



Office of International Science and Engineering Strategy Update

Kendra Sharp, Head, Office of International Science and Engineering

National Science Board – Open Plenary

August 15, 2023

The U.S. has made the investments needed to fuel an innovation economy and remain preeminent in science and engineering.

The U.S. remains a magnet for the world's best talent.

U.S. scientists and engineers are modeling scientific values that are practiced throughout the world.

The U.S. has increased STEM skills in its workforce, creating more opportunities for all Americans.

The U.S. has created an accessible, attractive S&E enterprise that more closely reflects the nation's demographic and geographic diversity.

U.S. government, industry, and academic partners are working in coordination to realize national R&D priorities and accelerate the discovery-to-innovation cycle.

NSF continues to drive U.S. innovation through fundamental research and lead the evolution of the global practice of science and engineering.

- **Advance research by leveraging partnerships**
- **Build STEM workforce**
- **Strengthen global leadership**



OISE Strategy



Align OISE investments with NSF cross-cutting themes



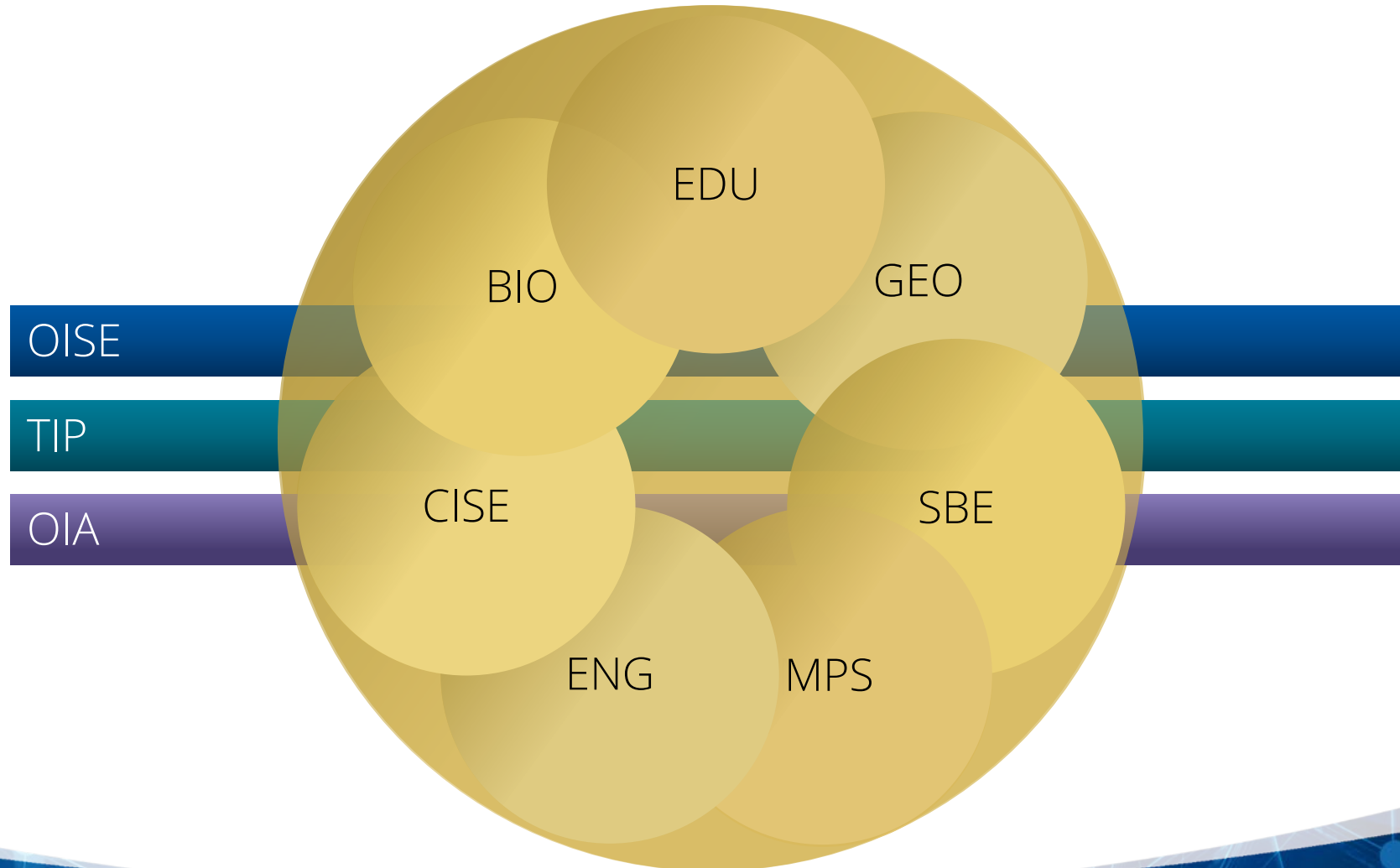
Deepen and broaden international partnerships prioritized by a combination of science drivers and countries/regions



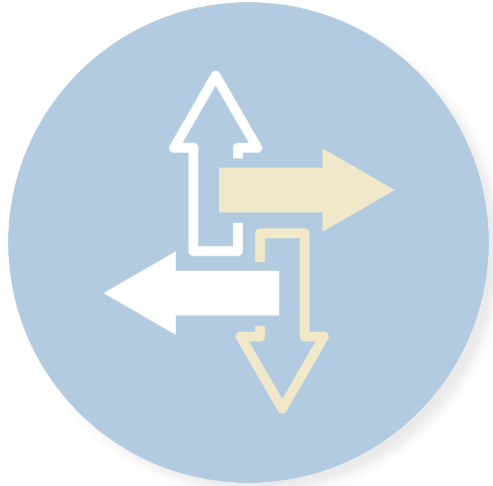
Diversify funding approaches to include more inter-agency, industry and philanthropy partners



NSF's Office of International Science and Engineering (OISE) is a Cross-cut



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Models and Levels of International Partnerships



NSF PIRE: Bio-inspired Materials and Systems
INSPIRED BY NATURE; SHAPED BY TECHNOLOGY

Prof. LaShanda Korley
OISE 1743475

UNIVERSITY OF DELAWARE CASE WESTERN RESERVE UNIVERSITY THE UNIVERSITY OF CHICAGO UC San Diego **an** adolphe merkle institute **UNI FR** UNIVERSITÄT FREIBURG University of Strathclyde



PI-to-PI, catalyzed by NSF



Models and Levels of International Partnerships



Direct multilateral



Direct NSF bilateral



PI-to-PI, catalyzed by NSF



Lead Agency Opportunities/Bilateral Partnerships

- Australia (CSIRO)
- Brazil (FAPESP)
- Canada (NSERC)
- Czech Republic (GACR)
- Finland (AoF)
- France (ANR)
- Germany (DGF)
- India (DST)
- Ireland/N. Ireland (SFI/DfE)
- Israel (BSF)
- Romania (UEFISCDI)
- Switzerland (SNSF)
- Taiwan (NSTC)
- UK (UKRI)



Models and Levels of International Partnerships



Direct multilateral



Direct NSF bilateral



PI-to-PI, catalyzed by NSF



Global Centers: New Multilateral Approach

2023 Focus: Use-inspired research in Climate Change and Clean Energy



Multilateral NSF-led solicitation

- With UK, Canada, Australia

\$5M/5 years on US side

- Each partner funds their own side

NSF FY23 budget ~\$30M USD

Partners pledged >\$40M USD

Address societal challenges

Multi-stakeholder engagement



Models and Levels of International Partnerships



Direct multilateral



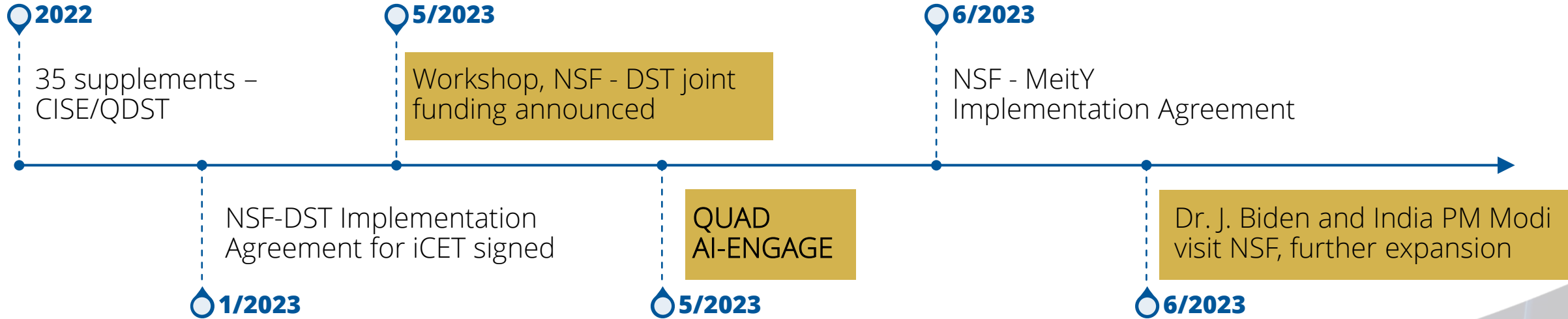
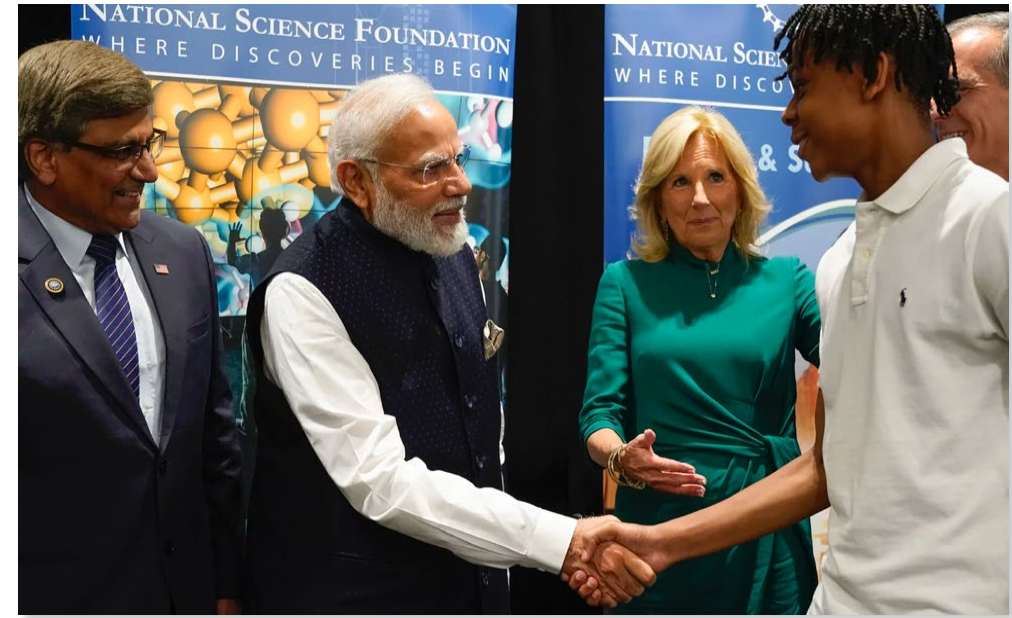
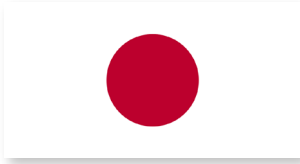
Direct NSF bilateral



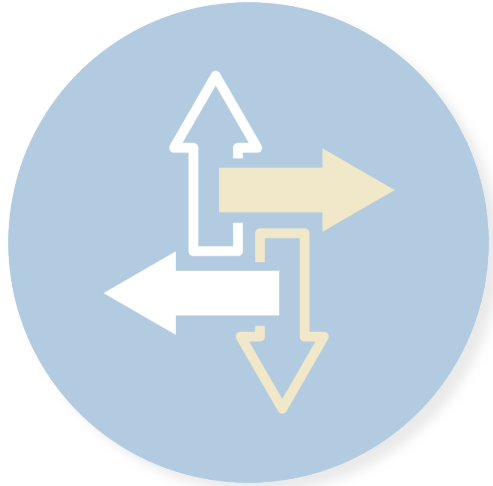
PI-to-PI, catalyzed by NSF



Bilateral to Multilateral



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Seizing Strategic Opportunities



NSF's visibility in science diplomacy strengthens US global leadership



Influence how science is done,
promote US scientific values



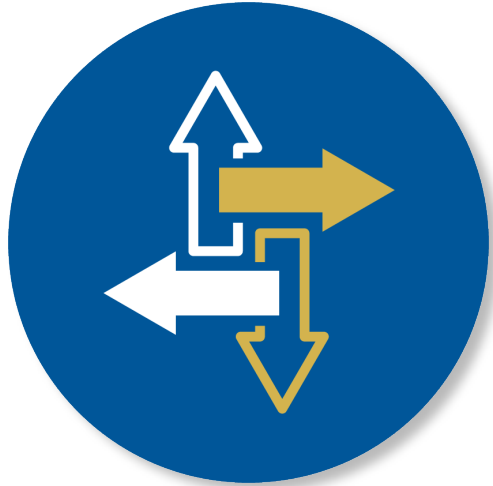
Contribute to policy dialogues on
international S&T



Represent NSF and US
Government (G20, OECD, etc.)



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