

THINKING BIG

Putting NSF Big Ideas Into Action

Dr. France A. Córdova
Director, National Science Foundation

NSB Meeting May 14-15, 2019





RESEARCH IDEAS



The Future of Work at the Human technology Frontier



Windows on the Universe: The Era of Multi messenger Astrophysics

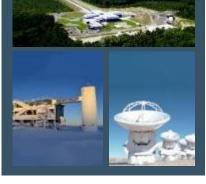


The Quantum
Leap:
Leading the Next
Quantum
Revolution

Harnessing the Data Revolution



Navigating the New Arctic



Understanding the Rules of Life: Predicting Phenotype



ENABLING IDEAS

Mid scale Research Infrastructure



NSF 2026



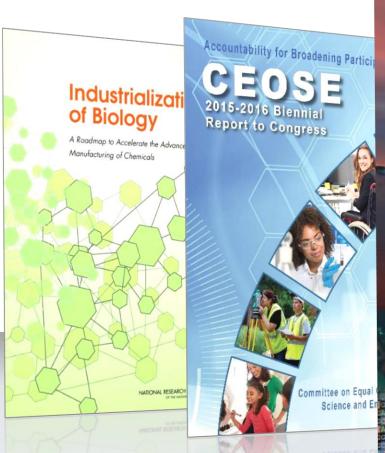


Growing
Convergence
Research at NSF

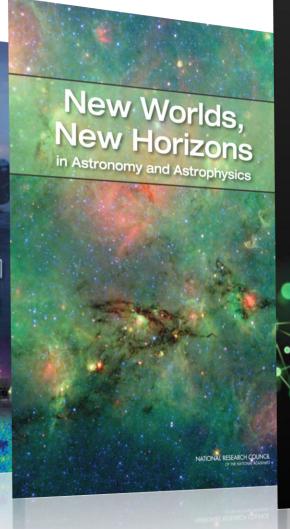


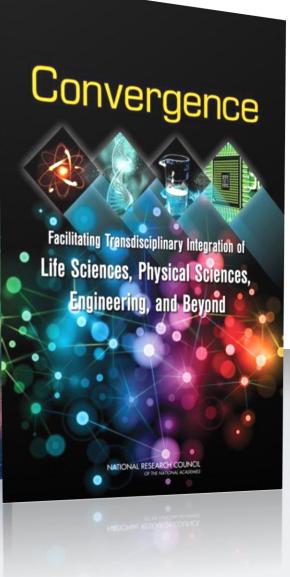
NSF INCLUDES: Enhancing STEM through Diversity and Inclusion



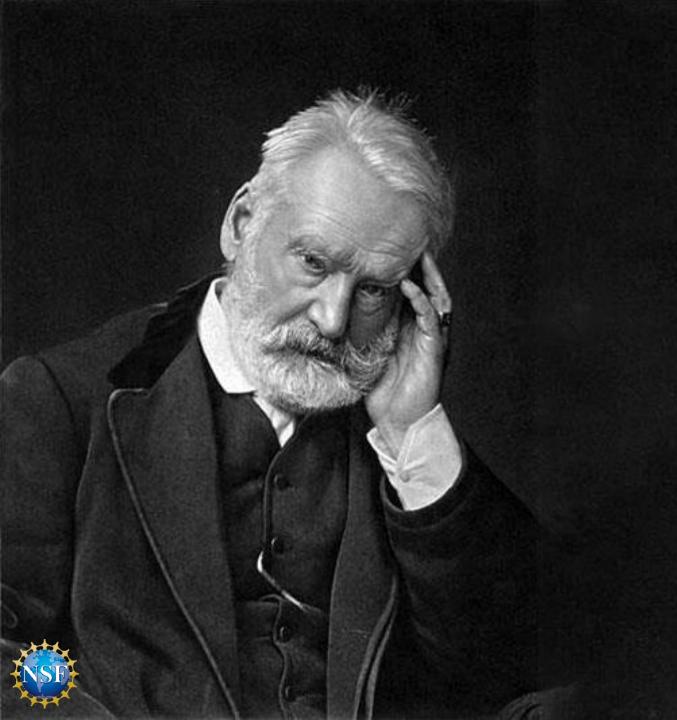












"Science says the first word on everything and the last word on nothing."

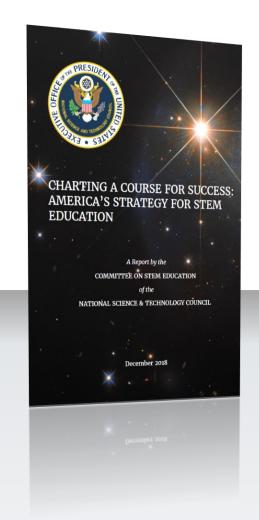
Victor Hugo

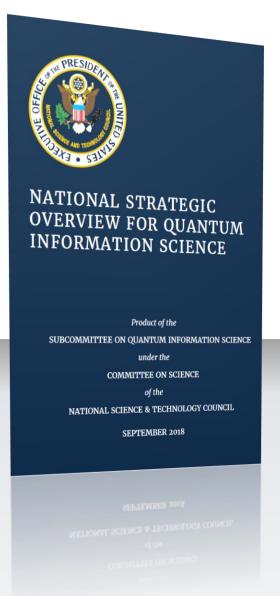


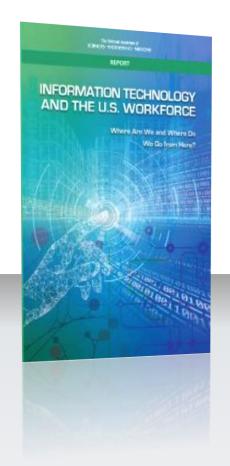
The Council of Economic Advisers
July 2018







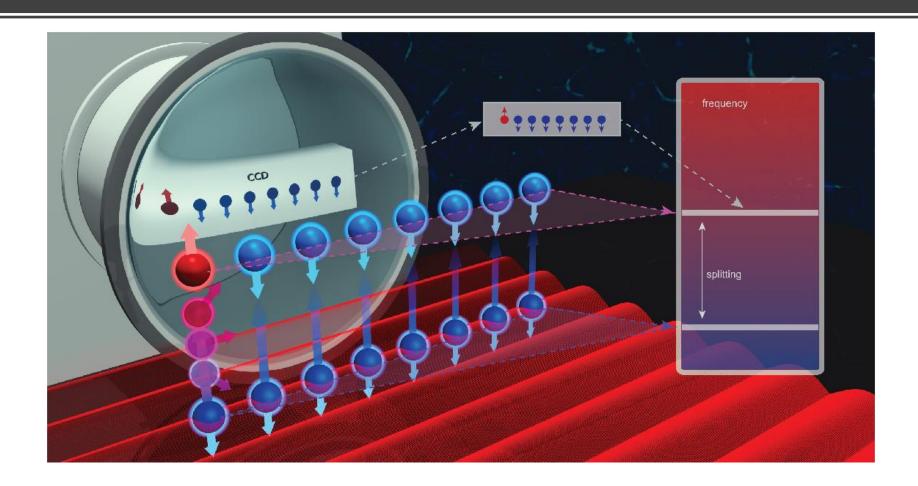




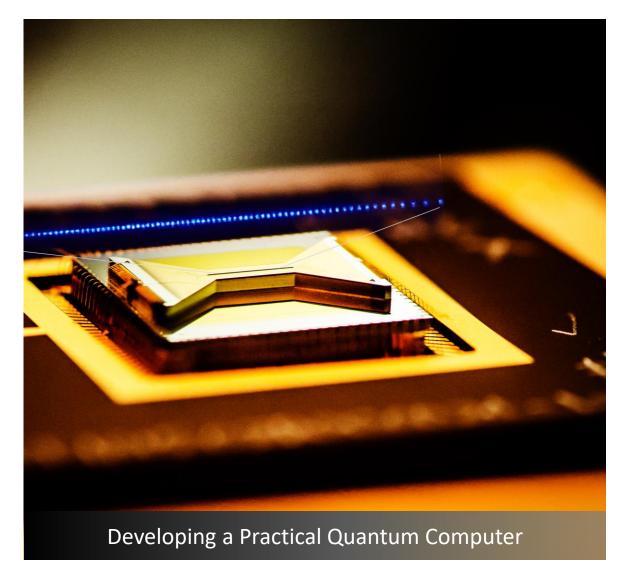


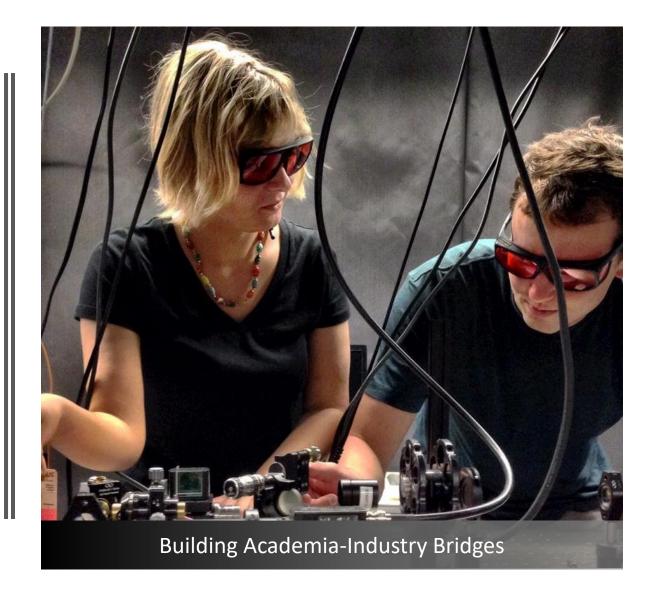
The Quantum Leap

Leading the Next Quantum Revolution











Understanding the Rules of Predicting Phenotype



NSF-Simons Research Centers





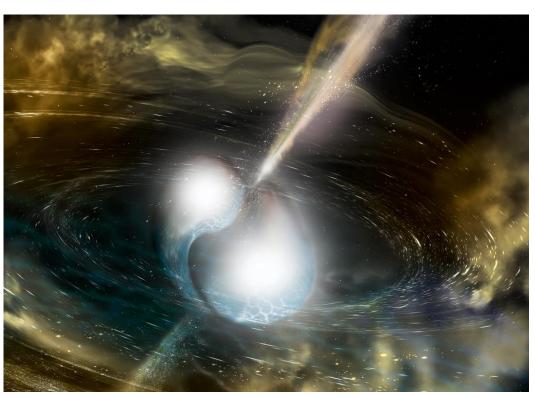


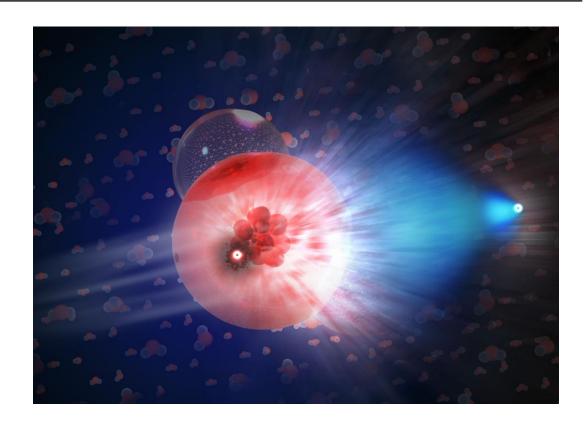




Windows on the Universe

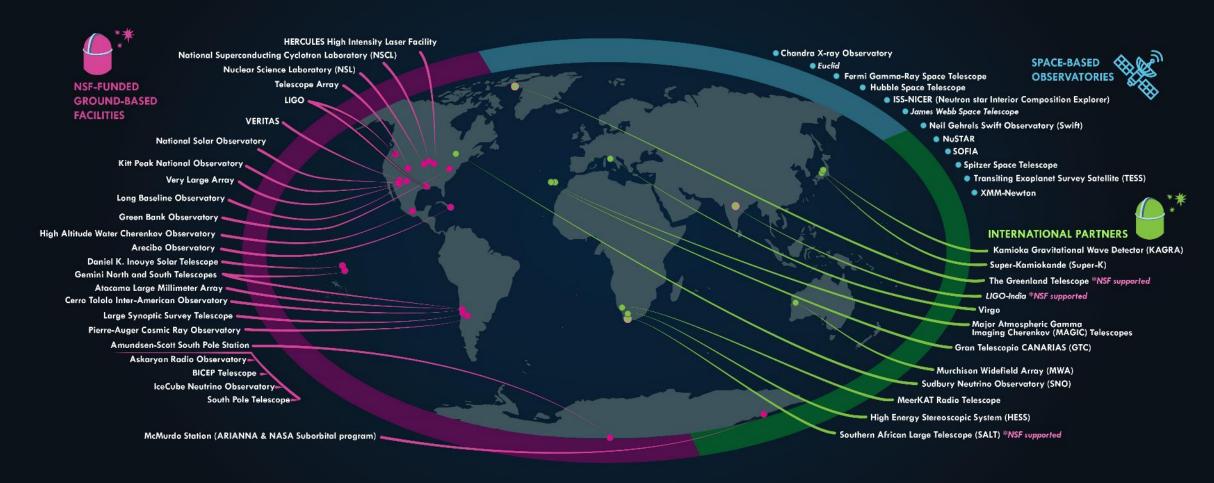
The Era of Multi-messenger Astrophysics







THE ERA OF MULTI-MESSENGER ASTROPHYSICS













The Future of Work at the Human-Technology Frontier

Future Technology



Future Workers



Future Work







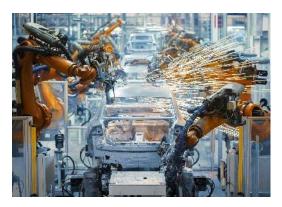


Diverse Work Domains









Navigating the New Arctic





MOSAiC







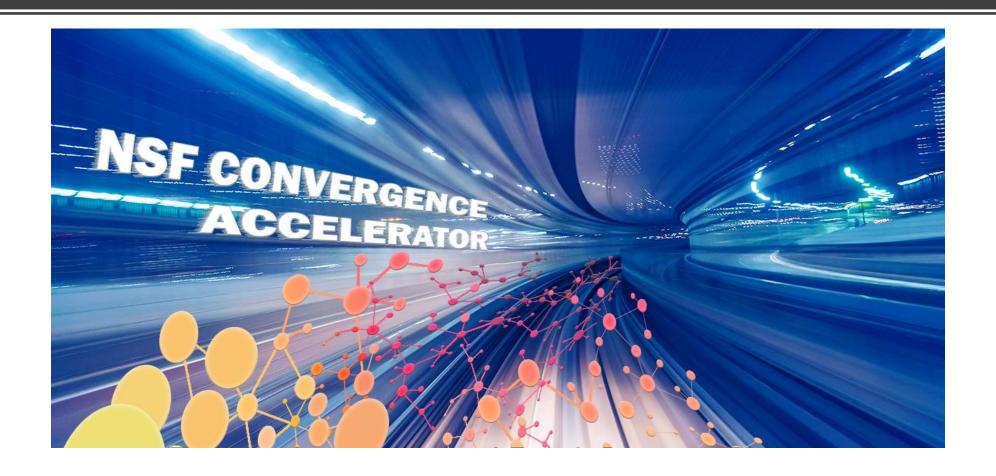


Harnessing the Data Revolution





Convergence Accelerator





Open Knowledge Network



Enhancing scientific data discovery and use



Connecting, retraining and reskilling for jobs using Al



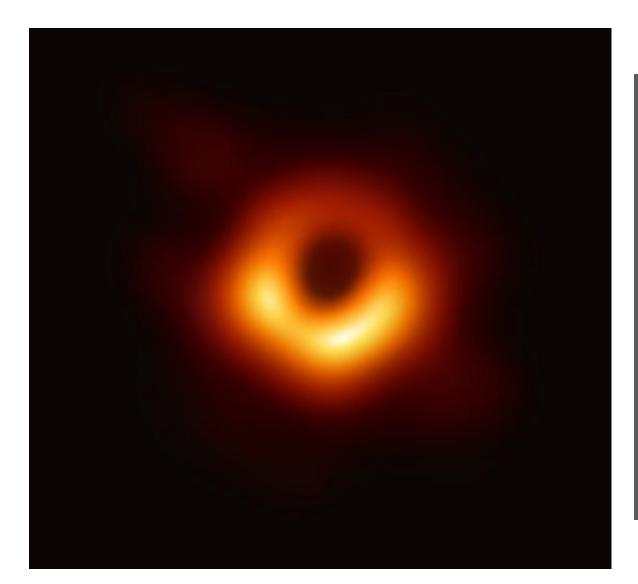
Building talent in a changing workplace

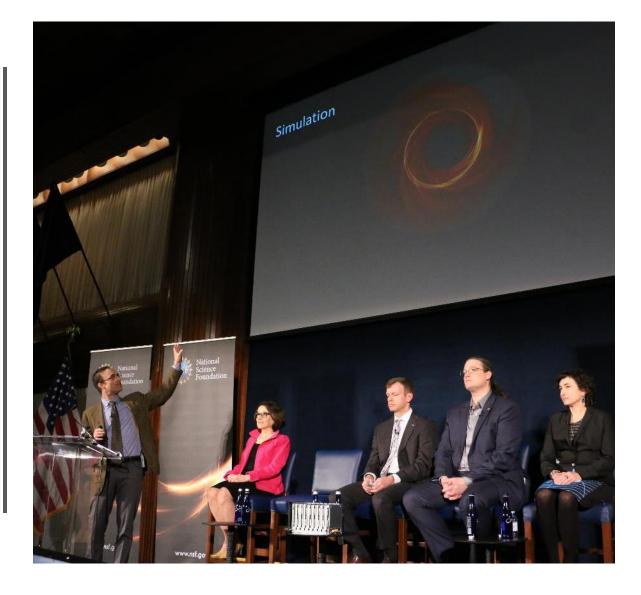














NSF INCLUDES

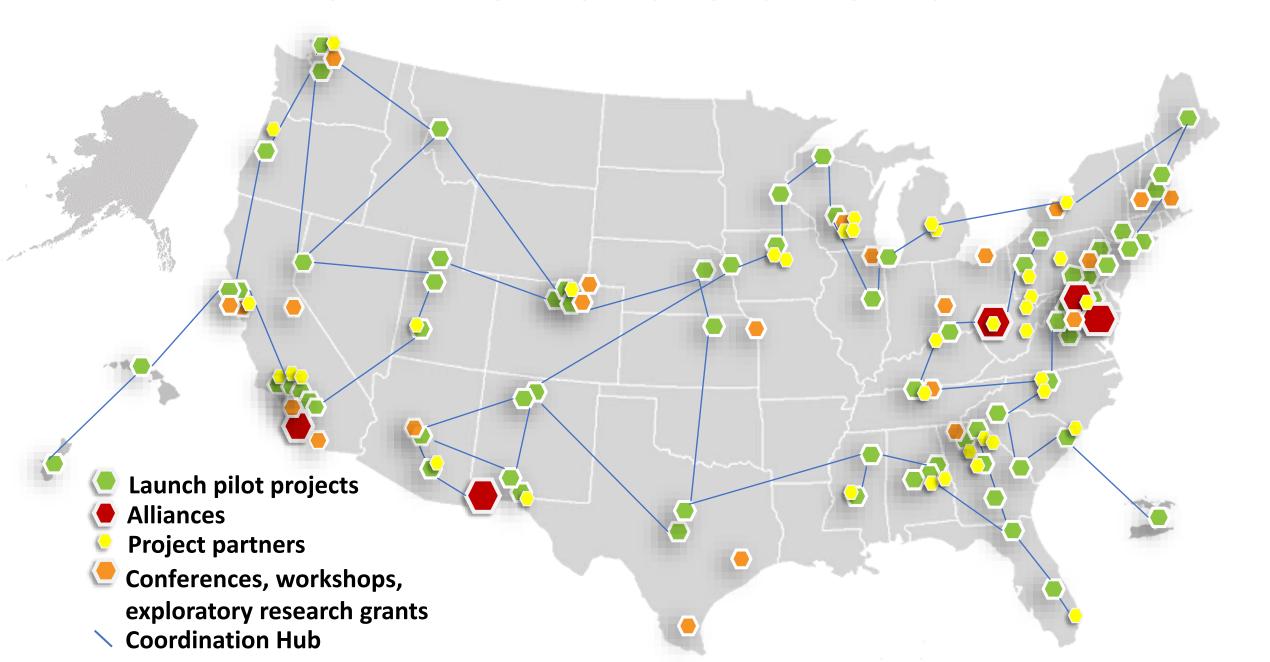








NSF INCLUDES National Network



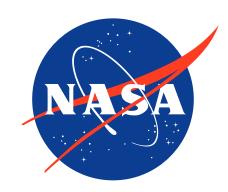
















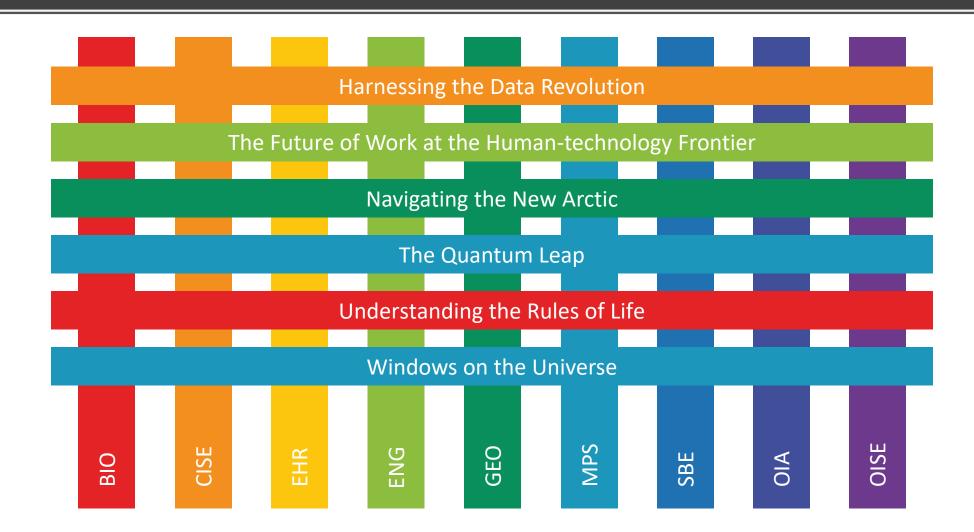
THE NSF 2026 IDEA MACHINE

Identifying themes for future investments





Stewardship Model







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