

# **NIH's Scientific Approach to Inclusive Excellence**

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#### NIH Chief Officer for Scientific Workforce Diversity

#### AAI Immunology 2019

Fostering Diversity and Preventing Harassment in the Biomedical Research Workforce May 11, 2019





National Institutes of Health Office of the Director

Scientific Workforce Diversity

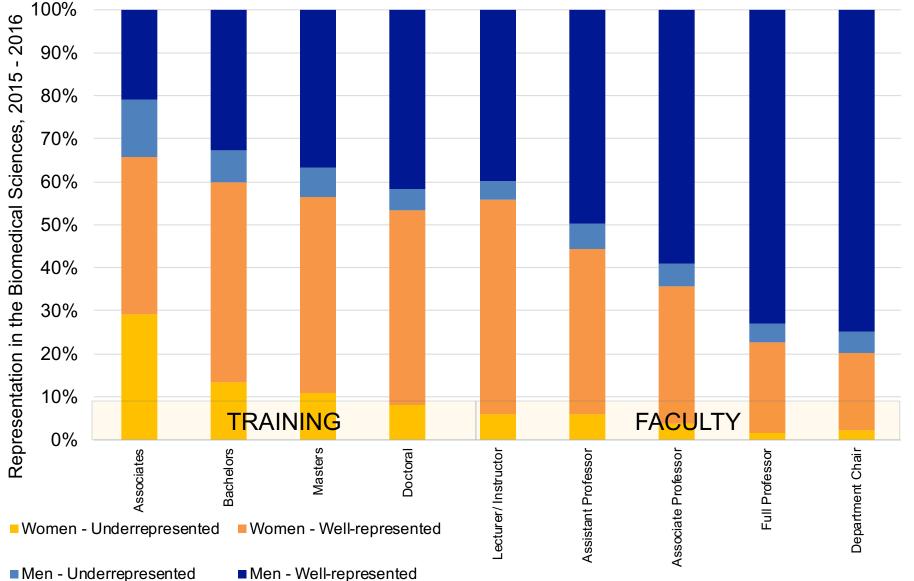


# **NIH's Scientific Approach to Inclusive Excellence**

**Presentation Outline** 

- National diversity data
  - Debunking the pipeline myth
- Institutional change: NIH intramural research program as a testing ground
  - Tools and strategies
- Systemic issues related to women in biomedicine
  - Work-life integration
  - Peer review
  - Sexual harassment

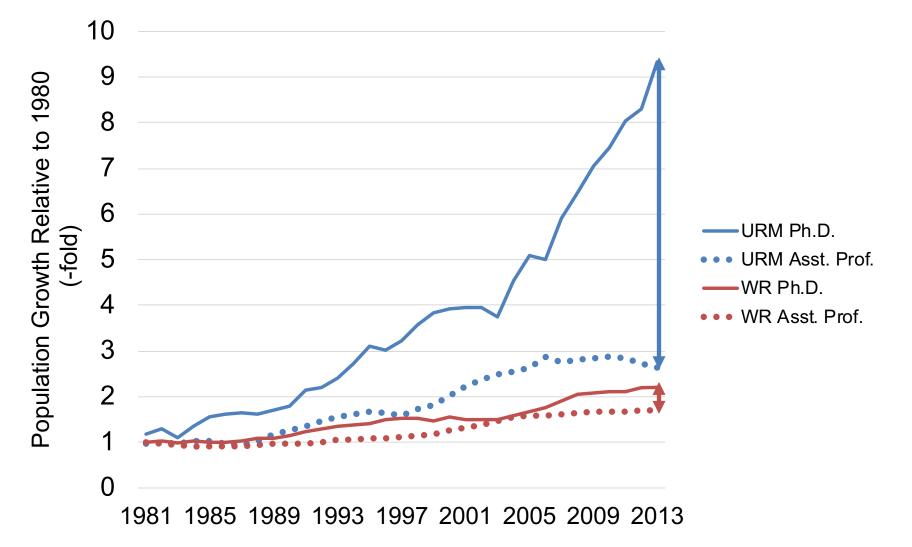
# **Diminishing Representation for Women and URG Scientists**



Men - Well-represented

https://nces.ed.gov/programs/digest/2017menu tables.asp;https://www.aamc.org/data/facultyroster/reports/475478/usmsf16.html

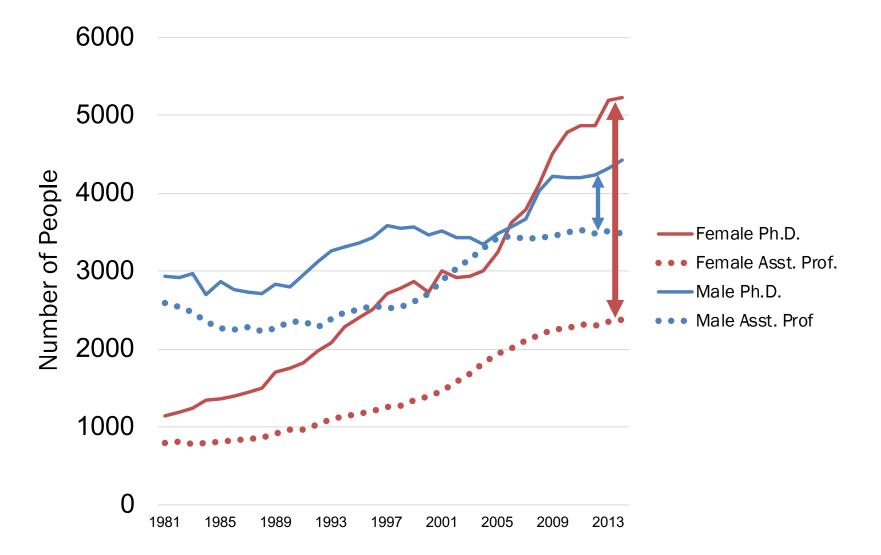
# Myth: Diverse Talent Doesn't Exist



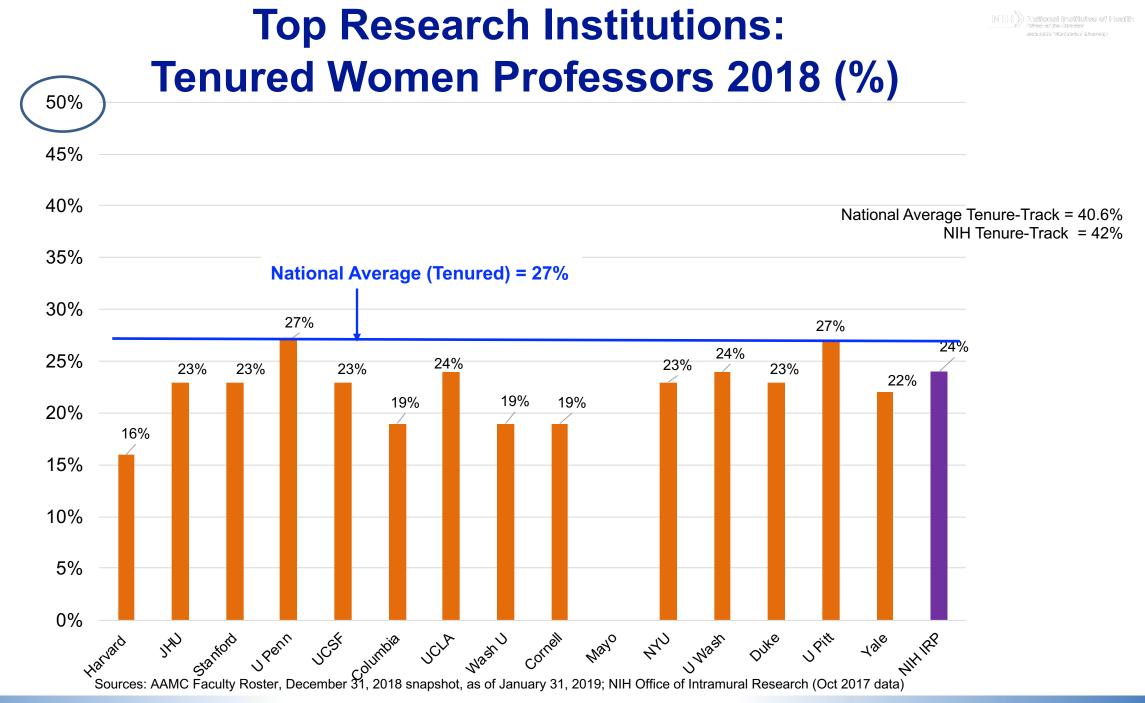
Gibbs, K. D., et al. (2016). Decoupling the minority PhD talent pool and assistant professor hiring in the medical school basic science departments in the US.



#### Myth: Diverse Female Talent Doesn't Exist



Gibbs, K. D., et al. (2016). Decoupling the minority PhD talent pool and assistant professor hiring in the medical school basic science departments in the US.





# **NIH Scientific Workforce Diversity**

#### Interventions at *Individual* Level

Necessary but not sufficient



#### Interventions needed at *Institutional* Level

#### Institutional Transformation and Culture Change NIH Intramural Program Testing New Strategies

#### **Promote Transparency and Accountability**

## Link to Institutional Values and Reward Systems

- Systematic review and transparency of hiring and promotion procedures, policies
- Transparency: collect and publicize aggregate diversity metrics
- Provide tools to Divisions, Departments for enhancing recruitment and retention
- Evaluation of impact



# NIH IRP Institutional Approaches to Inclusive Excellence

- NIH SWD Interactive Toolkit
  - Identity diverse talent pool systematic unbiased approach

– Implicit-bias mitigation

- Trans-NIH searches for tenure track positions
- NIH Equity Committee
  - Transparency and accountability
- Distinguished Scholars Program
  - Build a self-reinforcing community of PIs committed to diversity and inclusion

# **Tools for Institutional Approaches to Inclusive Excellence**



Office of the Director Scientific Workforce Diversity



Introduction

Diversify the Talent Pool



Outreach and Networking

Mentoring Relationships Citation Libran

#### NIH Scientific Workforce Diversity Toolkit

The U.S. scientific research enterprise - from basic laboratory research to clinical and translational research to policy - requires intellect, creativity, and diverse skill sets and viewpoints.

#### Diversity

- $\ldots$  enhances excellence, creativity, and innovation
- ... broadens the scope of biomedical inquiry
- ... addresses health disparities
- $\ldots$  ensures fairness in our highly diverse nation



#### Integrated strategies:

- Systematic unbiased search to diversify applicant pools
- Trans-NIH searches:
  - Hiring of women tenure-track investigators exceeds their representation in applicant pool
  - 40% tenure-track investigators are now women
- Mitigate implicit bias
- Conduct proactive outreach
- Foster mentoring relationships

NIH Scientific Workforce Diversity Toolkit • diversity.nih.gov



# **Expanding Diversity of NIH Candidate Pools:** <u>Senior</u> Career Stage (Associate and and Full Professors)

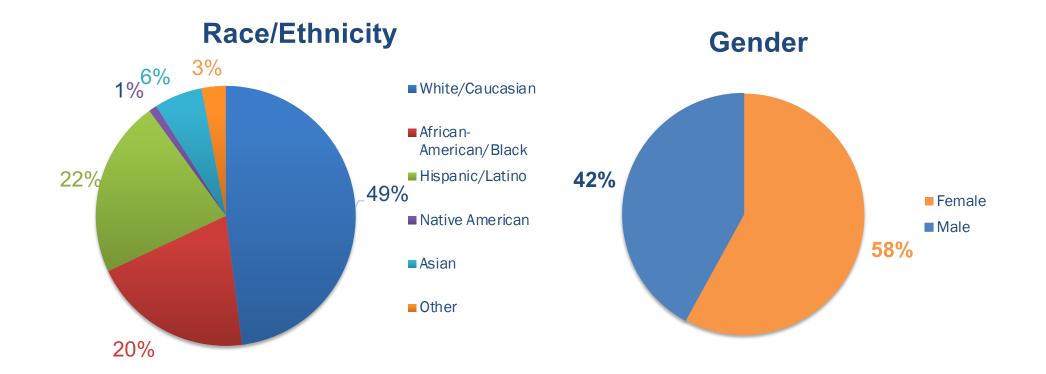
~ 896 total, top 1/2 culled Authorship in top journals 100+ publications: 369 500+ citations: 758 2000+ citations: 531



Updated December 27, 2018

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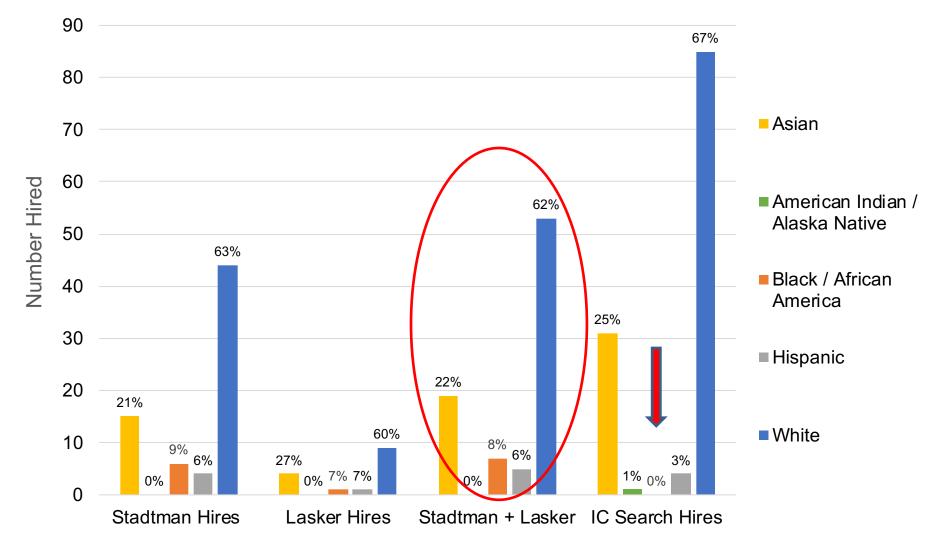


Updated December 27, 2018

diversity.nih.gov

 $\mathbb{N}[H]$  National Institutes of Health

#### Impact of Trans-NIH Searches on Hiring Underrepresented Tenure Track Investigators (2010-2017)



As of Oct. 1, 2017 Source: OIR Database N = 211

NIH» National Institutes of Health

# NIH Distinguished Scholars Program: Cohort Model for Intramural Research program

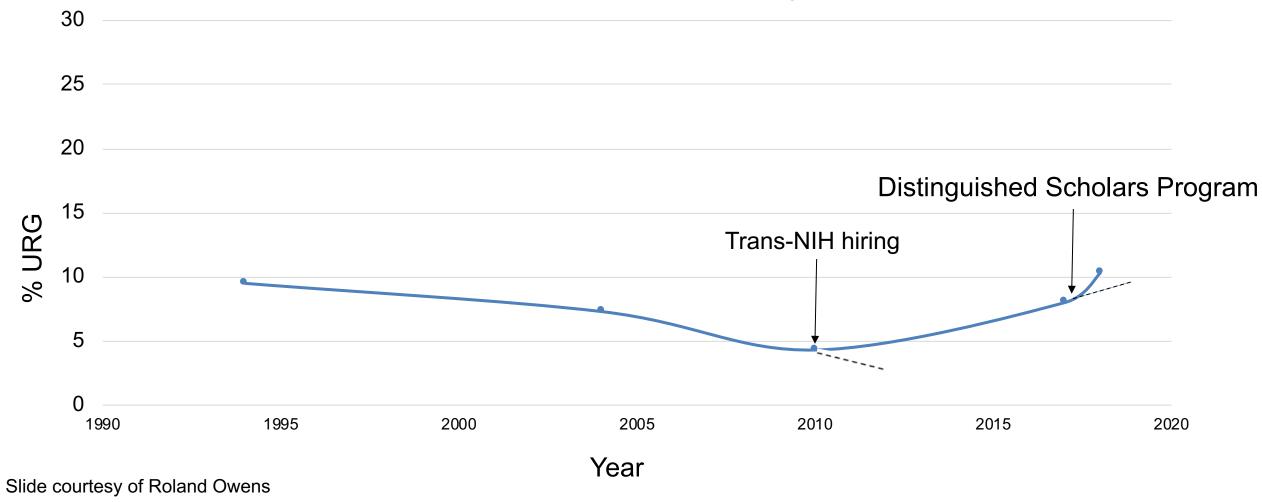
- Institutional transformation by recruiting a substantial number of PIs with demonstrated commitment to diversity and inclusion (15 per year)
- Build self-reinforcing community of PIs committed to diversity and inclusion
- Provide professional development and culture that values mentoring and inclusion
- Send the message that NIH values a commitment to diversity and inclusion

**Extramural:** Request for Information (RFI): Institutional Accountability to Promote Inclusive Excellence **Release Date :** February 25, 2019; **Response Date:** June 14, 2019



# Projected Impact of Centralized Hiring and Distinguished Scholars Program

% URG IRP Tenure-Track Investigators



# The NIH Equity Committee (NEC) Metrics, Accountability and Transparency

- NEC First organizational meeting November 3, 2017
- Membership 50% women:
  - 20 Senior Investigators; Scientific Directors (SDs), a Deputy Director, and an Executive Officer
- Meet monthly to review reports submitted by each SDs
  - Diversity and Inclusion metrics
  - Recommendations for closing identified gaps
- Reports available to leadership to share best practices:
  - Board of SDs
  - Director of the host IC



# NIH Equity Committee Metrics for Annual Evaluation

- Tenured and tenure-track investigators analyzed separately
  - Demographic data,
  - Salaries, resources for hiring
- Equity of review practices
  - BSC and ad hoc reviewers, promotion, and tenure committees
- Efforts to correct identified inequities

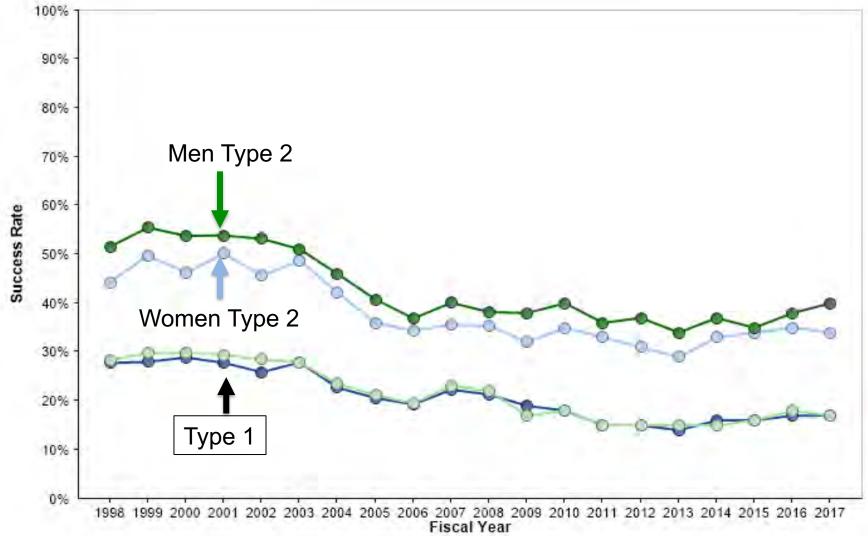
- Efforts to promote diversity, equity, inclusion
  - Diversity of speakers at seminars hosted by the IC
  - Promote awareness of implicit bias
  - Best practices for search committees and outreach
  - Award nominations
- Input on how Office of Intramural Research and SWD can support the ICs

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# Gender Gaps in NIH Research Project Grant Success Rates R01 Renewals (Type 2)



Source: https://report.nih.gov/NIHDatabook/Charts/Default.aspx



**Research Report** 

#### Analysis of National Institutes of Health R01 Application Critiques, Impact, and Criteria Scores: Does the Sex of the Principal Investigator Make a Difference?

Anna Kaatz, PhD, MPH, You-Geon Lee, PhD, Aaron Potvien, MS, Wairimu Magua, PhD, MS, Amarette Filut, Anupama Bhattacharya, Renee Leatherberry, Xiaojin Zhu, PhD, MS, and Molly Carnes, MD, MS

"Reviewers assigned significantly worse priority, approach, and significance scores to female than male PIs' Type 2 applications, despite using standout adjectives (e.g., 'outstanding,' 'excellent') and making references to ability in more critiques..."

Acad Med. 2016;91:1080–1088

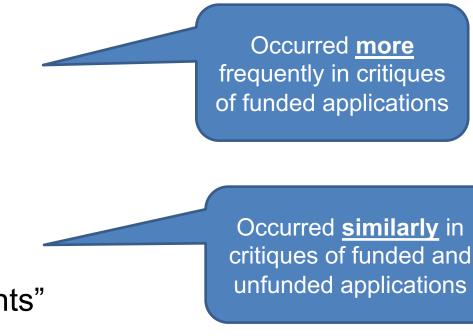


# R01 Renewals: Different Descriptors for Men vs. Women Applicants

- Summary statements for 51 R01 renewals
- Applications from men:
  - "leader" and "pioneer"
  - "highly innovative"
  - "highly significant research"
- Applications from women:
  - "expertise"
  - working in "excellent environments"



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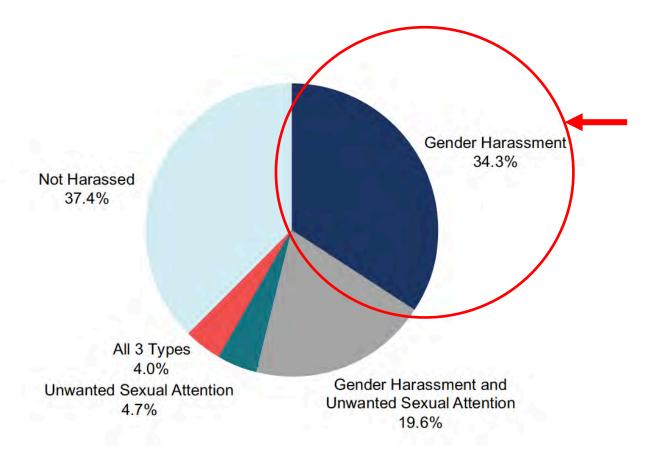
Bias thrives in ambiguous scenarios



# Family-Friendly Policy Changes for NIH Intramural Research Investigators

- Extended paid parental leave for NIH trainees to 8 weeks
- Extended tenure clock for NIH scientists to 1 year
- Temporary lab manager program for NIH investigators
- Leave-bank program for NIH employees
- Program to provide backup care for children, elders, and adult dependents
- "Keep the Thread" program, offers alternative career development schedules for NIH intramural fellows.

## **Sexual Harassment is a Problem in Science**



"Gender harassment is by far the most common type of sexual harassment."

*"Insufficient attention to a climate that tolerates gender harassment increases the chance that other forms of sexual harassment will occur."* 

Source: National Academies Consensus Study Report - June 2018

# **NIH Anti-Harassment Program**



#### **OVERSIGHT**

- Established the NIH Anti-Harassment Steering Committee
- Oversees process improvements and program design
- Increase Civil Advisory Committee membership



#### PROGRAM

 Civil Program expanded to address <u>all</u> allegations of harassment and related inappropriate conduct, and to oversee the administrative inquiry process



#### POLICIES

- Preventing and Addressing Harassment and Inappropriate Conduct Manual Chapter (1311)
- Personal Relationships in the Workplace Policy Statement



#### TOOLS

- New webform and hotline: Enhanced allegation reporting systems for both anonymous and nonanonymous reports
- Web presence spanning all partner sites
- Training & Education

# NIH Workplace Climate Survey

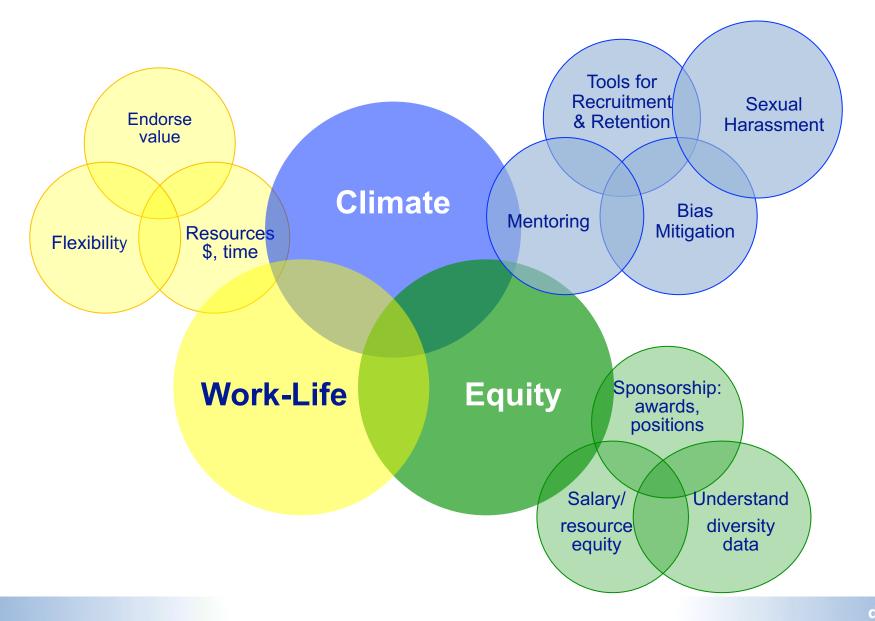
## **Response rate: 57%; Interim Report June 2019**

- Assess NIH workplace climate
- Identify potential elements of NIH organizational climate associated with sexual harassment for intervention
- Determine impact of sexual harassment on career choices
- Measure outcomes of sexual harassment (job, psychological, health)
- Design new activities to improve workplace climate

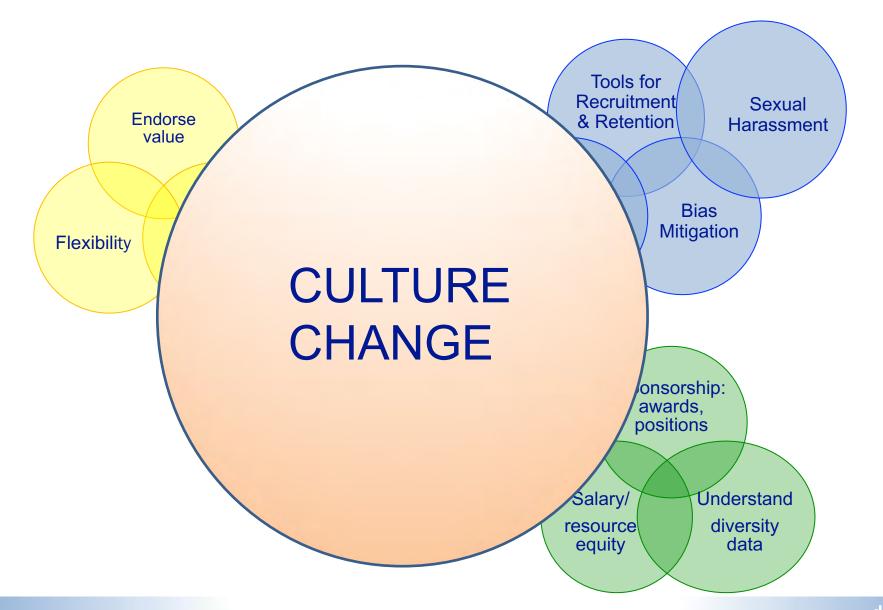
# Sexual Harassment in Extramural Community: NIH Statement

- Accountability and transparency
  - Follow-up on sexual harassment concerns at > two dozen institutions
- Expectations for institutions and investigators:
  - Ensure a safe workplace and inform the agency
- Provide clear channels of communication to NIH
  - GranteeHarassment@od.nih.gov
- Listening to victims of sexual harassment and incorporating their perspectives into future actions
- ACD Working Group on Changing the Culture to End Sexual Harassment
  - Recommendations due Dec. 2019

# **Institutional Leadership Drives Culture Change**



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# Great minds think differently ...



Scientific Workforce Diversity