



NASA Langley: Catalyst for Space Innovation and Testing

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NASA Locations

1 Langley Research Center
Hampton, VA

2 Goddard Space Flight Center
Greenbelt, MD

W Wallops Flight Facility
Wallops Island, VA

HQ NASA Headquarters
Washington, D.C.

3 Kennedy Space Center
Cape Canaveral, FL

4 Glenn Research Center
Cleveland, OH

5 Marshall Space Flight Center
Huntsville, AL

6 Stennis Space Center
Bay St. Louis, MS

7 Johnson Space Center
Houston, TX

8 Armstrong Flight
Research Center
Edwards, CA

9 Jet Propulsion Lab
Pasadena, CA

10 Ames Research Center
Mountain View, CA



NASA Langley Missions

National Aeronautics and
Space Administration

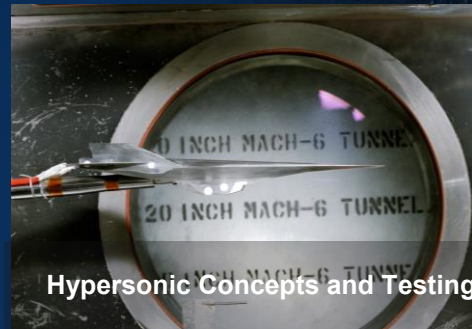


AERONAUTICS

Make air transport
faster, safer, and cleaner



Next Gen Aviation
Concepts



Hypersonic Concepts and Testing



Trusted UAS Autonomy

EXPLORATION

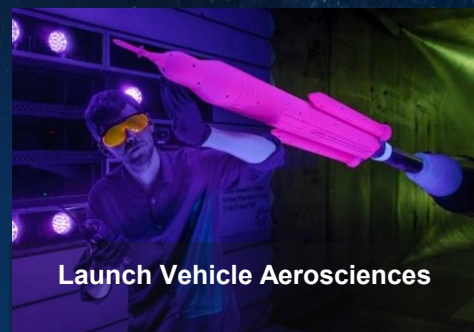
Create building blocks
for deep space missions



Hypersonic Inflatable
Decelerators



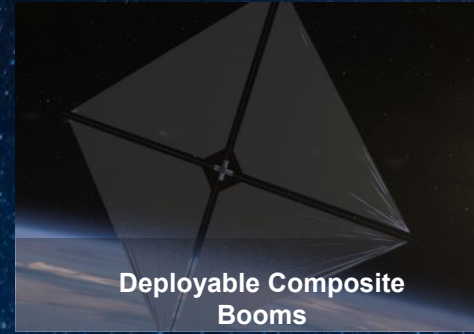
Ground Test of Landing Systems



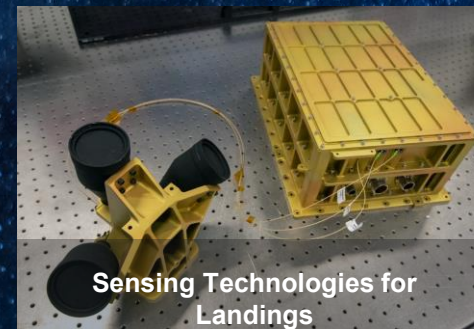
Launch Vehicle Aerosciences

SPACE TECHNOLOGY

Enabling Tech to advance
human and robotic exploration



Deployable Composite
Booms



Sensing Technologies for
Landings



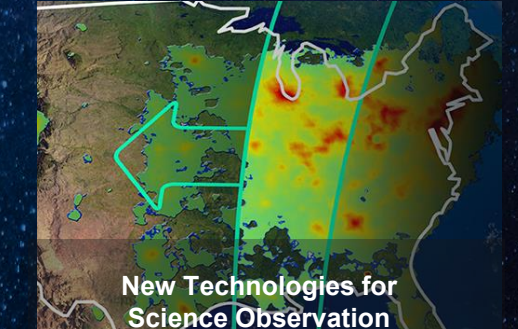
Autonomous Surface Assembly
and Manipulation

SCIENCE

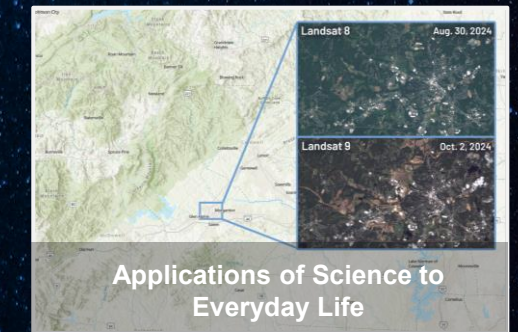
Science here and on other
worlds



Scientific Airborne Campaigns

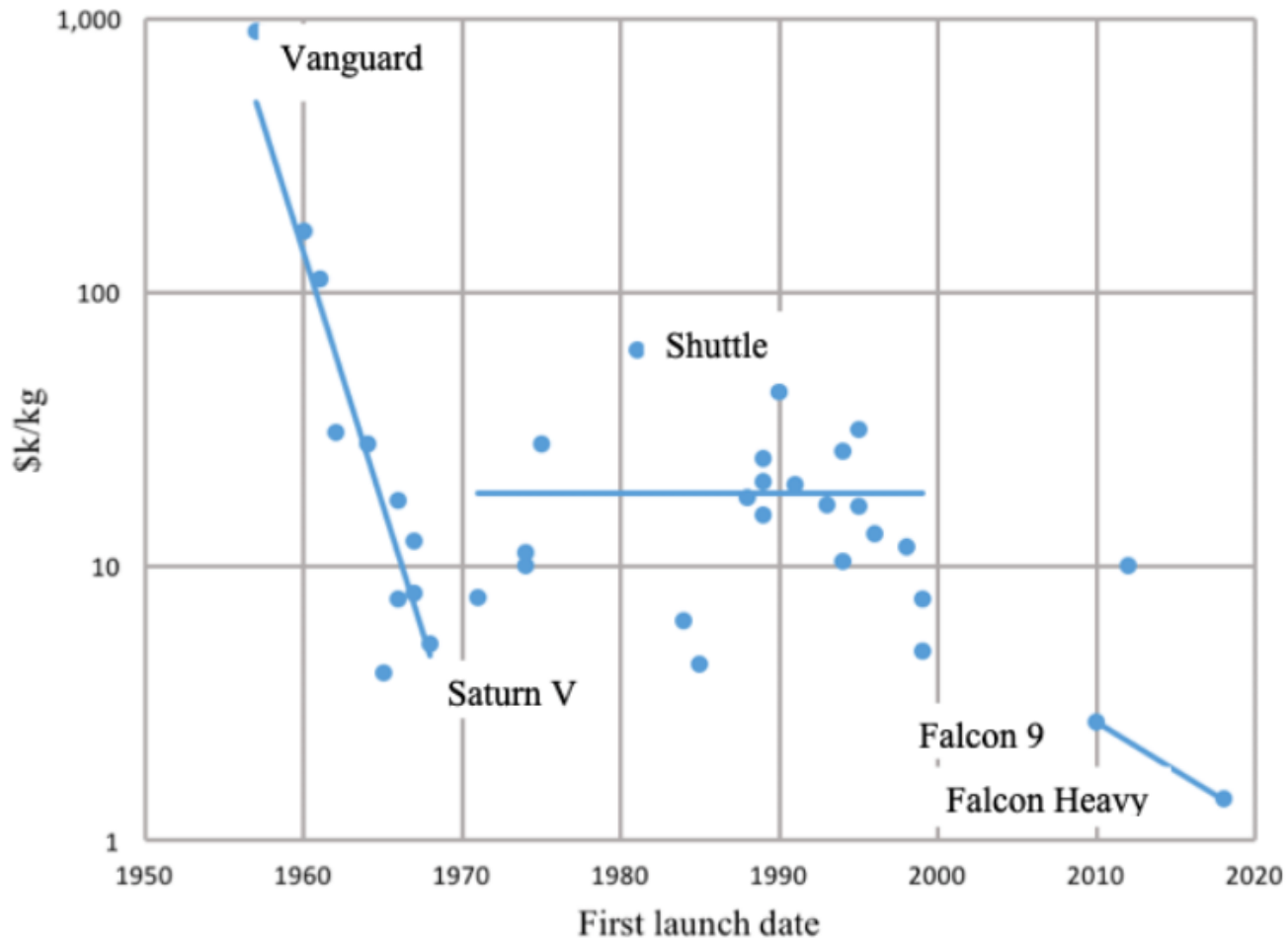


New Technologies for
Science Observation



Applications of Science to
Everyday Life

Space Launches by the Numbers



Changes in launch cost per kilogram to low earth orbit. Note: From The Recent Large Reduction in Space Launch Cost, by H. Jones, 2018, Paper presented at the 48th International Conference on Environmental Systems. Albuquerque, NM, US: National Aeronautics and Space Administration.

In 2023, 2,664 objects were launched into space. Ten years earlier there were <100.

US agencies and companies were responsible for launching 81% of the global total.

Economists now estimate that the global space economy will be worth \$1.8 trillion by 2035.

Every Company Is a Space Company... Some Just Don't Know it Yet!

James Causey OpEd published November 20, 2019
SpaceCom's Executive Director



KSC Landscape 2024

Currently, more than 105 partners and 232 partnership agreements

Amazon
Project Kuiper
Space Florida LLF

Boeing
CST-100

SpaceX
Hangar X

FPL
Solar Site
Lockheed Martin
STAR Center

Astrotech Space Operations

KSC Visitors Complex

Space Florida
Exploration Park &
Space Life Science Lab

Airbus OneWeb

Firefly

Blue Origin
Manufacturing Complex

Sierra Nevada
Dream Chaser

NASA
Artemis SLS

SpaceX
Falcon 9/Falcon Heavy

NASA Launch Complex 48

ULA
Atlas V/Vulcan

SpaceX
Falcon 9

ULA
Delta IV

Firefly

Relativity Space

ABL

Stoke Space

Phantom Space & Vaya Space

Blue Origin
New Glenn

Lockheed Martin
Orion Manufacturing

In FY23, KSC Reimbursable Space Act Agreements with non-federal partners totaled \$153 million and generated \$3.0 million in enhanced use lease revenue for KSC.

How can you partner with NASA for space innovation and testing?

- (1) Facilities you can access...
- (2) Technologies you can license...
- (3) Opportunities you can pursue...

NASA Langley Research Facilities

National Aeronautics and
Space Administration



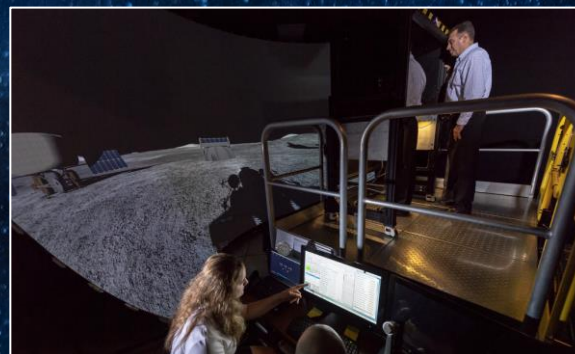
LABORATORIES



GROUND TEST FACILITIES



SIMULATORS



FLIGHT



NASA Aerosciences Facilities

Major Capabilities

Specialty Tunnels



Icing Research Tunnel
Aircraft Icing Condition Simulation



Propulsion Simulation Laboratory
Engine and Icing Simulation



Flight Dynamics Research Facility
Spin and Forced Oscillation
-Under Construction-

Subsonic



9x15-Ft Low-Speed Wind Tunnel
Propulsion systems
performance & acoustics



14x22-Ft Subsonic Tunnel
Takeoff, Landing, Ground Wind
Loads & Aeroacoustics



Low-Speed Aeroacoustic Wind Tunnel
Simulation of Jet Exhaust

Transonic



Unitary Plan Wind Tunnels
11-Ft Transonic &
9x7-Ft Supersonic Tunnels



**Transonic Dynamics
Tunnel*****
Aeroelasticity & Flutter



**0.3-m Transonic
Cryogenic Tunnel**
High Reynolds Number Flows



**8x6-Ft Supersonic
Wind Tunnel**
Propulsion systems performance



**National Transonic
Facility****
High Reynolds Number



20-In Supersonic Wind Tunnel
Supersonic Flows

Supersonic



10x10-Ft Supersonic Wind Tunnel
Large-scale Supersonics &
Propulsion



**4-Ft Supersonic
Wind Tunnel**
Supersonic Vehicles



**8-Ft High
Temperature Tunnel****
Large-scale Hypersonics
& Propulsion



**Aerothermodynamic
Laboratory Complex***
Hypersonic Aerothermal



SCRAMJET Complex
Hypersonic Propulsion

Hypersonic

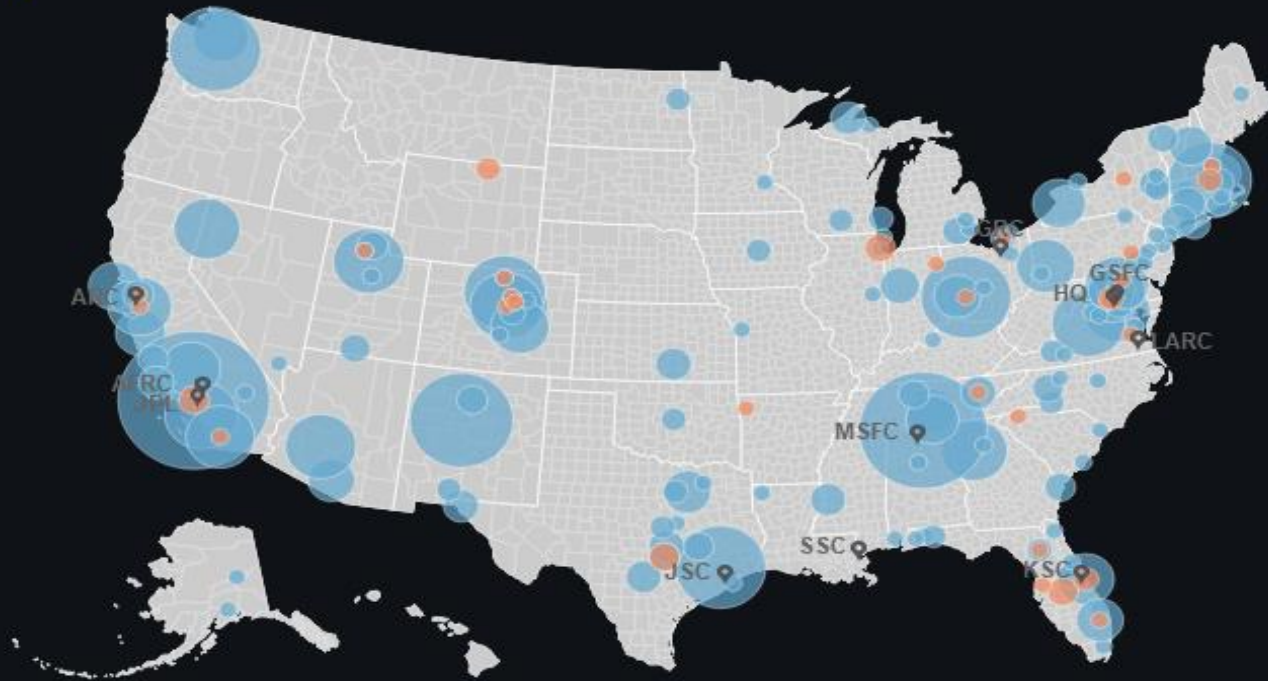
* NASA Unique, ** Nationally Unique, *** World Unique

LANGLEY WIND TUNNELS

Technologies you can license...

Harnessing Innovation Spillovers - Licenses

Technology Transfer National Impact



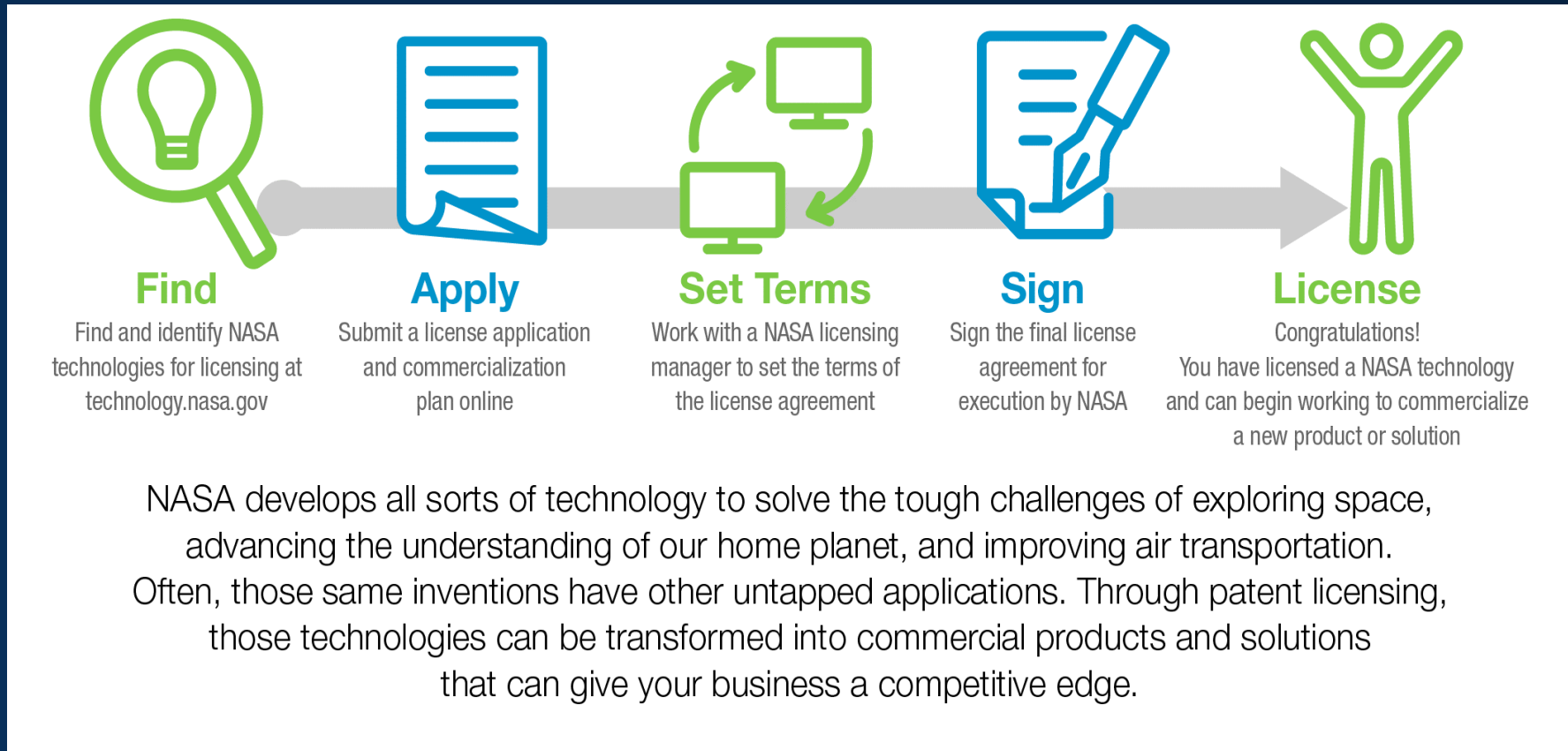
2015 to Present

NASA Agency

Licensing Totals	1,301
Software Usage Agreements Executed	38,195

In FY2020, DOE reported the largest number of invention disclosures with 2,021, **followed by NASA with 1,882**, and DoD with 804. These three agencies accounted for **78% of all** invention disclosures reported in FY 2020.

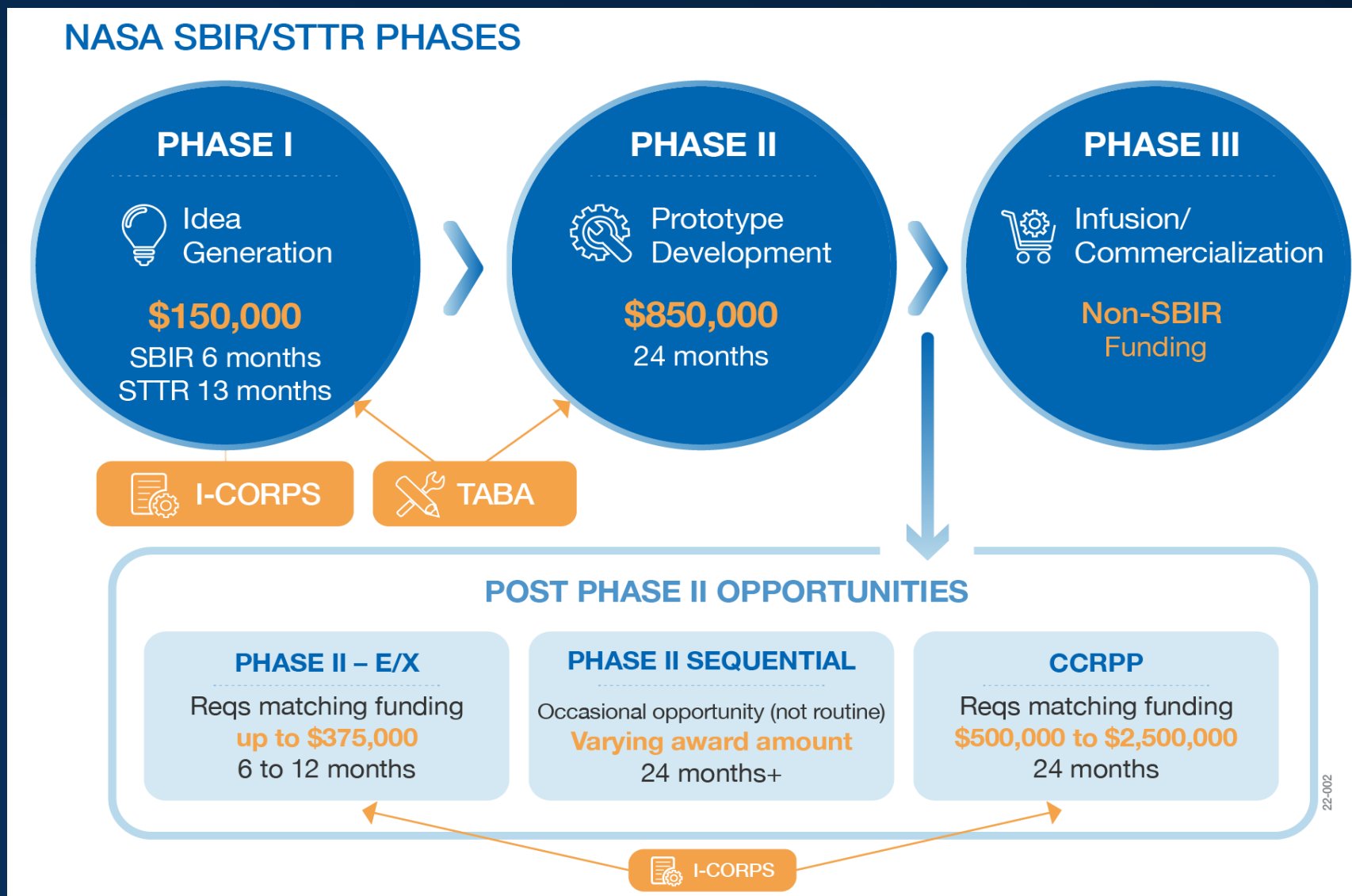
HOW TO LICENSE A TECHNOLOGY



<https://technology.nasa.gov/license>

**Opportunities you can
pursue... approximately
85% of NASA's funding
goes out of house**

NASA SBIR/STTR Opportunities

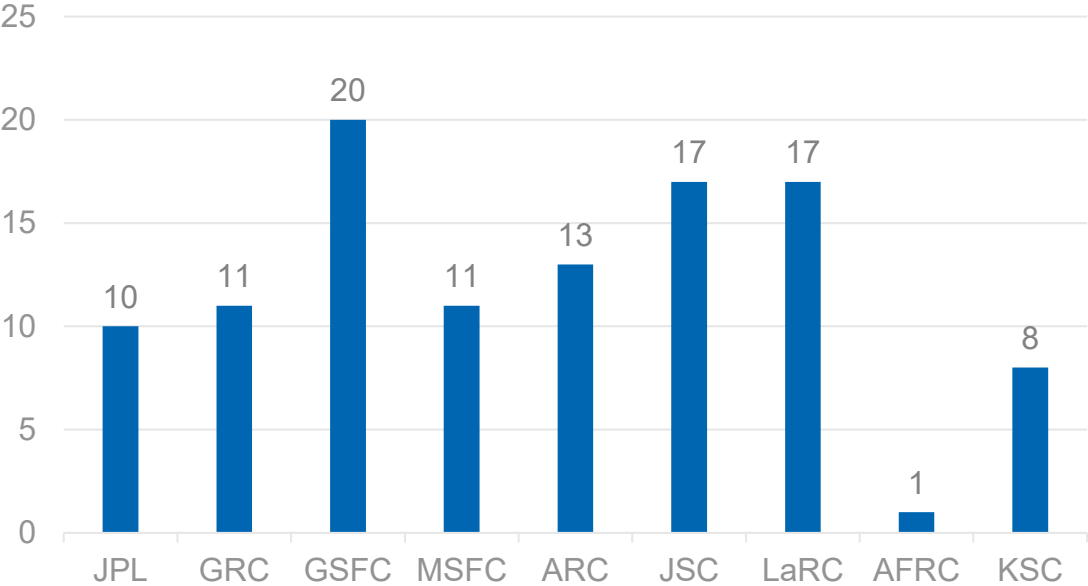


2024 SBIR/STTR Phase II Selections announced on May 14, 2025

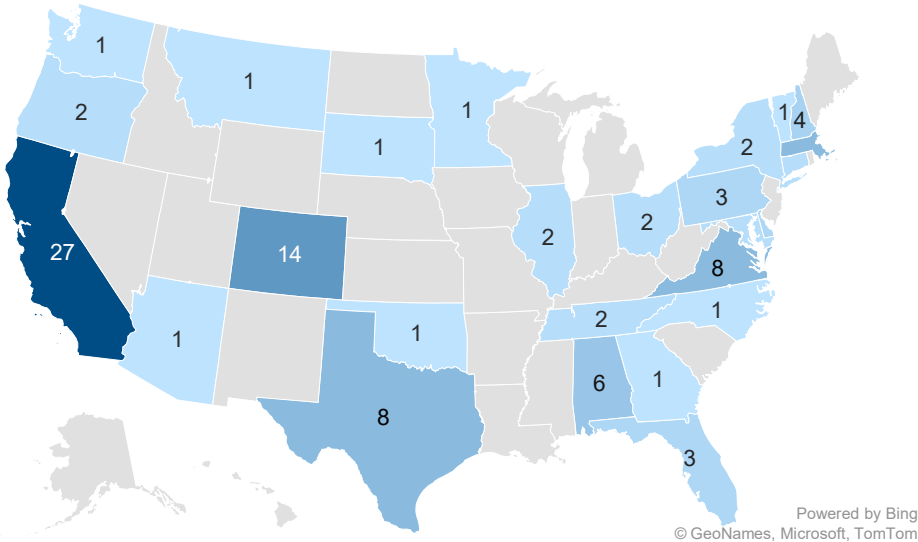








The program selected **108** proposals total

2024 SBIR Phase II Awards distributed by Center



2024 SBIR Phase II Awardees



						
	Proposed	Awarded	Women Owned	Veteran Owned	Minority Owned	HubZoned
SBIR PY24 PII	230	108	19	0	19	3

Small Business Resources



NASA Acquisition Forecast

- Expected contract opportunities in a downloadable spreadsheet format
 - By Center
 - By Quarter and Fiscal Year

Active Contract Listings (ACLs)

- Record NASA recurring acquisitions in the categories of:
 - Accounting Financial Business Services
 - Administrative Services
 - Environmental Services and Remediation
 - Facilities Maintenance
 - IT
 - Multiple Award Construction
 - Occupational Health
 - Protective Services

SAM.gov

- List procurement notices
- Searchable procurement opportunities
- Set your account for [Searches and Notifications on SAM.gov](#)
 - NAICS, Agency or Word search
- Sources Sought Announcements (SSA) and Requests For Information (RFI)
 - Respond to the announcement as stated
 - Assist in making SB Set-aside decisions
- [Federal Procurement Data System – FPDS](#)
 - Multiple Data Points within FPDS
 - Registration not required for searches

NASA Vendor Database

- The NASA Vendor Database (NVDB) is open to all vendors, both large and small, who wish to do business with the National Aeronautics and Space Administration.
 - Build a company profile
 - Conduct vendor search
 - Increase company visibility at NASA!
- For more information, visit:
<https://www.nasa.gov/osbp/nasa-vendor-database>



National Aeronautics and
Space Administration

