Student Challenge

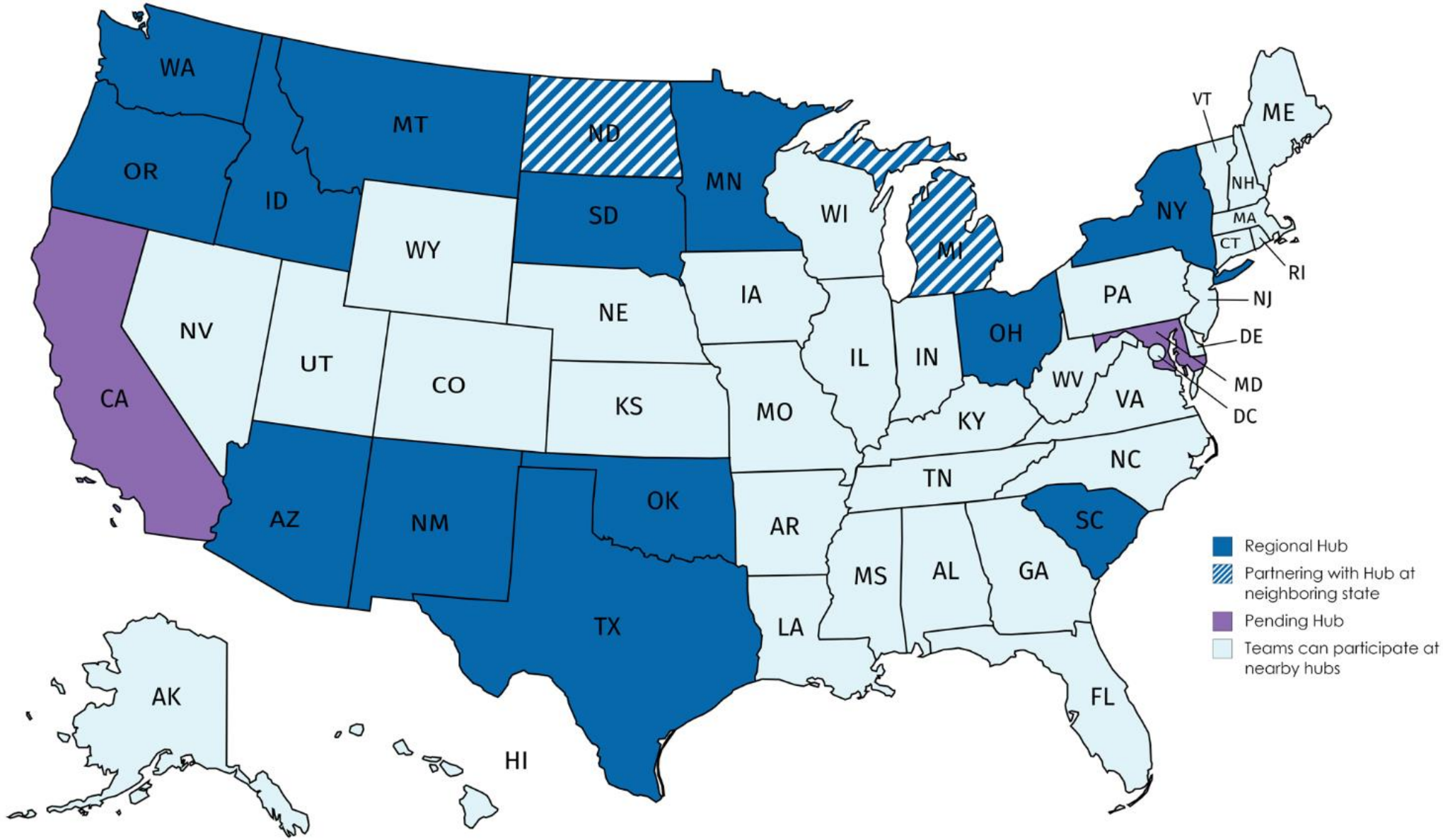
Joint Effort between SMD and OSTEM

Student Challenge

Educators & Students in Middle & High School

Particularly Aiming at Underserved Communities

- Logo Mini-Challenge - Art and Outcomes
- Engineering Design
  - Design and Build Lunar Lander – size to mass ratio is important
  - Payload to be delivered to the lunar surface – culturally relevant
  - Testing solutions, refining designs
- Programming
  - Move the robotic around the obstacle course with uncertainty point
  - Error Analysis, Networking
- Earth Sciences
  - Understand the reasons for collecting rock samples
- Aerodynamics and Mechanical Engineering
  - Flight of drone, release of the lander, pickup of lander (HS)
- Social Media/Photography -filming the effort



Created with mapchart.net ©

Challenge Hubs

National Challenge – 13 states act as regional hubs to run the challenge – winners: funded tripped to JSC

Working to have Participants in DC,MA,VA & other nearby East coast states to visit GSFC

Participants in CA to JPL

Hoping to identify Organization willing to run the challenge in these states

Your state can still participate in any fashion, just have to go to the regional hubs to be eligible for the NASA Center visits

Local Organizations

You do not have to do it ALL

Happy to give NASA certificates of participations to all students

Most importantly have fun with the Challenge

Will make Crowd Source Funding Available to All Organizations that register on the NESSP site

Discounted drones: $100; EV3 Mindstorms $400

Help participants walk on the Moon

Web Site: nwessp.org/apollo50

- Online Registration (Opens Feb 1 though April 15)
- Detailed instructions including Manual available on website
- Instruction videos (coming mid-March)
- Crowd sourcing (Opens March 1)
- Video – Meet a NASA scientist (April – May)
- Local Challenge events (March – June) ***Video/Social Media Submissions***
- Regional event July 16-20 – Live – prize to NASA Center

Questions: apollo50@uw.edu; winglee@uw.edu