

## Achieving Broader Impacts through Community Engagement Scholarship

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### **Defining Engagement**

The collaboration between institutions of higher education and their larger communities (local, regional/state, national, global) for the mutually beneficial exchange of knowledge and resources in a context of partnership and reciprocity (Carnegie Foundation).

The purpose of community engagement (scholarship) is the partnership of college and university knowledge and resources with those of the public and private sectors to enrich scholarship, research, and creative activity; enhance curriculum, teaching and learning; prepare educated, engaged citizens; strengthen democratic values and civic responsibility; address critical societal issues; and contribute to the public good (CIC-Big Ten).

Carnegie Foundation for the Advancement of Teaching. (2006). *Classification description: Community engagement elective classification.* Stanford, CA: Author. Retrieved from <a href="http://classifications.carnegiefoundation.org/descriptions/community\_engagement.php">http://classifications.carnegiefoundation.org/descriptions/community\_engagement.php</a>; and

Fitzgerald, H. E., Smith, P., Book, P., Rfodin, K. & the CIC Committee on Engagement (2005). *Resource guide and recommendations for defining and benchmarking engagement.* Champaign, IL: The Committee on Institutional Cooperation.

### **Four Distinguishing Characteristics of Engagement**

It is *scholarly*. A scholarship-based model of engagement embraces both *the act of engaging* (bringing universities and communities together) and *the product of engagement* (the spread of scholarship focused, evidence-based practices in communities.

It *cuts across the missions* of teaching, research (**knowledge of discovery and knowledge of application**), and service, rather than being a separate activity, engaged scholarship is a particular approach to campus-community collaboration.

It is *reciprocal and mutually beneficial*; university and community partners engage in mutual planning, implementation, and assessment of programs and activities.

It embraces the processes and values of a *civil democracy*.

Fitzgerald, H. E., Bruns, K., Sonka, S. T., Furco, A., & Swanson, L. (2012). The centrality of engagement in higher education. *Journal of Higher Education Outreach and Engagement*, 16,7-27.

## **Engaged Research and Creative Activity Scholarly Approaches**

Use-inspired basic research

Community-based research

Community-based participatory research

Applied research

Contractual research (funded by government, non-governmental organizations, or

businesses)

Demonstration projects

Needs and assets assessments

Program evaluations

Translation of scholarship through presentations, publications, and web sites

Exhibitions, performances, and other creative activities

## **Engaged Teaching/Learning Scholarly Activities**

#### For-Credit

- Service-learning
- Community engaged research as part of university classes
- Study abroad programs with community engagement components
- Online and off-campus education

#### Not-for-Credit

- Pre-college programs for youth in K-12
- Occupational short course, certificate, and licensure programs
- Conferences, seminars, not-for-credit classes, and workshops
- Educational enrichment programs for the public and alumni
- Media interviews or "translational" writing for general public audiences
- Materials made available to enhance public understanding
- Self-directed, managed learning environments, such as museums, libraries, gardens

## **Engaged Service Scholarly Activities**

Technical assistance Consulting Policy analysis Expert testimony Legal advice Diagnostic and clinical services Human and animal patient care Advisory boards and other disciplinary-related service to community organizations

## **Scholarship of Integration**



Glass, C. R., & Fitzgerald, H. E. (2010). Engaged scholarship: Historical roots, contemporary challenges. In H. E. Fitzgerald, C. Burack & S. Seifer (eds). *Handbook of engaged scholarship: Contemporary landscapes, future directions. Vol. 1: Institutional change.* (pp. 9-24). East Lansing, MI: MSU Press

## Assessing Excellence: Promotion, Tenure, Merit Awards & Rewards

## Four Dimensions of Quality Outreach and Engagement

### Significance

- Importance of issue/opportunity to be addressed
- Goals/objectives of consequence

#### Context

- Consistency with university/unit values and stakeholder interests
- Appropriateness of expertise
- Degree of collaboration
- Appropriateness of methodological approach
- Sufficiency and creative use of resources

### Scholarship

- Knowledge resources
- Knowledge application
- Knowledge generation
- Knowledge utilization

#### Impact

- Impact on issues, institutions, and individuals
- Sustainability and capacity building
- University-community relations
- Benefit to the university

Committee on Evaluating Quality Outreach. (1996,2000). *Points of distinction: A guidebook for planning and evaluating quality outreach*. East Lansing: Michigan State University, University Outreach and Engagement.

**Community Engaged Scholarship and NSF Broader Impacts** 

Advance discovery and understanding while promoting teaching, training, and learning.

#### Creating the T-Shaped Student for a 21<sup>st</sup> Century Workforce



With permission of MSU and IBM

## **Aligning Undergraduate Education: Tools of Engagement Online Learning Modules**

- Increase student competency and understanding of outreach and engagement
- Cover the scholarly, community-based, collaborative, responsive, capacity-building aspects of outreach and engagement
- Are delivered at introductory, intermediate, and advanced levels
- Contain background information; pre-class, in-class, and post-class lesson plans; lecture notes; and background materials
- Employ multiple learning techniques

### **Getting Students Hooked!!!**



#### International Study Abroad: Art, Cultural Heritage, and Museum Studies in South Africa

Through site visits to museum, conversations with arts professionals and museum staff, art-making, and reflection activities, studies critically assess the social, racial, religious, political and cultural factors that impact contemporary art and the institutions charged with preserving and presenting culture.

Interns spend the first 4 weeks **working in a Cape Town museum in conservation**, education, or curatorial departments to gain real-life museum experience. Regular reflection activities throughout the internship help frame experiences in the context of worldwide issues and standards of museum practice.

Students can complete 7 of the 15 credits needed to obtain a transcript for a Museum Studies specialization (undergraduates) or a certificate (graduate students).

Sponsored by the Department of Art. Art History and Design and the Museum Studies Program. Taught by Professors Kurt Dewhurst and Marsha McDowell.

#### <u>New NSF international grant aims to improve student STEM engagement</u>

The National Science Foundation (NSF) grant to a team of Michigan State University researchers and colleagues in Finland to develop and test innovative project-based science units in physics and chemistry classes designed to increase student engagement and encourage underrepresented groups of student to continue learning science. The MSU team includes Joe Krajcik (co-Principal Investigator) and Deborah Peek-Brown from CREATE, Melanie Cooper (Chemistry), Danny Caballero (Physics), and Corey Drake (Teacher Education).

#### **Internal Efforts to Promote Undergraduate Research Involvement**

Paid assistantships as well as research and independent study classes for credit. Professorial Assistantships Honors Research Seminars EuroScholars Research Abroad Program South Africa Scholars: Research and Community Engagement Program Independent Research, Independent Study, or Thesis Honors Courses

### **Quantum Education for Students & Teachers**

- QUEST, a website for sharing the fun and excitement of quantum physics with educators, students, and the general public. Each year undergraduate students to create new materials about quantum physics, try them out at various public outreach events, and improve them based on feedback.
- **About Us** introduces the faculty and students involved in QUEST and also the outreach activities QUEST undertakes.
- Physics provides a visual introduction to the main topics of the QUEST site: (a) the development of our theoretical and experimental understanding of quantum physics and (b) the roles quantum physics plays in our everyday lives.
- Resources contains materials for use by those interested in starting or augmenting their own public outreach efforts. These tip sheets, equipment lists, and slides have been developed by QUEST faculty members in collaboration with MSU undergraduates and have been tested in a variety of venues.
- **Links** highlights other outreach resources in the high-energy physics community, many provided by (inter)national particle and nuclear physics laboratories.

The leaders of the QUEST project, Prof. R. Sekhar Chivukula and Prof. Elizabeth H. Simmons, are theoretical particle physicists who teach at <u>Michigan State University</u>.

#### Aligning Graduate Student Educational Experience: Transcripted Certificate in Community Engagement (Core competencies).

Foundations of CES

Variations of CES

**Initiating Partnerships** 

Sustaining Partnerships

Working with Diverse Communities

Techniques for Collaboration

Systems Approaches Collaborative Modeling

Evaluation Science Diffusion Dissemination

Assets and Capacity Building

Community Engaged: Research & Creative Activities Teaching and Learning Service (outreach) Commercialized Activities

Successful Careers: Documenting Accomplishments Quality, Excellence, & Peer Review Academic Peer Review Public Peer Review Ethical Issues

Communicating Engagement Academic Audiences Public Audiences



## **Community Engaged Scholarship and NSF Broader Impacts**

## Broaden participation of underrepresented groups

## **Information Technology Empowerment Center**



#### The Promise of ITEC: Building Opportunity in the Digital Economy

Located in Foster Community Center, Lansing. MI; Programs available through a network of over 15 school and community-based locations that develop academic and 21<sup>st</sup> Century Learning Skills (collaboration, creativity, problem solving, etc.).

## **ITEC's Approach**





- ITEC increases the number of Michigan youth who are motivated and prepared for academic and career success in science, technology, engineering, and math (STEM).
- Engage youth in technologybased, informal learning activities designed to enhance performance in science, technology, engineering, and mathematics (STEM).

## Have Bus, Will Travel: TechTransport

- The ITEC Bus (November 2015)
  - TechTransport will travel to Lansing Metro's most underserved areas to help bridge the digital divide.



 curriculum and programs to launch into space and explore the outer reaches of our solar system, galaxy, and universe. Mobile learning and technology center 12 dual-screen workstations 3D Printer, Oculus Rift Virtual Reality headset

## **Power of We Consortium Coalitions**



## **Power of We Consortium: Membership**

#### **Community Partners**

- Action of Greater Lansing
- Advent House
- Allen Neighborhood Center
- Asset Independence Coalition
- Baker Donora Focus Center
- Birth to Five/Great Start
   Collaborative
- Black Child and Family Institute
- Capital Area Center for Independent Living
- Capital Area Child and Family
   Charities
- Capital Area Community Services, Inc.
- Capital Area District Library
- Capital Area Youth Alliance
- Capital Area Health Alliance
- Capital Region Community
   Foundation
- Catholic Diocese of Lansing
- Child Abuse Prevention Services
- Christian Services
- Church of Greater Lansing Network
- City of East Lansing
- Community Coalition for Youth

- Community Economic Development
   Network
- Cristo Rey Community Center
- Fenner Conservancy
- Franklin Street Community Housing Corporation
- Greater Lansing African American Health Institute
- Greater Lansing Food Bank Ingham County
- Greater Lansing Health Ministries
   Consortium
- Greater Lansing Homeless
   Resolution Network
- Greater Lansing Housing Coalition
- Habitat for Humanity, Lansing
- Immigrant & Refugee Resource
   Collaborative
- Impact

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- Indigenous Youth Empowerment
   Program
- Infant Mortality Coalition
- Ingham Health Plan Corporation
- Ingham Substance Abuse Prevention Coalition

- Labor Council for Latin American
   Advancement, Lansing Chapter
- Land Use and Health Resource
   Team
- Lansing Black Chamber of Commerce
- Lansing Community College
- Lansing Latino Health Alliance
- Lansing Regional Chamber of Commerce
- Long-term Care Collaborative
- McLaren Greater Lansing
- Michigan Disability Rights Coalition
- Michigan Energy Options
- Michigan State Housing Development Authority
- Michigan State University
- Mid-Michigan Environmental Action
   Council

- National Council on Alcoholism/Lansing Regional Area
- Nokomis Learning Center
- NorthWest Initiative
- One Love Global
- Peckham, Inc.
- Prima Civitas
- South Lansing Community Development Association
- Southside Community Coalition
- Sparrow Health Systems
- St. Vincent Catholic Charities
- Tri-County Regional Planning Commission
- Women's Center of Greater Lansing
- Xicano Development Center
- YMCA of Metropolitan Lansing



## Flint Researchers Summit



## Wiba Anung (Early Star) Community Partners







- Bay Mills Indian Community
- Hannaville Potawatomi Indian Community
- Keweenaw Bay Indian Community
- Lac Vieux Desert Band of Chippewa Indian Community
- Little Traverse Bay Bands of Odawa Indians
- Nottawaseppi Huron Band of Potawatomi
- Pokagon Band of Potawatomi Indians
- Grand Traverse Band of Ottawa and Chippewa Indians
- Sault Saint Marie Tribe of Chippewa Indians
- Bay Mills Community College

## **Community Engaged Scholarship and NSF Broader Impacts**

# Enhance infrastructure for research and education

## **Ten Principles of Successful Partnerships**

#### Initiating Partnerships.

- 1. Share a worldview or common vision.
- 2. Agree about goals and strategies.
- 3. Have trust and mutual respect.

#### **Sustaining Partnerships.**

- 4. Share power and responsibility.
- 5. Communicate clearly and listen carefully.
- 6. Understand and empathize with each other.
- 7. Remain flexible.

#### **Outcomes of Partnerships.**

- 8. Satisfy each other's interests—mutual benefit.
- 9. Have their organizational capacities enhanced.
- 10. Adopt long-range social change perspectives.



## **Spectrum of Collaboration: What is the Participation Goal?**

Increasing Levels of Public Impact and Engagement

	Inform	Consult	Involve	Collaborate	Empower
Public	To provide the	To obtain public	To work directly	To partner with	To place final
Participation	public with	feedback on	with the public	the public in	decision-making
Goal	balanced and	analysis,	throughout the	each aspect of	in the hands of
	objective	alternatives,	process to	the decision	the public
	information to	and/or	ensure that the	including the	
	assist them in	decisions.	public concerns	development of	
	understanding		and aspirations	alternatives and	
	the problem,		are consistently	the	
	alternatives,		understood and	identification of	
	opportunities,		considered.	preferred	
	and/or			outcomes.	
	solutions.				

International Association for Public Participation. (2007). Spectrum of public participation. Available at: http://www.iap2.org/associations/4748/files/IAP2%20Spectrum\_vertical.pdf.

## Degree of Engagement in Community Engaged Research & Evaluation

28

Stage in Engaged R/E	Degree of Engagement
	Community Research/Evaluation
Identify issue of importance	·
Decide on research question(s)	· · · · · · · · · · · · · · · · · · ·
Select research design	· · · · · · · · · · · · · · · · · · ·
Develop instrument/process	· · · · · · · · · · · · · · · · · · ·
Collect data	←
Analyze data	
Interpret data	
Disseminate of findings	
Create academic products	
Create public products	

Adapted from Stanton, 2008

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## Michigan State University's ADVANCE Program

- Michigan State University's National Science Foundation (NSF) ADVANCE <u>Program</u>. The resulting initiative, *Advancing Diversity through the Alignment of Policies and Practices* (ADAPP), provided support for MSU colleges in a sweeping effort to align our values of diversity and quality with academic human resource policies and practices at the department- (or unit-) level.
- Michigan State University implemented six guiding principles: Quality 
   Inclusiveness 
   Transparency 
   Objectivity 
   Consistency 
   Alignment
- Initially 3 colleges were involved, after two years, the program was expanded to include all 17 colleges. At end of grant, ADVANCE programs were aligned into the university's mission via oversight by 3 central administration units.

## **Building Capacity: Pen to Paper Writing Retreat: Writing With, For, and About Service-Learning and Community Engagement**

Pen to Paper is an academic writing retreat designed to provide time, space, and resources to help faculty, academic staff, and graduate students working on (or planning for) journal manuscripts related to service learning and community engagement. The two-day retreat provides participants with time to discuss ideas with journal editors, receive mentoring from senior faculty coaches, share ideas with peers, and write. Pen to Paper offers two tracks—Planning to Write and Manuscript-Ready—and will accommodate 15-20 participants in each track; therefore space is limited to 40 total.

Sponsored by:



Michigan Campus Compact



University Outreach and Engagement



## **Community Engaged Research: Getting Started**

Community Engaged Research: Getting Started provides a basic introduction for faculty and academic staff relatively new to community engagement. While workshop presenters will provide an overview of principles and practices, the main focus is on developing a practical research plan, including the identification of potential community partners, development of research statements, and consideration of various community collaboration approaches.

#### MICHIGAN STATE UNIVERSITY

University Outreach and Engagement

## **SYSTEMIC ENGAGEMENT for Systems of Complex Problems**

Systems Thinking: Complex problems cannot be solved by isolated-impact approaches

Collaborative Inquiry: participatory approaches to research and evaluation

Support for Ongoing Learning: Lifelong or long-term strategic planning

**Emergent Design**: Co-constructive processes

Multiple Strands of Inquiry and Action: Tacit and Explicit Knowledge

**Transdisciplinarity**: researchers and community partners working jointly on a common problem using a shared conceptual framework that draws from multiple disciplines.

McNall, M., Barnes-Najor, J., Brown, R. E., Doberneck, D., & Fitzgerald, H. E. (2015). Systemic engagement: Universities as partners in systemic approaches to community change. Journal of Higher Education Outreach and Engagement. 19, 1-25.

#### **Innovations in Collaborative Modeling: Participatory Approaches Using Systems Dynamics, Agent-based Modeling, and Social Network Analysis.**

#### **Participants**

**Faculty and students** interested in learning about the basics of systems thinking and modeling and how to use them to address complex problems

**Community members** interested in learning how to more effectively address complex community problems using systems thinking and modeling

#### Why Participatory Systems Modeling?

Certain features of complex systems (e.g., non-linear relationships, feedback loops, and delays between cause and effect) make their behavior counterintuitive, meaning that actions taken to resolve problems frequently either make the problems worse or generate entirely new problems.

Quantitative systems modeling consists of a variety of techniques that represent the behavior of complex systems mathematically using computer simulation software. Such modeling can help to clarify the often puzzling dynamics of complex systems, leading to more effective problem solving efforts.

#### **Focal Complex Systems**

Features quantitative systems modeling techniques to tackle social and environmental problems related to (but not limited to) food systems, natural systems, wildlife management, water, health, transportation, and education.

Organized by the Sustainable Michigan Endowed Project (SMEP), the <u>Environmental Science & Policy Program</u> (ESPP), and University Outreach and Engagement (UOE) at Michigan State University (MSU).

## **Innovations in Participatory Modeling Partner: Dynamic Systems and Social Network Analyses**

## FOODPLUS | DETROIT

FoodPLUS|Detroit's projects are designed to facilitate increased connectedness through a broad base of multi-stakeholder engagement focused on innovating existing and emerging food/agriculture work.

FoodPLUS scope of services; MSU offerings in applied research, outreach, engagement and education; progressive review schedule, budget, logic model, theory of change; Michigan Good Food Charter and Detroit Future City alignment review and feedback; and comprehensive implementation plan.

Current and future projects will work to build Detroit's capacity in all sectors of the food system and the related resources systems.

## **Institute for Water Research: Community Engagement Scholarship Model**



Conceptual Diagram of MSU Institute of Water Research as a Boundary Organization

Asigned from Clark and Holiday (2006)

**Community Engaged Scholarship and NSF Broader Impacts** 

Broaden dissemination to enhance scientific and technological understanding

## **Intentional Approaches to Spread of Effects: Diffusion and Dissemination Science**

- **Diffusion**: Process used to communicate innovation over time among members of a social system. Diffusion occurs through (a) need for individuals to reduce uncertainty, (b) need for individuals to respond to their perception of what others are thinking, and (c) general perceived social pressure to do as others have done.
- **Dissemination Science**. Study of how effectiveness-based practices, programs, and policies can best be communicated to an interorganizational societal sector of potential adopters and implementers to produce effective results. (Dearing, 2009)
- Societal sector: collection of focal organizations operating in the same topical domain without respect to proximity together with organizations that critically influence the performance of the focal organization. (Dearing, 2008).

Dearing, J.W. (2008). Evolution of diffusion and dissemination theory. *Journal of Public Health Management & Practice*. 14, 99-108 Dearing, J. W., (2009). Applying diffusion of innovation theory to intervention development. Research in Social Work Practice. 19, 503-518.

## Michigan State University seeks public input to sharpen research and outreach focus

#### Michigan State University Extension

professionals throughout the state are asking Michigan residents to help them determine where they should place their emphasis in the future.

The <u>MSU Extension and</u> <u>AgBioResearch Survey to Sharpen</u> <u>Our Focus</u> online survey will supplement 14 upcoming face-to-face meetings throughout the state that will engage nearly 500 residents.



### If you want to know what people want, ask them!!!



Host **Rob Stephenson** and a cast of inquisitive kids. The **Curious Crew** members are young explorers from across mid-Michigan. The setting is Impression 5 Science Center in Lansing. The host is an award-winning educator.

Gravity

Thermal Energy An unpoppable balloon, spinning soda and a simple steam boat? Explore thermal energy and how different materials conduct heat. STEM Challenge: use a variety of materials to develop ice cube thermos prototypes to reduce heat loss and evaluate the cost of the design



WKAR





The Newton Effect —

WKAR

WKAR-TV national award (2015) from the National Educational Telecommunications Association (NETA), Community Engagement/Impact Award for the WKAR original TV series, "<u>Curious Crew</u>"

## **International Studies Programs' Engagement Approach**



## Partnerships for Sustainable Community Development – The Tanzania Partnership Program

**Mission**<sup>•</sup> To find long-term solutions, build capacity and create collaborations that promote resilient and sustainable communities. To unite development, education and research that boldly pushes the frontiers of knowledge and the role universities play in transforming local communities and the lives of individuals.

#### **Partners:**

- Michigan State University (multiple colleges)
- Institute of Resource Assessment (IRA), University of Dar es Salaam
- Dar es Salaam University College of Education (DUCE)
- Aga Khan Foundation (AKF) and Aga Khan University (AKU)
- Sokoine University of Agriculture (SUA)
- District Governments
- Milola Village, Lindi District, Tanzania
- Naitolia Village, Monduli District, Tanzania

#### Approach:

- Addressing complex problems through an integrated and interdisciplinary approach
- Create an iterative relationship between Development, research and education





## **Transdisciplinary Approaches**

- Focus on complexity in science and in problems
- Accept local contexts and uncertainty
- Assume intercommunicative action: result of intersubjectivity
- Are action oriented: linking knowledge from research with societal decision-making processes
- Embrace knowledge generation and knowledge application research

#### TRANSDISCIPLINARY COMMUNITY CONTEXTS



msuENet: Entrepreneurial Network MSU Hatch: Business accelerator for college students

## **Community Engaged Scholarship and NSF Broader Impacts**

## Benefits to Society

#### i2i: MSU Youth Math-Science-Technology Enhancement System



#### Michigan State University Science Festival & Illustrative Community Partners

Lansing State Journal & Lansing Makers

Science in the City



Information Technology Empowerment Center Lansing Community College iMath and 15 reginal sites Metro Lansing The MSU Science Festival is a terrific opportunity to share enthusiasm about science. We are a learning community of 450,000 people, with teachers, scholars, students, parents, business leaders, workers and government employees who daily are affected by the sciences and technologies that drive the 21<sup>st</sup> century knowledge

## **Community-Based Participatory Research**

 "A collaborative approach to research that equitably involves all partners in the research process and recognizes the unique strengths that each brings. CBPR begins with a research topic of importance to the community and has the aim of combining knowledge with action and achieving social change...."

- WK Kellogg Foundation Community Health Scholars Program

## **CBPR: Learning Provides Connectivity between University and Community**

## • Learning:

- About each other's capacity and limitations
- About each other's goals, culture, expectations
- To develop students as active citizens
- To exchange expertise, ideas, fears, concerns
- To share control and direction
- To share results and apply them in different ways
- To adapt based on evaluation and documentation
- To experiment; to fail; to try again. To Trust

Holland, B. (2012). Community engaged scholarship: Your teaching, research and service "Reconsidered." University of Louisville.

#### The Concept of a Learning City (Region) has its Origins in Reports Advanced by the Organization of Economic Co-operation and Development (OECD, 2002)

A learning city (region) was envisioned as a city where all segments of society shared a commitment to, "promote inclusive learning from basic to higher education, re-vitalize learning in families and communities, facilitate learning for and in the workplace, extend the use of modern learning technologies, enhance quality and excellence in learning; and foster a culture of learning throughout life" (Conference Report: International Conference on Learning Cities, 2014, p. 27).

Fitzgerald, H. E., & Zientek, R. (2015). Learning cities, systems change, and community engagement scholarship. *New Directions in Adult and Continuing Education*. 145,21-33

### **Commonalities and Differences in Key Aspects of Community Engagement Scholarship (CES) and Learning Cities/Regions (LC/Rs)**

- CES
- Life span
- Evidence based
- Authentic partnerships
- Systems Change (Systems focus)
- Education
- Government
- Business
- Civil society
- Sustainability
- Systems change models
- Co-creation of knowledge
- Data driven decision making
- Impact metrics
- Focus on scholarship
- Discovery: new knowledge
- Application: scaling up
- Learning
- Dissemination (outreach)
- Innovation
- Democratization of Knowledge
- Equity and Social Justice

#### LC/Rs

Life span Place based Individual and organization learning Systems Change (Economic focus) Education Government Business Civil society Sustainability Systems and networks formation

Learning Dissemination (outreach) Innovation Democratization of knowledge Equity and Social Justice

## **NSF Broader Impacts and Community Engagement Scholarship**

#### Benefits to society

- Co-creation of knowledge
- Sustainable transfer of knowledge
- Generates true empowerment approaches to community development
- Creates mutually beneficial outcomes
- Creates public support for solution-focused partnerships
- Creates public support for PreK/12 educational improvements
- Potentially involves (impacts) whole community (diffusion)
- Creates transdisciplinary partnerships
- Creates startup companies, product improvements, innovation, and workforce development programs
- Enhances quality of research and evaluation
  - Implementation and fidelity
  - Reliability and validity
  - Diffusion and dissemination

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