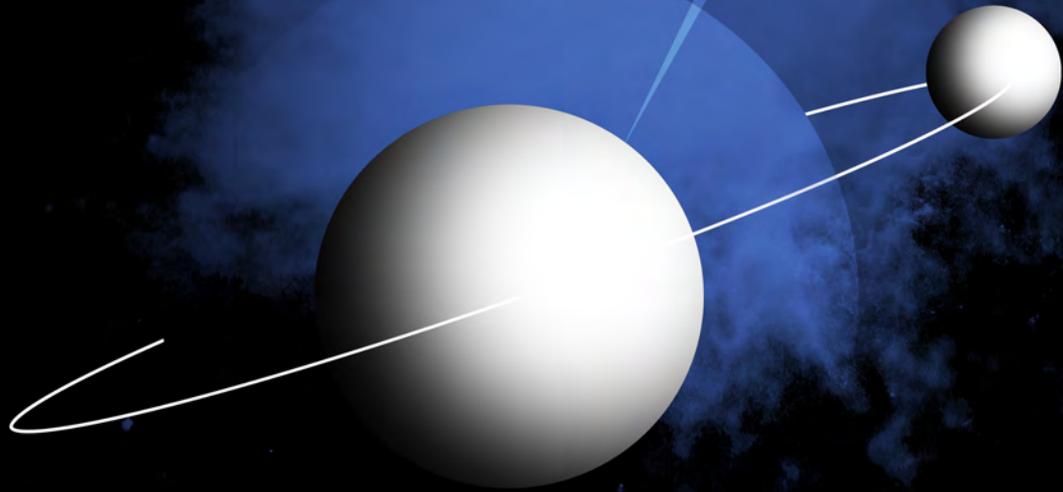




Space Launch System

The Future of Exploration



Dawn Stanley
Space Launch System
NASA Marshall Space Flight Center

December 13, 2013

SLS Future Frontier Video
Goes Here!



A Deeper Purpose, A Bolder Mission



“To reach for new heights...

and reveal the unknown so that what we do
and learn will benefit all humankind.”



The Next Great Ship



Ships of exploration opened the paths
that became today's trade routes.



Orion:
Carrying astronauts into deep space

NASA'S Space Launch System

Core Stage:
Newly developed for SLS,
the Core Stage towers more
than 200 feet tall

RS-25 Engines:
16 Space Shuttle engines are
already in inventory

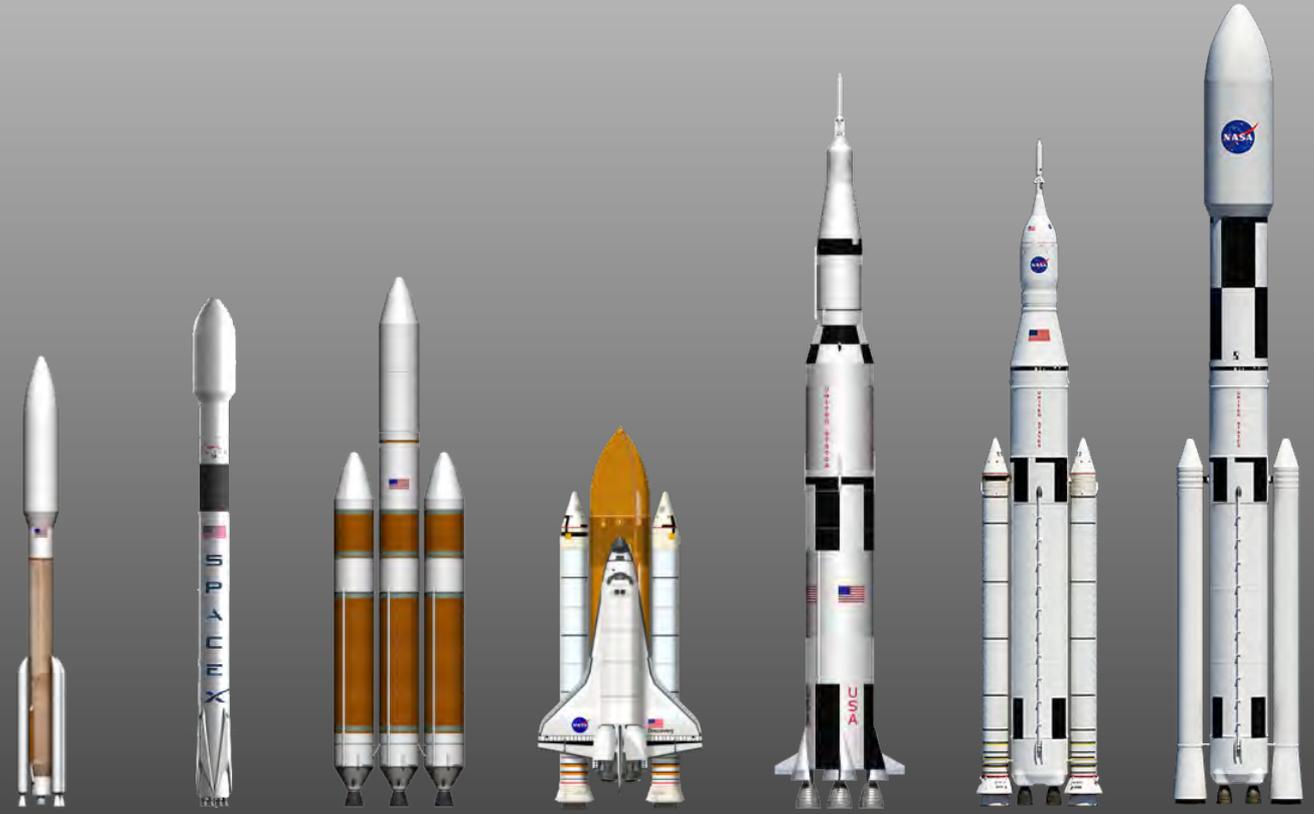


Interim Cryogenic Propulsion Stage:
Based on the Delta IV Heavy upper
stage; the power to leave Earth

Solid Rocket Boosters:
Built on Space Shuttle
hardware; more powerful for a
new era of exploration



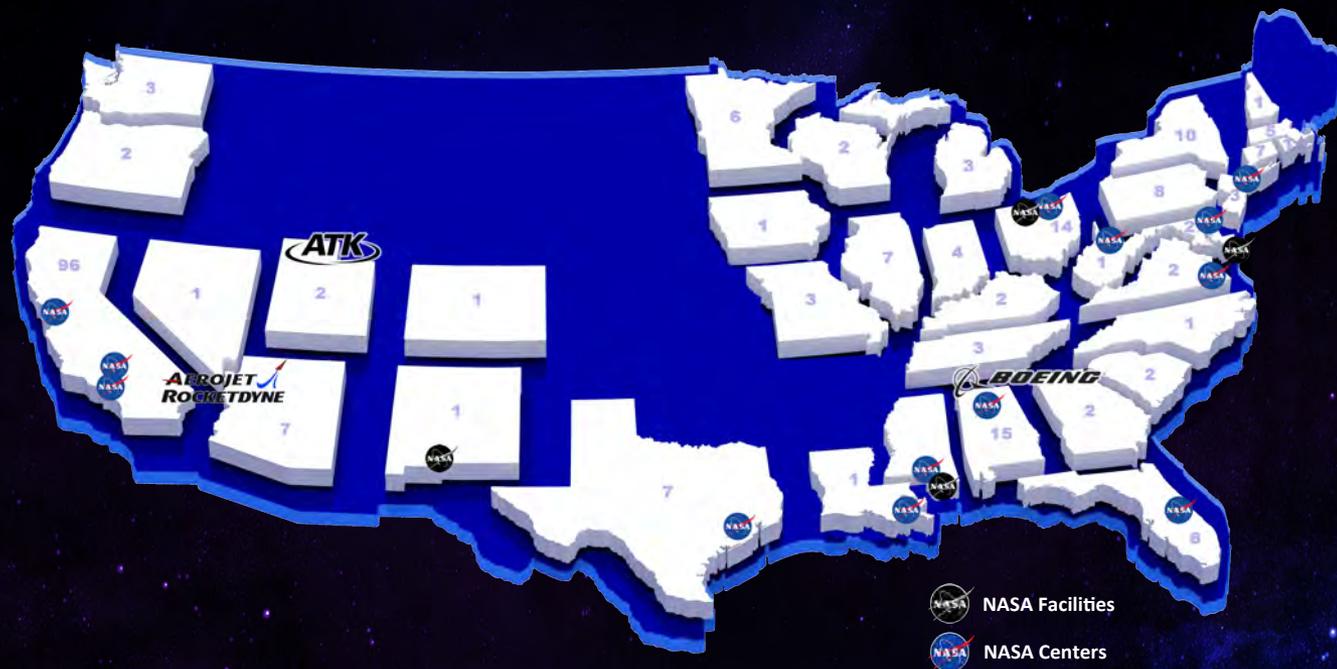
Bigger
Rocket =
Unrivaled
Mass,
Unrivaled
Volume



Enables missions
no other rocket can perform.



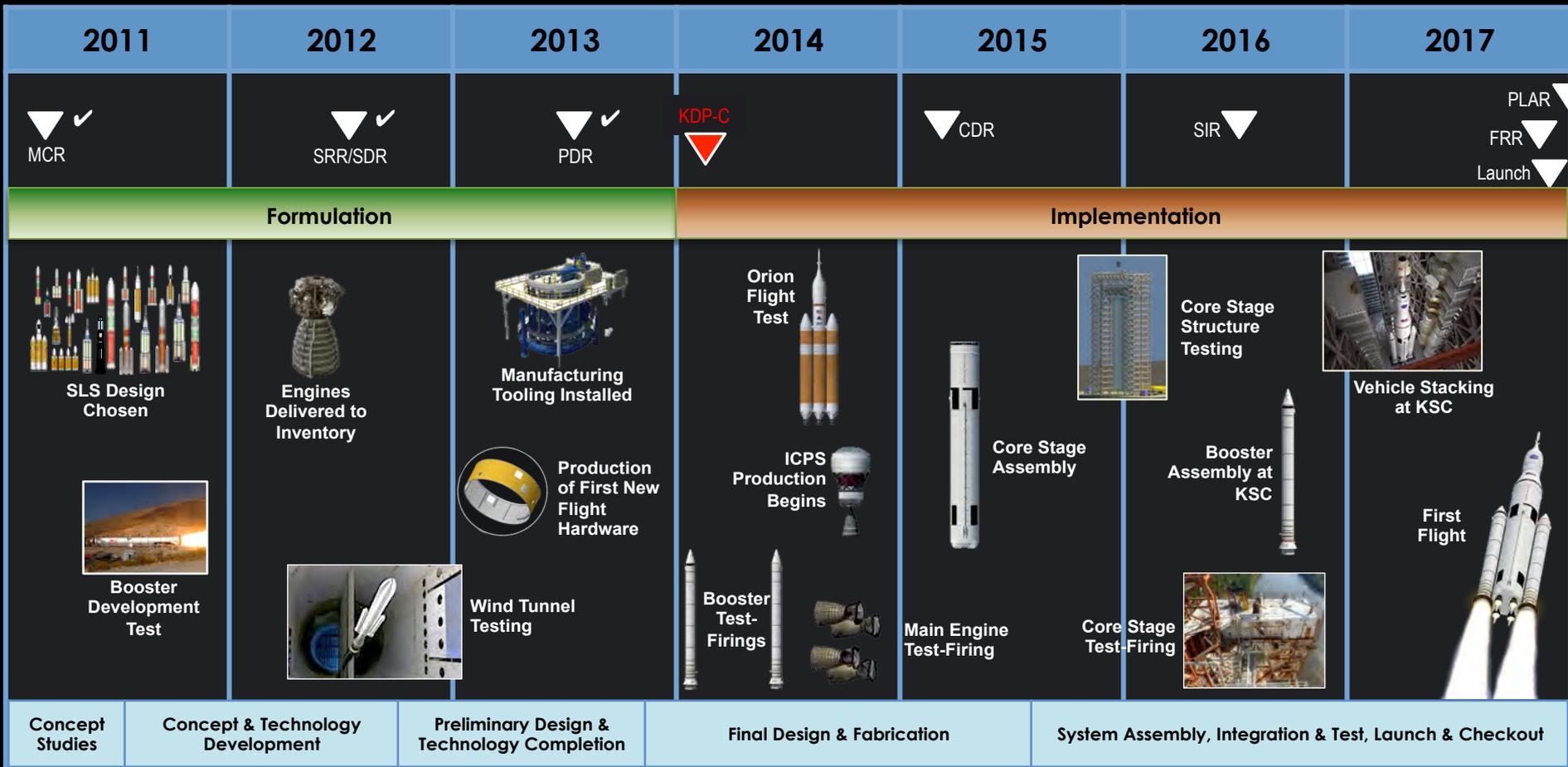
A National Effort



224 Subcontracts in 30 States are
advancing technology and innovation.



SLS Development Schedule



| | |
|---------------------------------|---------------------------------|
| MCR: Mission Concept Review | CDR: Critical Design Review |
| SRR: System Requirements Review | SIR: System Integration Review |
| SDR: System Definition Review | FRR: Flight Readiness Review |
| PDR: Preliminary Design Review | PLAR: Post-Launch Asses. Review |



Moving rapidly toward the launch pad

Space Launch System is currently designing, tooling, building & testing.





SLS's first launch will send Orion
beyond the moon into deep space.

First
flight in
four
years





SLS is
the first
step in
the
**journey
to Mars**

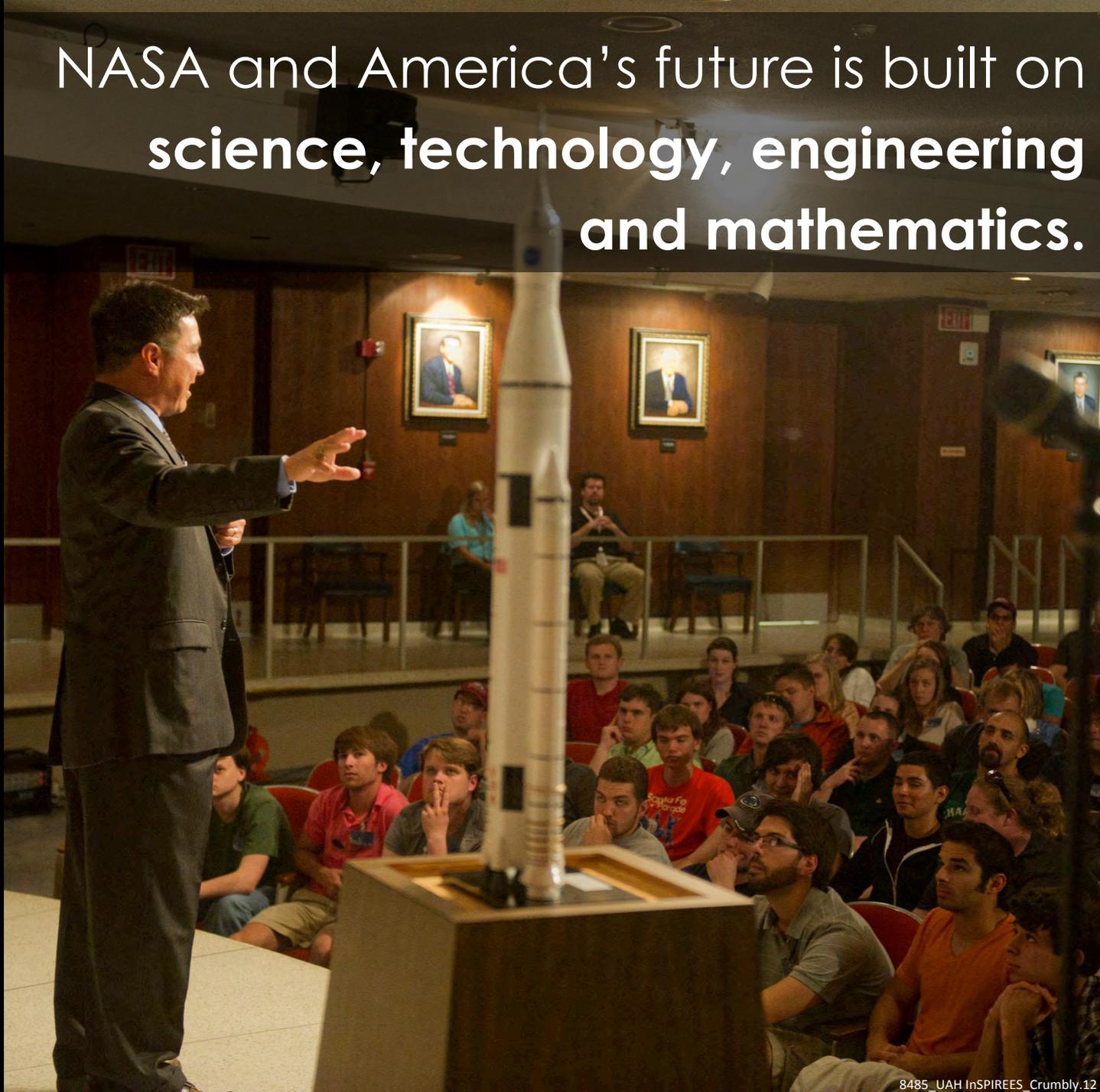


Going to Mars will be difficult.
SLS provides the power that it takes.



NASA and America's future is built on
**science, technology, engineering
and mathematics.**

Today's
students
**will create
tomorrow**





How Your Major/ Career Connects

University of Alabama in Huntsville College of Engineering Degrees

- Aerospace Engineering
- Chemical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial and Systems Engineering
- Mechanical Engineering
- Optical Engineering



Sherryl Kittredge (Right) with NASA Administrator and MSFC Director



Van Strickland (Left)



Johnny Heflin



Monica Hammond



Kimberly Robinson (Left)



Why
Wait?

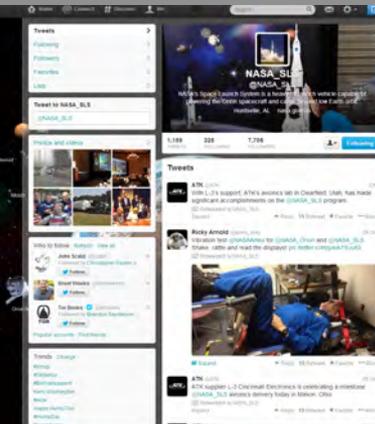




Connect Now

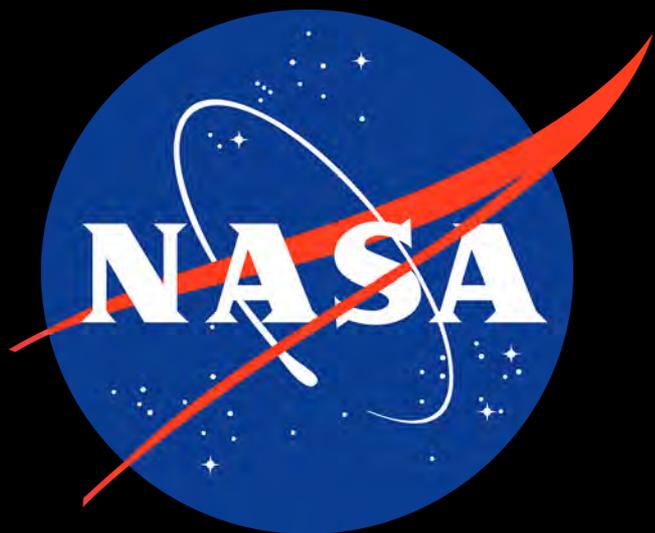


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“Man cannot discover
new oceans
unless he has the
courage to lose
sight of the shore.”



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the journey

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Questions & Answers

