EPSCoR

Experimental Program to Stimulate Competitive Research

The 2030 Workshop Report

January 23, 2013
EPSCoR 2030 Workshop

- Workshop held January 19-20, 2012
- Report submitted to NSF April, 2012
- Discussion of report by Jan Taylor on behalf of Paul Hill at the May 2012 PD/PA meeting and community discussion
- Interim changes – e.g., RII Track-2
- Additional response targeted for January 2013 PD/PA meeting in Delaware
EPSCoR Plan

• EPSCoR Office will use multiple sources of input to develop its strategic plan
  – 2030, COV, STPI, NAS, NSF, EPSCoR
  – Will be a ‘living’ document

• Phased Approach:
  – Update on programmatic competitions
  – Will use the full set of evaluative recommendations to inform strategic changes
2030 Recommendations

1) Expand funding for EPSCoR
2) Return to the original focus of increasing research capacity
3) Use EPSCoR as a test bed for new NSF initiatives
4) Develop robust cyberinfrastructure
5) The EPSCoR success story must be better told
EPSCoR Funding

- EPSCoR funding has steadily increased
- From FY08 – FY12, EPSCoR budget has increased 25.8%
- Current plan for FY13* is 5.3% over FY12
- EPSCoR budget changes linked to NSF research budget changes

* FY13 budget not yet finalized
Expand EPSCoR Funding

NSF EPSCoR Funding ($M)

FY08  FY09  FY10  FY11  FY12  FY13

RII  Co-Funding & Outreach

$0.0  $20.0  $40.0  $60.0  $80.0  $100.0  $120.0  $140.0  $160.0

$158.9

$158.9
### NSF EPSCoR Funding ($M)

<table>
<thead>
<tr>
<th>Activity</th>
<th>FY08</th>
<th>FY09</th>
<th>FY10</th>
<th>FY11</th>
<th>FY12</th>
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<tbody>
<tr>
<td>RII</td>
<td>72.8</td>
<td>91.3</td>
<td>100.2</td>
<td>106.2</td>
<td>110.6</td>
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<td>Co-Fund</td>
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<td>41.1</td>
<td>45.4</td>
<td>39.4</td>
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<td>Outreach Workshop</td>
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<td>1.5</td>
<td>1.2</td>
<td>1.5</td>
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<td><strong>Total</strong></td>
<td>120.0</td>
<td>132.9</td>
<td>147.1</td>
<td>146.8</td>
<td>150.9</td>
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**EPSCoR Budget Request for FY13 $158.9M**
Expand EPSCoR Funding

• EICC met 7 times in FY12 to address coordination

• Participation of all agencies with active EPSCoR programs (DOE, NSF, NASA, NIH, & USDA-NIFA)

• FY12 : full cooperation with National Academies study

• FY13 : what is success?
Return to the original focus of increasing research capacity

• Capacity building needs to be coupled with increasing academic research competitiveness

• To achieve sustained improvement, there is a critical need for integration of research and education

• Some changes to the RII program is anticipated; it will retain several elements; emphasis on integration of R & E
Focus on Increasing Research Capacity
EPSCoR RII Track-1 Review Timeline

Total time for review process for a successful proposal is approximately 6 months
EPSCoR as a Test Bed

- NSF seeks to strengthen S&E enterprise by enabling participation of underrepresented groups
- EPSCoR has developed novel and effective strategies and initiatives in BP
- With NSF Senior Leadership, we are exploring DCLs to build diverse communities for STEM learning and innovation
EPSCoR as a Test Bed

- Pilot program with EPSCoR leading efforts, but with programs adaptable/adoptable nationally
  - Empower national leadership to engage underrepresented talent in discovery and innovation
  - Use new and improved virtual learning venues
  - Leverage technology to attract, retain, and advance learners from underrepresented groups
  - Blend formal and informal learning
# EPSCoR as a Test Bed

## EPSCoR Advisory Committee Representation

<table>
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<tr>
<th>Directorate Advisory Committees</th>
<th>Total Members</th>
<th># from EPSCoR</th>
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<tr>
<td>BIO</td>
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<tr>
<td>OCI</td>
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<td>EHR</td>
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<td>NSB</td>
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<td><strong>Total</strong></td>
<td><strong>188</strong></td>
<td><strong>35</strong></td>
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</tbody>
</table>

* Ex officio (NSF Director) NSF

Current representation as of December, 2012
EPSCoR as a Test Bed
Maintaining representation

• Advisory Committee membership rotates annually, with 2-3 year terms
• Send recommendations for AC candidates
  - We will disseminate within NSF

• National Science Board members are presidentially appointed. Information on the nomination process can be found here: http://www.nsf.gov/nsb/members/nominations.jsp
Develop Cyberinfrastructure

- Jurisdiction should develop CI strategic plans at institutional and state level
- Utilize NSF-funded facilities (e.g. XSEDE)
- EPSCoR works closely with OCI
  - New Dear Colleague Letter
- Encourage full participation in OCI programs
  - OCI success rate for EPSCoR jurisdictions is similar to that of non-EPSCoR states
Tell the EPSCoR Success Story

- Need to define success
- Need more effective ‘branding’ of EPSCoR inside and outside of NSF
- EPSCoR has initiated activities with OLPA
- External evaluators can play a role
Tell the EPSCoR Success Story

NSF-centric

- Proposals submitted vs. awarded
- Percent of NSF funds
- Faculty retention of RII participants
- Student retention of RII participants
- Publications and patents of RII participants
- SBIR/STTR
- Changes in Carnegie classification of institutions
- Sustainability of RII research projects
NSF EPSCoR Funding by Cohort

NSF Research Support Funding

- Initial 3 Years in EPSCoR
- Most Recent 3 Year Period

Eligibility Threshold

Jurisdictional Cohort Year of Entry into EPSCoR

- 1980
- 1985
- 1987
- 1992
- 2000+
Tell the EPSCoR Success Story
Broad Stakeholders-centric

- Emphasize impacts in three areas
  - Scientific breakthroughs
  - Training the innovation generation
    - Highlight model BP programs
  - Societal benefits, e.g. improving quality of life
EPSCoR Plan

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Thank-you!