(AKA "Strengthening the Core")



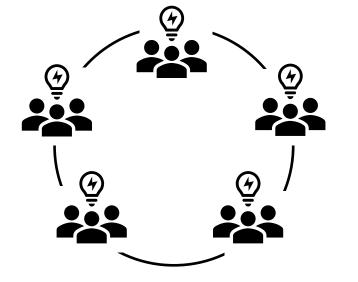
F. Fleming Crim Chief Operating Officer National Science Foundation

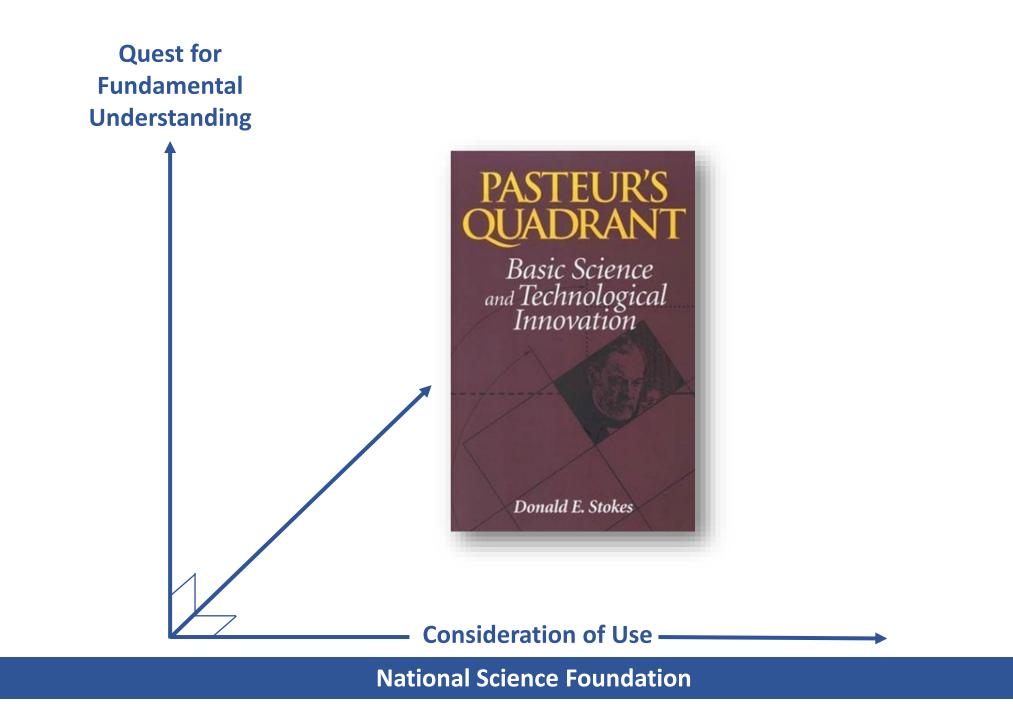
Matt Wilson Senior Advisor, Office of the Director National Science Foundation

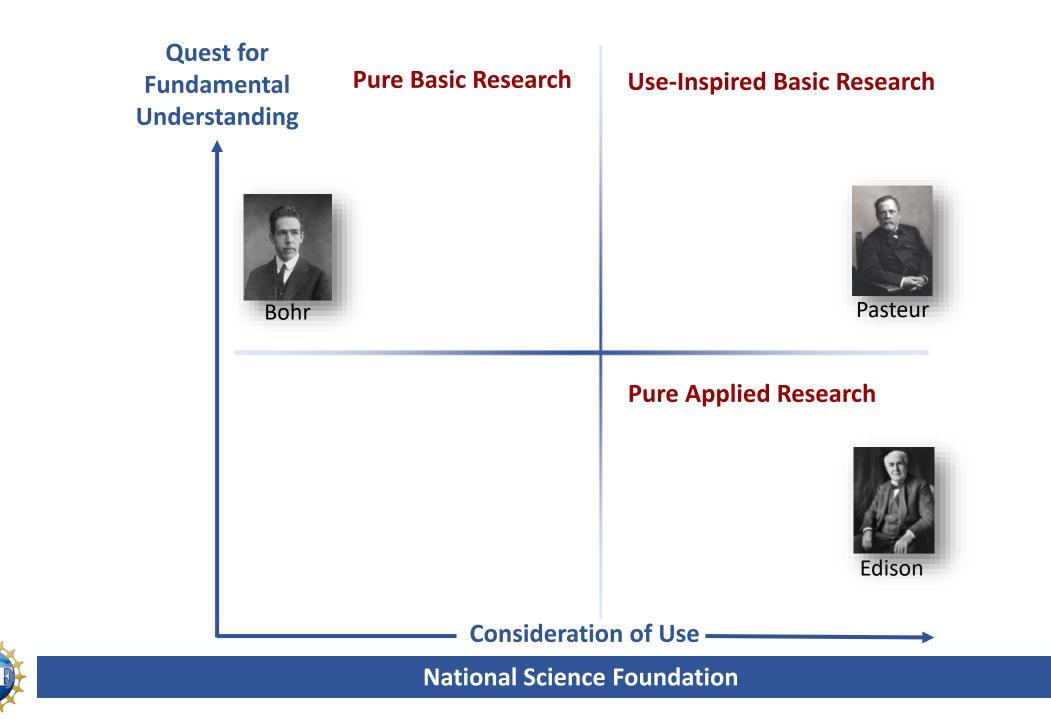


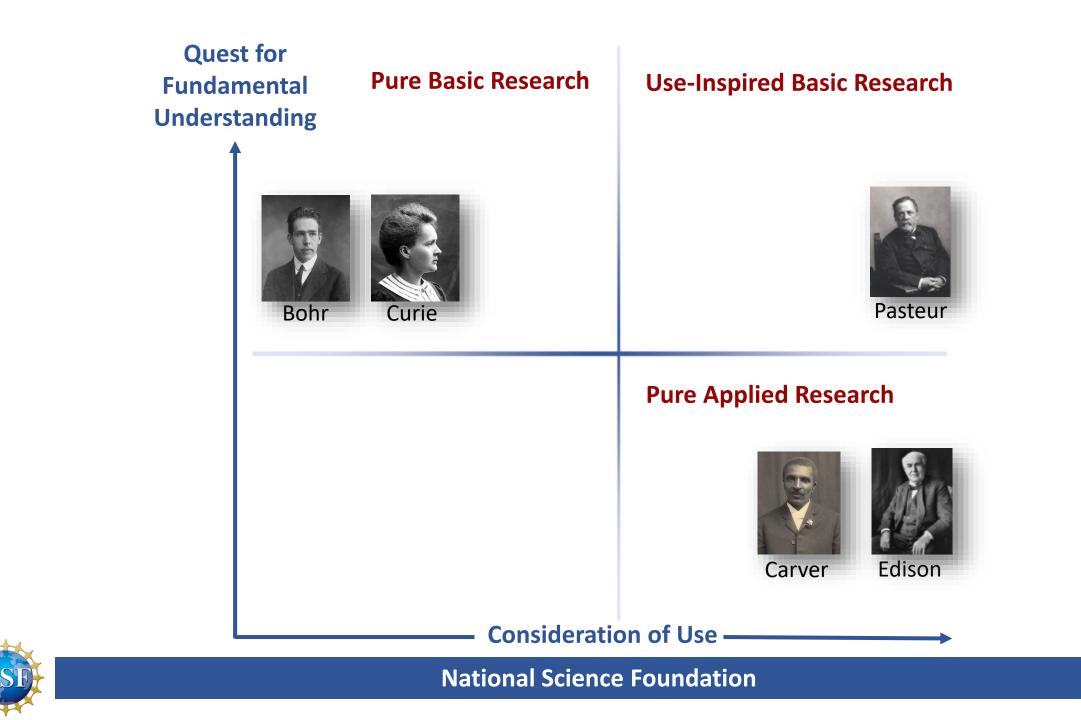
- Investigator or community initiated
- Driven by curiosity
- Basic or fundamental
- Responds to continuing programs
- Constantly evolving at the frontiers of discovery
- A defining characteristic of NSF the core mission

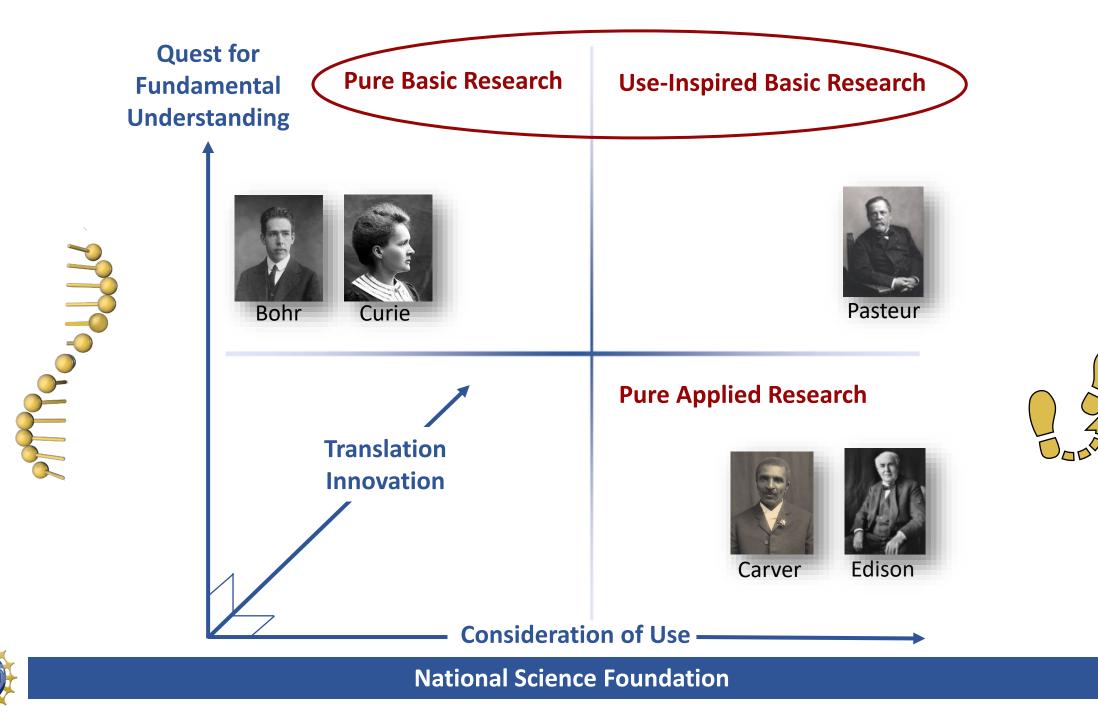


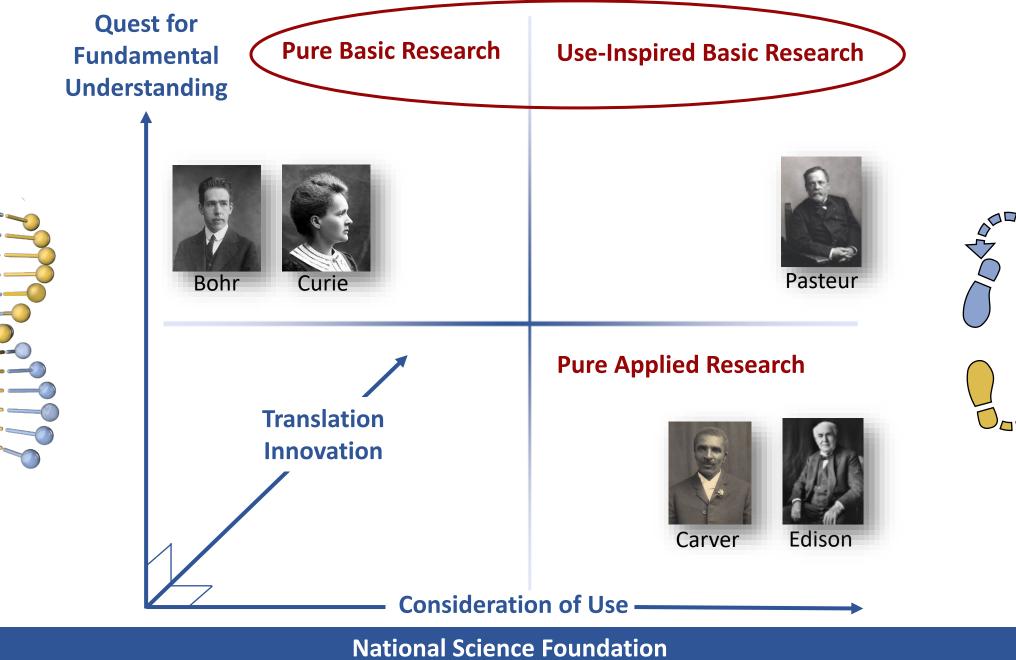






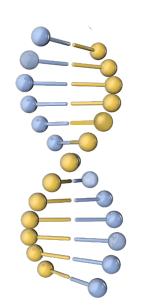






Fostering Discoveries and Discoverers As NSF Grows and Evolves Discovery Research is central to the NSF mission Working at the frontiers of knowledge **YInMn Blue Differential Privacy DKIST First Image** Providing accurate data Data Quality Bnae Kegouge Dada Qualitg | Vrkk Jzcfkdy Data Qaality | Dncb PrhvBln Dzte Qvality | Dncb Prtnavy Dfha Quapyti | Tgta Ppijacy Tgta Qucjity | Dfha Pnjvico Dncb Qhulitn | Dzhe Njivaci Ntue Quevdto | Dzte Privecy Vrkk Zuhnvry Dada Privacg Bnag Denorbe Data Privacy Safeguarding individual privacy Michael Hawes, US Census NSO/NSF/AURA M. A. Subramanian

NST |



Fostering Discoveries and Discoverers As NSF Grows and Evolves

Discovery Research is central to the NSF mission

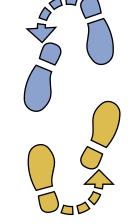
Working at the frontiers of knowledge



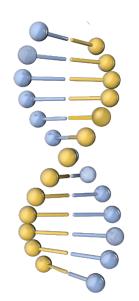
A Beware of false dichotomies

YInMn Blue









Fostering Discoveries and Discoverers As NSF Grows and Evolves

Discovery Research is central to the NSF mission

Working at the frontiers of knowledge

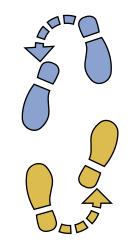
A Beware of false dichotomies

First new blue pigment in 200 years !





Coloration Industry





An Embarrassment of Riches (Only a Few Examples)

Pure or Use-Inspired Basic Research

Foundations of Electronic Marketplaces: Game Theory, Algorithms, and Systems

Bacterial Immunity

Structural Biology, Computer Science, Physics, and Engineering (1980s)

Fundamental Research in Economics and Psychology

Fundamental Research in Synthetic Biology (Directed Evolution)

Translation and Innovation

Algorithms for Kidney Exchange

CRISPR

Cryo-Electron Microscopy

Behavioral Economics

Synthetic Pheromones, Pest Control



Enhancing the Basic Research Strand Further

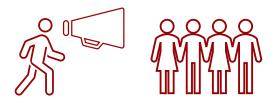
Use the Flexibilities of NSF

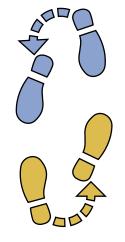
Capacity Building

Culture, People, and Risk Taking

Strategic Prioritization

Messaging a Range of Audiences







Enhancing the Basic Research Strand Further

Use the Flexibilities of NSF

Capacity Building

Culture, People, and Risk Taking

Strategic Prioritization

Messaging a Range of Audiences

Public, Research Community, Congress, White House, ...





