



EPSCoR AT NSF:

**“CHARTING THE TRAJECTORY
TOWARD SUSTAINABLE SCIENTIFIC
SUCCESS (TS³)”**

**Sherry O. Farwell, PhD
DOE-NSF EPSCoR Conference
Morgantown, WV
June 14-16, 2005**



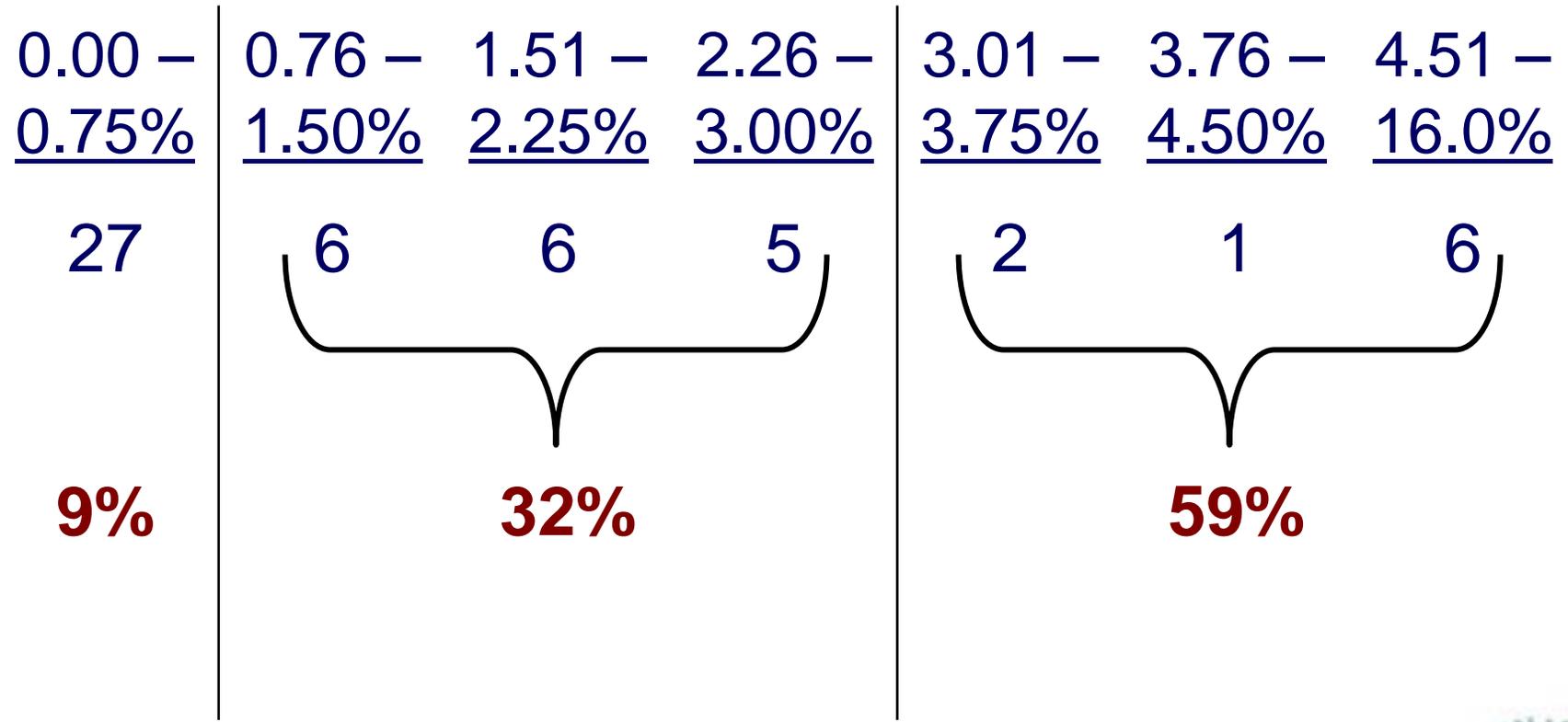
CALVIN & EPSCoR

“People seem to pay more attention to you when you are up to something.”

Calvin & Hobbes



DISTRIBUTION OF NSF RESEARCH FUNDING AMONG 53 U.S. JURISDICTIONS (FY 2002-04)



EPSCoR COHORTS

FY 1980

Arkansas
Maine
Montana
South Carolina
West Virginia

FY 1985

Alabama
Kentucky
Nevada
North Dakota
Oklahoma
Puerto Rico
Vermont
Wyoming

FY 1987

Idaho
Louisiana
Mississippi
South Dakota

FY 1992

Kansas
Nebraska

FY 2000

Alaska

FY 2001

Hawaii
New Mexico

FY 2002

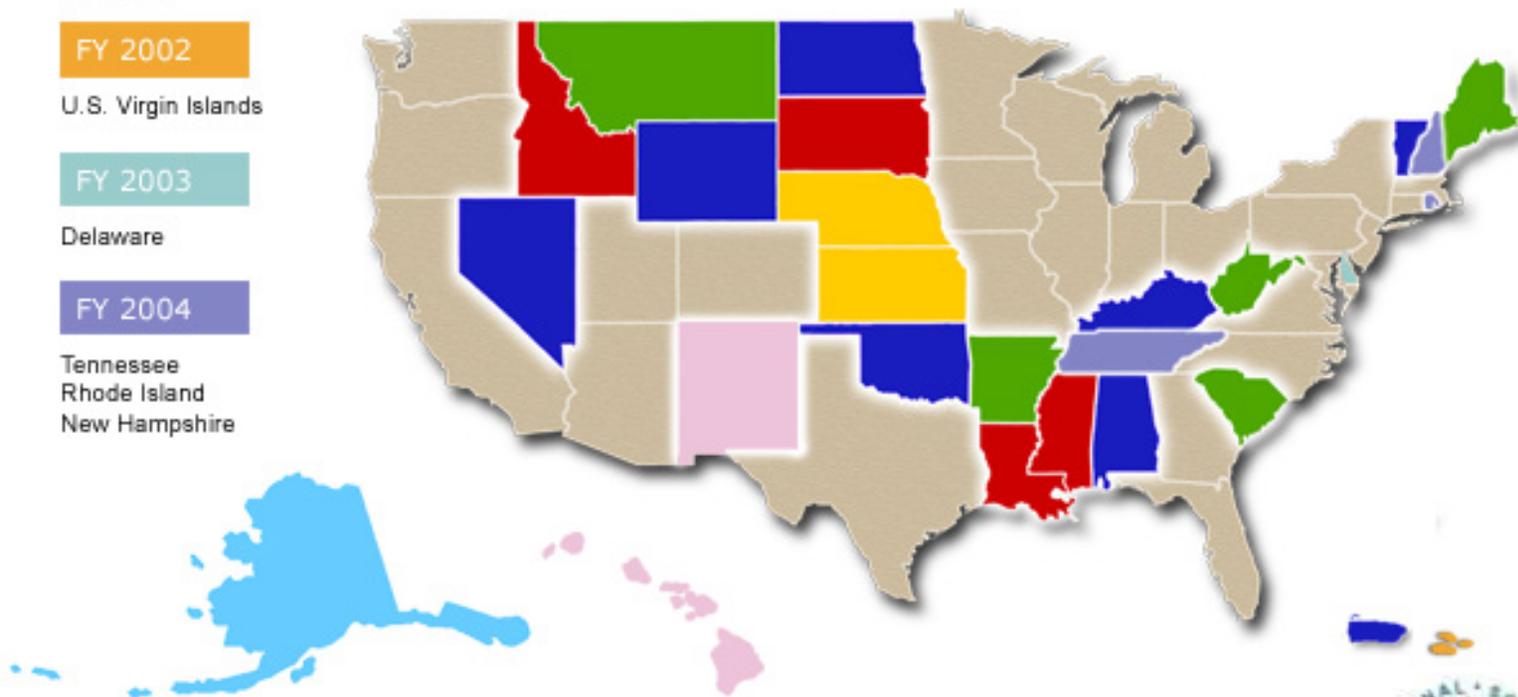
U.S. Virgin Islands

FY 2003

Delaware

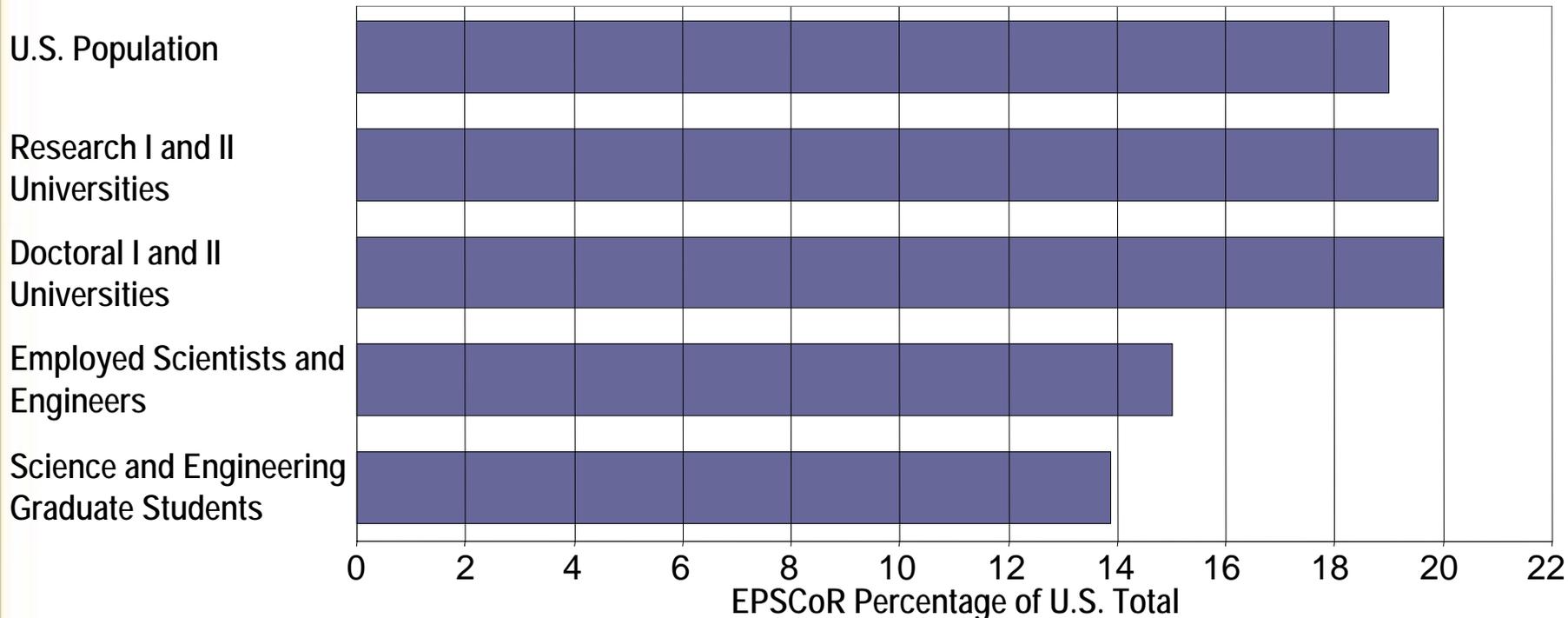
FY 2004

Tennessee
Rhode Island
New Hampshire





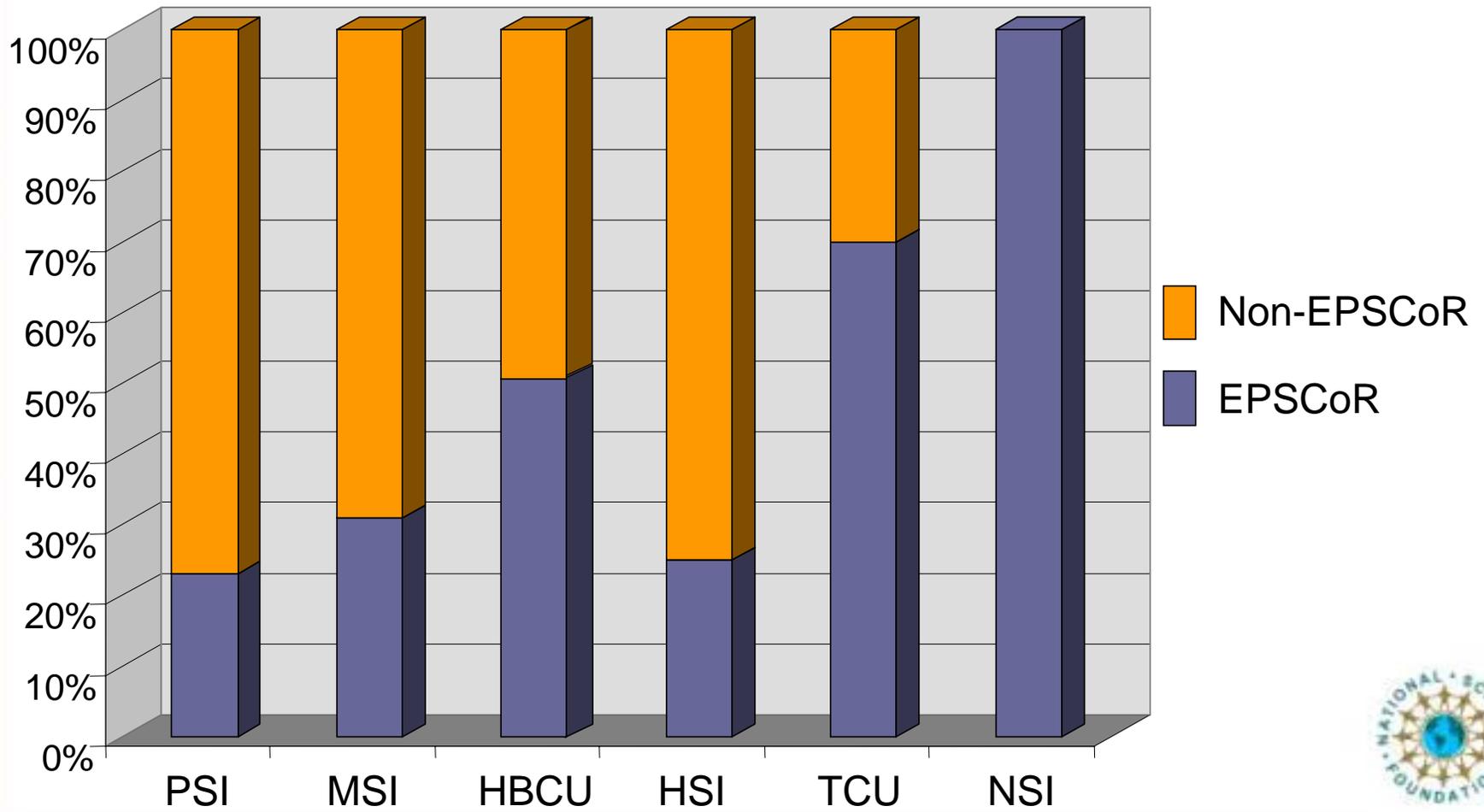
EPSCoR JURISDICTIONS HAVE:



EPSCoR jurisdictions include the 27 states and territories participating in the program as of 2004



PERCENTAGE OF MINORITY SERVING INSTITUTIONS IN EPSCoR VS. NON-EPSCoR





STRATEGIC PLANNING

“The Best Way To Predict The Future Is To Create It.”

Peter Drucker





EPSCoR MISSION, GOALS, AND OBJECTIVES

MISSION

To Assist the National Science Foundation in its Statutory Function “To Strengthen Research and Education in Science & Engineering **Throughout** the United States and to Avoid Undue Concentration of Such Research and Education

GOALS

- To Provide Strategic Programs and Opportunities for EPSCoR Participants That Stimulate Sustainable Improvements in Their R&D Capacity and Competitiveness
- To Advance Science & Engineering Capabilities in EPSCoR Jurisdictions for Discovery, Innovation, and Overall Knowledge-Based Prosperity





OBJECTIVES

EPSCoR MISSION, GOALS, AND OBJECTIVES CONT'D

- To Catalyze Key Research Themes and Related Activities Within EPSCoR jurisdictions that Empower Knowledge Generation, Dissemination, and Application
- To Activate Effective Jurisdictional and Regional Collaborations among Academic, Government, and Private Sector Stakeholders that Advance Scientific Research, Promote Innovation, and Provide Multiple Societal Benefits
- To Broaden Participation in Science & Engineering by Institutions, Organizations, and People within EPSCoR Jurisdictions
- To Use EPSCoR for Development, Implementation, and Evaluation of Future Programmatic Experiments that Motivate Positive Change and Progression



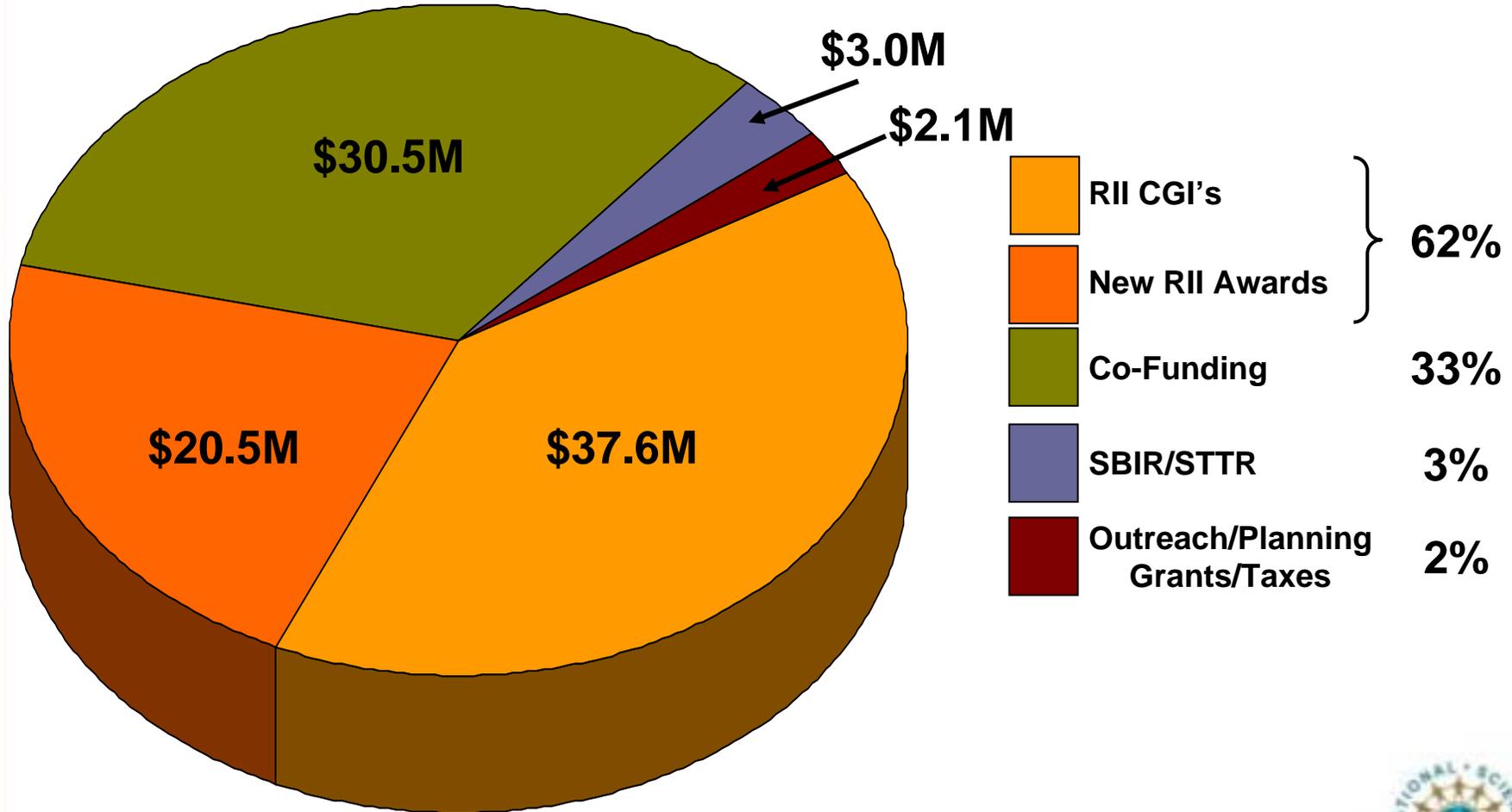


EPSCoR's PRESENT PORTFOLIO

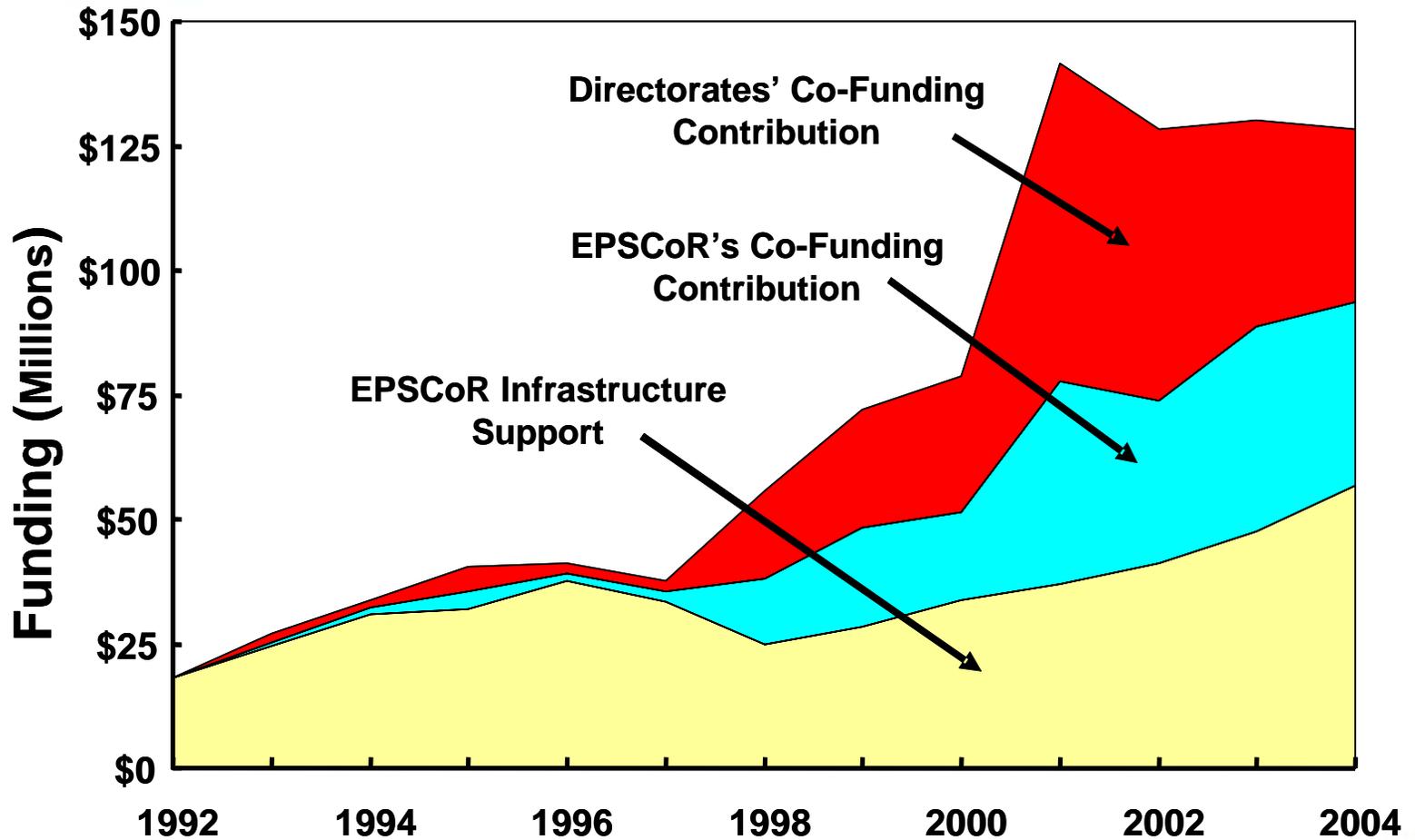
- **Research Infrastructure Improvement Grants** – 36-48 month awards of up to \$9.0 million to support infrastructure improvements critical for building R&D capacity in priority research areas
- **Planning Grants** – 12-18 month awards for maximum of \$200k for EPSCoR relevant formative/reformative activities
- **Co-Funding** – Joint support of proposals submitted by EPSCoR researchers to NSF's regular grant programs.
- **Outreach/Technical Assistance** – Support workshops and visits by NSF program/professional staff to acquaint EPSCoR research communities with NSF programs, priorities, policies & people.



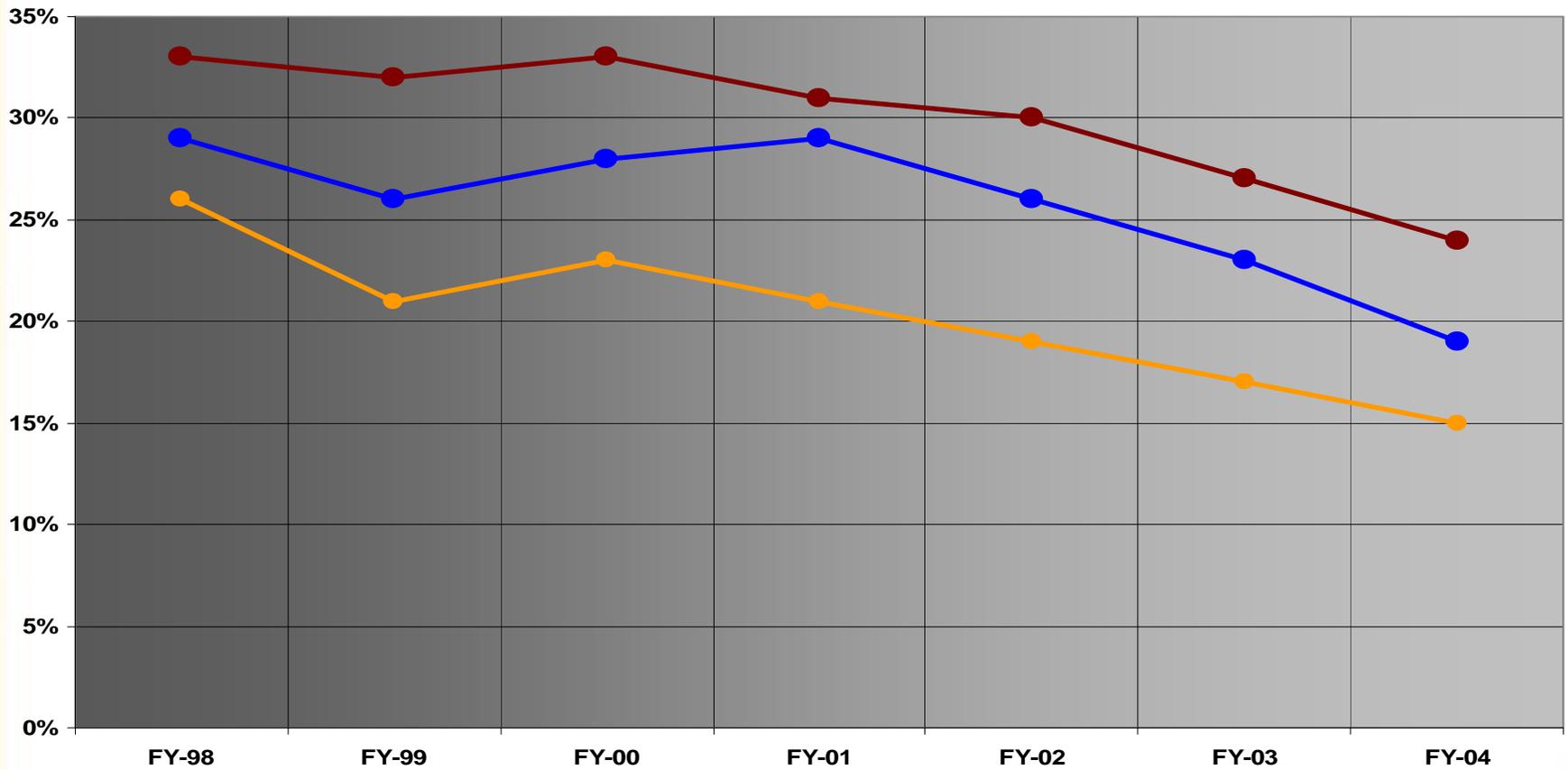
ALLOCATION OF EPSCoR FY-05 Budget (\$93.7M)



Total NSF EPSCoR-Based Funding (FY 92-04)



COMPARISON OF PROPOSAL SUCCESS RATES





PROPOSAL STATISTICS

	<u>FY-99</u>	<u>FY-00</u>	<u>FY-01</u>	<u>FY-02</u>	<u>FY-03</u>	<u>FY-04</u>
NSF	28,558	29,490	31,917	35,132	40,142	43,811
EPSCoR	4,683	4,751	5,185	5,599	6,423	6,814

AVERAGE % INCREASES FROM FY-99 BASELINE:

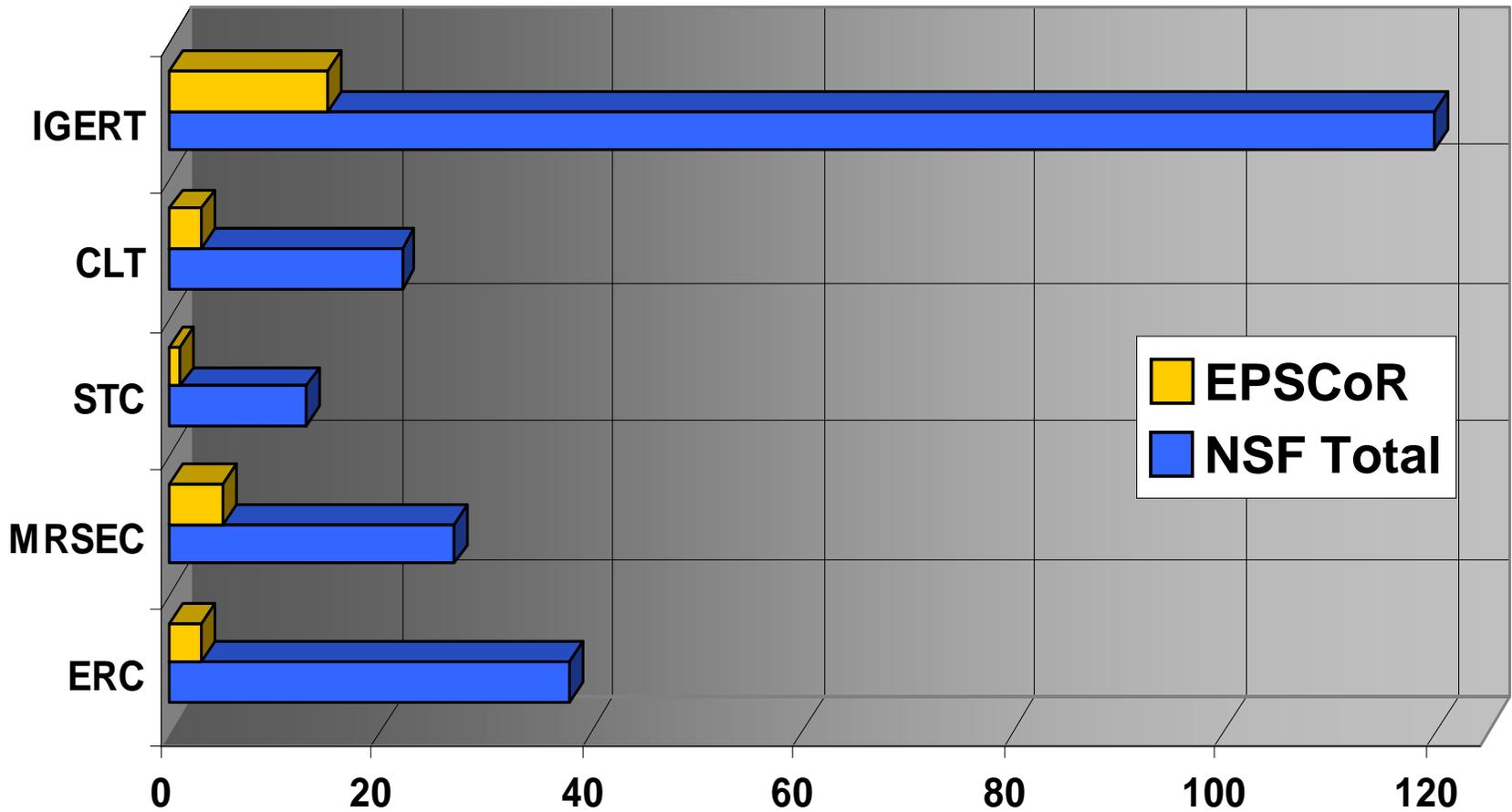
EPSCoR = 23%

NSF = 26%



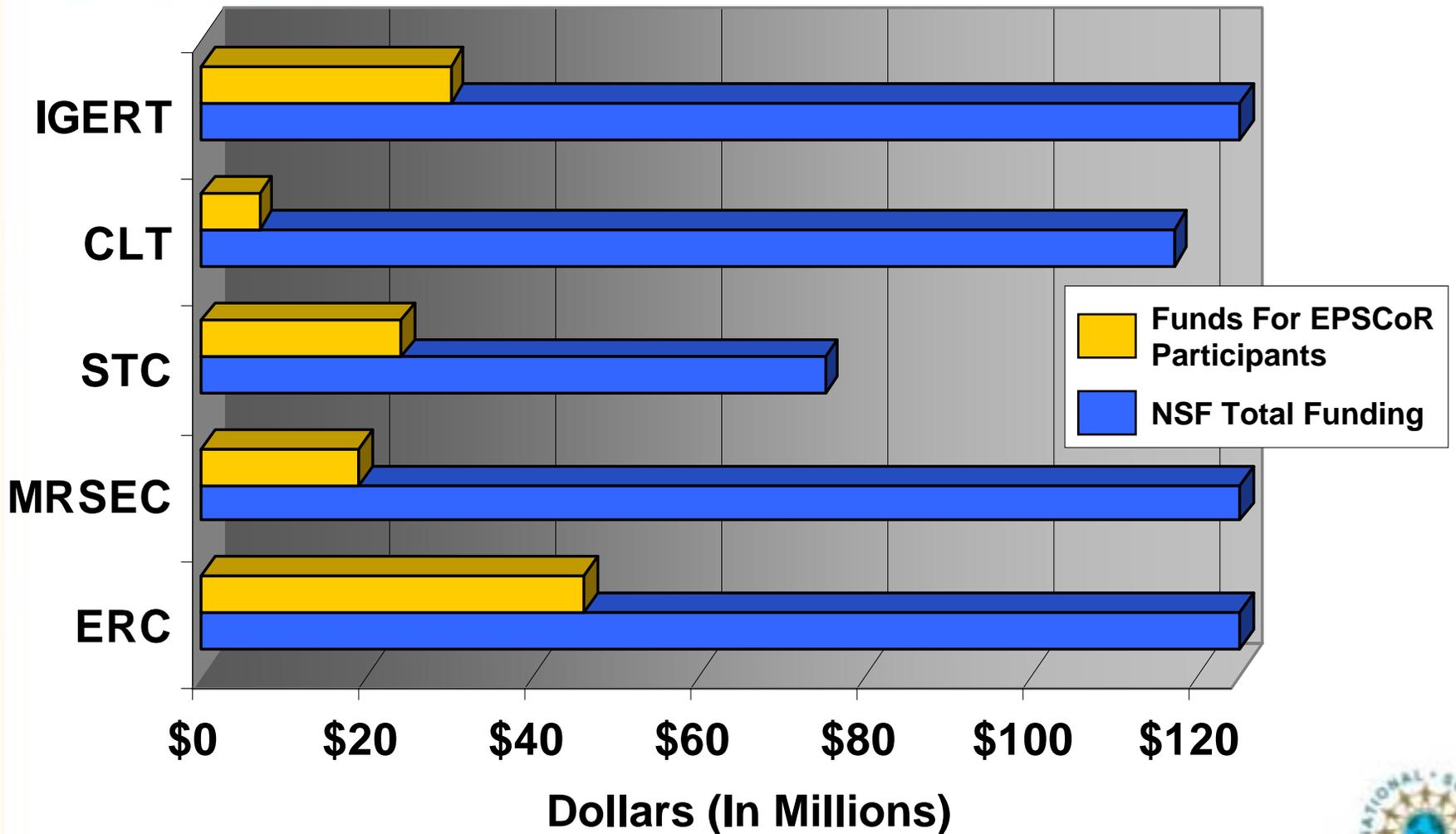


EXAMPLES OF EPSCoR's PARTICIPATION BY THE NUMBERS





EXAMPLES OF EPSCoR's PARTICIPATION BY THE NUMBERS





INNOVATION & EPSCoR

***“Even If You Are On The Right Track,
You’ll Get Run Over If You Just Sit
There.”***

Will Rogers





A THOUGHT-PROVOKING QUOTE

“The Art Of Leadership Is To Align The System’s Strengths And Thereby Make The System’s Weaknesses Irrelevant.”

Peter Drucker





PROPOSED STRENGTH-BASED RESEARCH COLLABORATIVE (SBRC) PROGRAM

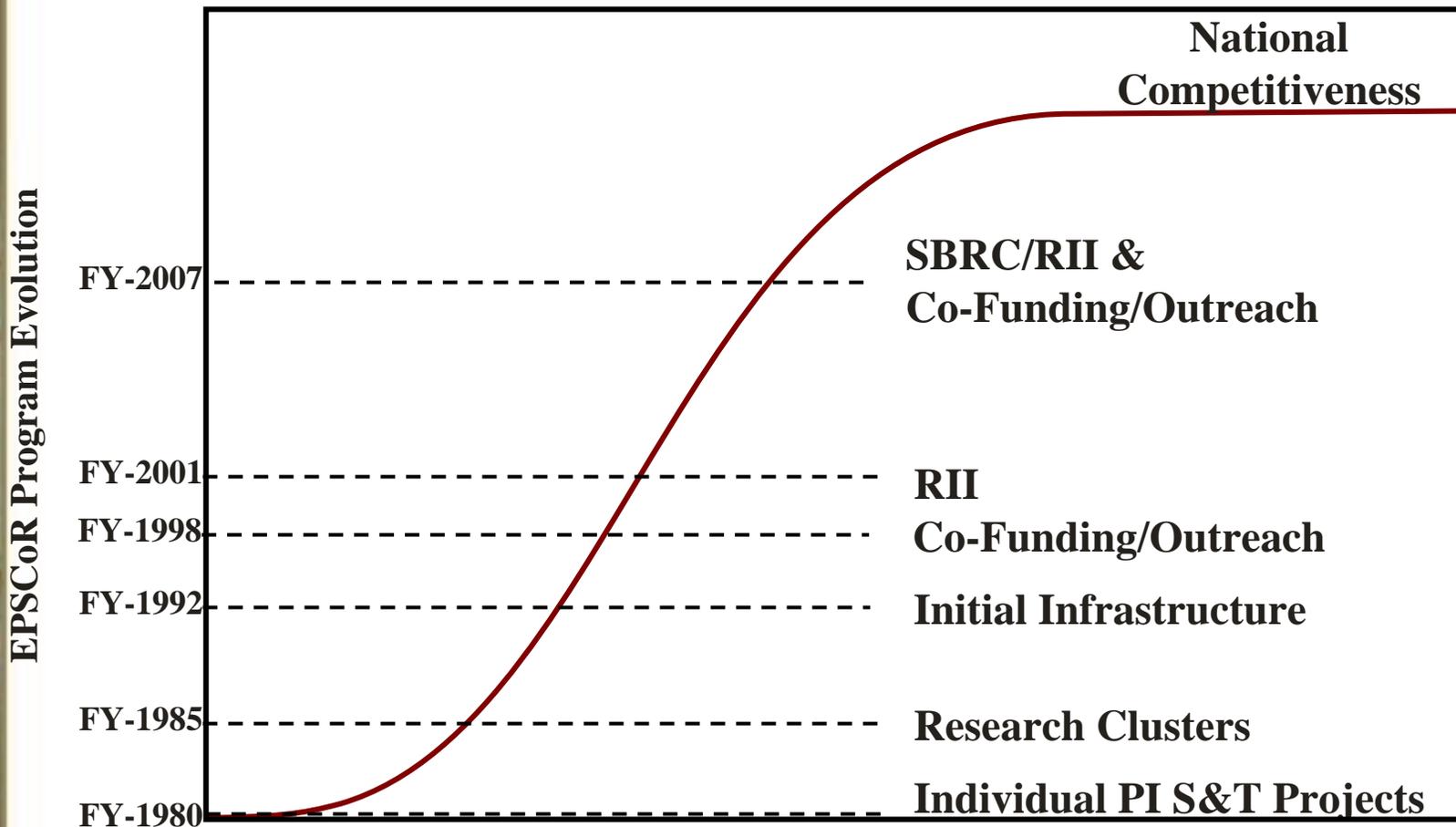
- **SBRC Characteristics**
 - Concentrated on Scientific Theme of Regional Relevance & National Importance
 - Utilizes Entire Gamut of Jurisdiction's Talent & Infrastructure for Thematic Research
 - Expands Talent & Infrastructure Base Via Intra/Inter-Jurisdiction Partnerships
 - Uses Cyber-Infrastructure & ACCESS-GRID
 - Integrates R&E and Diversity
 - "Graduates" Because of Defined Duration for EPSCoR Funding





EPSCoR AT NSF

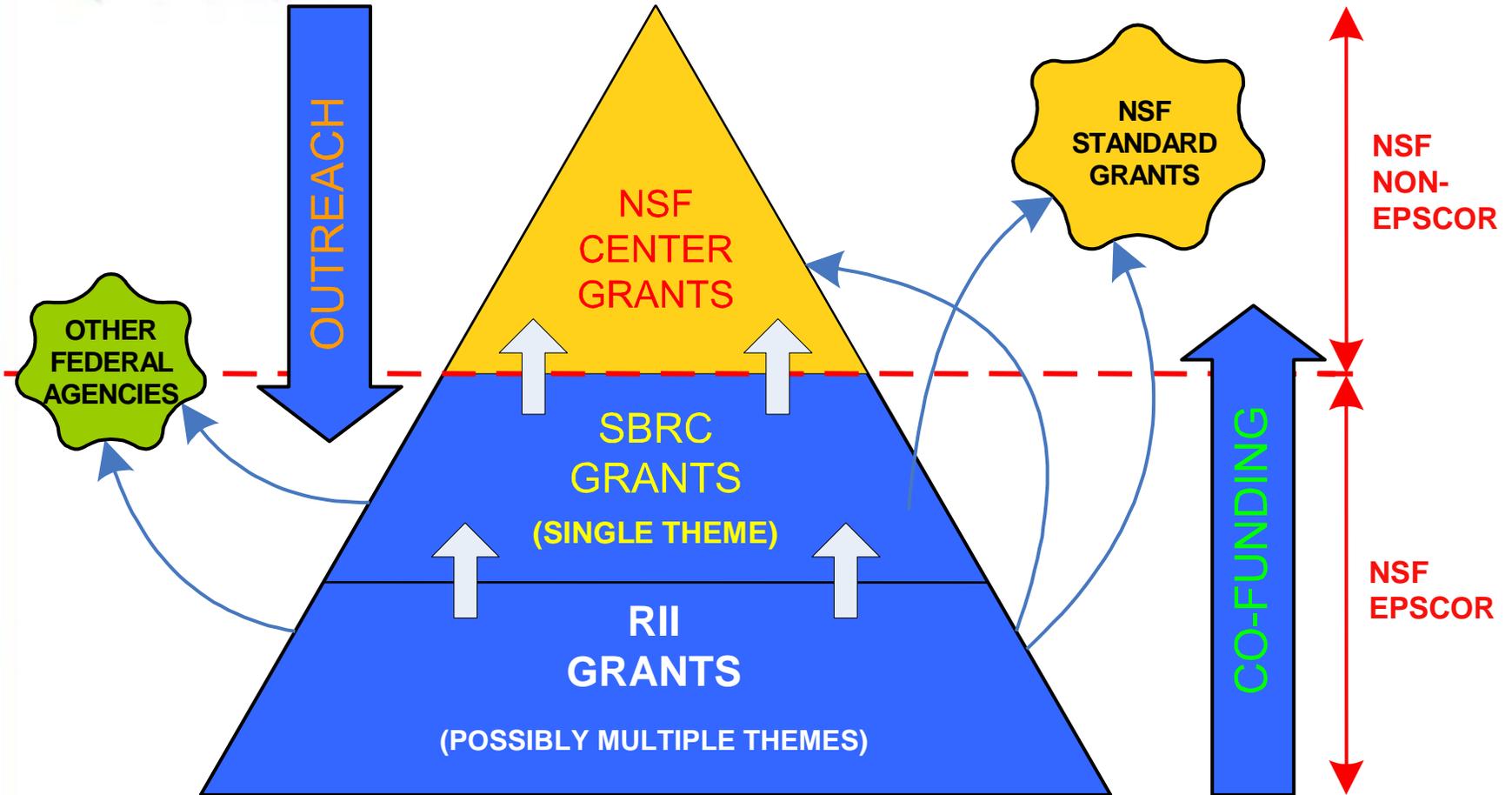
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NSF EPSCoR PROGRESSION PYRAMID



NSF EPSCoR PROGRESSION PYRAMID



- NSF NON EPSCoR
- NSF EPSCoR
- OTHER FEDERAL AGENCIES





EPSCoR OFFICE NEWS

- *Moved to New Office Suite #1122 in Stafford I*
- *Completed FY-05 RII Award Recommendations*
- *Released New RII Solicitation #05-589*
- *Planning for EPSCoR COV on July 26/27*
- *Planning for National Conference in PR during Sept. 25-28*
- *Developing New Complementary SBRC/RII*





CALVIN & EPSCoR COMPETITIVENESS

*“What’s The Point Of Trying If You Can’t
Be A Winner.”*

Calvin & Hobbes





NEW RII PROGRAM SOLICITATION THE "CONSTANTS"

General Purpose: Catalyze Sustainable Improvements

General Mechanism: Investments Human/Physical Infrastructure

General Proposal Requirements

- **Link Proposed Infrastructure Investment to Focused S&T Plan for Greater R&D Capability & Competitiveness**
- **Note Strategy for Integration of Research, Education, Innovation and Outreach**
- **Define Management Team, Plan, and Process**
- **Outline Partnership & Sustainability Plans**
- **Describe Plans for Broadening Opportunities & Participation**





NEW RII PROGRAM SOLICITATION

THE "CONSTANTS", CONT'D

General Review Criteria

- Intellectual Merit, Broader Impacts
- Integration R&E, Diversity
- Strategic Fidelity, Value Added, Management, Sustainability, and Outreach

General Awards & Requirements

- Same Funding Range and Duration
- Same Reporting Schedule and Conditions

General Office

- Same PD as Points-of-Contact
- Same Head
- Same Management Concept and Goal
- Same Requirements for Workplan, Financial, and Communication Management





NEW RII PROGRAM SOLICITATION THE "CHANGES"

Technical Mechanics

- **Proposal Deadline of Sept. 16, 2005**
- **No Cost Share Requirement**
- **Expanded Project Description Section**
 - ≤ 25 Pages
 - Results From Prior NSF Support
 - Science, Education, Innovation, and Outreach Plans
 - Project Management/Coordination Plan
 - Evaluation Plan
 - Communication Plan
 - Sustainability Plan





NEW WORDING

Although no cost-sharing funds are required for these proposals, clear evidence of the jurisdiction's commitment must be included with the proposal. The level of commitment will differ among applicants because of the variability of resources available among jurisdictions. At a minimum, a letter of support from a senior official (e.g., institutional Chief Financial Officer or institutional Vice President for Research) should outline the commitment of resources and facilities to sustain and support the project throughout the period of funding, and to maintain these resources beyond the period of support. Such evidence of jurisdictional and/or institutional support should be submitted as supplementary documents in the FastLane proposal.





NEW RII PROGRAM SOLICITATION THE "CHANGES", CONT'D

Technical Mechanics cont'd

- **No Concurrent RII Awards**
 - Jurisdictions Eligible to Compete in RII Competition Closest to Expiration Date of Current Award

- **Additional Review Criteria**
 - Comprehensive Evaluation Plan With Described Metrics, Data Capture/Processing/Interpretation/Use and Reporting of **Outputs & Outcomes**
 - Dissemination and Communication Processes with Defined Networks, Audiences, Partners, Schedules, etc.





NEW RII PROGRAM SOLICITATION THE "CHANGES" CONT'D

Conceptual Strategies Cont'd

- **New RII Solicitation**
 - Targets Infrastructure Improvement for Building Competitive R&D Strength & Collaborations for Corresponding Potential SBRC
 - RII Focused on Research Theme(s)
 - Close Integration of Research Focus with Corresponding Education, Innovation & Outreach Plans
 - EPSCoR Funds Requested and Used Only For EPSCoR Project Components and Participants





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