

TRANSFORMING INSTITUTIONS

**Rowing in the Same Direction:
Aligning Change Efforts Across
Higher Education**

St Louis, MO | June 9-11, 2025

Wi-Fi Network: Curio Meeting
Password: 1820

Introduce yourself in Padlet:
<https://bit.ly/TI-2025-2> or QR code



#TransformInstitutions2025



Welcome

2025 Transforming Institutions Conference

Kacy Redd, Noah Finkelstein, Andrea Beach

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NSEC

Network of STEM Education Centers

TRANSFORMING
INSTITUTIONS

#TransformInstitutions2025

Thank you to the planners

Andrea Beach, Western Michigan University

Kadian Callahan, Kennesaw State University

Terri Dautcher, NACUBO

Noah Finkelstein, University of Colorado

Melissa Haswell, Delta College

Charles Henderson, Western Michigan University

Travis Kibota, Clark College

Sharon Locke, Southern Illinois University
Edwardsville

Kacy Redd, APLU

Allison Smith, New York University

Gabriela Weaver, University of
Massachusetts Amherst

Michelle Withers, Binghamton University

Casey Wright, University of Iowa

SERC team

Thank you to our reviewers

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Elizabeth Ambos
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Thank you to the hosts and sponsors

ASCN

Association of Public and Land-grant Universities

Network of STEM Education Centers (NSEC)

St. Louis Union Station Conference Team

National Science Foundation



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Thank you to all of you



NSEC

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Orientation to the conference

- Back of name badge with link to program guide
- Know Before You Go email
 - Presenter Guidelines – automatic captioning, upload to Oxford Abstracts
 - Regency Ballroom (plenary and meals), Midway Suites 1-6 (concurrent sessions), Upper Ballroom (registration desk), Station Master Room (Quiet room), and Restrooms.
 - Code of Conduct and Harassment Policy - Andrea Beach or Charles Henderson
 - Introduce yourself via the Padlet
- Accessibility needs
 - Kacy Redd or Abigael Eshete



Schedule for today



[Bit.ly/TIPProgram2025](https://bit.ly/TIPProgram2025)

3:30PM

3:30-5:00pm

Virtual Plenary Panel: Community Colleges: Building Partnerships & Transforming Communities

Dr. Keith Curry, President/CEO, Compton College

Dr. Michael Gavin, President, Delta College

Dr. Russell Lowery-Hart, Chancellor, Austin Community College District

Dr. Karen Stout, President and CEO, Achieving the Dream

Dr. Melissa M. Haswell (moderator), Associate Dean Science and Mathematics Division, Delta College

5:15PM

5:15-5:55pm

Poster Session 1A and Networking Break

 14 submissions

5:55PM

5:55-6:05pm

Flip Posters

6:05PM

6:05-6:45pm

Poster Session 1B and Networking Break

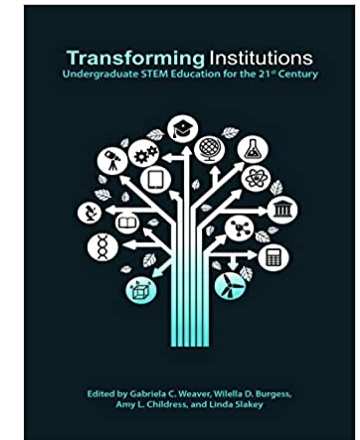
 15 submissions

Situating Ourselves: Welcome Sixth! Transforming Institutions Conference

2011



2014



2019



2021



2023



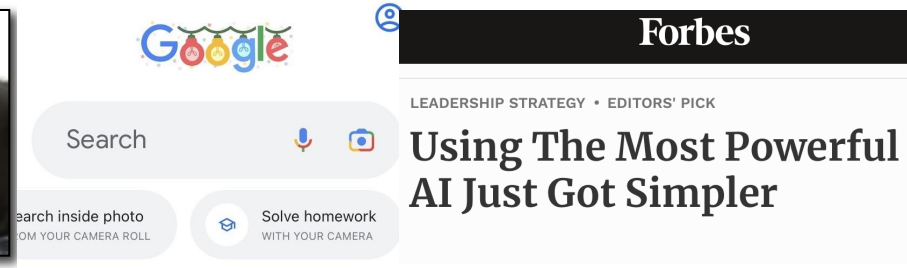
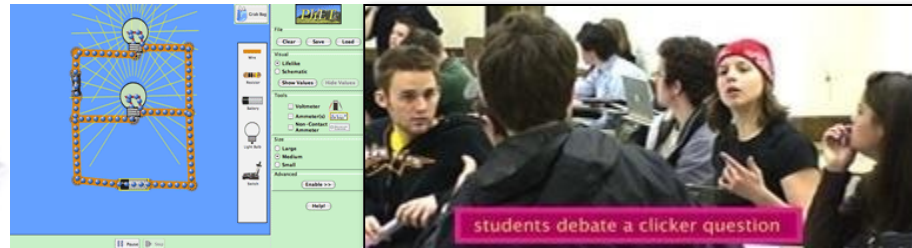
2025



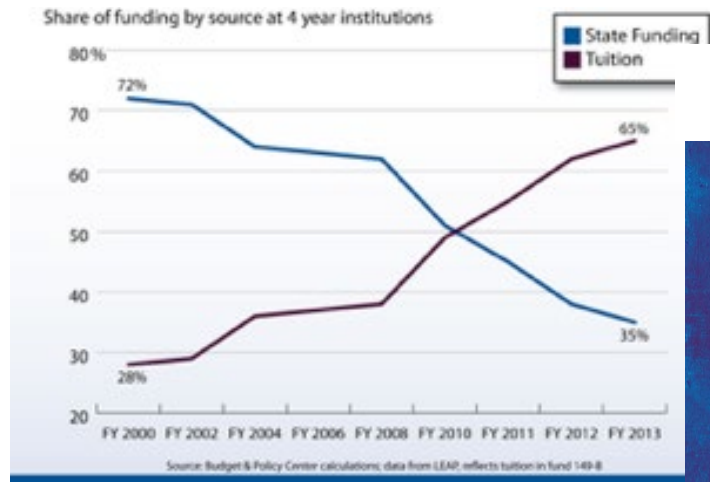
Situating Ourselves 2025: recalling 2023

A time of accelerating change?

New Models/Modes of Education



Financial



Public Will / Policies

Don't Buy The Hype, College

Shifting Roles of Faculty/Staff



Demographic & Population Shifts



Situating Ourselves: 2025: overt dismantling of higher education & infrastructure



NATIONAL SCIENCE FOUNDATION SUMMARY TABLE
FY 2026 BUDGET REQUEST TO CONGRESS

(Dollars in Millions)

NSF by Account	FY 2024 Current Plan ¹	FY 2025 Estimate (TBD)	FY 2026 Request	Change over FY 2024 Current Plan	
				Amount	Percent
BIO	\$789.59		\$224.89	-\$564.70	-71.5%
CISE	989.35		346.27	-643.08	-65.0%
EDU	1,154.31		288.43	-865.88	-75.0%
ENG	740.80		185.20	-555.60	-75.0%
GEO	1,577.08		873.57	-703.51	-44.6%
GEO: OPP	559.76		497.22	-62.54	-11.2%
U.S. Antarctic Logistics Activities	109.31		109.31	-	-
MPS	1,554.21		515.28	-1,038.93	-66.8%
SBE			94.00	-196.29	-67.6%
			44.00	-30.07	-40.6%
			350.00	-267.90	-43.4%
			108.47	-143.31	-56.9%
			10.00	-3.50	-25.9%
			12.74	-50.96	-80.0%
			177.73	-252.29	-58.7%
			1.15	-0.60	-34.3%
			196.89	70.89	56.3%

NATIONAL SCIENCE I

Number of People Involved in NSF Activities

FY 2026 Budget Reques

	FY 2024 Plan Estimate	FY 2025 (TBD)	FY 2026 Request Estimate
Senior Researchers	60,400		16,900
Other Professionals	14,400		4,100
Postdoctoral Associates	5,500		1,000
Graduate Students	41,500		12,400
Undergraduate Students	37,300		8,000
PreK-12 Teachers	42,900		8,200
PreK-12 Students	128,100		39,400
Total Number of People	330,100		90,000

Restoring Gold S

PRESIDENTI

Executive Orders



Our Responses: Rowing in the Same Direction



Our Program Reflects this Opportunity: Rowing in the Same Direction. We're in this TOGETHER

Community Colleges: Building Partnerships & Transforming Communities



Resilient by Design: Sustaining and Advancing Student-Ready STEM Education

Tia Brown McNair
Partner, Sovo

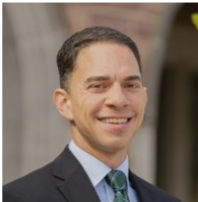


Transforming Undergraduate STEM Education: Supporting Equitable and Effective Teaching



Happiness 101

Timothy Bono
Assistant Dean, Office of the Vice Chancellor for Student Affairs
Lecturer in Psychological & Brain Sciences
Washington University in St. Louis



Lighting Rounds/ Roundtables

4:15-5:00pm Roundtable Discussions: Small Breakout Groups Table 1. Running a Center of Teaching and Learning or STEM Education Center – Dea Greenholt/Gregory Rushion Table 2. How can Minority-Serving Institutions design and implement structured academic advising systems to improve retention and equity in STEM education – Belinda Rousin	4:15-5:00pm Roundtable Discussions: The Culture of Chemistry Project: An Initial Analysis of Values and Assumptions in the Discipline of Chemistry	4:15-5:00pm Roundtable Discussions: Departmental Change Network	4:15-5:00pm Roundtable Discussions: "Mentoring at Scale" to Expand the STEMM Community	4:15-5:00pm Roundtable Discussions: Change Insight Through The SEER Process
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Morning Workshop & Breakout Sessions

Tuesday, June 10 | 9:00 AM - 10:45 PM CT

9:00-10:45am Workshop: Evaluating Program Sustainability – a rubric to help you plan and measure progress	9:00-10:45am Building More Effective Collaboration in STEM Education Reform	9:00-10:45am Student-Faculty Partnerships for STEM Transformation Evaluating drivers of change in faculty research across science and math departments	9:00-10:45am Departmental Action Teams can catalyze sustained change at individual, group, and organization levels	9:00-10:45am The STEM2 Network: Accelerating transformation by bridging disciplinary and institutional silos
10:00-10:45am Transition	10:00-10:45am Facilitate Undergraduate Student Success Through Integrating and Staffing Resources Throughout	10:00-10:45am When Graduate Fellows Meet: Using Participatory Design and Faculty Governance to Drive Institutional Change	10:00-10:45am Using Instructor Insights to Generate Scalable	10:00-10:45am Transforming Teaching Evaluation: Building an International Alliance for Systemic Change
10:00-10:45am Evaluation Perspectives of the STEM Education Research Institute Contributions in Advancing Innovative Practices				

Poster Sessions & Networking Breaks

12:00-1:15pm

Lunch

Silence in Community
(morning meditation practice)

Sustaining Joy
(optional activity)

Situating Ourselves: our communities



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Accelerating Systemic Change Network



Cultivating Connections

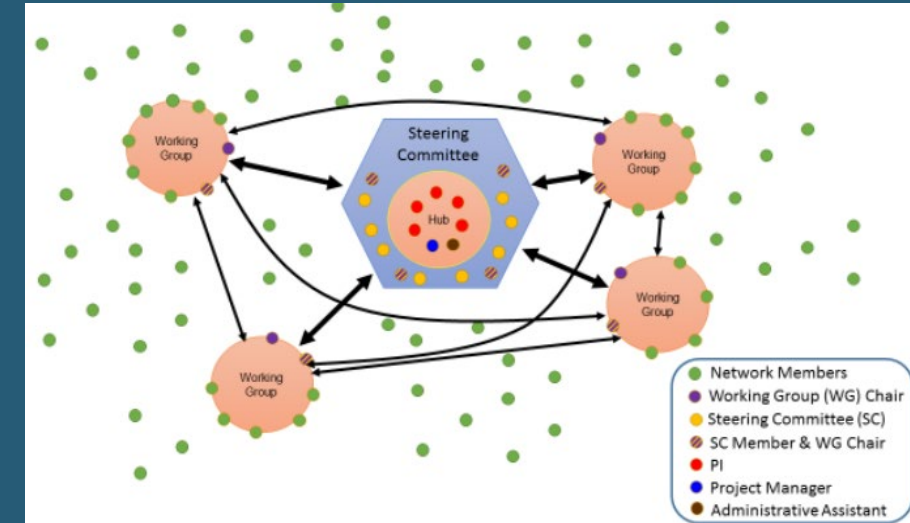
- Intellectual home for researchers and change agents working on higher education change
- Coordinate with national efforts

Resource Curation and Creation

- Aggregate and create resources for supporting researchers and change agents.

Endorse Ideas and Resources

- ASCN endorses and advocates for ideas and/or materials that will facilitate change in higher education.



ASCN Achievements



Working Group	Activities
Guiding Theories	<ul style="list-style-type: none">• Developed a collection of change theory summaries,• Held national workshop, and wrote two published articles on change theory.
Costs, Benefits, & Demonstrating Impact	<ul style="list-style-type: none">• Critical Resource Collection for Demonstrating Impact• Workshop planned for 2024 - Aligning financial decisions with inclusive and effective instructional practices
Change Leaders	<ul style="list-style-type: none">• Critical Resources for Change Agents• Webinar Series and Short Courses for Change Agents• Planning short course on Non-Linear process of change
Equity and Inclusion	<ul style="list-style-type: none">• WG members wrote NSF EHR Racial Equity proposal for a Systemic Change Institute• Ongoing DEI in STEMM Blog Series• Edited Book for Practitioners on inclusive teaching in STEM
Aligning Faculty Incentives with Systemic Change	<ul style="list-style-type: none">• Critical Resources for Teaching Evaluation Processes• Edited Repository of Teaching Evaluation Change Initiatives
Learning Spaces	<ul style="list-style-type: none">• Hosted 37 attendees (architects, learning space practitioners and researchers, other stakeholders) at HHMI meeting with funding from Sloan Foundation and in-kind support from HHMI.

Network of STEM Education Centers (NSEC)

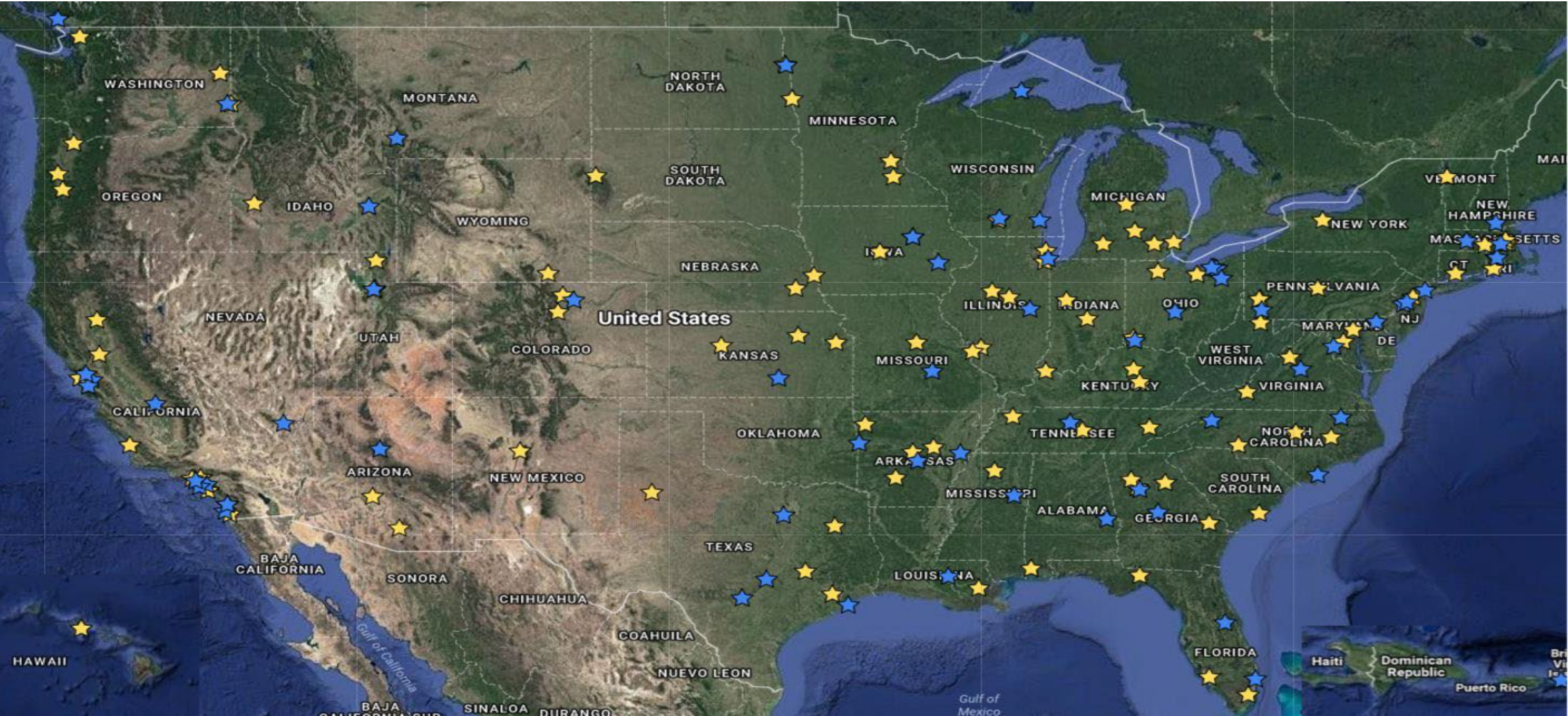


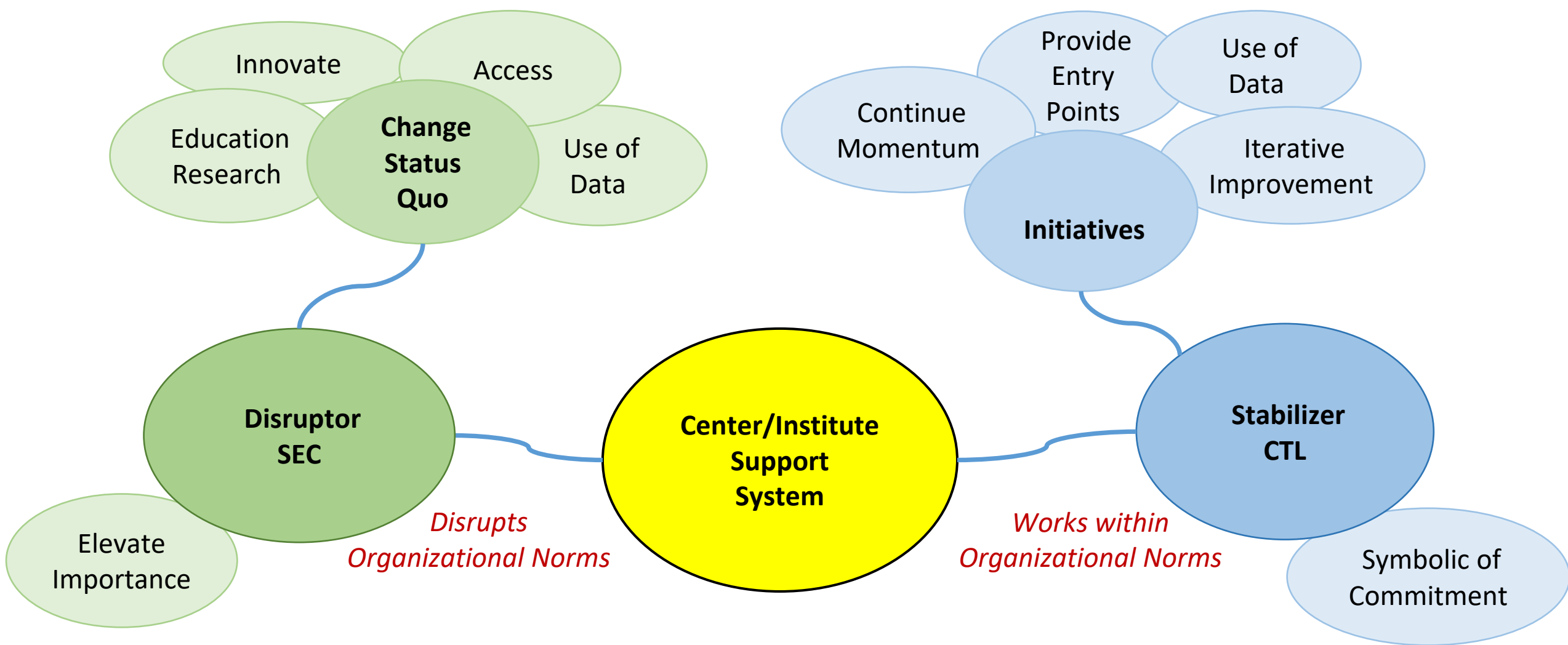
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NSEC

Network of STEM Education Centers





The Disruptor/Stabilizer Support System: A Model for Center Roles in Undergraduate STEM Education

Network of STEM Education Centers

Campus Centers

The Network

Get Involved

STEM Center Toolkit

Communicating Vision and Mission

Organizational Structures

Funding and Resources

Evaluation and Assessment

Building Partnerships

Communication Strategies

STEM DBER Resources

Webinar on Evaluating Centers

Workshops

Conferences

Center Profiles

STEM Education Innovation Programs

Research Action Clusters

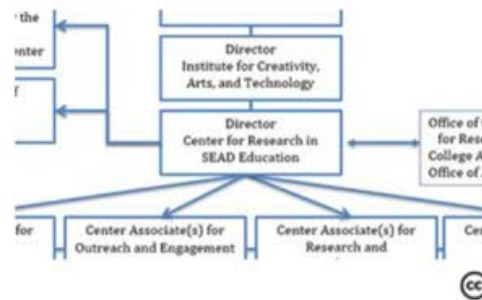
Community Essays

News and Jobs

STEM Education Center Resources

Here you can find publications, essays, and webinars that provide guidance, tools, and resources for STEM education centers.

STEM Education Center Toolkit



There are as many ways of organizing the activities and people of a center as there are centers. But that doesn't mean that there aren't some common lessons to be learned. Each section of the Toolkit draws on the real experiences of centers to illuminate guidance and best practices in a particular area of activity. Over the course of several [workshops](#), the NSEC community has recognized areas where there is expertise available in the network that should be shared more widely. At the [2016 Workshop](#) in San Antonio, participants synthesized guidance on these 5 topical areas from [essays](#) and [stem center profiles](#) submitted by network members. The sixth section on Communication

Strategies was added after the [2018 working meeting](#).

Communicating Vision and Mission

Time spent developing vision and mission statements is an investment in success, but being able to communicate that vision and mission is just as important. [read more »](#)

Organizational Structures

There are as many ways of organizing the activities and people of a center as there are centers. But that doesn't mean that there aren't lessons to be learned. [read more »](#)

Funding and Resources

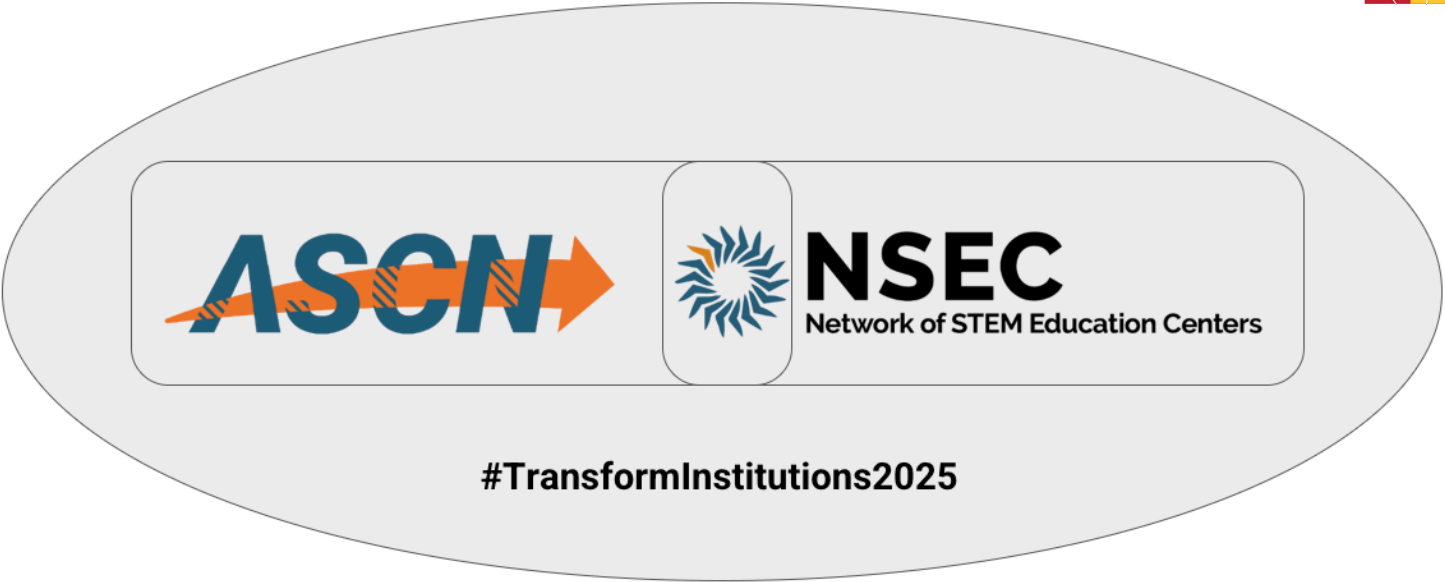
There are multiple, interconnected parts to funding and supporting center activities. Each is important and needs to be understood in terms of how all of them play together as a system. [read more »](#)

Let's Row Together



AAU

AAC&U



Community Colleges: Building Partnerships & Transforming Communities



Karen Stout
President and CEO
Achieving the Dream



Michael Gavin
President
Delta



Russell Lowery-Hart
Chancellor
Austin Community
College District



Keith Curry
President/CEO
Compton College



Melissa Haswell (Moderator)
Associate Dean of Science and
Mathematics Division
Delta College

Small Group Discussion on Community

1. What communities currently provide you with joy, energy, or comfort? What communities do you actively nurture or support?
2. Share one way you want to be more intentional about building community or partnership in your work.
3. Reflect for a couple of minutes and then discuss at your table. Introduce yourself and share one thing.

Report Out via Padlet

- Share one way you build or support community that might inspire someone else to try something similar



<https://bit.ly/TI-2025-2>

Poster Session 1A (Odd Posters) & Networking Break

Monday, June 9 | 5:15 PM-5:55 PM CT

Wi-Fi -Network: Curio Meeting | Password: 1820

Flip Posters

Monday, June 9 | 5:55 PM-6:05 PM CT

Wi-Fi -Network: Curio Meeting | Password: 1820

Poster Session 1B (Even Posters) & Networking Break

Monday, June 9 | 6:05 PM-6:45 PM CT

Wi-Fi -Network: Curio Meeting | Password: 1820



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