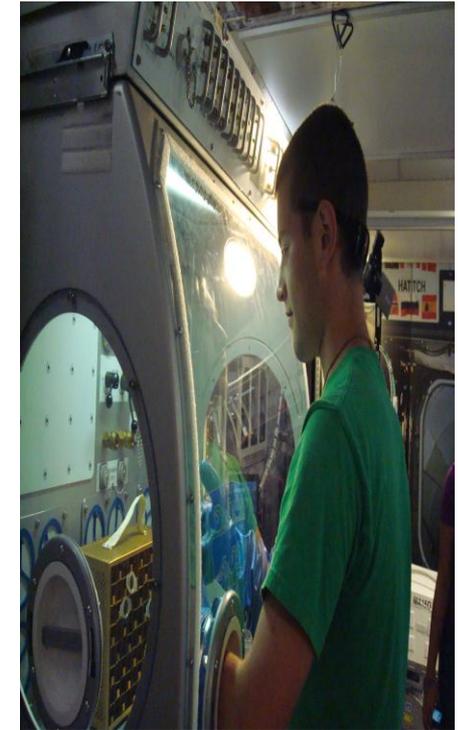


# NASA Education Vision Statement

To advance **high quality** Science, Technology, Engineering, and Mathematics (**STEM**) education using **NASA's unique** capabilities





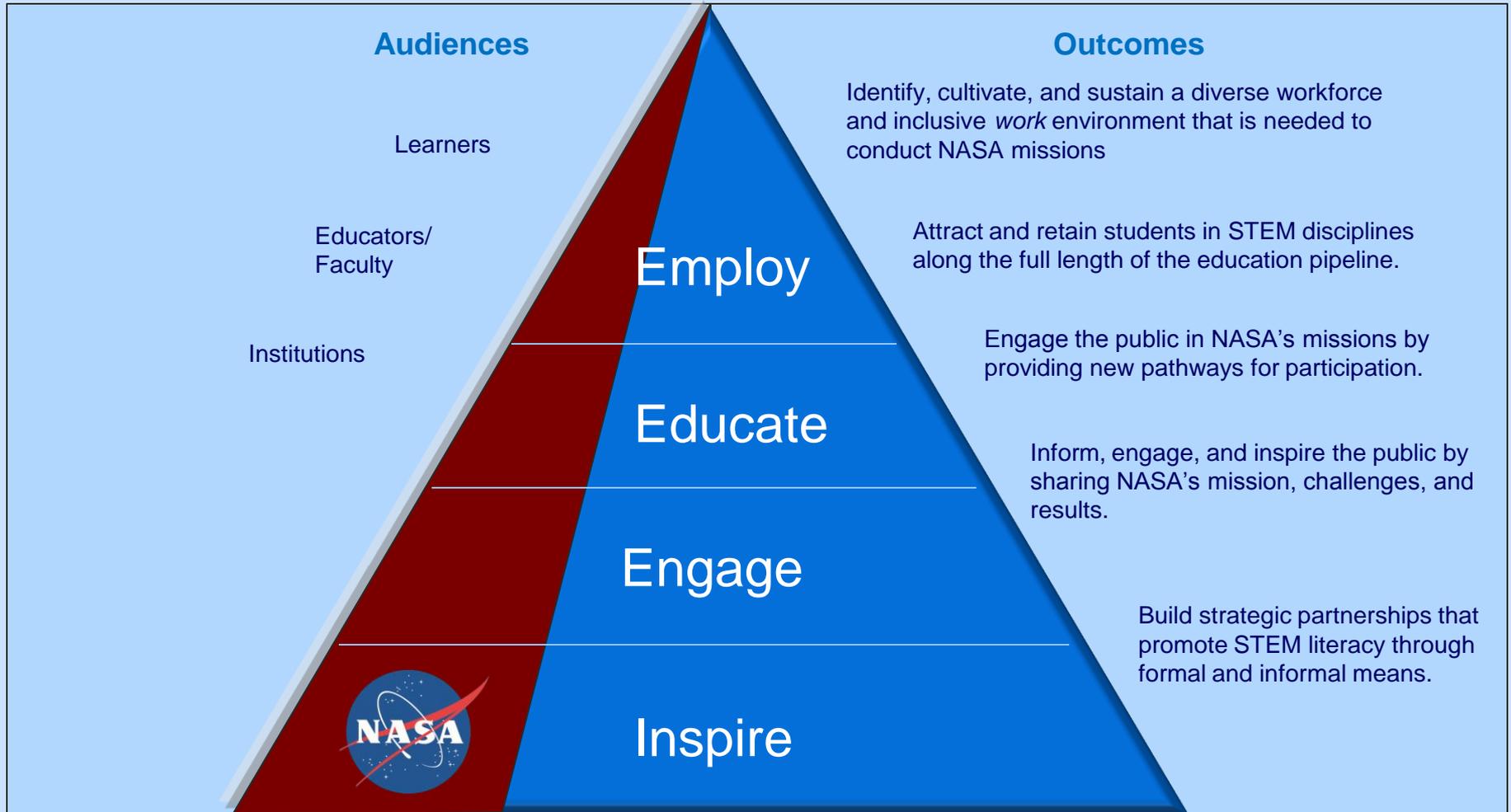
**Strategic Goal 5:** Enable program and institutional capabilities to conduct NASA's aeronautics and space activities.

- Outcome 5.1: Identify, cultivate, and sustain a diverse workforce and inclusive work environment that is needed to conduct NASA missions.

**Strategic Goal 6:** Share NASA with the public, educators, and students to provide opportunities to participate in our Mission, foster innovation, and contribute to a strong national economy.

- Outcome 6.1: Improve retention of students in STEM disciplines by providing opportunities and activities along the full length of the education pipeline.
- Outcome 6.2 Promote STEM literacy through strategic partnerships with formal and informal organizations.
- Outcome 6.4: Inform, engage, and inspire the public by sharing NASA's missions, challenges, and results.

# STEM Education Framework



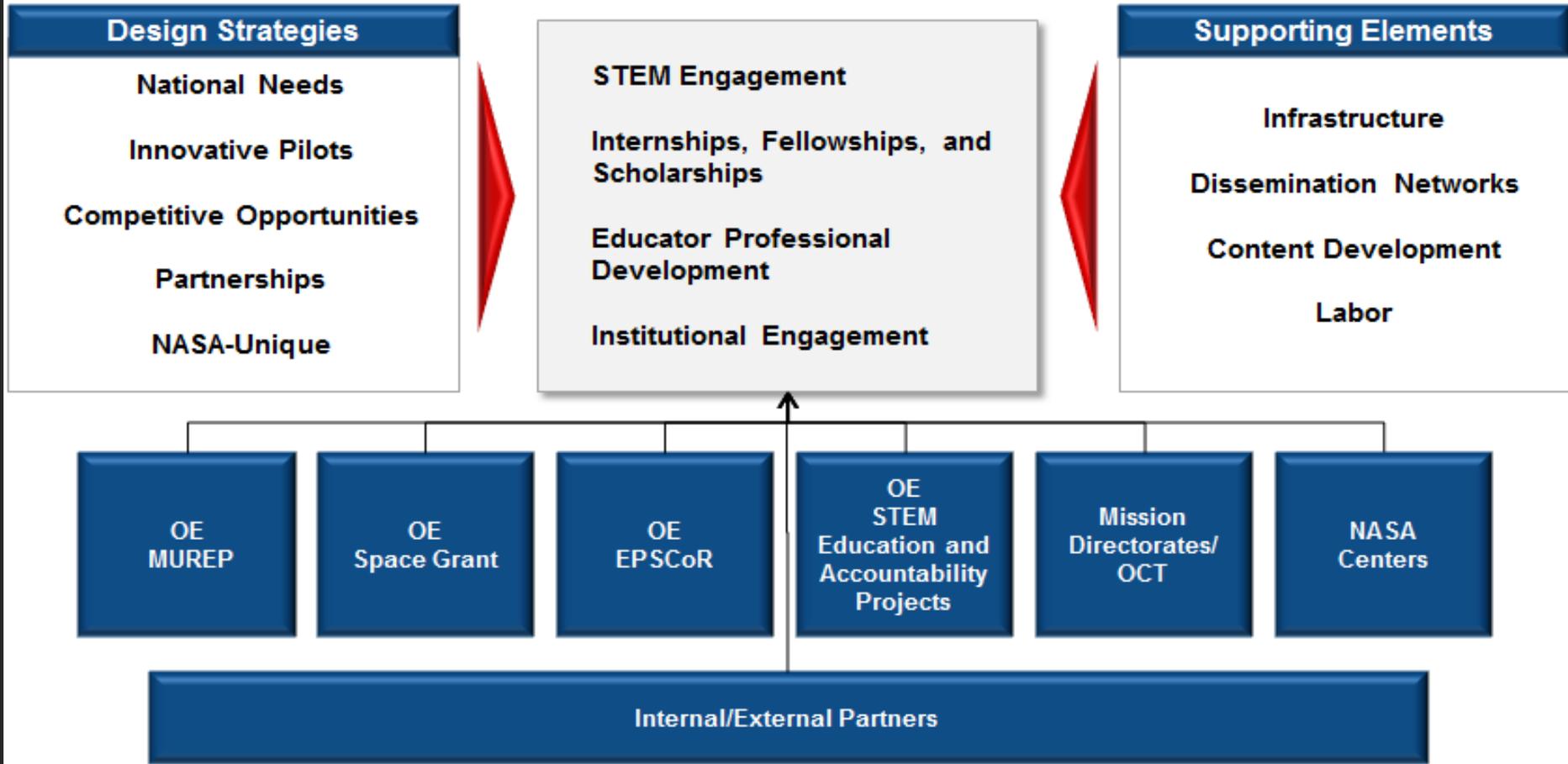
## Operating Principles

Relevance • NASA Content • Diversity • Evaluation • Continuity • Partnership/Sustainability



## Portfolio Development Architecture

### Portfolio Offerings / Business Lines



# Line of Business: STEM Engagement



- Ongoing NASA SMD and HEO developed STEM Engagement programs being regularly implemented at the Visitor Center include:
  - I'm an Engineer and Engineering Rules! (NASA's BEST Students) HEO
  - Family Science Night (SMD)
  - Sunday Experiment (SMD)
- STEM Engagement events within the GSFC service region
  - Museums and Science Centers, Universities, scouts, school districts, etc.
- African American History Month and National Engineers Week
  - GSFC collaboration: OE, EEO, AETD
  - AAHM Theme: African American Women in American History and Culture
  - Month long observance visiting SOI Title I schools highlighting engineering related curriculum activities and career presentations delivered by GSFC AA women engineers
- SISTERS Middle School Camp
- Be What I Want to Be-Maryland Business Roundtable for Education

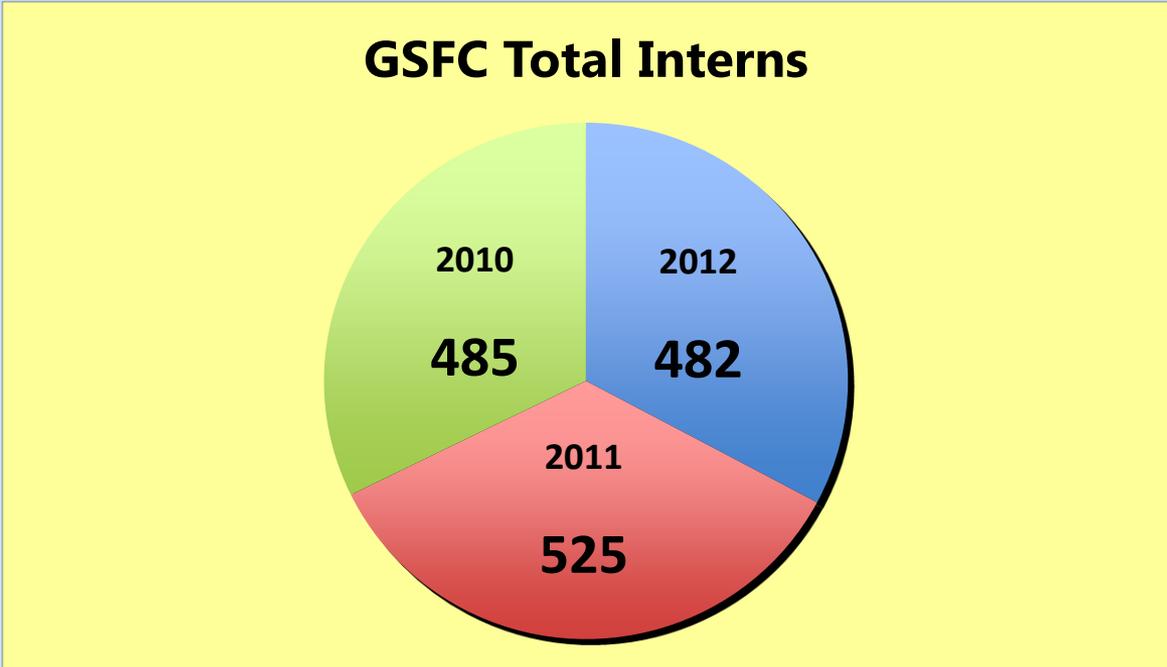




- **OSSI:SOLAR – GSFC Pilot Site**
- **OSSI:SOLAR Benefits**
  - Center mandate to use OSSI:SOLAR
  - Education Office responsible for all intern badging center-wide
  - “Position Descriptions” as source of student application
  - Mentors empowered to make selections
  - Mimics OHCM employment structure with only highly qualified being identified by mentor
  - Number of interns set by number of position descriptions
  - Allowed Center to focus on funding sources, and eliminate redundancy of programs.



# NIFS Summer Intern Data



2012 Totals = Greenbelt-388, WFF-33, IV&V-25, GISS-36  
Funding Sources = 21





## EPD Delivery:

- **NASA Center Face-to-Face Institutes**
  - PA-3 (Pittsburgh, Harrisburg, Philadelphia)
  - Museum Educators Workshop for small and mid-sized museums and science centers
- **On-line Professional Development**
  - TV Studio support
  - Philadelphia Association of Christian Schools
  - ASPIRA of Philadelphia
- **Partner Delivered Face-to-Face**
  - Bradley University and ERC network
- **Community-Requested Professional Development**
  - SOI, 22 Title I middle schools located in District of Columbia, Prince George County, Baltimore City, Baltimore County
  - Additional SOI Title I schools served by WFF include Accomac County Public School District, Somerset County School District, Worcester County School District, and Wicomico County School District
  - SEEC Summer/School Year Program



# Line of Business: Institutional Engagement

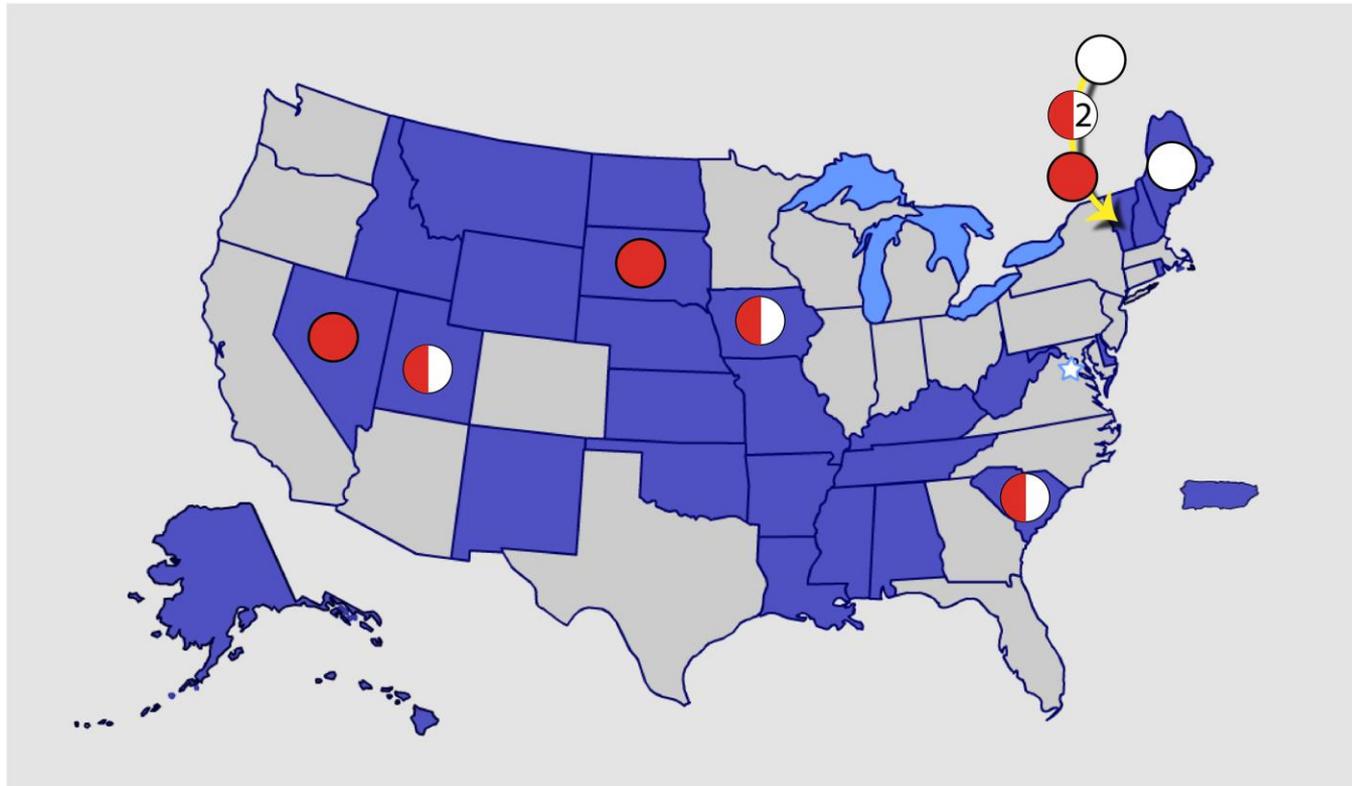


- **Space Grant**
- **EPSCOR**
- **MUREP**

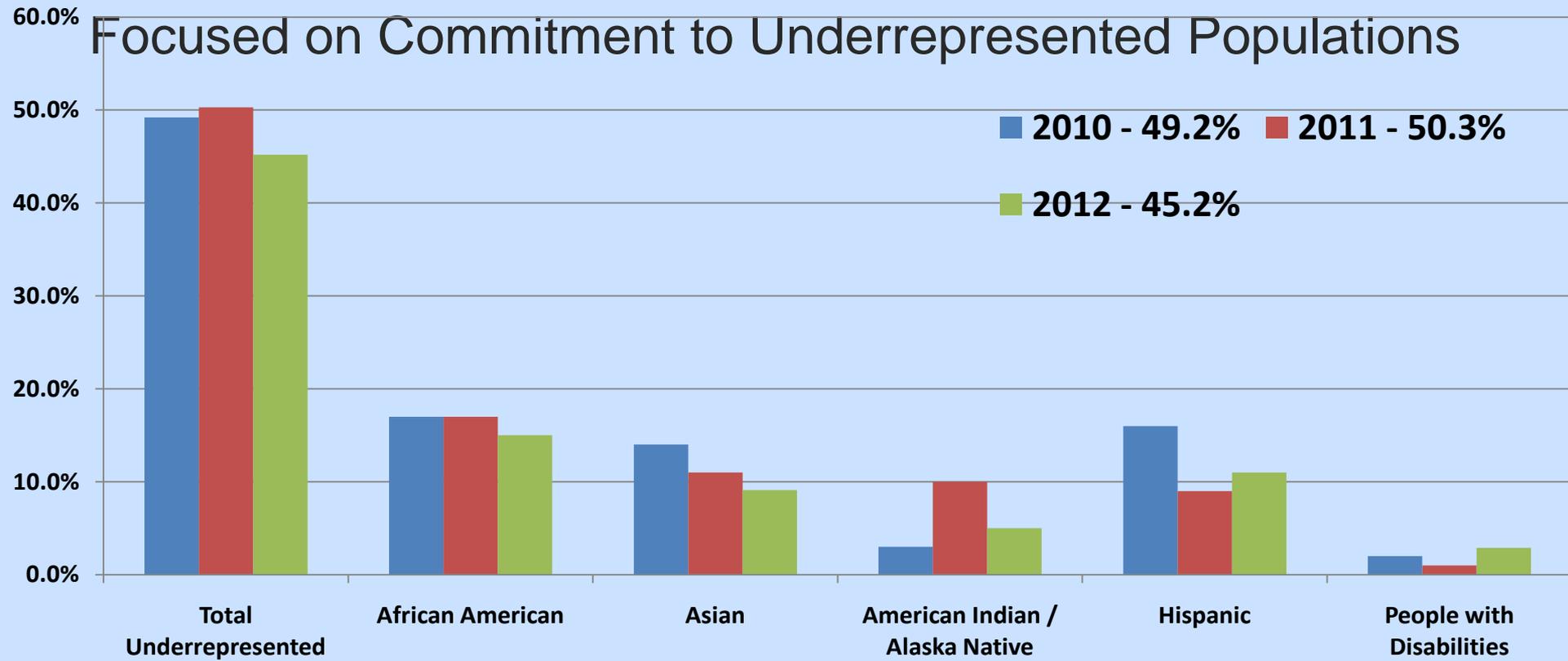




# GSFC Coordinating Relationships with Universities through EPSCoR



## Focused on Commitment to Underrepresented Populations



Total = Greenbelt, WFF, IV&V, GISS





- **Governance**

- Responsible for all education at Center
- Part of Center Senior Leadership Team
- Education Policy Team
- Education Implementation Team
- Pipeline Team





## Collaboration

- **Internal**
  - Focus on NASA content
  - Collaboration with missions, projects, technology codes
  - The Partners (D&I, EO, Education, OHCM)
- **External**
  - PA-3 (Pittsburgh, Harrisburg, Philadelphia)
  - Challenger Centers
  - MA Governor's STEM Advisory Council
  - Maryland Business Roundtable for Education
  - SOI—22 urban schools
  - Museums and Science Centers





- Questions
- Discussion