

# ***NSF INCLUDES – Information for preparing a full proposal***

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***National Science Foundation***

Inclusion across the Nation of Learners of  
Underrepresented Discoverers in Engineering and Science

# OUTLINE

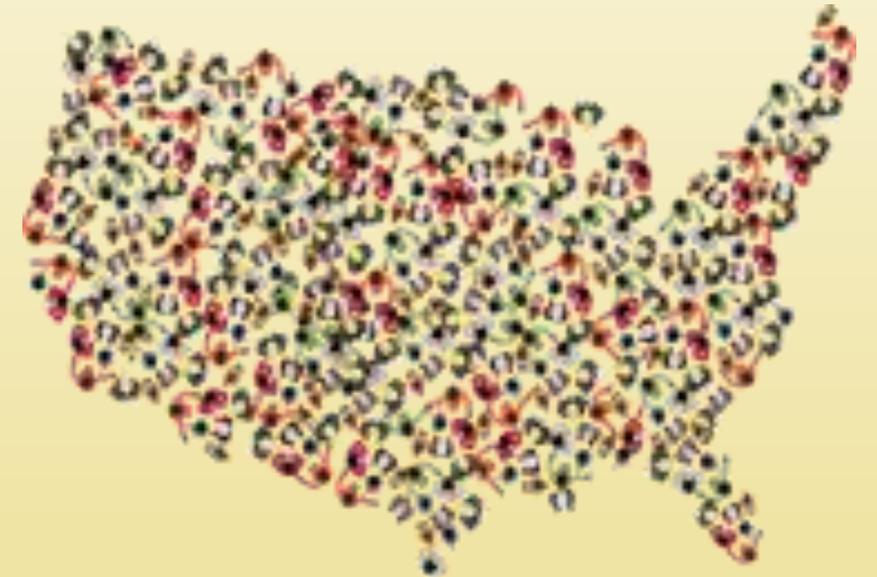
- NSF INCLUDES Goals and Overview
- NSF INCLUDES Components
- Design and Development Launch Pilots
  - Key for successful proposals and expectations
- NSF INCLUDES Alliances and National Network
- Merit Review Criteria
- Useful Resources
- Questions?

# NSF INCLUDES

## Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science

FY 2016: NSF 16-544, \$12.5M  
FY 2017 Budget Request \$16M

- Comprehensive initiative to enhance U.S. leadership in science and engineering by seeking and developing STEM talent from all sectors and groups in our society
- Long-term goal  
*Support innovative models, networks, partnerships, and research that enable the U.S. science and engineering workforce to thrive by ensuring that all groups are represented in percentages comparable to their representation in the U.S. population*



# NSF INCLUDES Key Multi-year goals

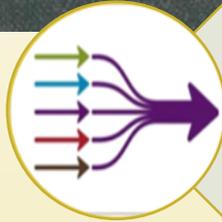
- Synthesize and build research base for broadening participation; spread and adapt proven effective practices
- Support local/regional and discipline-specific or crosscutting partnerships and networks – NSF INCLUDES Alliances – and support an NSF INCLUDES National Network

# Three Essential Components of NSF INCLUDES

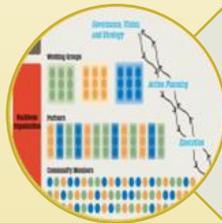
- **INCLUDES Design and Development Launch Pilots**
- INCLUDES Alliances
- INCLUDES Backbone Organization

# Key elements INCLUDES is looking for

Design & Development  
Launch Pilots



**Novel systems approaches and collective impact-style strategies**



**New research, models, networks, and partnerships to scale social innovations**



**Leverage the current Broadening Participation Portfolio**



**Collaborative alliances spanning education levels, public and private sectors,...**

# Using Collective Impact\*- style approaches to scaling social innovation

## Five Conditions of Collective Impact

- Common Agenda
- Shared Measurement
- Mutually Reinforcing Activities
- Continuous Communication
- Backbone Organization

# Design and Development Launch Pilots

## Key to successful full proposals

- Identify the BP challenge and measurable objectives
- Identify teams of local, regional, national, and/or disciplinary-based partners and justify the contribution of team members
- Present bold and innovative approaches for solving the BP challenge and articulate the potential for scaling
- Deliver models or prototypes for collective efforts to increase the active participation of underrepresented groups in STEM
- Plan for testing the feasibility of developing a full-scale sustainable process for change

# Design and Development Launch Pilots

## Expectations of full proposals

- Determine/describe the BP challenge(s) to be addressed
- Organize the set of partners that will participate in the project; teams might come together locally, regionally, nationally, or by disciplinary focus. (State the rationale for the set of partners and describe their individual contributions)
- Identify the lead partner who has the demonstrated capacity and vision to develop, manage, and lead a collective effort. (Describe the responsibilities of the lead partner)
- Identify a common agenda in which participants share a vision for change that reflects a collective understanding of the BP challenge. (Describe the process to develop a common agenda that will inform the approaches undertaken)

# Design and Development Launch Pilots

## Expectations on full proposals

- Delineate a joint approach to solving the challenge problem through agreed upon goals, objectives, strategies, and activities. (Describe the social innovation framework that will be used; state potential common goals and measurable objectives; describe the strategies and activities that will be implemented)
- Describe agreed-upon ways to measure and report success, including the selection of an external evaluator with demonstrated qualifications to develop a comprehensive evaluation plan. (Explain the potential metrics that will be used to assess progress; identify the external evaluator describing their expertise; include an evaluation plan that has benchmarks and logic model)
- Develop an integrated and coordinated strategic plan that facilitates the accomplishment and implementation of a set of specified action items, including progress indicators.

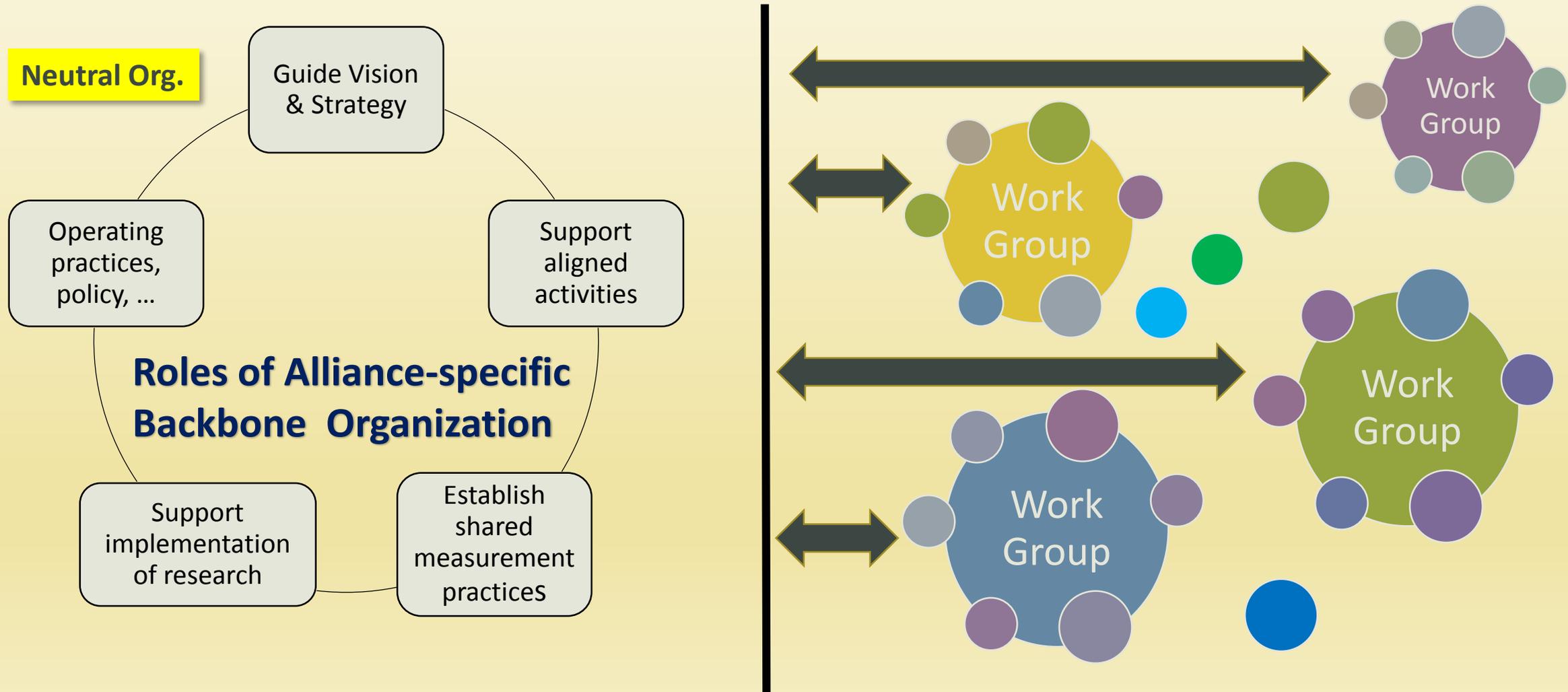
# Design and Development Launch Pilots Budget and Due Dates

- Deadlines:
  - ~~Preproposal (required): April 15, 2016~~
  - **Full proposal: June 24, 2016**
- Number of awards: 30-40 Design and Development Launch Pilots
- Budget: Approximately \$300,000 over 2 years for a total investment of \$12.5M

# NSF INCLUDES Alliances

- Up to five NSF INCLUDES Alliances will be funded beginning in FY 2017
- Alliances will involve the most promising launch pilot activities
- Design and Development Launch Pilots may be reconfigured by adding new partners, collaborators or networks = new Alliance team
- Alliances may focus on emerging fields in science and engineering or established fields - key is to advance BP
- **Each Alliance to be funded for 5 years at \$2.5M per year**

# Sample (and partial) NSF INCLUDES Alliance Architecture



# INCLUDES Timeline

## Development

- **Launch Pilots – NSF 16-544**
- **Conferences for Backbone Organizations – DCL 16-081**
- **Assessment & Evaluation**

**2016**

## Implementation

- **Alliances (up to 5)**
- **Launch Pilots**
- **Linkages to BP portfolio**
- **National Backbone Organization**
- **Assessment & Evaluation**

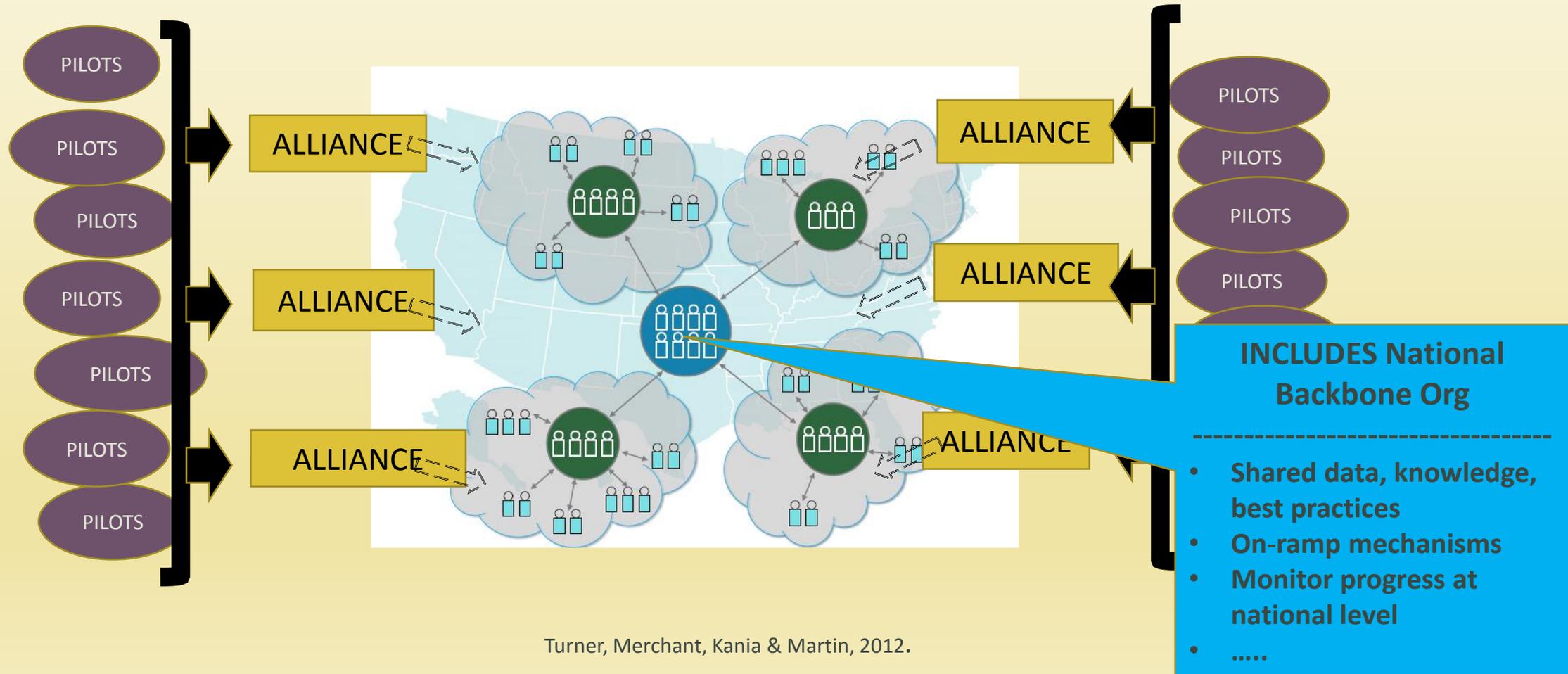
**2017**

## Expansion

- **Alliances**
- **National Backbone Organization**
- **Linkages to BP portfolio**
- **Assessment & Evaluation**

**2018 - 2021**

# NSF INCLUDES National Network



Turner, Merchant, Kania & Martin, 2012.

# Merit Review Criteria

Intellectual Merit — the potential to advance the knowledge

Broader Impacts — the potential to benefit society and contribute to the achievement of specific, desired societal outcomes

# Merit Review Criteria

The following elements are considered in the review of both intellectual merit and broader impacts:

- ✓ What is the potential for the proposed activity to
  - a. **Advance knowledge** and understanding within its own field or across different fields (Intellectual Merit); and
  - b. **Benefit society** or advance desired societal outcomes (Broader Impacts)?
  
- ✓ To what extent do the proposed activities suggest and explore creative, original, or **potentially transformative** concepts?

# Merit Review Criteria

The following elements are considered in the review of both intellectual merit and broader impacts:

- ✓ Is the plan for carrying out the proposed activities **well-reasoned**, well-organized, and based on a sound rationale? Does the plan incorporate a **mechanism to assess success**?
- ✓ How **well qualified** is the individual, team, or organization to conduct the proposed activities?
- ✓ Are there **adequate resources** available to the PI (either at the home organization or through collaborations) to carry out the proposed activities?

# Useful Resources

- Solicitation: NSF 16-544
- Email: [NSFINCLUDES@nsf.gov](mailto:NSFINCLUDES@nsf.gov)
- NSF INCLUDES website:  
[http://www.nsf.gov/news/special\\_reports/nsfincludes/index.jsp](http://www.nsf.gov/news/special_reports/nsfincludes/index.jsp)
- Grant Proposal Guide, January 2016:  
[http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=gpg](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpg)

# Useful Resources

- ▶ NSF: [www.nsf.gov](http://www.nsf.gov)
- ▶ Guide to Programs: [www.nsf.gov/funding/browse\\_all\\_funding.jsp](http://www.nsf.gov/funding/browse_all_funding.jsp)
- ▶ Award Information: [www.nsf.gov/awardsearch](http://www.nsf.gov/awardsearch)
- ▶ FastLane: [www.fastlane.nsf.gov](http://www.fastlane.nsf.gov)
- ▶ Funding Opportunities: [www.nsf.gov/funding](http://www.nsf.gov/funding)