

The 21st EPSCoR National Conference



Sustainability, Innovation, and EPSCoR



JW Marriott • Washington, DC
October 19 - 21, 2009



Panel 1: A Sustainable Planet

An aerial photograph of a tropical landscape. In the foreground, there is a sandy beach meeting clear, turquoise water. The middle ground is dominated by a lush green valley with a winding dirt road and scattered buildings. The background features steep, forested mountains under a bright sky.

Moderator:

Timothy Killeen - NSF/GEO

Michael Eckardt - Maine EPSCoR

Judith Sunley – NSF/SBE



Panel 2: It Takes a State

Moderator: Tom Paterson – NSF/ENG
Mary Good – U of Arkansas
Paul Risser – U of Okla Rsch Cabinet
Paul Hill – WV EPSCoR
Philip Boudjouk – ND EPSCoR

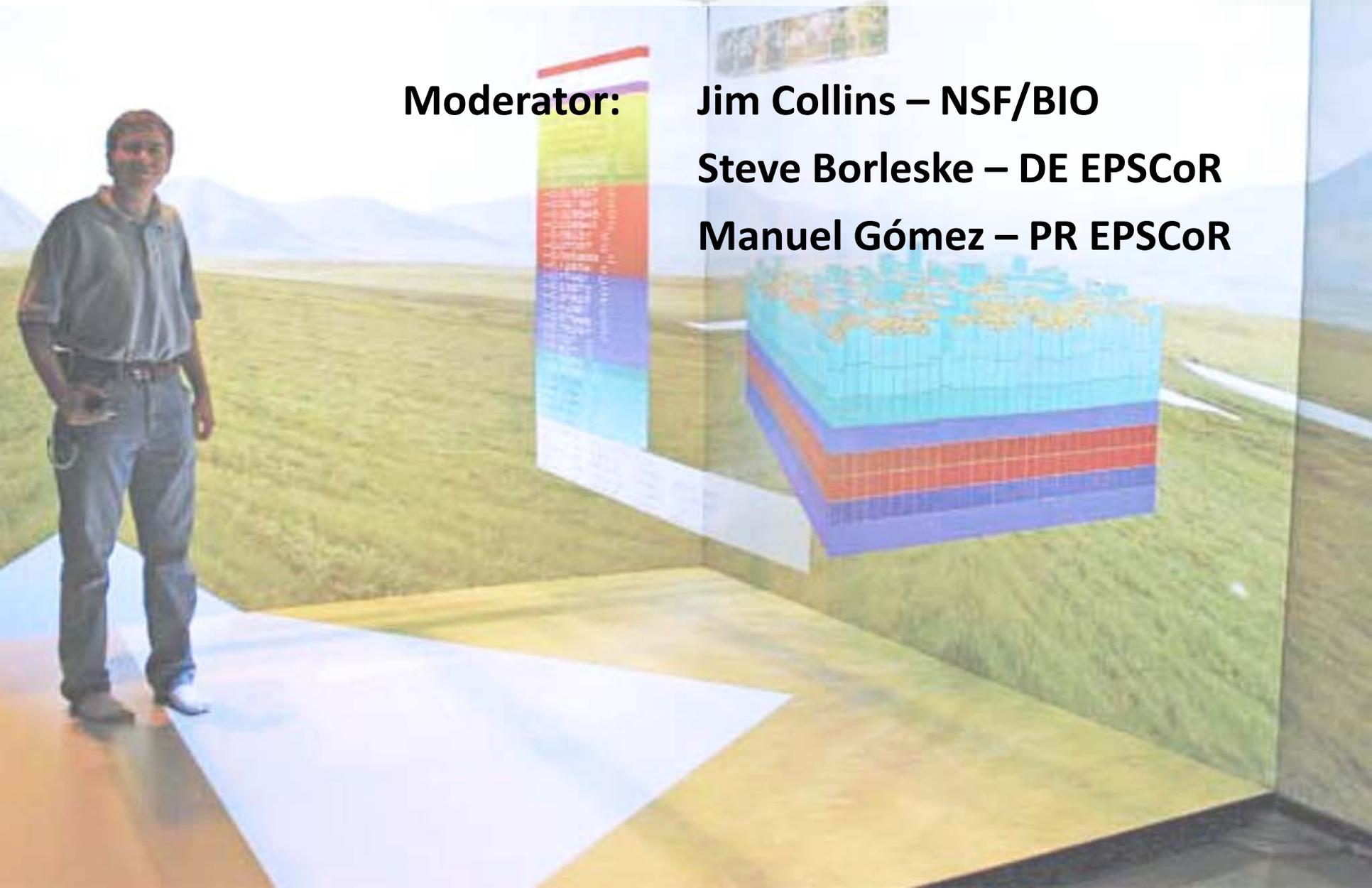
Panel 3: S&E without Borders

Moderator:

Jim Collins – NSF/BIO

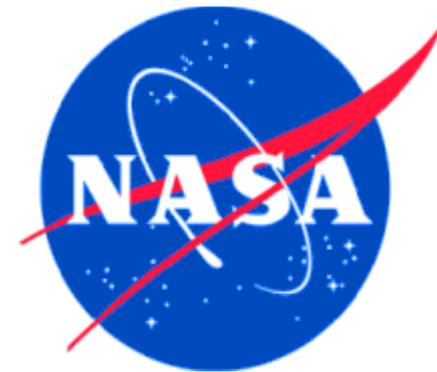
Steve Borleske – DE EPSCoR

Manuel Gómez – PR EPSCoR



Panel 4: EPSCoR Writ Large

Moderator: Gayle Dana – NV EPSCoR



Panel 5: Science First



Kristen Bowman-James – KS EPSCoR

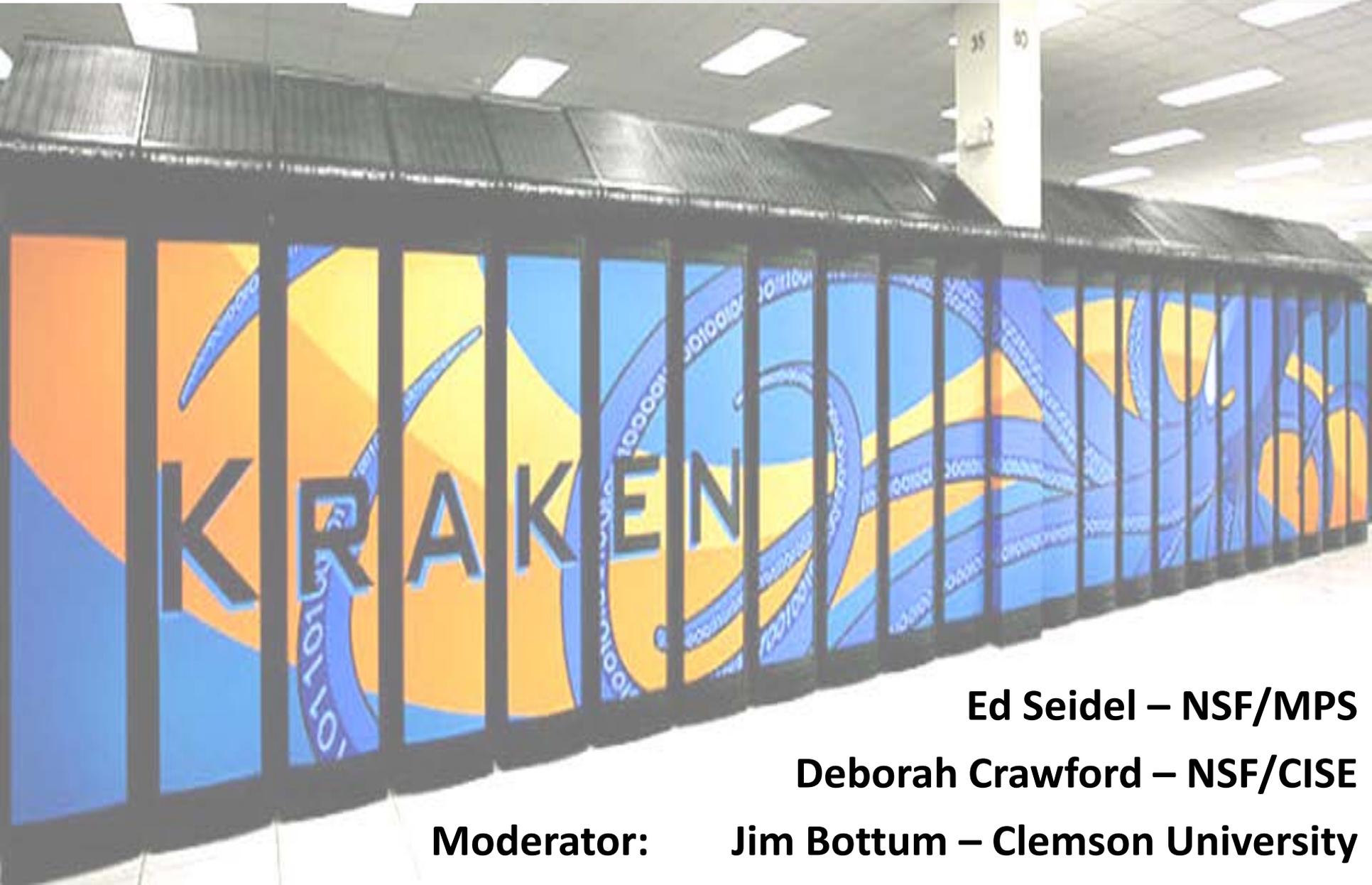
Roger Markwald – Medical Univ of SC

Sally Mackenzie – U of NE – Lincoln

Moderator:

Steve Borleske – DE EPSCoR

Panel 6: Enabling Synergy



Ed Seidel – NSF/MPS

Deborah Crawford – NSF/CISE

Moderator: Jim Bottum – Clemson University

Panel 7: So What?



Steve Nelson – AAAS

Terrance Russell – ARI, Emeritus

Judith Van Houten – VT EPSCoR

Carol Davis – ND State University

Moderator:

Willie Pearson, Jr. – Georgia Inst of Tech

If a Tree Falls



W. Lance Haworth
Office of Integrative Activities, NSF

Keynote: From the Top



Arden L. Bement
Director, NSF

The Road Ahead





NSF EPSCoR Updates

- **Research Infrastructure Improvement**
 - ✓ **RII Track-1**
 - ✓ **RII Track-2**
 - ✓ **RII C2**
- **Co-Funding**
- **Outreach and Workshops**



EPSCoR Investment Tools for Capacity Building

- **Research Infrastructure Improvement Awards (RII)**
 - **Track-1**: Up to 5 years and \$20M to jurisdictions to improve physical and human infrastructure critical to R&D competitiveness in priority research areas.

In FY 2009: 9 Proposals Received; 6 Funded



RII FY 2010 Update: Track-1

Event	Target Date
• New Solicitation Released (NSF 09-570)	07/09/09
• Proposals Due (14 Received)	10/19/09
• Review Panel	Dec 2009
• DRB Review	Mar 2010
• NSB Review	May 2010
• Awards Announced	Jun 2010
• Start Dates	Jul 2010



EPSCoR Investment Tools for Capacity Building

- **Research Infrastructure Improvement Awards (RII)**
 - **Track-2**: Up to 3 years and \$6M to consortia of jurisdictions to support innovation-enabling cyberinfrastructure of regional, thematic, or technological importance.

In FY 2009: 9 Proposals Received; 7 Funded



RII FY 2010 Update: Track-2

Event	Target Date
• New Solicitation Released (NSF 09-571)	07/09/09
• Proposals Due	11/18/09
• Review Panel	Feb 2010
• Awards Announced	Apr 2010
• Start Dates	May 2010



EPSCoR Investment Tools for Capacity Building

- **Research Infrastructure Improvement Awards (RII)**
 - **Cyber Connectivity (C2)**: Up to 2 years and \$1M to support the enhancement of inter-campus and intra-campus cyber connectivity and broadband access within an EPSCoR jurisdiction.

New in FY 2010



RII FY 2010 Update: C2

Event	Target Date
• Solicitation Released (NSF 09-569)	07/06/09
• Proposals Due	11/02/09
• Review Panel	Jan 2010
• Awards Announced	Apr 2010
• Start Dates	Jun 2010



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 - ✓ **RII Track-1**
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EPSCoR Investment Tools for Capacity Building

Co-Funding:

Joint support of research proposals submitted by EPSCoR researchers to non-EPSCoR NSF programs that have been merit reviewed and recommended for award, but could not be funded without the combined, leveraged support of EPSCoR and the Research and Education Directorates and Offices.



Co-Funding Essentials

- Reviewed and Recommended for Funding within NSF Directorates and Offices
- Combined leveraged support necessary for funding
- Characteristics favoring Co-funding:
 - New PIs
 - Collaborative
 - Multidisciplinary
 - Synergistic
 - Broaden participation
 - Instrumentation
 - R/T Ops for St/Tchrs
 - Integration of R&E
- **Tipping Point is Financial!**



EPSCoR Co-Funding (\$M)

FY	EPS	Dir/Off	NSF Total	Leverage
2000	19.6	30.4	50.0	2.6
2001	33.7	49.1	82.8	2.5
2002	37.7	64.2	101.9	2.7
2003	39.7	58.7	98.4	2.5
2004	36.2	66.2	102.4	2.8
2005	33.7	67.7	101.4	3.0
2006	36.4	56.1	91.5	2.6
2007	36.2	67.4	101.0	3.0
2008	46.7	104.4	151.1	3.2
2009	40.5	66.7	107.2	2.6
FY 00-09	360.4	626.9	991.3	2.8



FY09 Co-Funding by Award Type (\$M)

Type	EPSCoR	NSF Tot		Type	EPSCoR	NSF Tot
CAREER	11.23	22.58		GOALI	0.63	1.34
IIA	8.19	18.17		PFI	0.60	1.80
HR Dev	7.84	29.70		Math	0.30	2.23
Collabs	4.98	11.24		CCLI	0.22	0.45
Undergrad	2.46	5.32		Centers	0.14	0.27
Equip	1.80	4.54		Internatnl	0.07	0.15
Cyber	1.17	4.27		Other	0.01	0.20
ATE	0.85	5.06		Totals:	40.48	107.15

HR Dev: GK-12; HBCU-UP; TCUP; RDE; etc

Cyber: OCI; CDI

UG: REU, RET, RUI, UBM



FY09 Co-Funding by Jurisdiction (\$M)

JD	Num	EPSCoR	NSF Tot		JD	Num	EPSCoR	NSF Tot
AK	1	0.14	0.27		KY	7	0.79	1.83
AL	24	3.36	10.73		LA	16	3.44	8.33
AR	6	0.92	3.21		ME	9	1.78	5.67
DE	9	1.86	5.40		MS	12	2.05	4.96
HI	11	0.72	2.10		MT	12	1.72	3.48
IA	1	0.30	0.95		ND	9	2.09	4.88
ID	4	1.19	4.91		NE	5	0.67	3.00
KS	6	0.59	1.74		NH	7	0.85	1.88



FY09 Co-Funding by Jurisdiction (\$M)

- continued -

JD	Num	EPSCoR	NSF Tot		JD	Num	EPSCoR	NSF Tot
NM	15	1.88	3.91		TN	24	3.27	8.49
NV	5	0.82	1.73		UT	0	0	0
OK	9	1.64	3.87		VI	0	0	0
PR	8	1.03	4.21		VT	4	0.42	0.85
RI	8	1.32	3.16		WV	6	0.79	1.80
SC	16	2.53	5.20		WY	12	2.07	5.03
SD	5	2.26	5.67		Tot	251	40.48	107.15



NSF EPSCoR Updates

- **Research Infrastructure Improvement**
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EPSCoR Investment Tools for Capacity Building

Outreach & Workshops

**Support of outreach activities by NSF disciplinary and professional staff;
Support of strategic planning and capacity-building workshops. (NSF 06-613)**



Outreach Investments FY05-09

Fiscal Year	EPSCoR Investment (K\$)	Person- Trips
2005	111.3	108
2006	83.9	78
2007	98.2	85
2008	183.9	110
2009	204.2	121



Workshops: Community Catalysts

LIVING ON EARTH
Anchorage • 2009

Science Research
West Virginia Higher Education Policy Commission
WV EPSCoR

Building Diversity
HIGHER EDUCATION

October 21-22, 2008, Charleston, West Virginia

**NSF EPSCoR WATER WORKSHOP:
WATER DYNAMICS**

Hosted by Vermont EPSCoR

November 9-12, 2008
Sheraton Hotel and Conference Center
Burlington, Vermont



NSF EPSCoR Funding (\$M)

Activity	FY05 Actual	FY06 Actual	FY07 Actual	FY08 Actual	FY09 Est	FY10 Req
RII	59.0	61.7	65.8	72.8	92.0	114.4
Co-Fund	33.6	35.9	34.5	46.7	40.5	31.2
Outreach Workshps	0.7	0.6	1.8	0.5	0.5	1.5
Total	93.3	98.2	102.1	*120.0	133.0	147.1

* Includes \$5M in Supplemental Funding



EPSCoR -

Good Progress

Significant Challenges

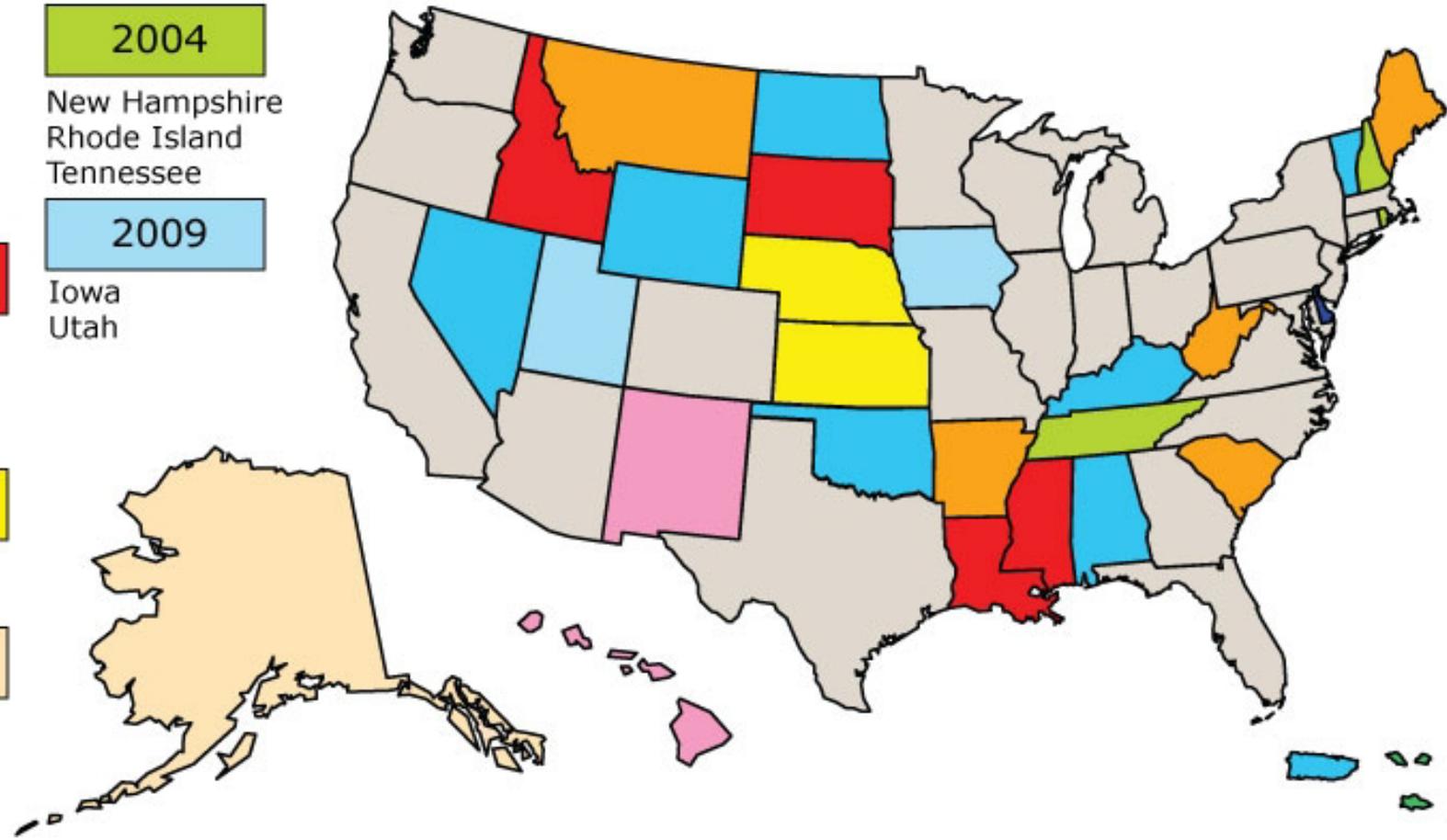
Outstanding Opportunities



NSF EPSCoR Jurisdictions

- 1980**
Arkansas
Maine
Montana
South Carolina
West Virginia
- 1985**
Alabama
Kentucky
Nevada
North Dakota
Oklahoma
Puerto Rico
Vermont
Wyoming
- 1987**
Idaho
Louisiana
Mississippi
South Dakota
- 1992**
Kansas
Nebraska
- 2000**
Alaska

- 2001**
Hawaii
New Mexico
- 2002**
U.S. Virgin Islands
- 2003**
Delaware
- 2004**
New Hampshire
Rhode Island
Tennessee
- 2009**
Iowa
Utah





Thank You