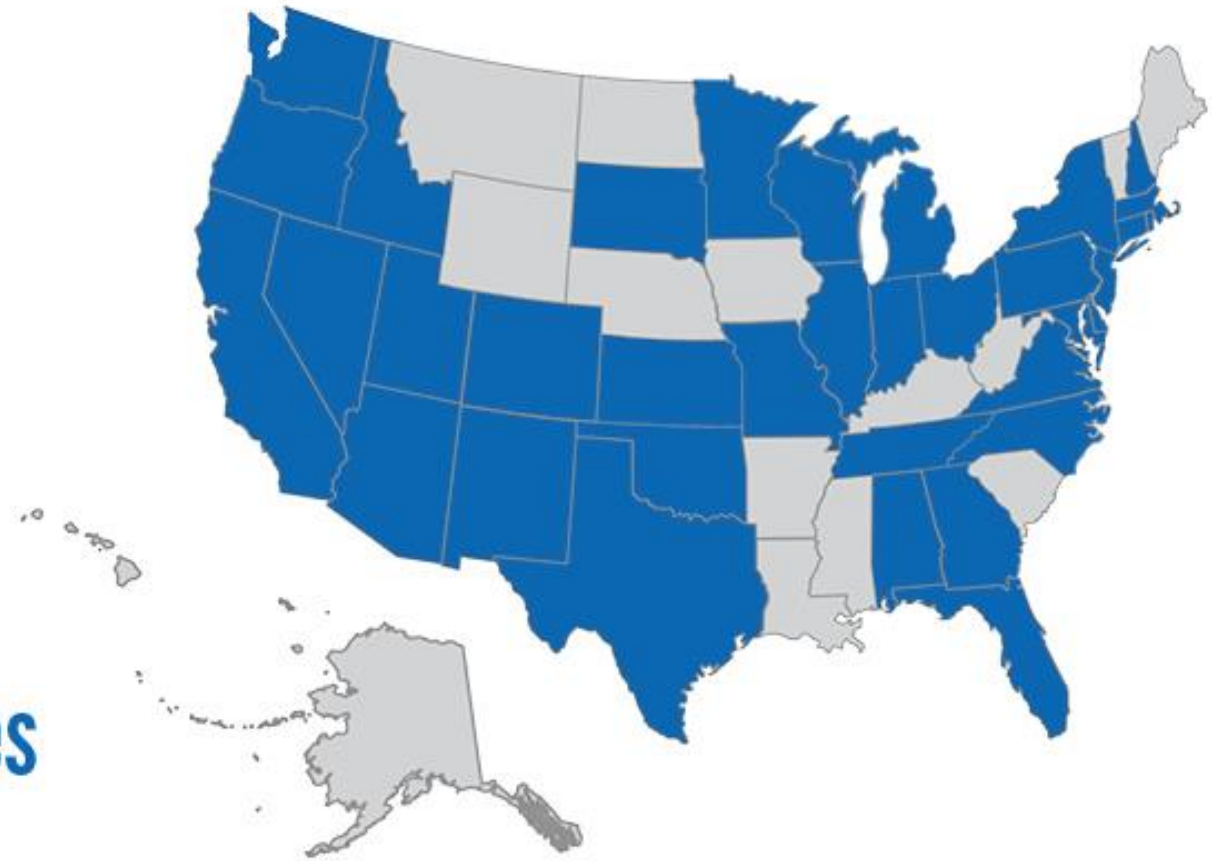
Transforming Human Spaceflight for Future Generations

American Ingenuity

Lowering the cost of access to space and enhancing the U.S. economy.

35 states

350+ companies



Focus on Science

2X

more time for research aboard the National Lab

Working Off The Earth for Commercial Crew

Robotics

Permanent Multipurpose Module

Relocation from Unity to Tranquility

Spacewalks

800 feet of cable

4 antennas

3 laser reflectors

Common Communication

2 radios delivered, **1** activated

Preparing for IDA

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Working On The Earth for Commercial Crew

- Working **shoulder-to-shoulder** with Boeing and SpaceX as they **design**, **develop**, **test** and **evaluate** their crew transportation systems.
- Through robust **insight** and **oversight**, **Commercial Crew** is ensuring NASA's safety and performance requirements are met.
- Ordering first guaranteed **post-certification missions** to account for mission delivery schedules.
- Building on NASA's **partnerships** with other government agencies, such as the **FAA**, **NTSB**, **Air Force** and **DOD**.
- Processing and testing the **International Docking Adapters** that will fly to station on **cargo resupply** missions and serve as connection points for **commercial crew** spacecraft visiting the orbiting laboratory.

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Astronauts once again will launch to the International Space Station from

Florida's Space Coast

Boeing's **Starliner** will launch atop ULA's **Atlas V** from SLC-41, and SpaceX's **Crew Dragon** will launch atop the **Falcon 9** from Launch Pad 39A

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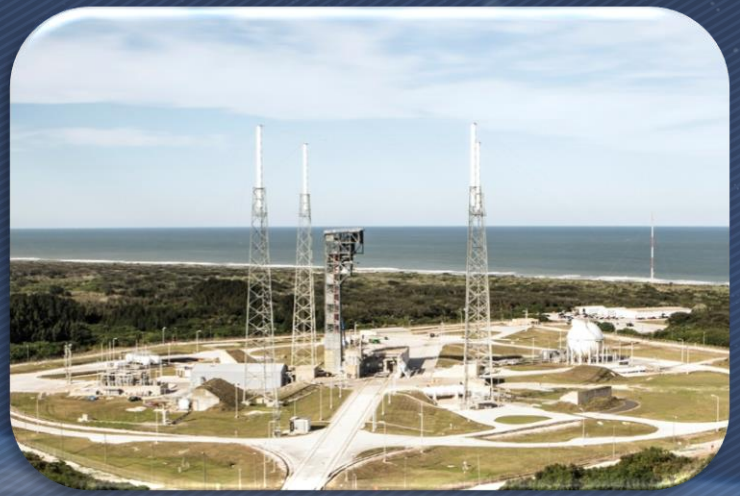
Working On The Earth for Commercial Crew

Boeing's **Starliner** Progress

- Crew Training for Flight Tests
- Crew Access Tower Construction
- Structural Test Article Join



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Working On The Earth for Commercial Crew

SpaceX's **Crew Dragon** Progress

- Crew Training for Flight Tests
- Pad and Hangar Construction
- Crew Dragon Interior Reveal

Working On The Earth for Commercial Crew

Moving forward on the **final development** and **certification** of **two** safe, reliable and cost-effective, **American-made** crew transportation systems.

Selecting the group of NASA **astronauts** who will train for **flight tests** to the International Space Station.

Ordered the first **three** of **four guaranteed** post-certification missions from Boeing and SpaceX

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NASA
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