



NATIONAL SCIENCE FOUNDATION

NSF IDEAS FOR  
FUTURE  
INVESTMENT

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# NSF Ideas for Future Investment

- Harnessing Data for 21<sup>st</sup> 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

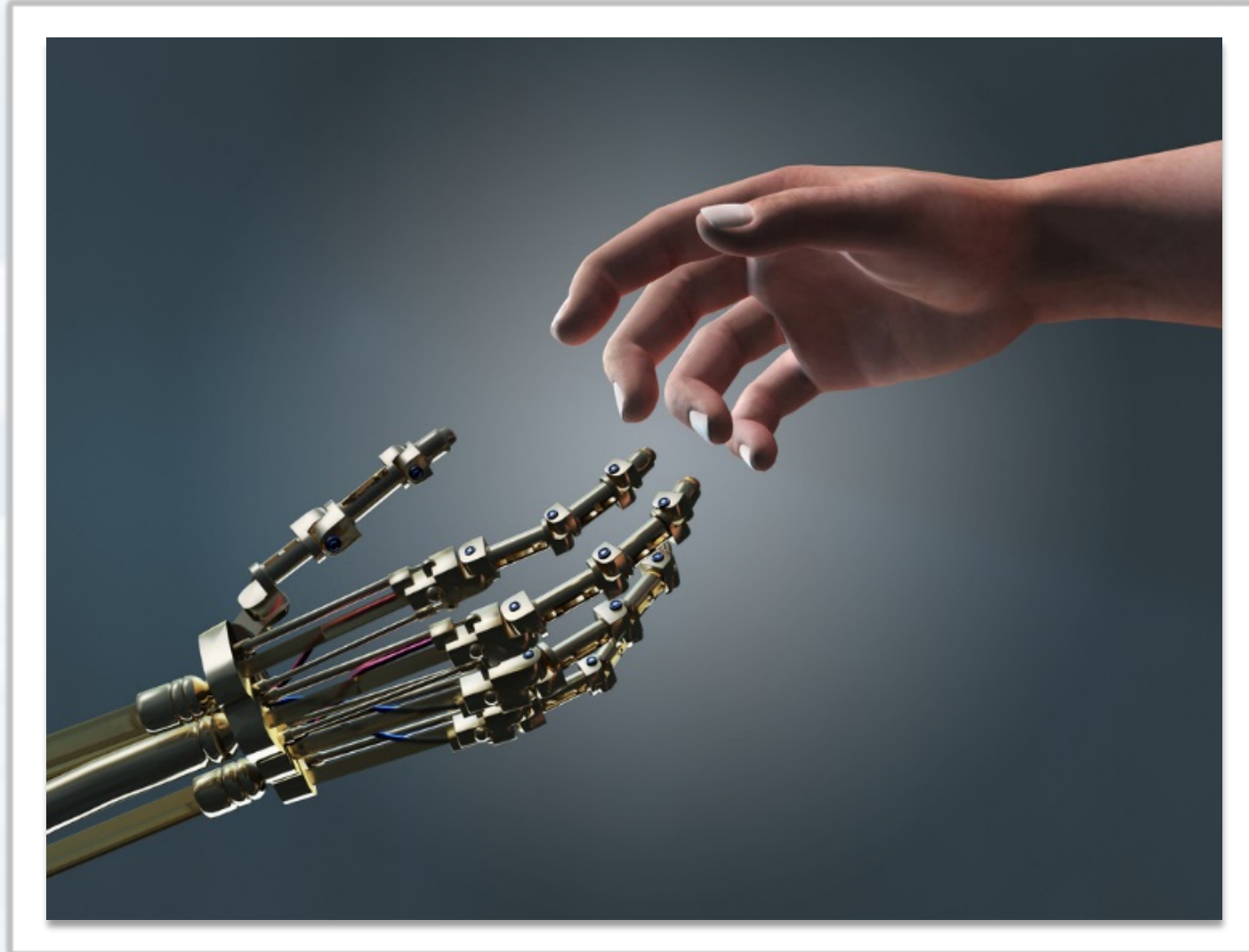
- Growing Convergent Research at NSF
- Mid-scale Research Infrastructure
- NSF 2050



# Harnessing Data for 21<sup>st</sup> Century Science and Engineering



# Shaping the New Human — Technology Frontier



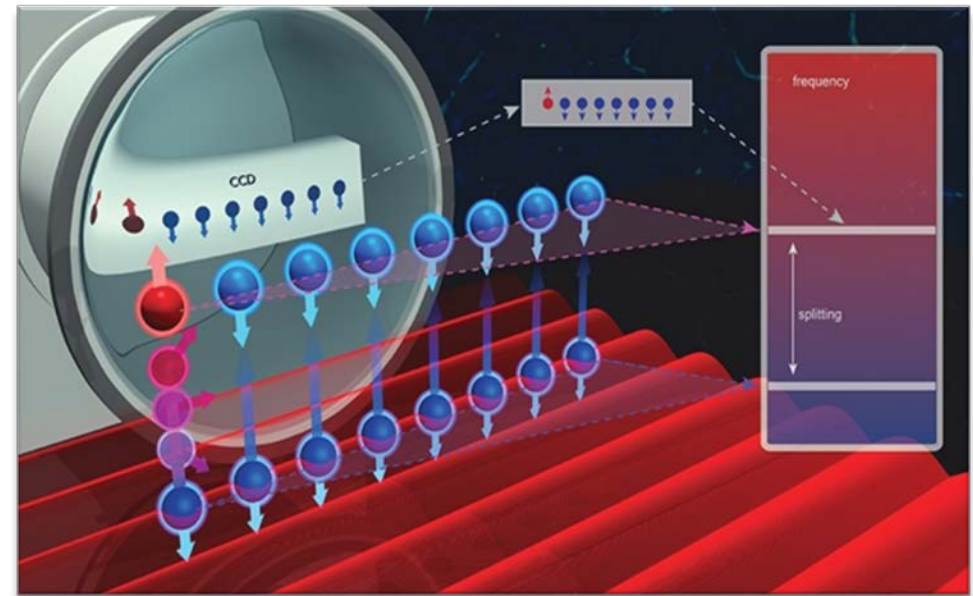
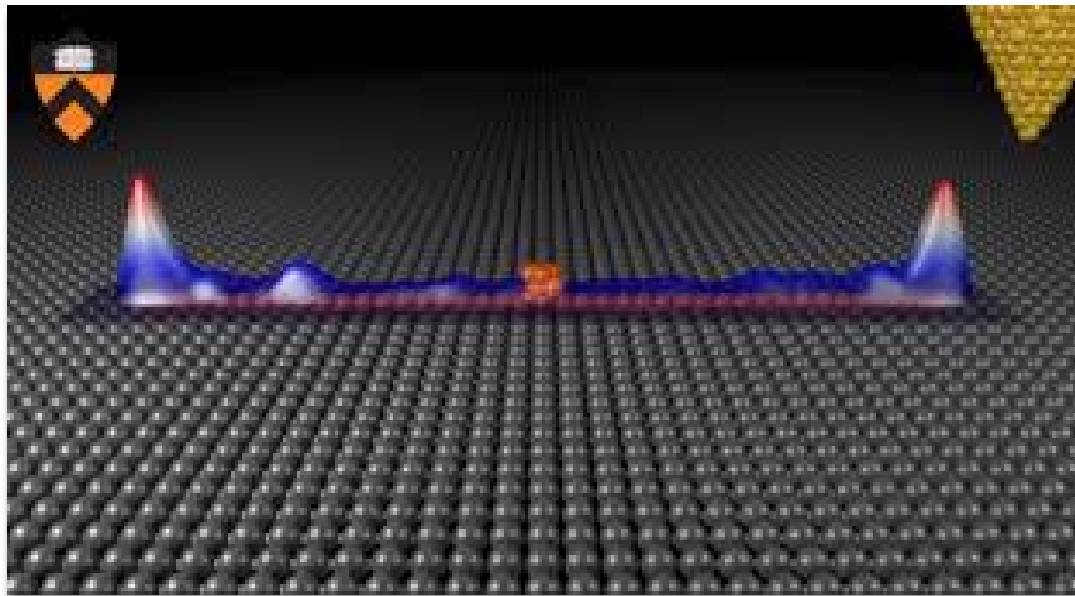
# Understanding the Rules of Life

## Predicting Phenotype



# The Quantum Leap

Leading the Next Quantum Revolution



# Navigating the New Arctic



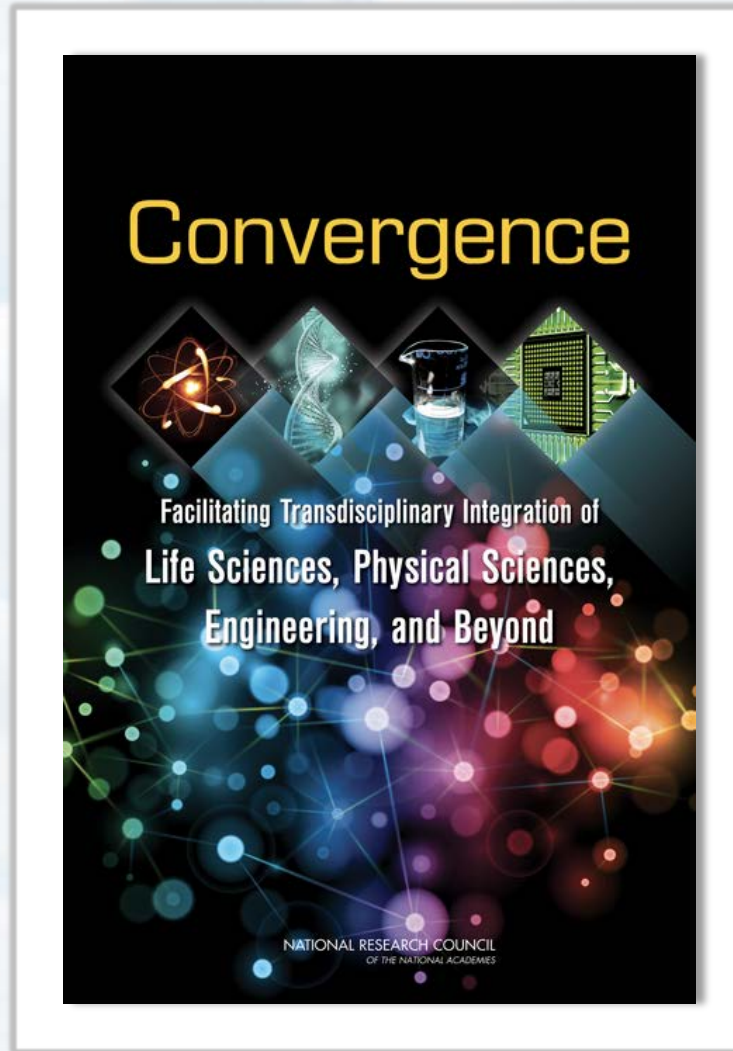
# Windows on the Universe

## The Era of Multi-messenger Astrophysics





# Growing Convergent Research at NSF



# Mid-scale Research Infrastructure



# NSF 2050



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