

# Agenda

NASA IDEA
Strategic Plan

NASA SMD IDEA

NASA HPD IDEA

Dual Anonymous
Peer Review
(DAPR) Roses 2025

Charge to HPAC on IDEA topics



# NASA IDEA Strategic Goals and Objectives

NASA's Strategic Goals and Objectives for DEIA are:

Strategic Goal

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Workforce Diversity

#### **Strategic Objectives**

- 1.1 Outreach and Stakeholder Engagement
- 1.2 Talent Acquisition
- 1.3 Internships
- 1.4 Measure and
  Assess Workforce
  Demographics across
  the Employee Lifecycle

Strategic Goal

2

Workforce Equity and Inclusion (Employee Experience)

#### Strategic Objectives

- 2.1 Equity and Equal Employment Opportunity
- 2.2 Inclusion, Intersectionality, Community, and Communication
- 2.3 Safe and Inclusive
  Work Environments
  Free of Harassment,
  Retaliation, and
  Discrimination

Strategic Goal

3

Accessibility and Accommodation

#### **Strategic Objectives**

- 3.1 Accessibility
- 3.2 Reasonable
  Accommodation
  for Individuals with
  Disabilities
- 3.3 Religious Accommodation

Strategic Goal

4

DEIA Integration into the NASA Mission

#### **Strategic Objectives**

- 4.1 Strategic

  Communication
- 4.2 Accountability
- 4.3 Agency Systems and Operations
- 4.4 NASA DEIA Data Analytics Capability

## **NASA Science Mission Directorate IDEA**

Three SMD IDEA subgroups to address these four priorities

- 2 internally focused
- 1 externally focused

## The sub groups are:

- Inclusive culture & accessibility
- 2. Inclusive career development
- 3. Diverse and Inclusive Science Teams (external focus)

## Inclusive Career Development

Expand pathways to entry, career development, and leadership

## **Inclusive Culture**

Cultivate a
collaborative, flexible,
impartial and fair work
environment to enable
individuals to
contribute to their full
potential and further
retention

## Accessibility and Accommodation

Ensure that all team members can meet the demands of their work in an inclusive and equitable environment, regardless of ability or disability, and religious or non-religious beliefs

## Diverse and Inclusive Teams

Ensure SMD's goal of building diverse and inclusive teams focused on discovery, exploration and innovation

## NASA HPD IDEA

HPD participates in the SMD IDEA working groups and priorities will match those of SMD and the Agency overall.

### **Funded Ongoing and Exploratory Efforts**

- Sponsoring and incentivizing enhanced and innovative outreach activities with IDEA as a major focus
  - PUNCH, IMAP, GLIDE, EZIE, Newly selected DRIVE Centers
- Mentoring 365: Established a community-wide early- and midcareer support network pilot in partnership with other SMD Divisions, professional and scientific societies with a focus on providing mentors and mentees training and resources that consider the "whole" STEM individual
- NASA HEAT mission is to increase heliophysics literacy and deepen public understanding about NASA Science by uniting existing NASA SMD assets with educators, learners of all ages, and communities across the country
  - Examples: Developing a culturally responsive curriculum, creating resources in Spanish, engaging urban and rural communities

### **Additional Heliophysics Activities**

- Employing best practices for IDEA recruitment efforts, including hiring panels, reviewer panels and advisory boards
- Adopted inclusive R&A practices (e.g., code of conduct, dualanonymous reviews)
- Coordinating with SciAct to expand engagement opportunities
- Actively soliciting community input at all meetings: AGU, GEM, CEDAR, SHINE, etc.

# **Supporting Inclusion in ROSES**

Dual Anonymous Peer Review (DAPR) Expansion

Bridge Program

Continue Flexible Due Date Pilots

Expansion of Inclusion Plans

Virtual Reviews

Expand Support for MSIs/PUIs

Transform to Open Science (TOPS) Program

Commercial Suborbital



## What are the goals of a peer review?

To fairly, independently, and impartially evaluate the science and technical merit of a set of research proposals as well as their relevance to the program and their cost reasonableness.

Human nature — cognitive biases — impede the ability of a group to achieve this goal.

Time pressure activates a number of cognitive biases

High-level, undifferentiated criteria prevent repeatable and reliable evaluations

Group pressures can limit the range of discussions of proposals

Cognitive biases short-circuit logical thought, replacing hard reasoning with low energetic-cost associations

## So what to do?

Reduce time pressure by limiting the number of proposals to be evaluated by each panel (sub-panel, group).

Increase reliability of evaluation by splitting high-level criteria, for example "Scientific/Technical Merit," into a series of specific questions, for example:

- Are the stated scientific goals compelling?
- How much will the proposed research program advance the field if successfully executed?
- Can the proposed research program achieve the stated goals on the proposed schedule?
- Does the proposal acknowledge potential pitfalls and propose alternatives?
- Does the team have the necessary expertise?

Also increase reliability by reducing number of evaluation levels — so use E, VG, G, F, and P and not allow use of "half-grades" like E/VG in voting.

Try to mitigate group dynamics:

- Seek panelist comments in reverse seniority order
- Mitigate negativity bias by having panelist all first discuss the strengths of a proposal before discussing weaknesses

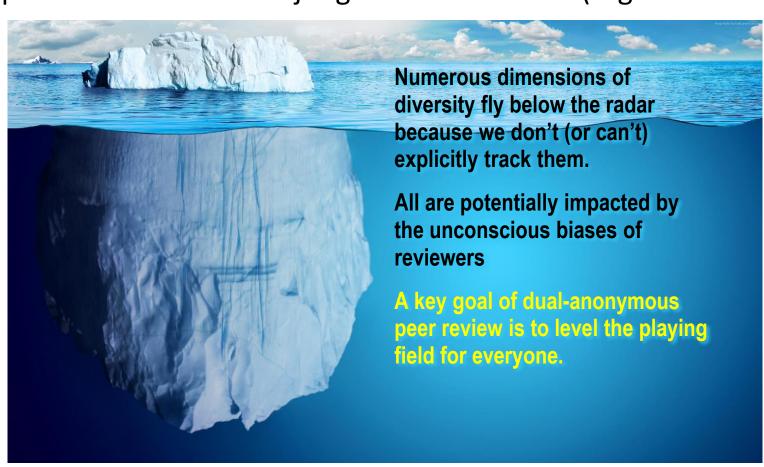
Use DAPR to focus evaluation on the science proposed. Only after all proposals have had their scientific and technical merit reviewed discuss the qualifications of the team and their institutions.

# Dual Anonymous Peer Review DEIA Implications

Expectations or stereotypes that influence our judgements of others (regardless)

of our own group).

- Unconscious bias is
  - NOT discrimination
  - NOT prejudice
- Mitigation through
  - Awareness
  - Policies
  - Practices (DAPR)
  - Accountability



# **Expertise and Resources (E&R) DEIA Implications**

- Proposers submit additional non-anonymized appendix. Competitive proposals undergo "E&R reveal phase".
- Assessment of E&R does not change score or impact the scientific evaluation.
- Assessment determines whether the availability of expertise and resources are as promised in the proposal text.
- Pre-DAPR: HPD best practice was to have panels provide comments about expertise or qualifications of proposing team in "Notes to NASA".

## Charge to the HPAC on IDEA topics

HPD requests the following topics around IDEA to be discussed by the HPAC in order to advise HPD.

<u>Ask:</u> Please bring suggestions on successfully implemented IDEA efforts in the community to NASA HPD so that they can be evaluated for future exploration or potential implementation.

**Background:** HPD would like to know what are some best practices or programs that perhaps should be emulated in order to provide more support for an inclusive community. Programs such as bystander training, the DRIVE Centers, Mentoring 365 by AGU and the American Physical Society IDEA network are some suggestions on programs to offer feedback.