

SC EPSCoR / IDeA Program Forward

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**2017
SC State
Conference**

**SC EPSCoR/
IDeA**





South Carolina EPSCoR/IDeA Program *Forward*

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SC EPSCoR/IDeA 





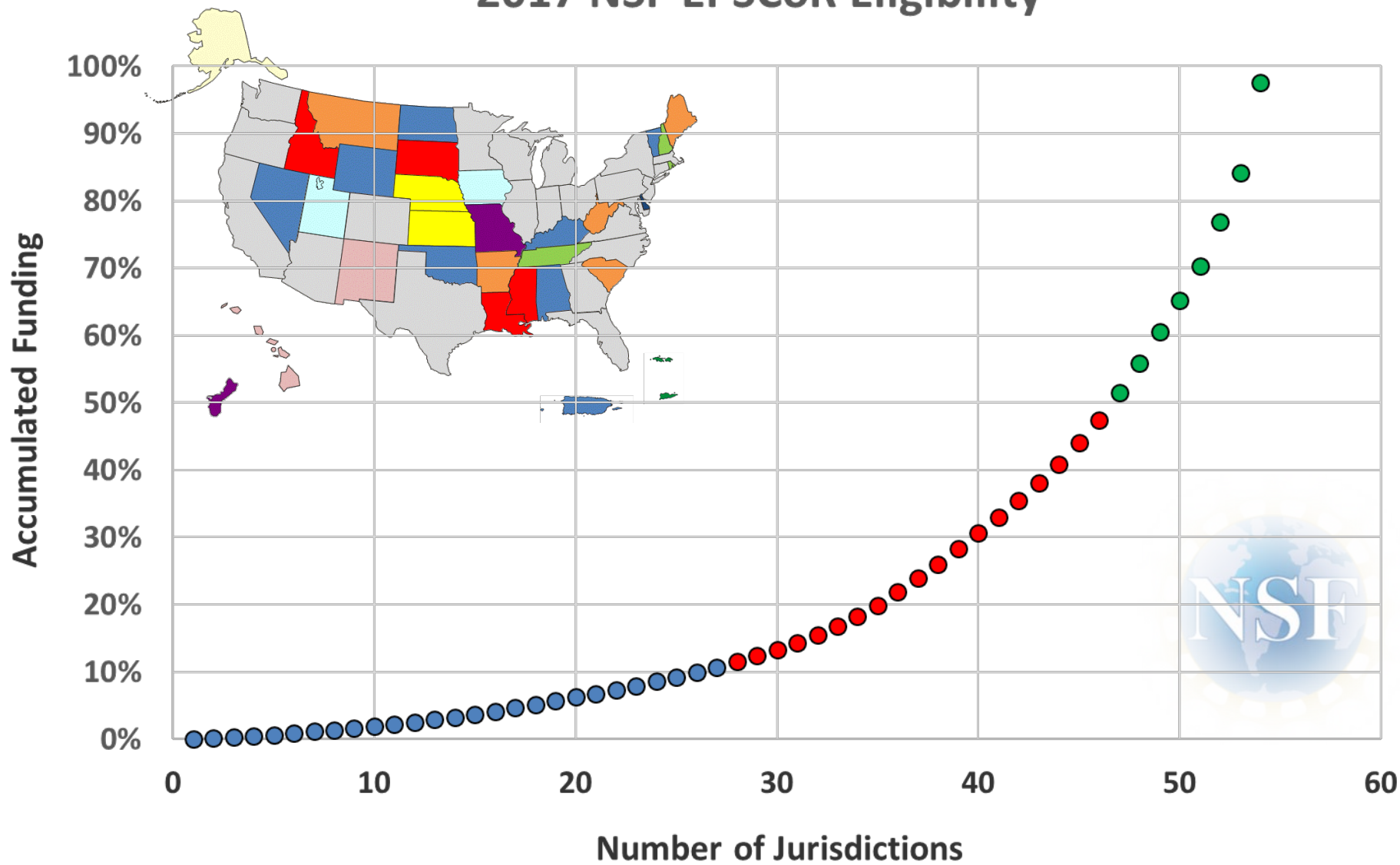
Why EPSCoR?

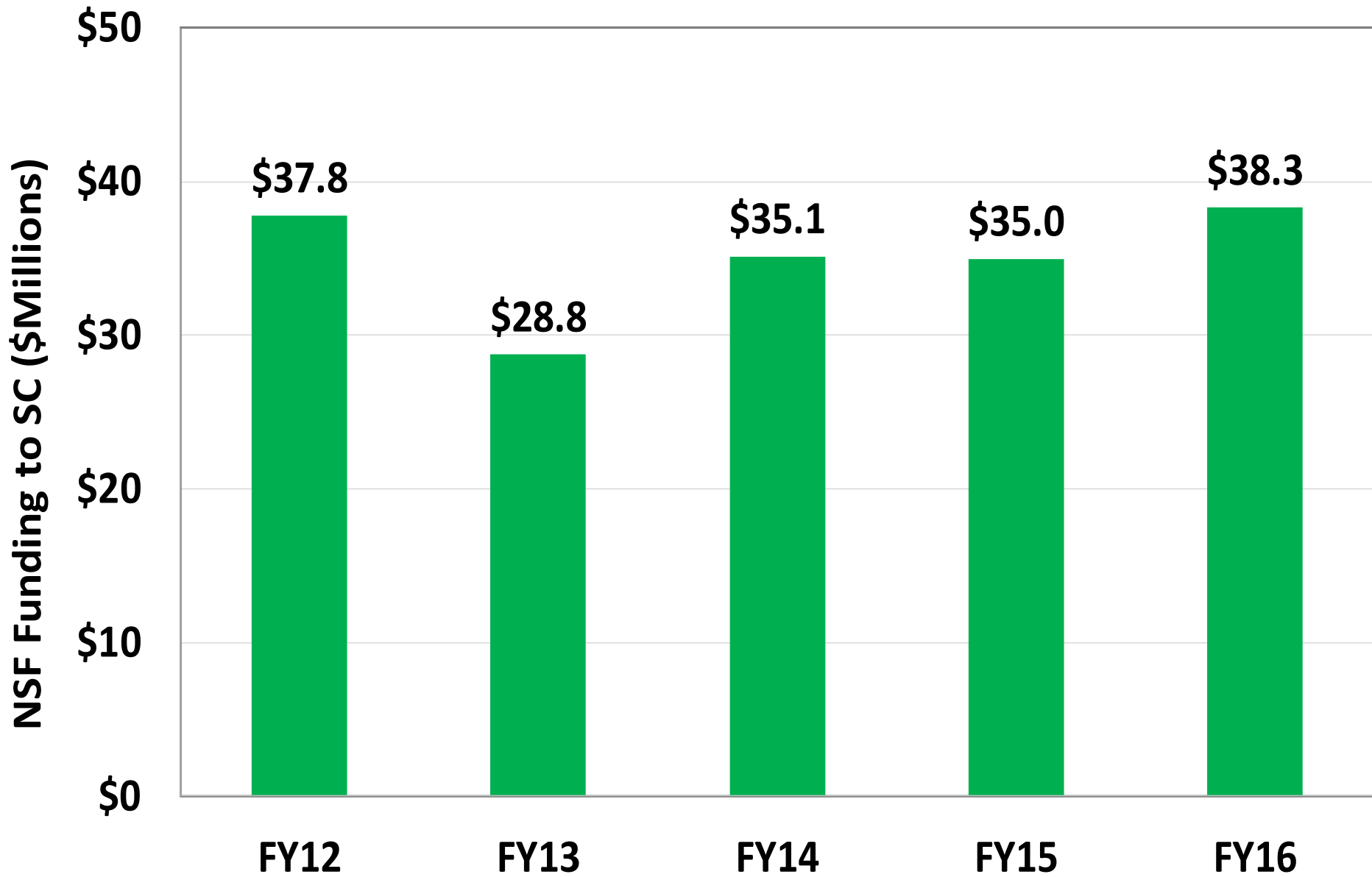
The Experimental Program to Stimulate Competitive Research (EPSCoR) was created to address the geographic imbalance in federal research funding

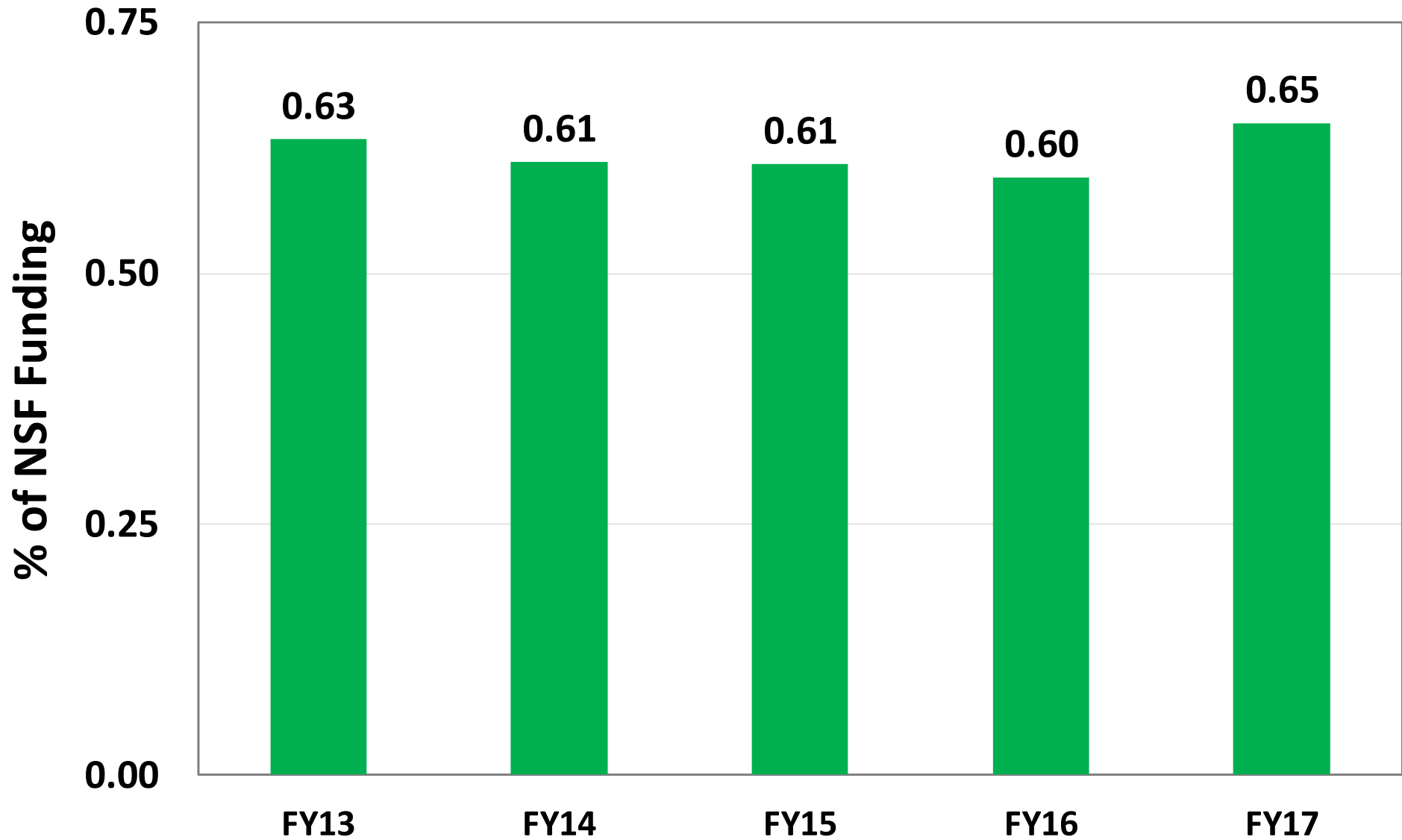
Authorized by Congress in 1978



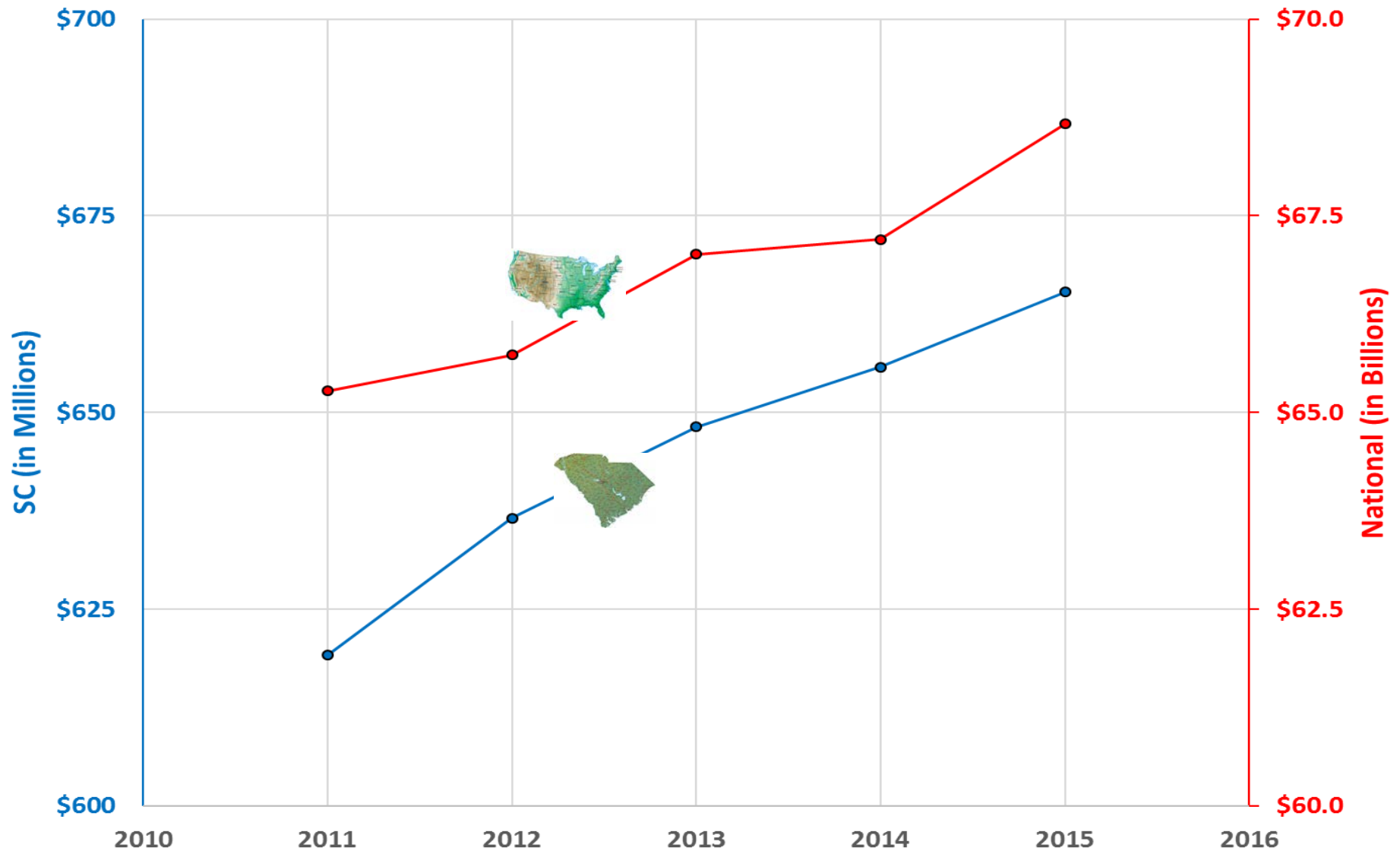
2017 NSF EPSCoR Eligibility

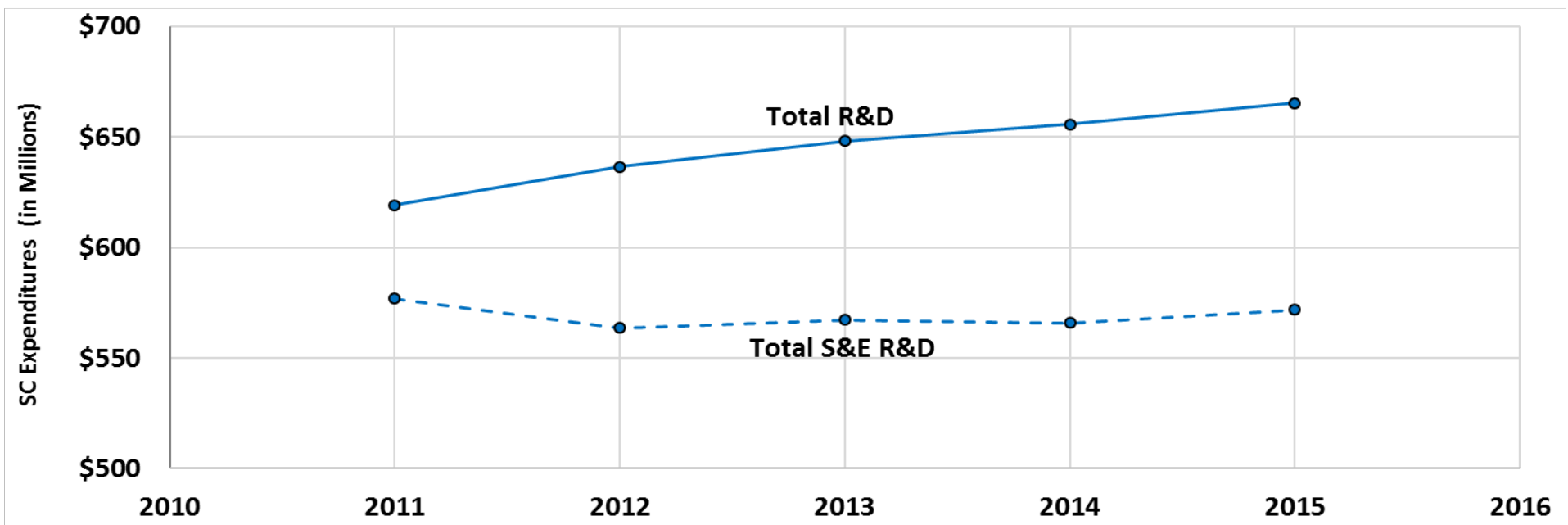
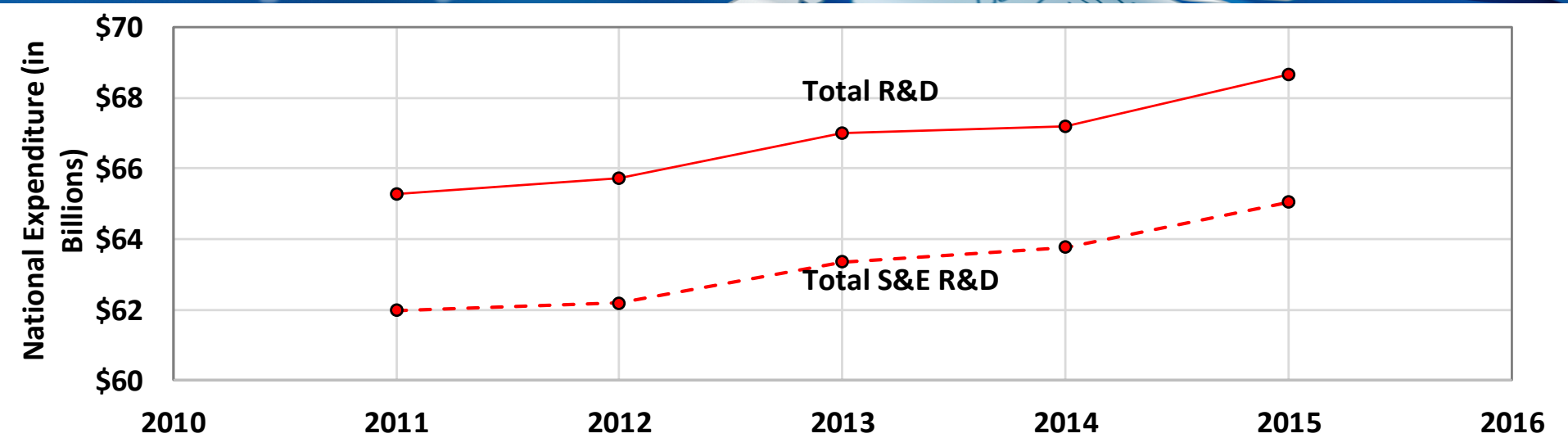






SC and National R&D Expenditures





SC EPSCoR/IDeA *Forward*

**Support Programs and Activities to
Stimulate Convergent Research
through Collaboration and Inclusion
among South Carolina Colleges and
Universities**

[Dear Colleague Letter: Growing Convergence Research at NSF](#)

Available Formats:

HTML: https://www.nsf.gov/pubs/2017/nsf17065/nsf17065.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click

PDF: https://www.nsf.gov/pubs/2017/nsf17065/nsf17065.pdf?WT.mc_id=USNSF_25&WT.mc_ev=click

Document Number: nsf17065

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NSF View of Convergence Research

- **Deep integration across disciplines.** As experts from different disciplines pursue common research challenges, new frameworks, paradigms or disciplines can form from sustained interactions across multiple communities.
- **Research driven by a specific and compelling problem.** Convergence research is generally inspired by the need to address a specific challenge or opportunity.

Programs

- Invest in programs to
 - Increase research capabilities (**Track-2 proposal support, Stimulus Program**)
 - support infusing research into education (**REU**)
 - Support small business innovation (**Phase-0**)
 - Support STEM Education, Outreach, and Diversity programs (**TBD**)
- Facilitate Collaboration and Inclusion
- Annual State Conference

Stimulus Research Program

To increase research capabilities and competitiveness

- Collaborative and Inclusive (CRUs and PUIs)
- Relevant to South Carolina *Vision 2025 - Advancing South Carolina's Capacity and Expertise in Science and Technology*
- To attract major funding
- Cost-share is required
- Externally evaluated
- Repeat in two years





Vertical Industries								
Core Competencies	Transportation		Energy	Environment and Sustainability	Life Sciences and Agriculture			Insurance
	Automotive	Aerospace			Biomedical	Pharma	Biotech	
	Advanced Manufacturing							
	Advanced Materials (Composites, Textiles, etc)							
	Digital Technologies (IT, Media)							
	Transportation, Distribution, Logistics							



Looking Ahead: Ten Big Ideas



**Navigating the
New Arctic**

STATISTICAL
COMPUTATIONAL
FOUNDATIONS
ANALYTICS
DATA SCIENCE
FUNDAMENTAL RESEARCH
MACHINE
LEARNING
OPEN
EDUCATION
WORKFORCE
DISCOVER

**Harnessing Data for 21st
Century Science and
Engineering**



**Work at the Human-
Technology Frontier:
Shaping the Future**



**Understanding the Rules
of Life: Predicting
Phenotype**

RESEARCH IDEAS

**The Quantum
Leap: Leading
the Next
Quantum
Revolution**



**Windows on the
Universe: The Era of
Multi-messenger
Astrophysics**

PROCESS IDEAS



**Growing Convergent
Research at NSF**



**NSF-Includes: Enhancing
Science and Engineering
through Diversity**



**Mid-scale Research
Infrastructure**



**NSF 2050: Seeding
Innovation**

Thank You!