



# Marshall Space Flight Center

## Technology and the Journey to Mars

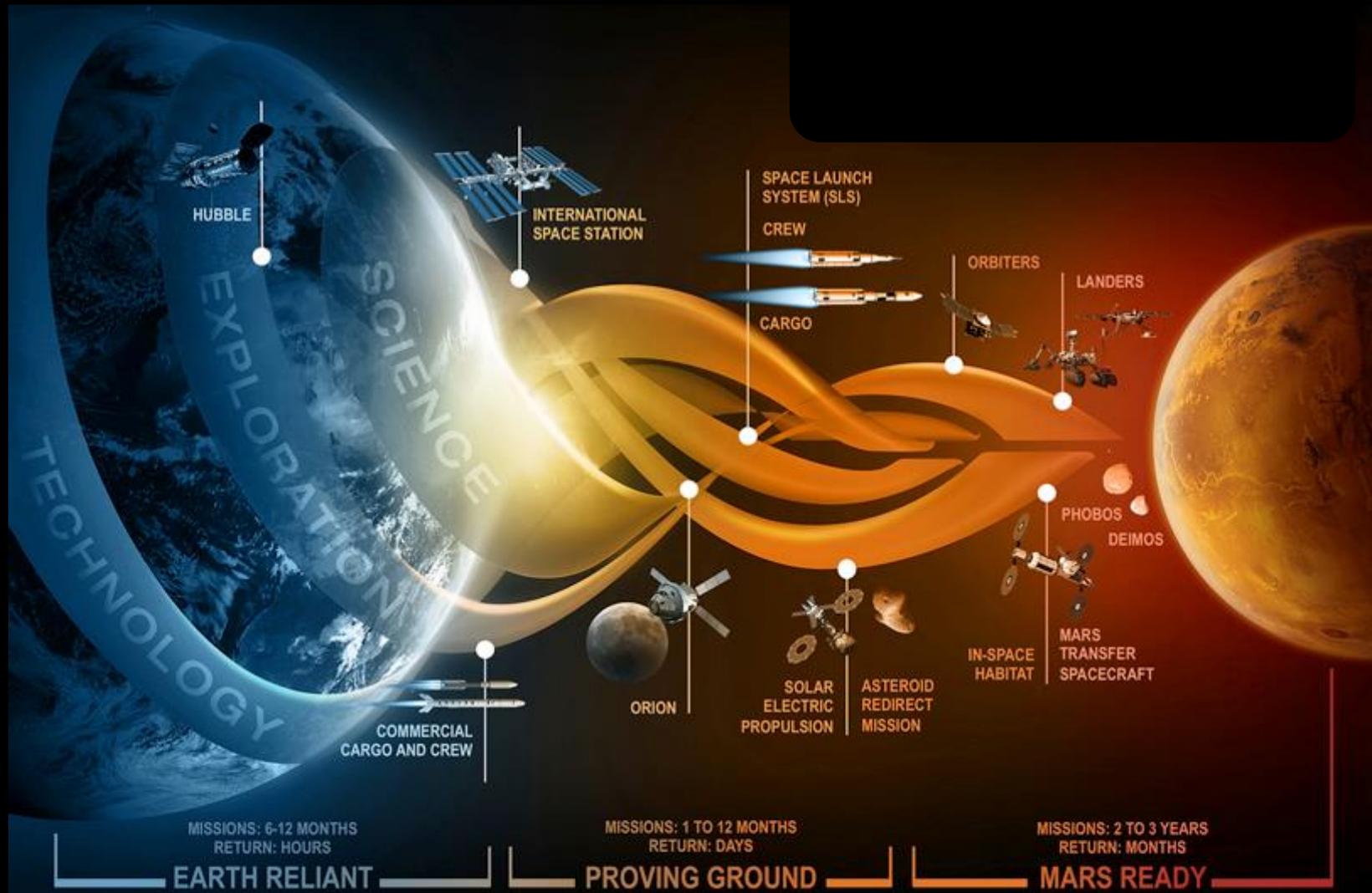
*May 22, 2015*



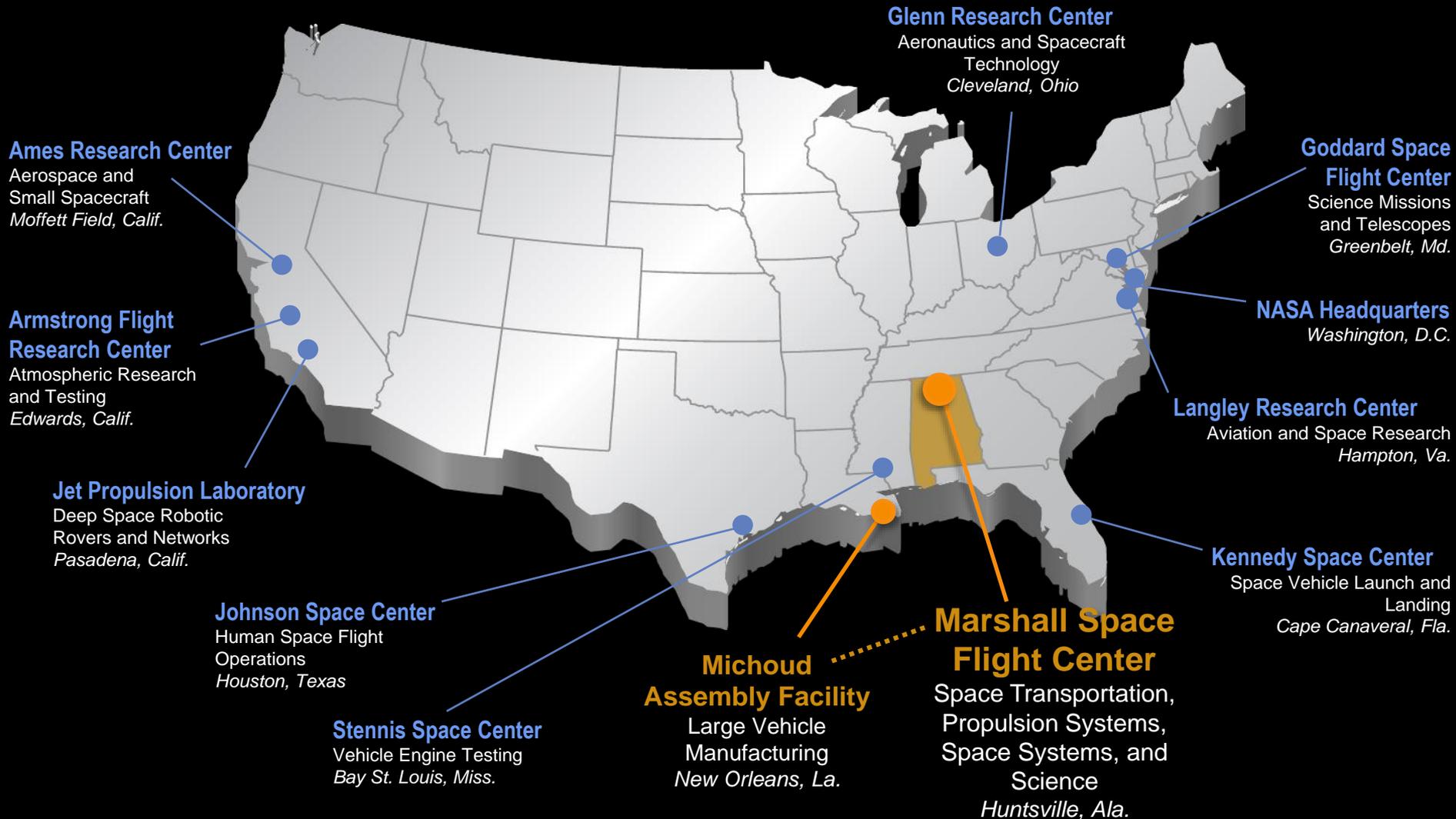
# marshall



# Journey to Mars



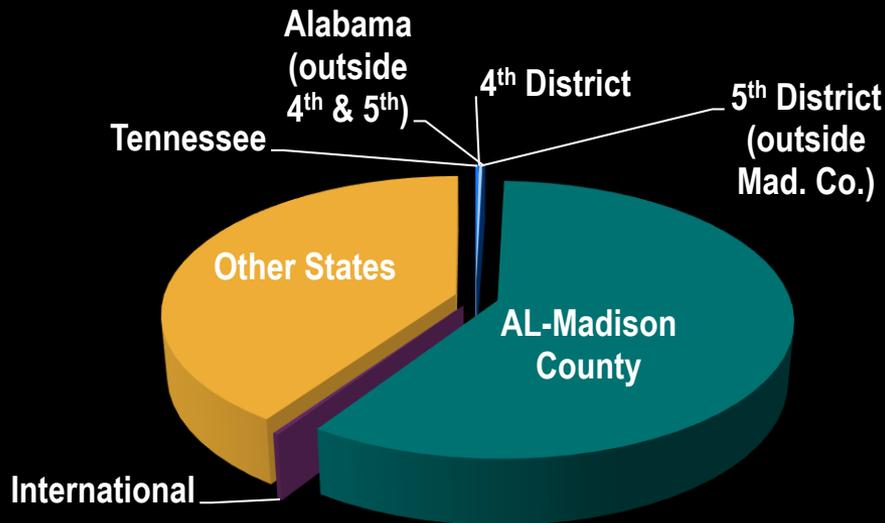
# NASA Around the Country



**Supporting NASA's mission with unique engineering expertise.**

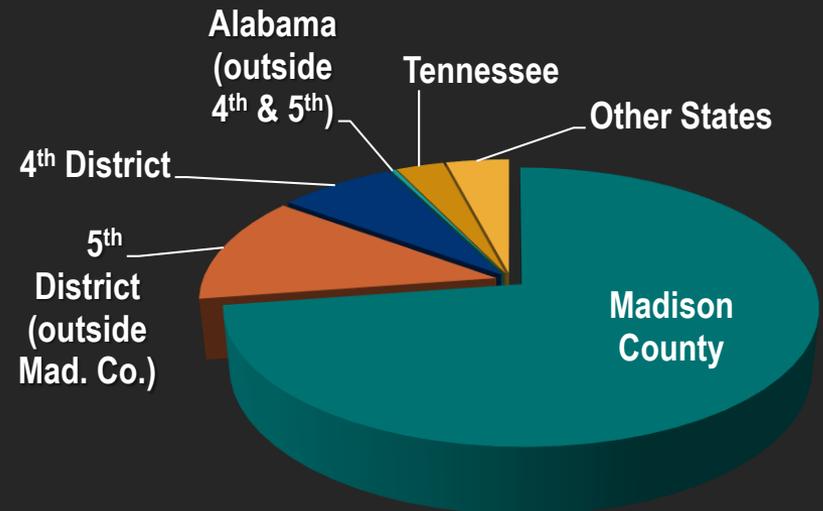
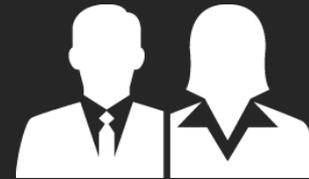
# Marshall Economic Impact in Madison County

**\$2.5 billion  
impact**



**Marshall Procurement**

**14,000  
jobs**



**Marshall Employees and  
Associated Labor Income**

# Marshall Mission Areas



**Traveling To and Through Space**

**Living and Working in Space**



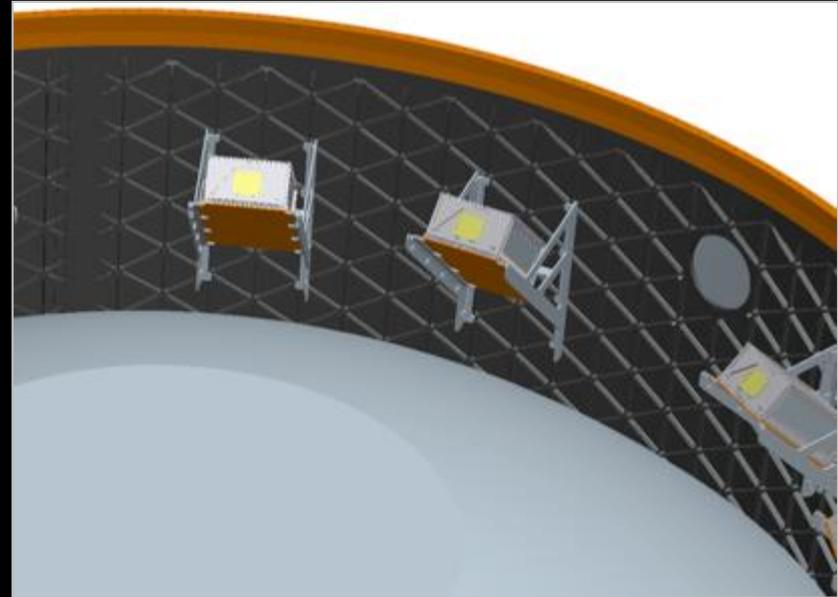
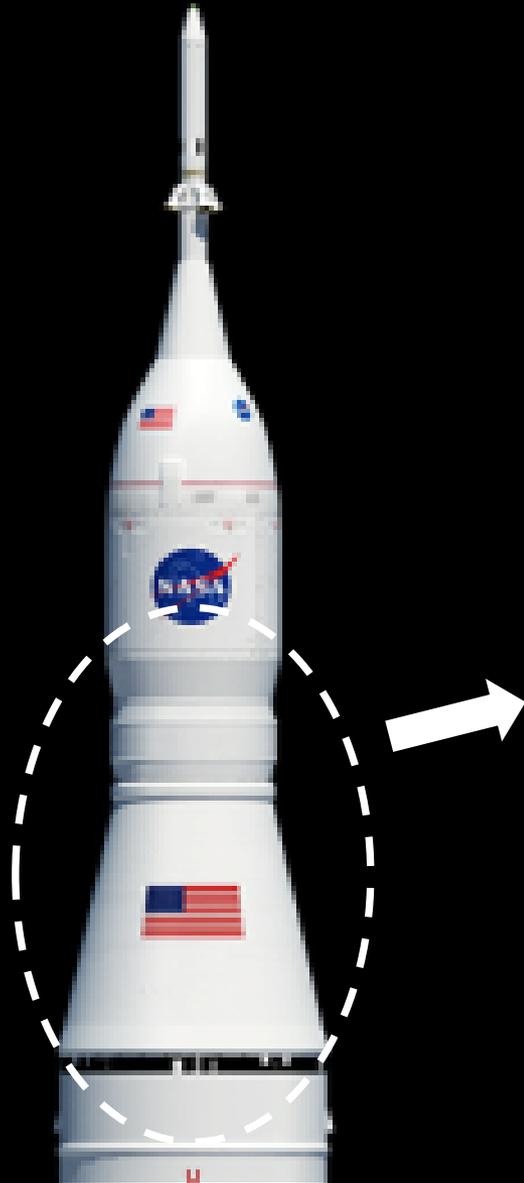
**Understanding Our World and Beyond**



# Space Launch System

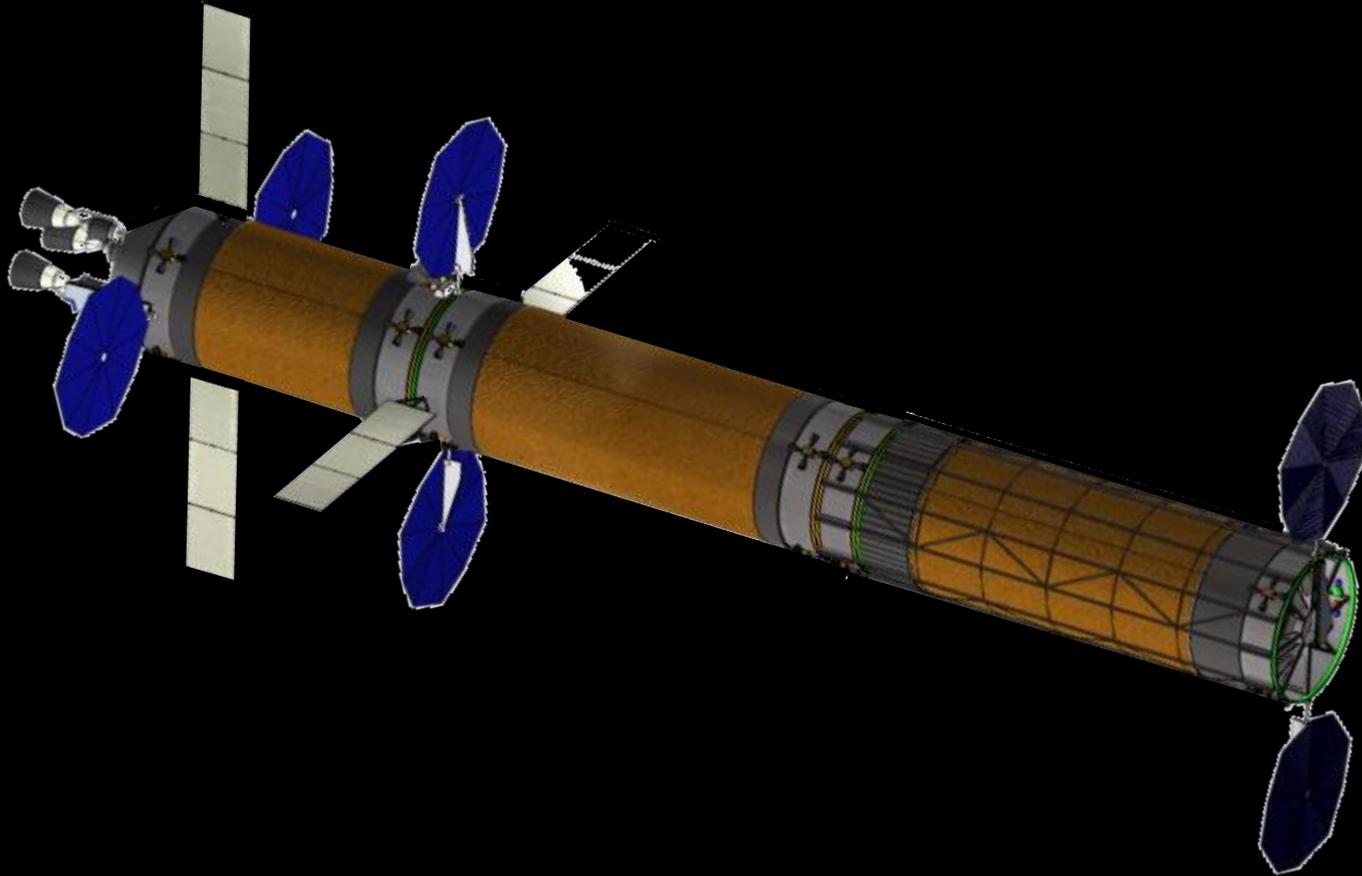


# SLS Secondary Payload Accommodations



- Eleven 6U/12U payload locations
- 6U volume/mass is the current standard (14 kg payload mass)

# Crew and Cargo Transfer



*Fueling the round trip to and from Mars.*

# ECLSS / Additive Manufacturing



***Providing comfort, safety, and function for long duration.***

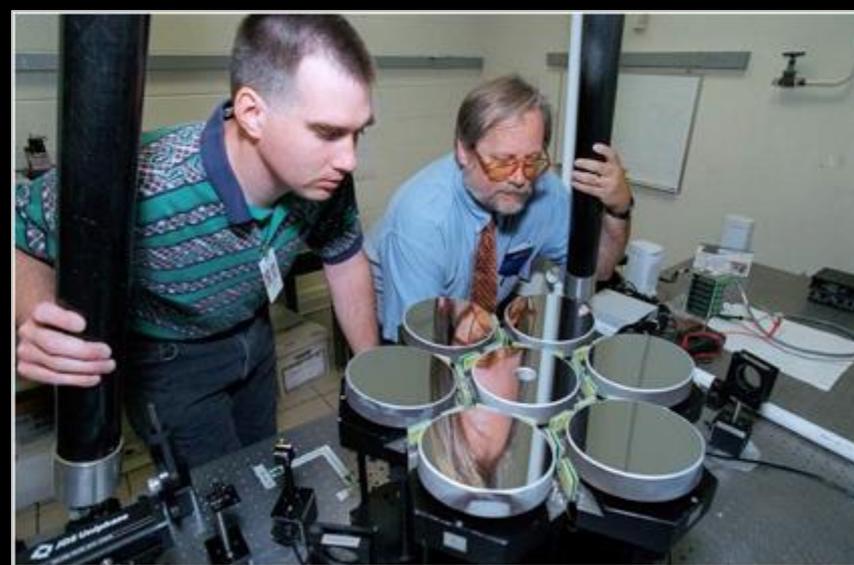
# Virtual Environments Lab at Deep Space Hab



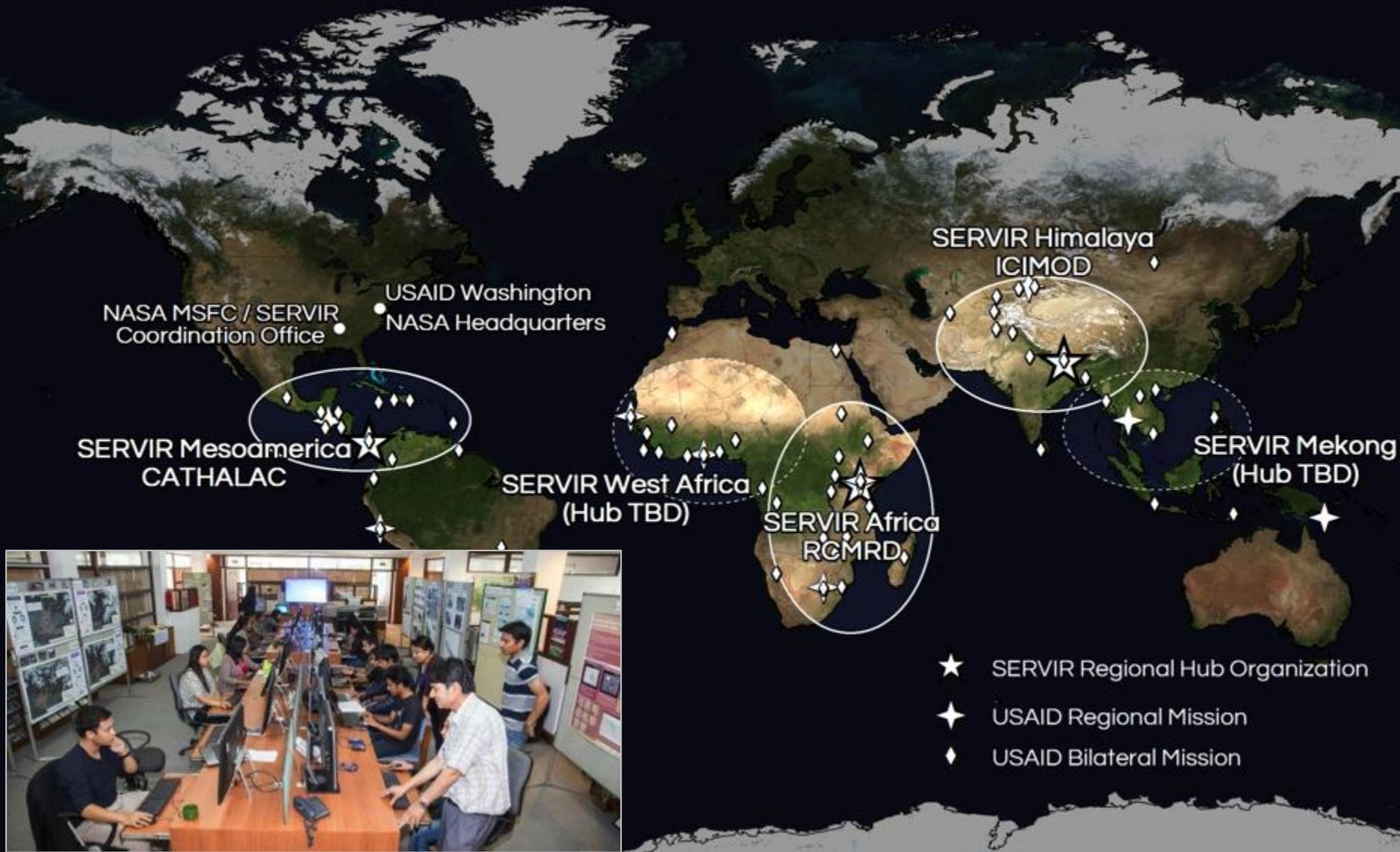
# Scientific Research

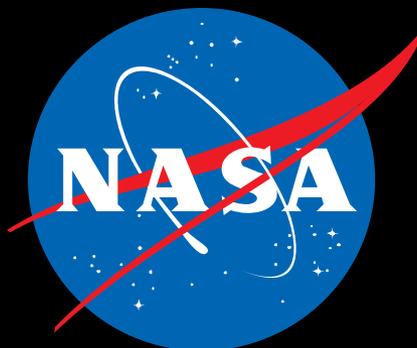


# Team Redstone Partnerships at Work



# The SERVIR Network





[www.nasa.gov/marshall](http://www.nasa.gov/marshall)

