



Rebecca Spyke Keiser
Head, Office of International Science and Engineering

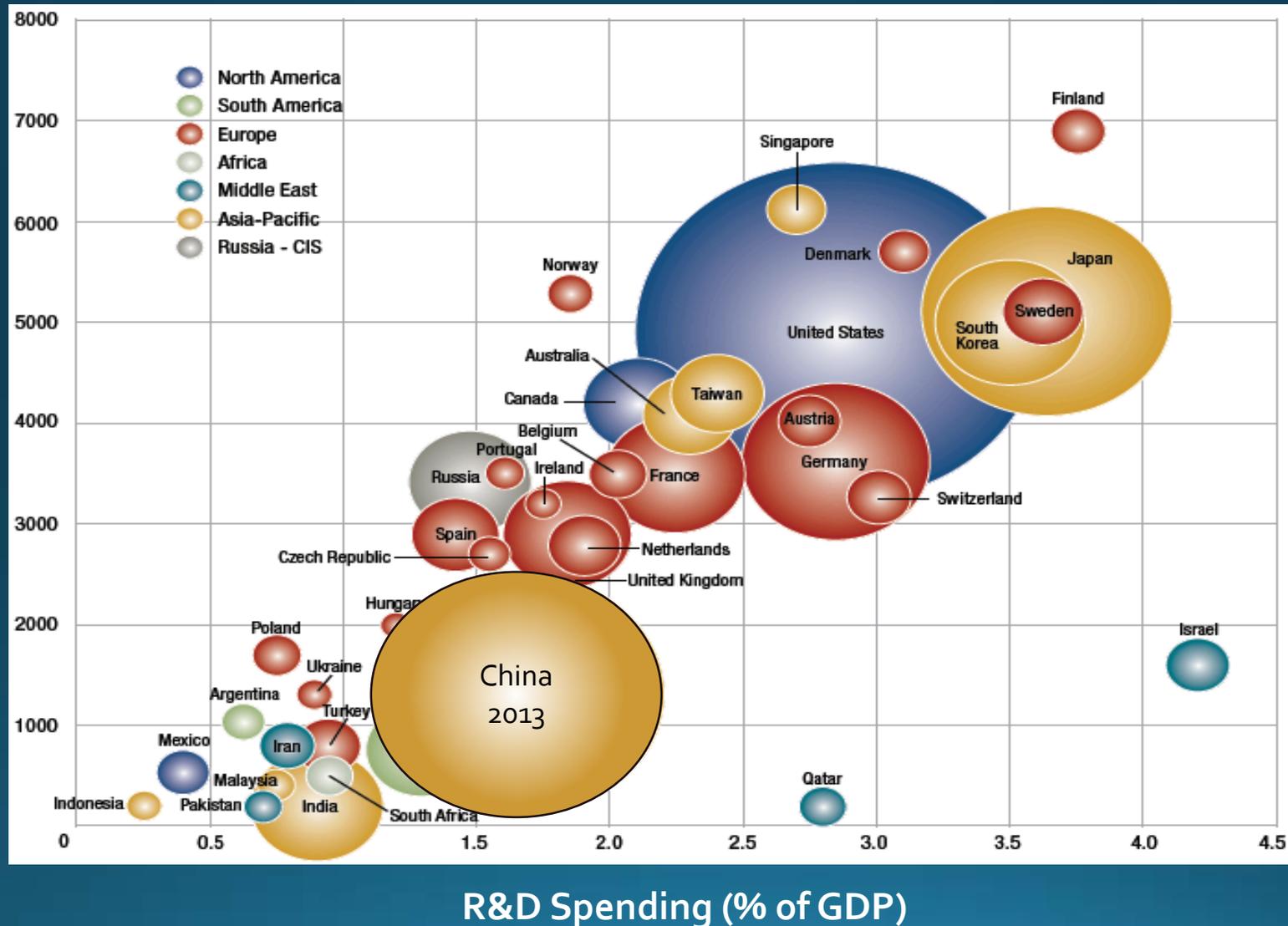
NSF's International Strategy

Presentation to the International Advisory Committee
January 21, 2016



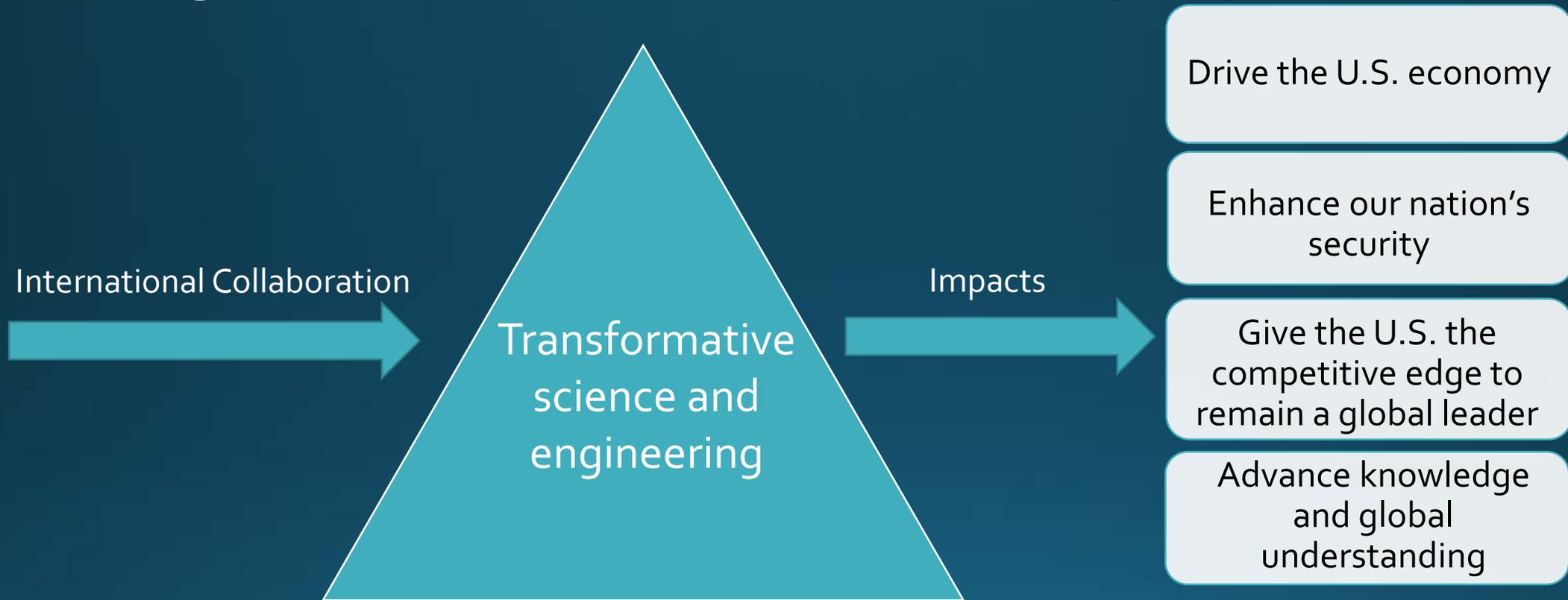
Why an NSF International Strategy Now?

Scientists and Engineers per Million People



Source: Battelle, R&D Magazine, International Monetary Fund, World Bank, CIA World Factbook, OECD

NSF advances transformative science and engineering through investments in research and people



We leverage NSF and world resources through international collaboration

How does NSF engage internationally?

By Investing in PEOPLE

- To work with the best minds around the world
- To create a globally-engaged workforce
- Examples: International Research Experiences for Undergraduates, International Research Experiences for Students Program

By Driving RESEARCH

- To participate in cutting-edge research occurring internationally
- To ensure access to real-time events and phenomena
- Examples: Belmont Forum, Partnerships in International Research and Education Program, RAPIDs

By Partnering on FACILITIES and INFRASTRUCTURE

- To collaborate on the construction and use of world-class facilities and infrastructure
- Examples: Atacama Large Millimeter Array, CERN, Research Data Alliance

By Leading Through International Forums

- To engage with international science leaders and share norms and practices
- Examples: Global Research Council, OECD Global Science Forum, Joint Commission Meetings

Strategic International Engagement

NSF will establish:

International engagement criteria

Does the engagement:

- Forward scientific advances?
- Leverage NSF investments and resources?
- Support broader science policy objectives?
- Provide opportunities not possible if just pursued by the US alone?
- Provide collaborative or extractive opportunities?

Focus on transparency and accountability

- Analytics and foresight
- Evaluation of current programs
- Annual report/international program database
- External review to determine adherence to criteria

Enhanced interface with Department of State and interagency community

- Set high-level policy agenda through National Science/Technology Council
- Coordinate on analytics and foresight
- Leverage resources for overseas science agency presence

Next Steps

- Evaluation of OISE's programmatic portfolio
- Criteria for NSF's international collaborations
- Foresight and analysis
- Interagency relationships

So that we engage internationally in a strategic manner

Discussion

- **What are some areas (specific international science fields, areas of the world) that could benefit from additional analysis and foresight?**
- **What would you like to see in our regular international reporting?**
- **How can work with developing countries be addressed through the strategy?**