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SPACE2016

Commercial Spaceports

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ICAO / UNOOSA Symposium

15–17 March 2016, Abu Dhabi, United Arab Emirates

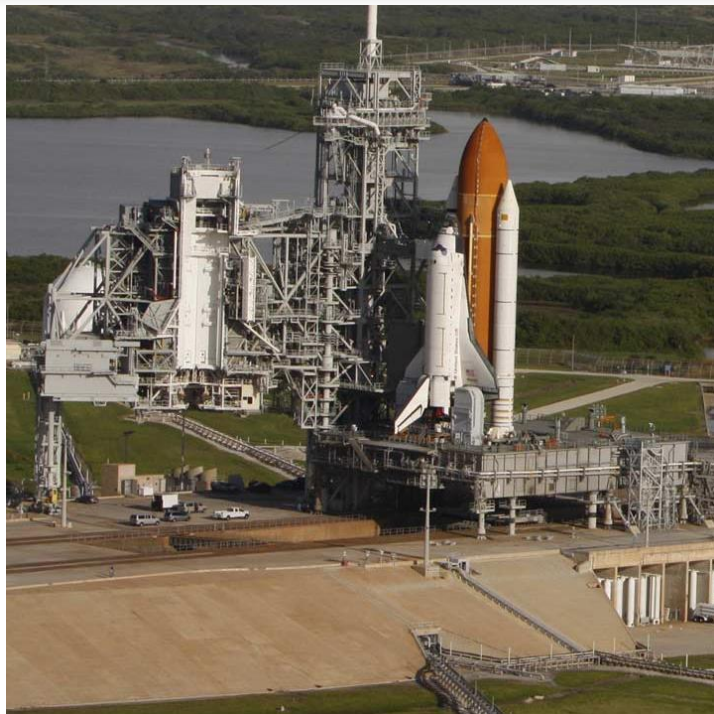


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Vertical Launch Vehicles



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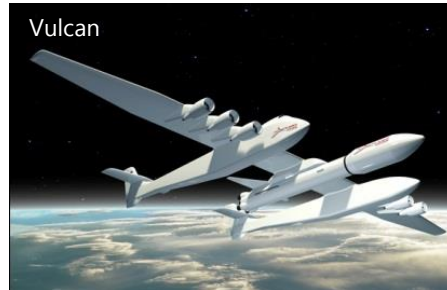
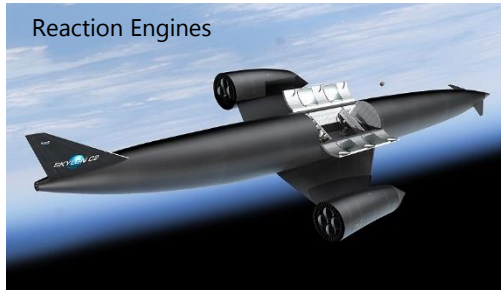
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Horizontal Launch Vehicles



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Other Spaceport Users



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Commercial Vertical Launch Spaceports

● Licensed

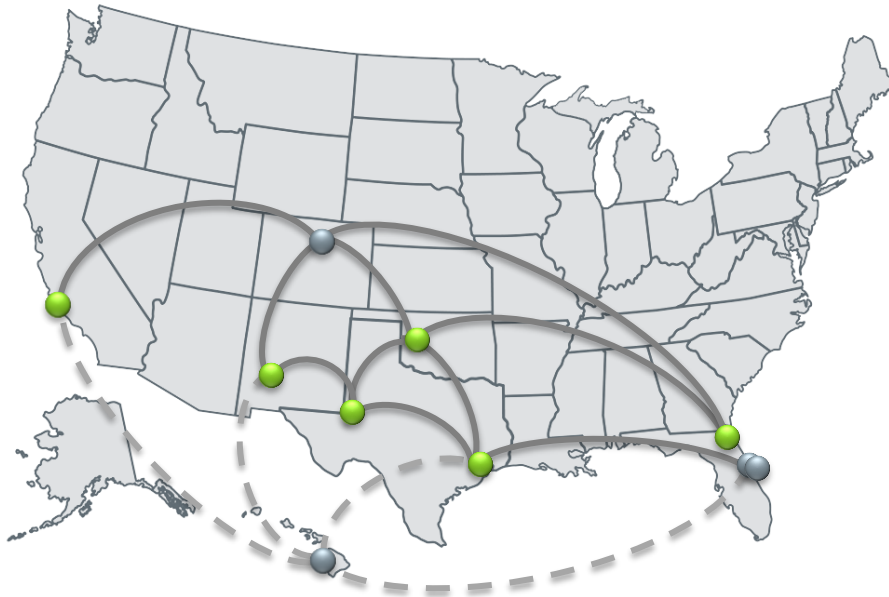
- Kodiak Launch Complex
- California Spaceport
- Mid Atlantic Regional Spaceport
- Space Florida Spaceport

● Proposed

- Brownsville Texas
- Shiloh Launch Complex
- Georgia Spaceport
- Kennedy Space Center



Commercial Horizontal Launch Spaceports



Licensed

- Mojave Air and Space Port
- Oklahoma Spaceport
- Spaceport America
- Cecil Spaceport
- Midland Spaceport
- Houston Spaceport

Proposed

- Hawaii Air and Space Port
- Titusville Spaceport
- Spaceport Colorado
- Shuttle Landing Facility



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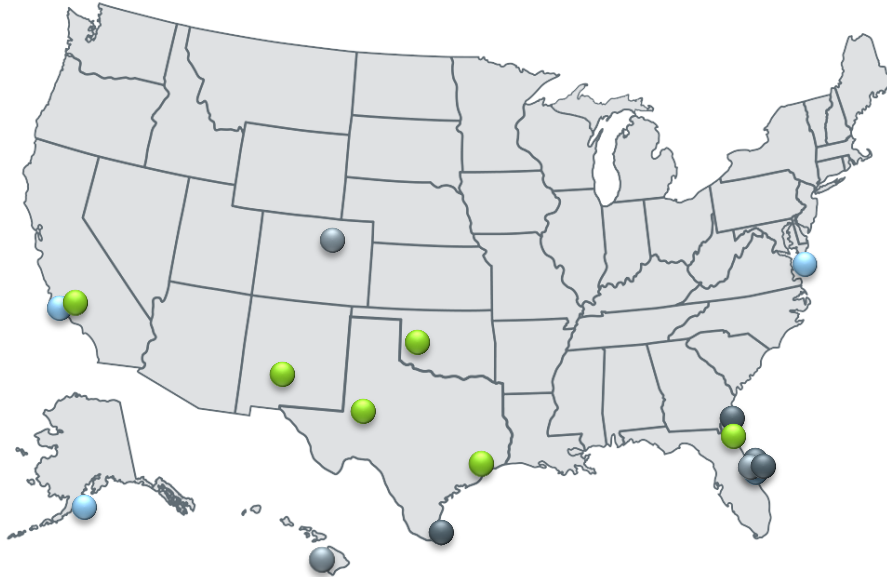


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Network of Commercial Spaceports

18
TOTAL



Horizontal

- 6 Licensed
- 4 Proposed

Vertical

- 4 Licensed
- 4 Proposed

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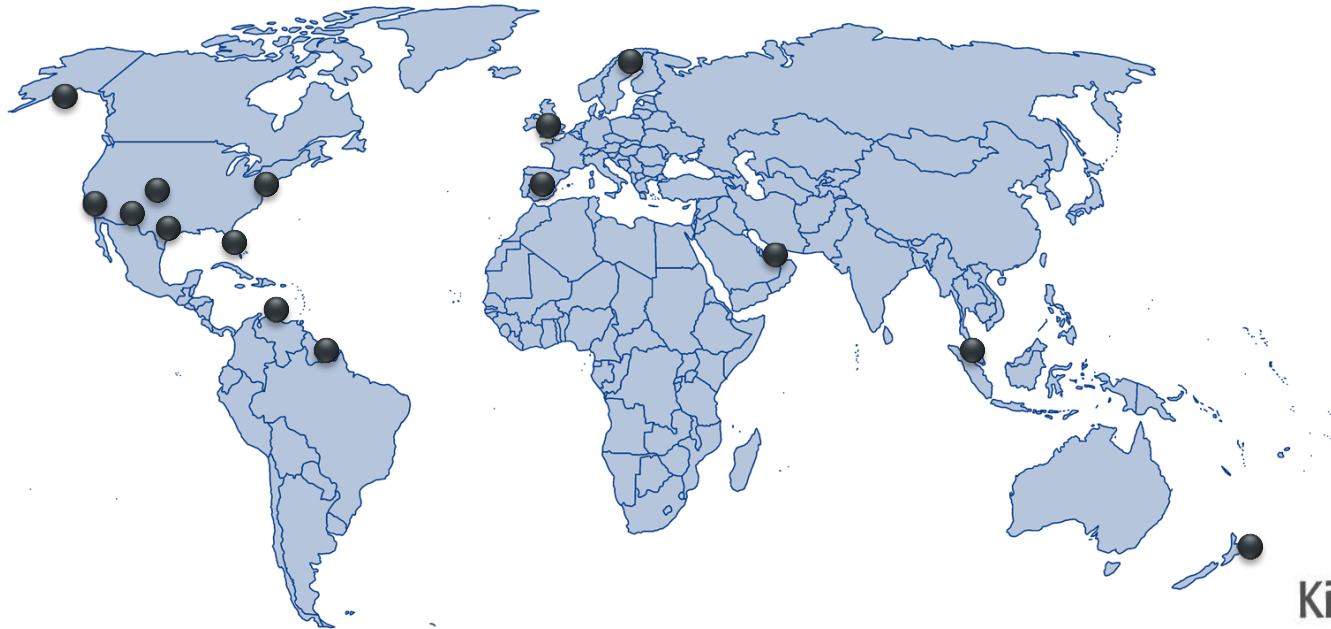
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International Commercial Spaceports



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Commercial Spaceport Critical Elements

- Regulations – FAA Licensing
 - Launch & Reentry Licenses
 - Launch Site & Reentry Site Licenses
- Compatible Airspace
 - Flight Operations
 - Flight Safety & Risk Analysis



Commercial Spaceport Critical Elements

- Safe Ground Operations
 - Explosive Site Plans & Operating Areas
 - Emergency Response & Accident Investigation Plans
- Necessary Ground Infrastructure
 - Processing & Integration Facilities
 - Propellant Storage & Handling



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THANK YOU

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