



NATIONAL SCIENCE FOUNDATION

NSF IDEAS FOR F U T U R E I N V E S T M E N T

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Director, National Science Foundation May 6, 2016



NSF Ideas for Future Investment

- Harnessing Data for 21st Century Science and Engineering
- Shaping the New Human Technology Frontier
- Understanding the Rules of Life: Predicting Phenotype
- The Quantum Leap: Leading the Next Quantum Revolution
- Navigating the New Arctic
- Windows on the Universe: The Era of Multi-messenger Astrophysics

PROCESS IDEAS

- Growing Convergent Research at NSF
- Mid-scale Research Infrastructure
- NSF 2050



Harnessing Data for 21st Century Science and Engineering

MATHEMATICAL, STATISTCAL, OPEN COMPUTATIONAL PUBLIC DUCATION WORKFORCE FUNDAMENTAL RESEARCH # GEO MA DOMAIN E S RESEARCH S DATA MPS S SCIENCE S **CYBERINFRASTRUCTURE** CHALLENGES 5



Shaping the New Human — Technology Frontier





Understanding the Rules of Life

Predicting Phenotype

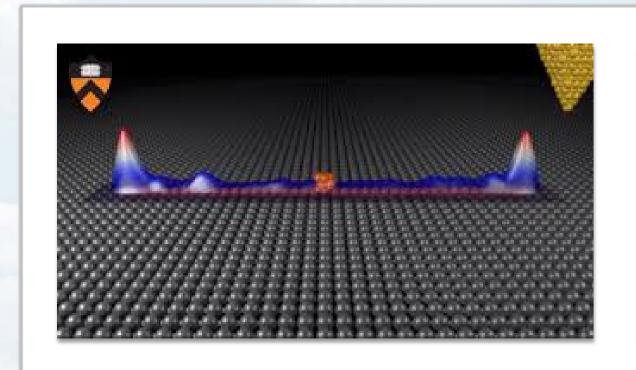


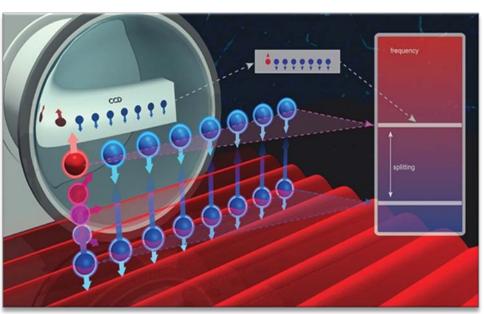




The Quantum Leap

Leading the Next Quantum Revolution







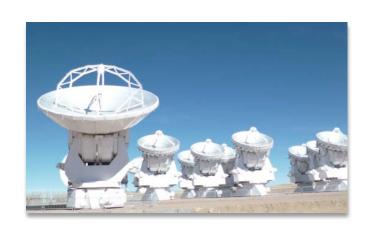
Navigating the New Arctic





Windows on the Universe

The Era of Multi-messenger Astrophysics

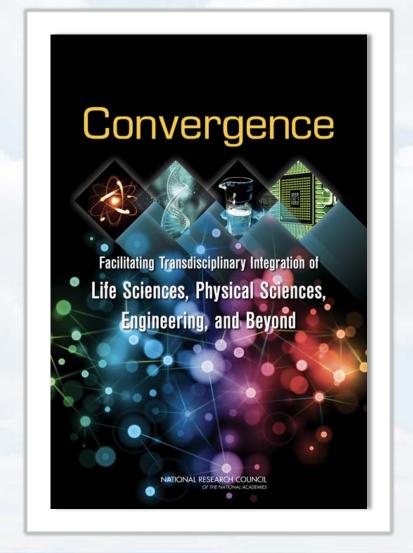








Growing Convergent Research at NSF





Mid-scale Research Infrastructure





NSF 2050





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