



NOVEL APPROACHES TO BREAKTHROUGH RESEARCH



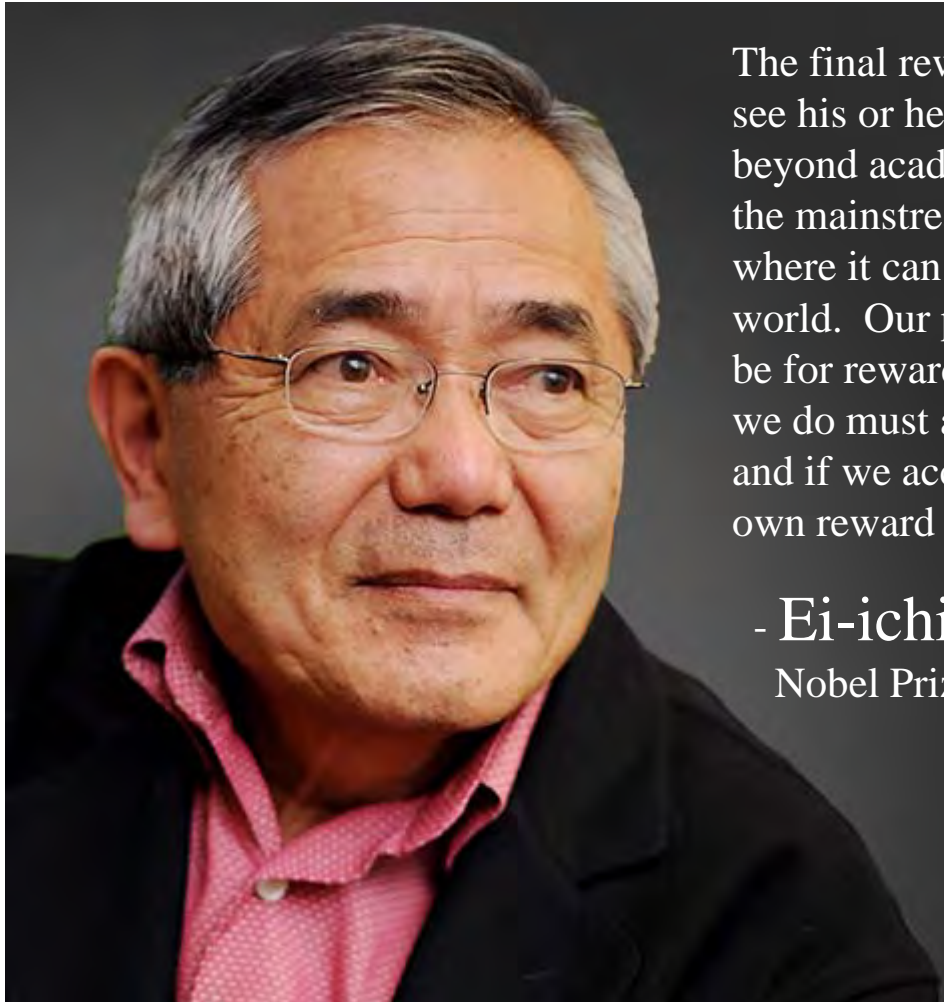
Dr. France A. Córdova
Director, National Science Foundation
Global Symposium on
Scientific Breakthroughs
May 26, 2015

U.S. National Academy of Sciences Welcomes Prime Minister Abe

April 30, 2015




Impact of Fundamental Research



The final reward for any researcher is to see his or her lifetime of work extend beyond academia and laboratories, into the mainstream of our global society where it can breathe hope into the world. Our pursuit in research must not be for rewards. Our pursuit in whatever we do must always be for excellence, and if we accomplish excellence, it is its own reward and recognition will follow.

- Ei-ichi Negishi
Nobel Prize in Chemistry, 2010



214
NSF-funded
Nobel Prize
winners



How Basic Research Impacts Our Lives: NSF-launched Discoveries



GPS



Internet



Barcodes



Doppler Radar



Google



MRI



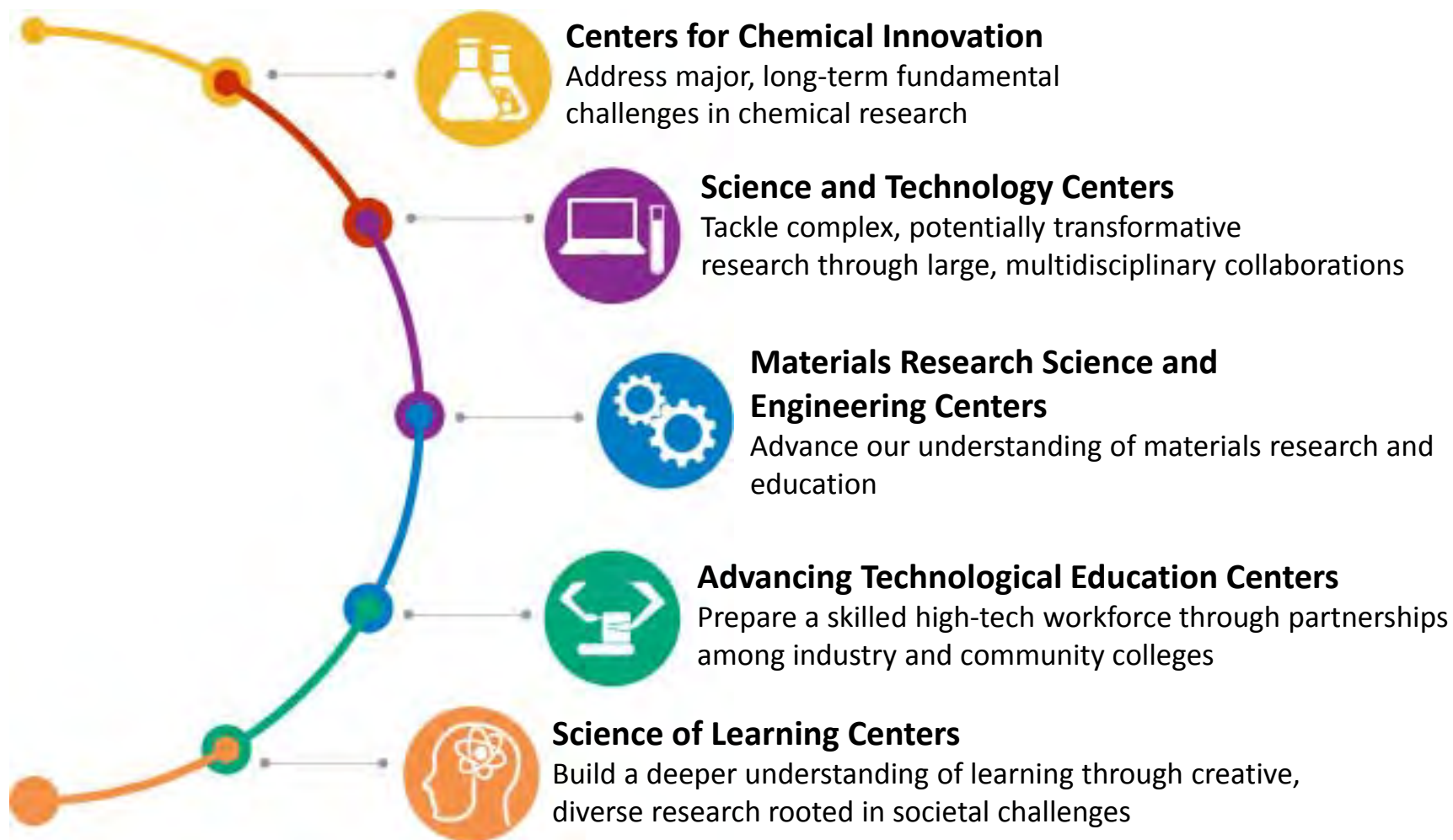


NSF Funding Mechanisms for Bringing Discovery to Delivery

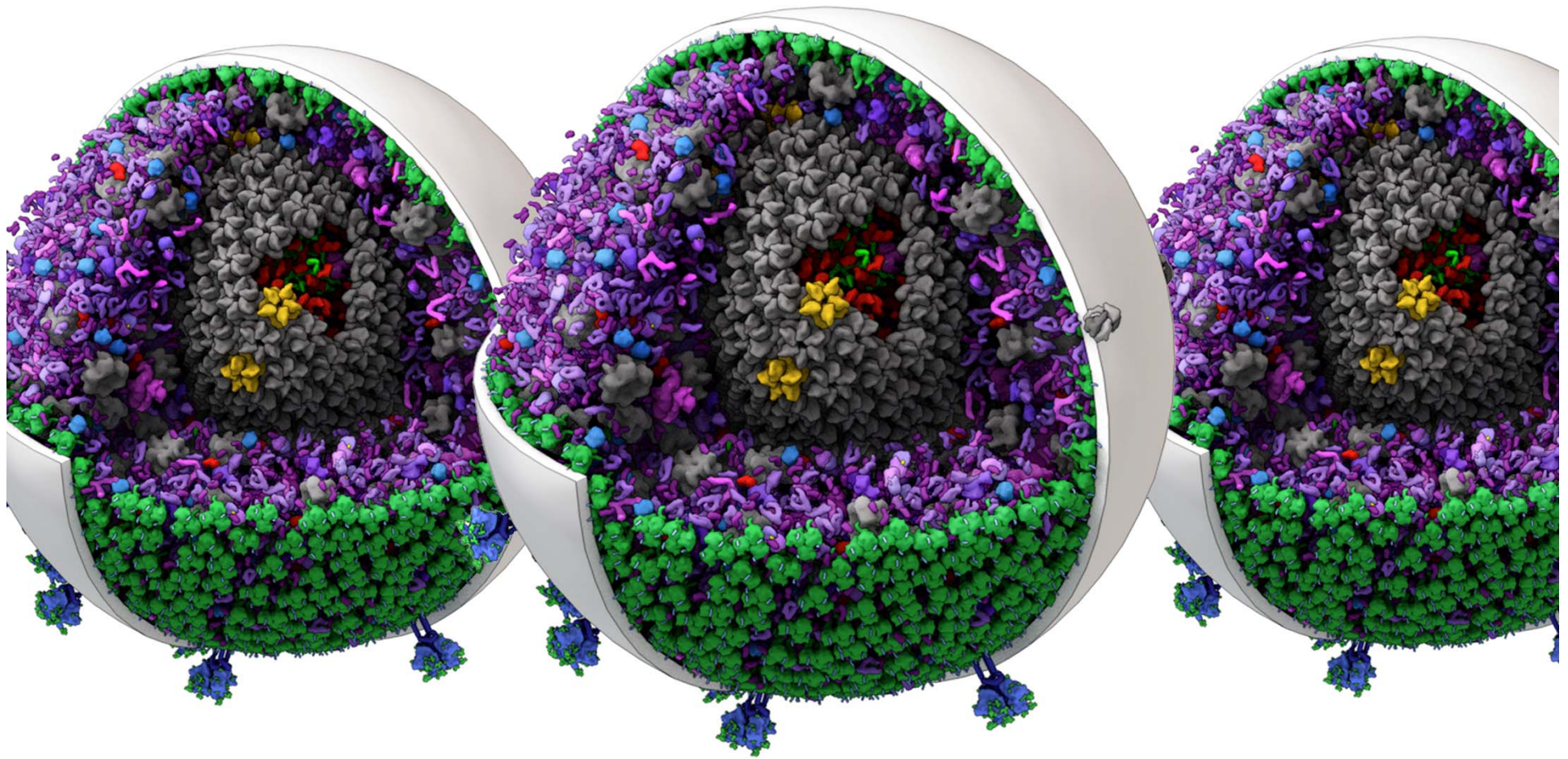
- Interdisciplinary Centers and Programs
- Early Concept Grants for Exploratory Research
- Rapid Response Research
- Big Data: Cyber-infrastructure for Science and Engineering
- International Partnerships
- Innovation Corps



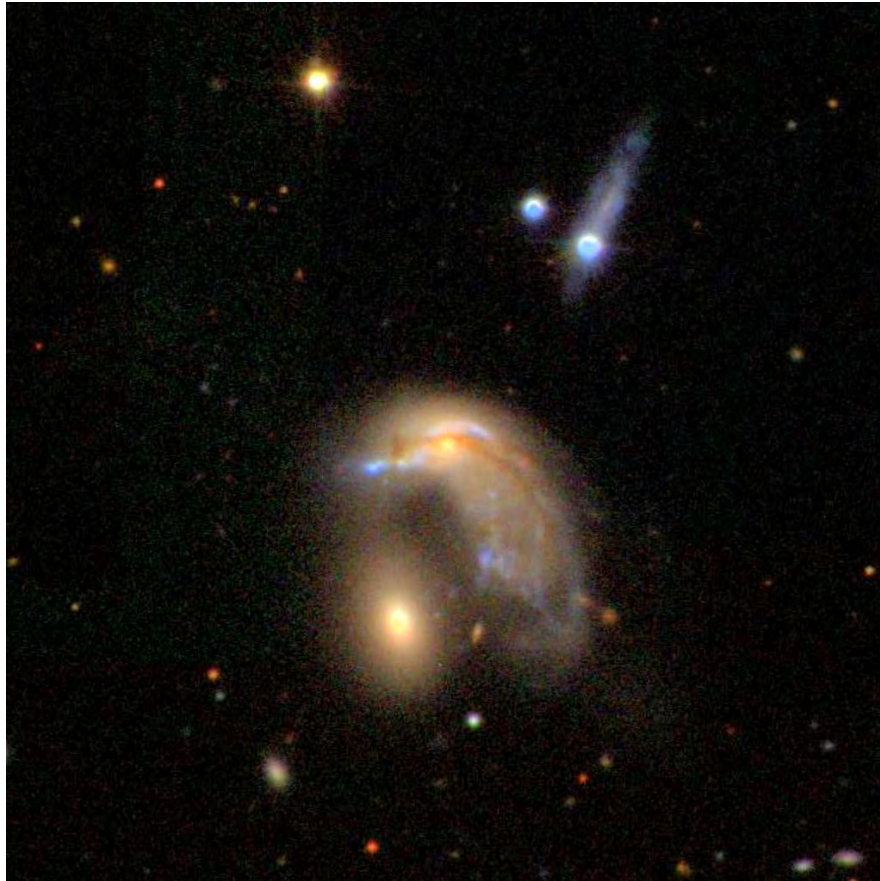
Interdisciplinary Centers



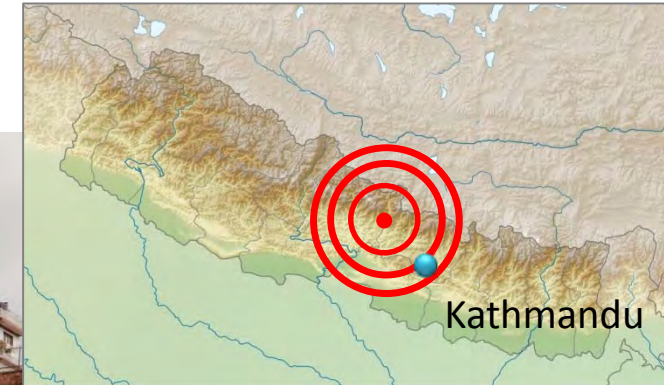
Interdisciplinary Program: BioMaPS



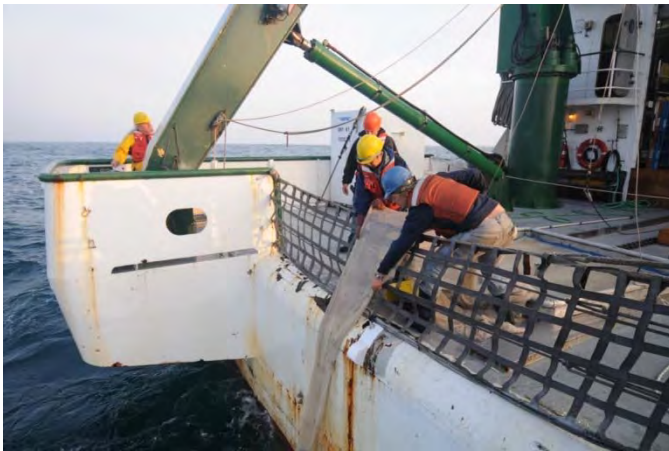
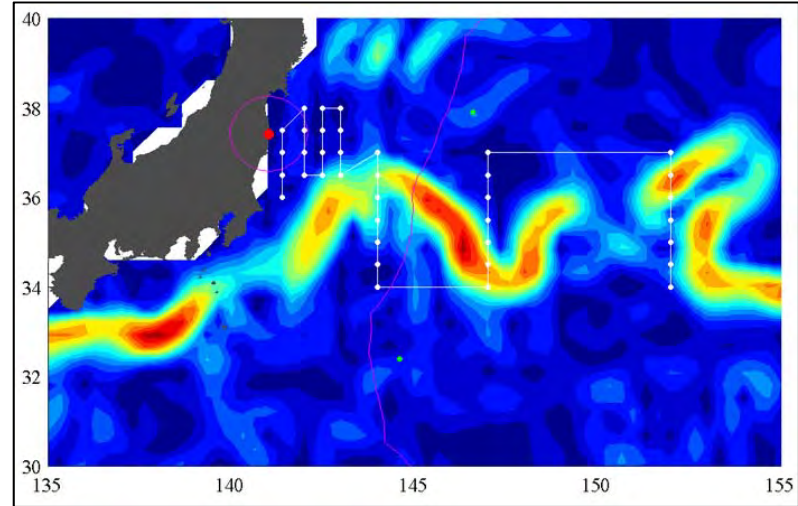
Early Concept Grants for Exploratory Research (EAGER)



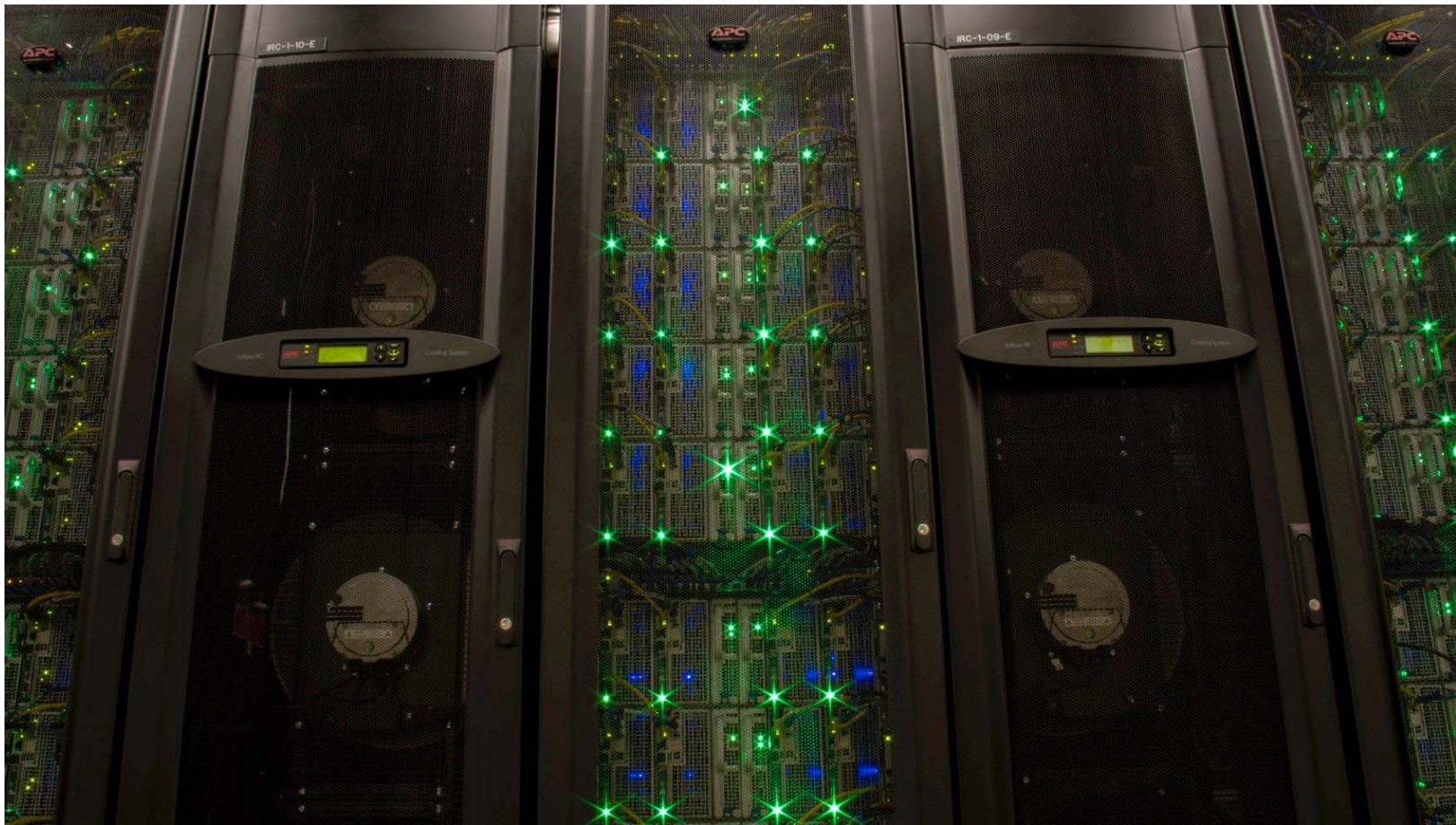
Rapid Response Research (RAPID)



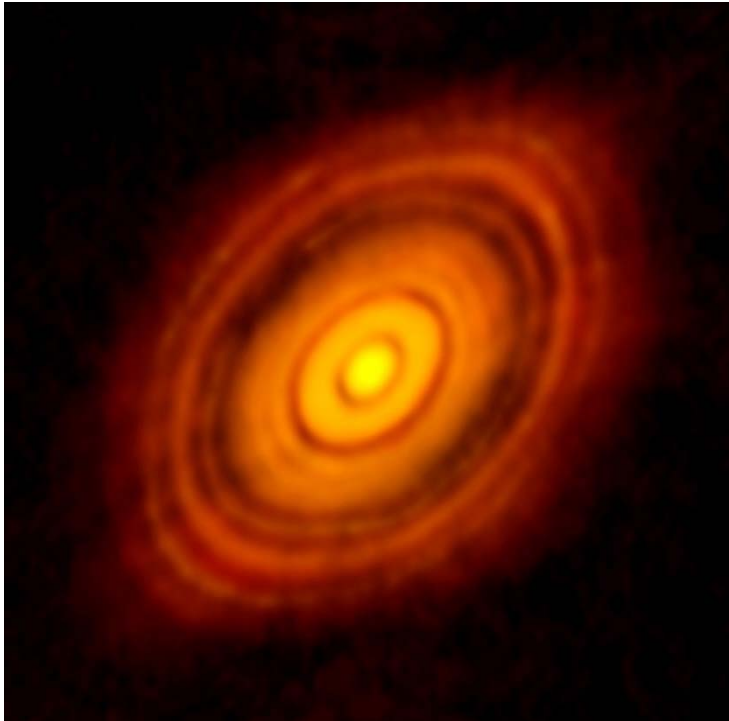
RAPID – US-Japanese Collaboration



Cyber-infrastructure Framework for 21st Century Science and Engineering (CIF21)



International Partnerships (e.g., ALMA)



Innovation Corps (I-Corps)



Funding Tomorrow's Discoverers: JSPS Summer Program 2014



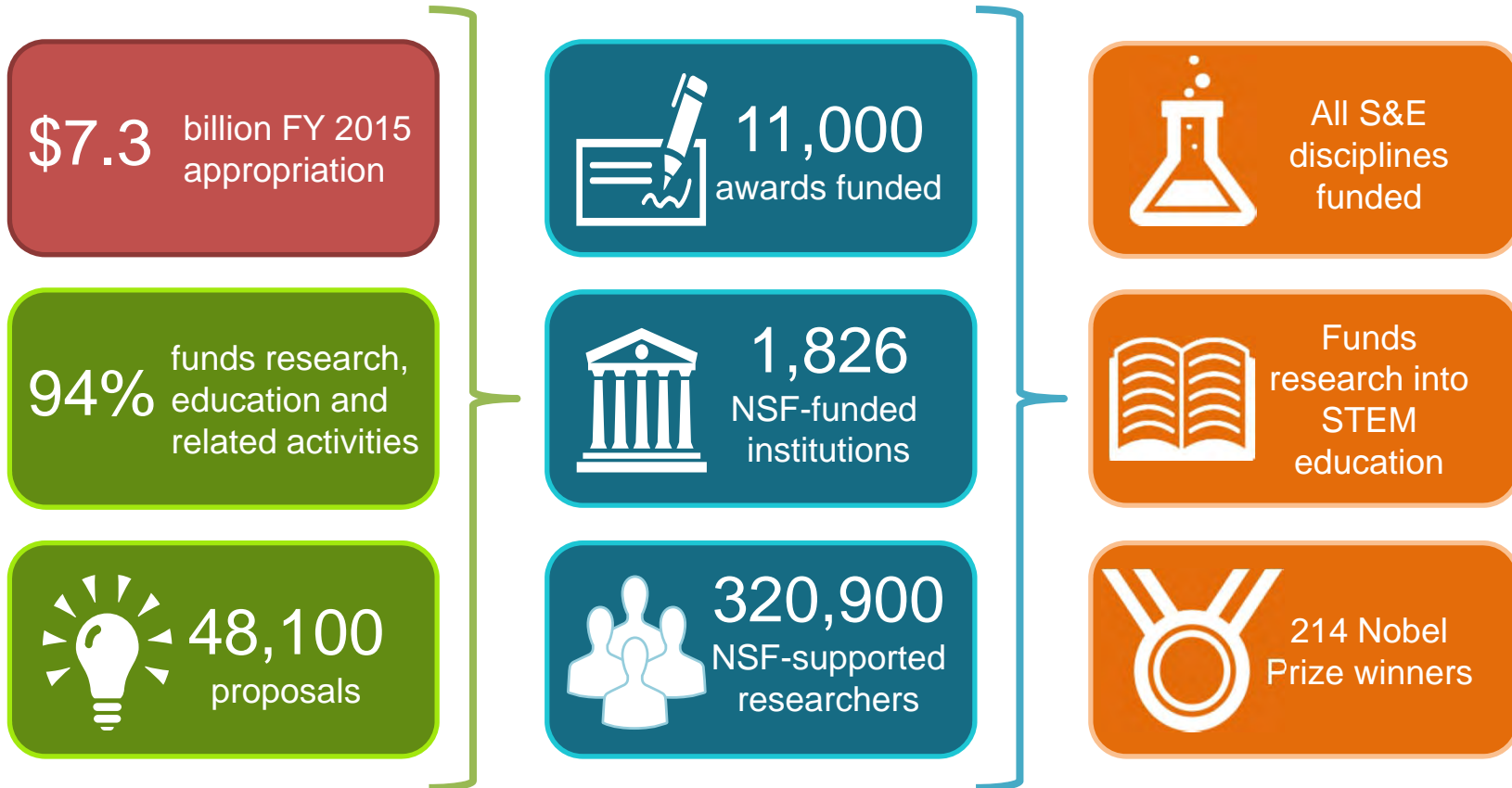


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NSF by the Numbers



Other than the FY 2015 appropriation, numbers shown are based on FY 2014 activities.

