NSF ECORE RII Solicitation

- ECORE RII Program goals:

  - Address challenges and opportunities in research infrastructure specific to Rhode Island's current and evolving needs

  - Build capacity for jurisdiction-wide investigator expertise, leading to sustained, effective, research and education partnerships and funding.

  - Develop pathways to broaden the participation of institutions and individuals in Rhode Island's research ecosystem.

- A successful ECORE should be designed to meet the unique needs of Rhode Island's research ecosystem.

- E-CORE Programs will support one or several Research Specific Science and Technology Laboratories (E-RISES) as well as broader research in the state.

- Funding: 8 million dollars over 4 years with a possible extension to 8 years depending on performance
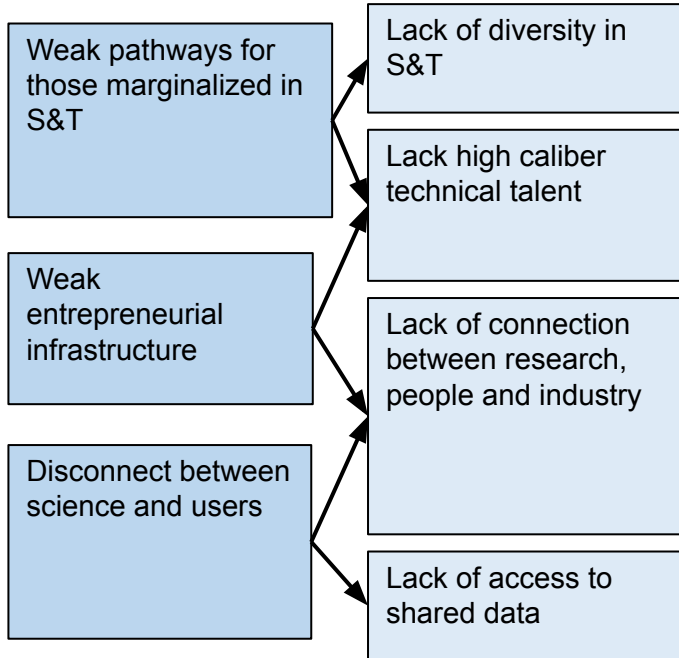
Possible Cores:

- Admin Core *(required)*
- Research Support Core
- Academic Infrastructure and Research Facilities
- Higher Education Pathways Core
- STEM Education (K-16) Core
- Workforce Development Core
- Broadening Participation Core
- National and Global Partnerships Core
- Community Engagement and Outreach Core
- Economic Development and Use-inspired
- Early Career Research Trainee Pathway Core
- Other Core(s) – Depending on a jurisdiction's specific needs

The selection of a core must be based on evidence-based analysis and be justifiable in terms of data illustrating the need for that core within the jurisdiction.

RI Network for Excellence in Science and Technology Framework

E-CORE RII RI-NEST Vision: Enable the jurisdiction to develop and maintain broadly inclusive and competitive leadership in use-inspired S&T and workforce development
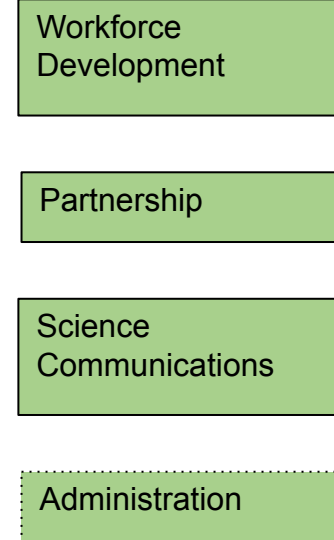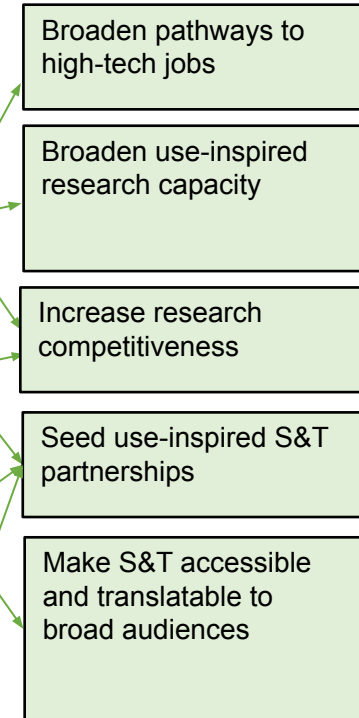
Barriers

- Weak pathways for those marginalized in S&T
- Weak entrepreneurial infrastructure
- Disconnect between science and users

- Lack of diversity in S&T
- Lack high caliber technical talent
- Lack of connection between research, people and industry
- Lack of access to shared data

Building Blocks

- Small size of state enables networking
- History of industrial leadership and innovation
- Unique strengths in S&T (ocean, energy, etc.)
- Diversity programs and partners
- Hubs, innovation centers, incubators, accelerators
- Communications and visualization capacity

Research Infrastructure Cores

- Workforce Development
- Partnership
- Science Communications
- Administration

Results/Impacts

- Broaden pathways to high-tech jobs
- Broaden use-inspired research capacity
- Increase research competitiveness
- Seed use-inspired S&T partnerships
- Make S&T accessible and translatable to broad audiences

Outcomes and Indicators per Core

Outcomes/Indicators		
Workforce Development Core	**Partnership Core**	**Science Communications Core**
1. # of pre-undergraduates reached 2. # of minoritized undergraduates from PUIs institutions engaging in research 3. # of student participants entering grad programs or work force. 4. # of collaborations between IHEs and community organizations to reach pre-undergraduates (S) 5. # of individuals trained in areas that deepen investigator competencies (S) 6. # of submitted proposals and awards (S). 7. # PUI faculty engaging in research and/or proposal development (S)	1. # key activities on path for sustainability by obtaining buy in (S) 2. # of networking events organized to inspire new or strengthened partnerships. 3. # seed and planning grants that lead to new partnerships and proposals (S). 4. # of end-user driven research and workforce development partnerships (S) 5. Funding leveraged to RI-NEST (S)	1. # of students and early career faculty trained and practicing inclusive sci-com 2. # of inclusive sci-com events sponsored. 3. # of viz-a-thon participants 4. # of non-traditional partnerships developed because of Viz-a-thon and inclusive sci-com activities (S). 5. # of students involved in RI-NEST newsroom 6. # of media pieces developed by students 7. # of students pursuing local media internship opportunities (S) 8. Traffic and citation increase of the RIDDC 9. # of intellectual products (peer reviewed papers, conf. proceedings, patents, databases, etc.)

RI-NEST Org Chart
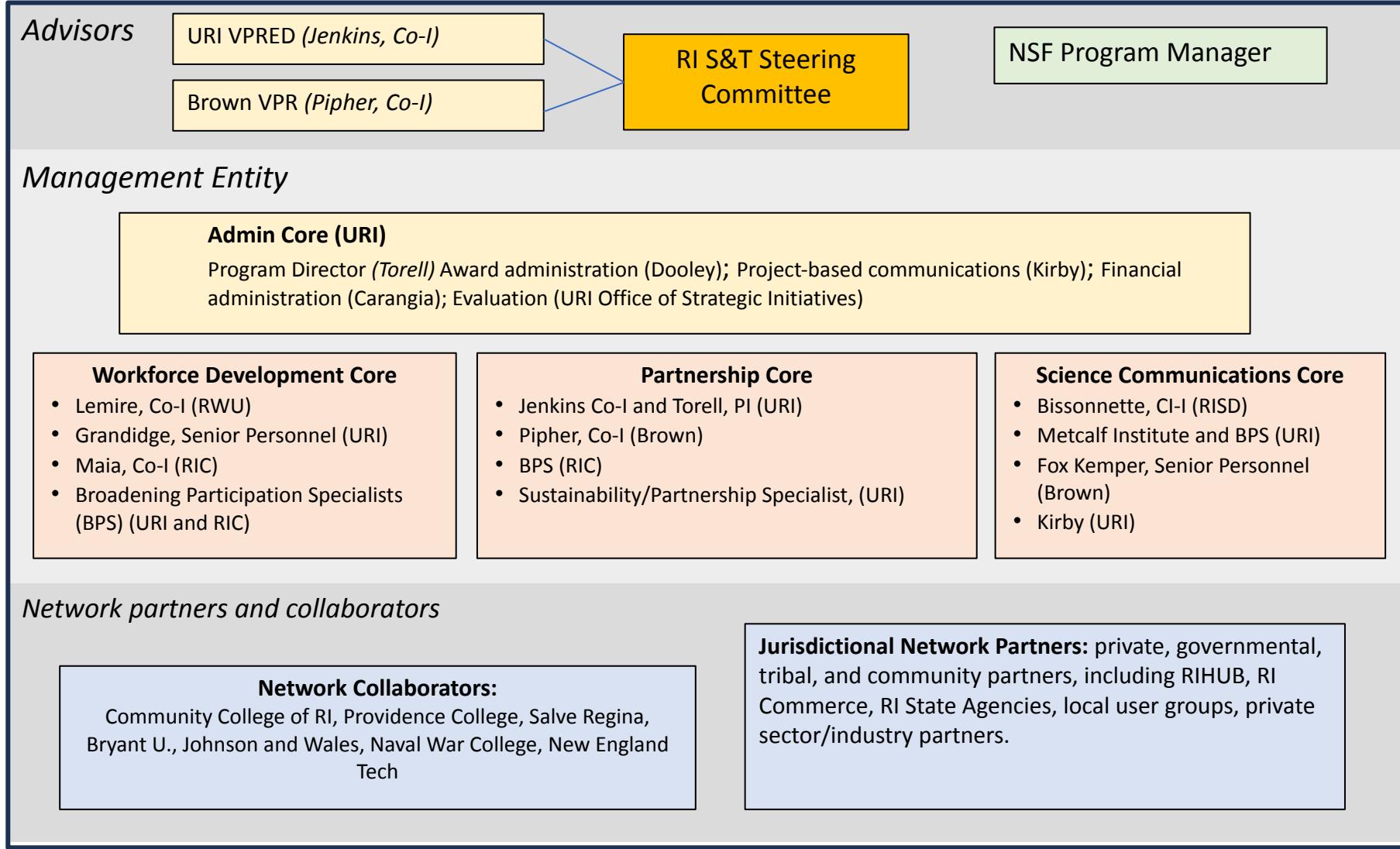
Advisors

URI VPRED *(Jenkins, Co-I)*

Brown VPR *(Pipher, Co-I)*

RI S&T Steering Committee

NSF Program Manager

Management Entity

Admin Core (URI)

Program Director *(Torell)* Award administration (Dooley); Project-based communications (Kirby); Financial administration (Carangia); Evaluation (URI Office of Strategic Initiatives)

Workforce Development Core
- Lemire, Co-I (RWU)
- Grandidge, Senior Personnel (URI)
- Maia, Co-I (RIC)
- Broadening Participation Specialists (BPS) (URI and RIC)

Partnership Core
- Jenkins Co-I and Torell, PI (URI)
- Pipher, Co-I (Brown)
- BPS (RIC)
- Sustainability/Partnership Specialist, (URI)

Science Communications Core
- Bissonnette, CI-I (RISD)
- Metcalf Institute and BPS (URI)
- Fox Kemper, Senior Personnel (Brown)
- Kirby (URI)

Network partners and collaborators

Network Collaborators:
Community College of RI, Providence College, Salve Regina, Bryant U., Johnson and Wales, Naval War College, New England Tech

Jurisdictional Network Partners: private, governmental, tribal, and community partners, including RIHUB, RI Commerce, RI State Agencies, local user groups, private sector/industry partners.

RI NEST ECORE RII Outline

I. State of the Jurisdiction and E-CORE RII vision

    A. Jurisdiction-wide status, strengths, and challenges

    B. E-CORE RII goals and vision

    C. Sustainability

    D. Broader impacts

II. Strategic plan, assessment, and evaluation

    A. Strategic plan

    B. Evaluation and assessment plan

III. Leadership, organization, and management

    A. Leadership team

    B. Management plan

    C. Diversity and culture of inclusion

IV Results from prior NSF support