

## **Ten Successful Characteristics of Broadening** Participation of our Integrated Program

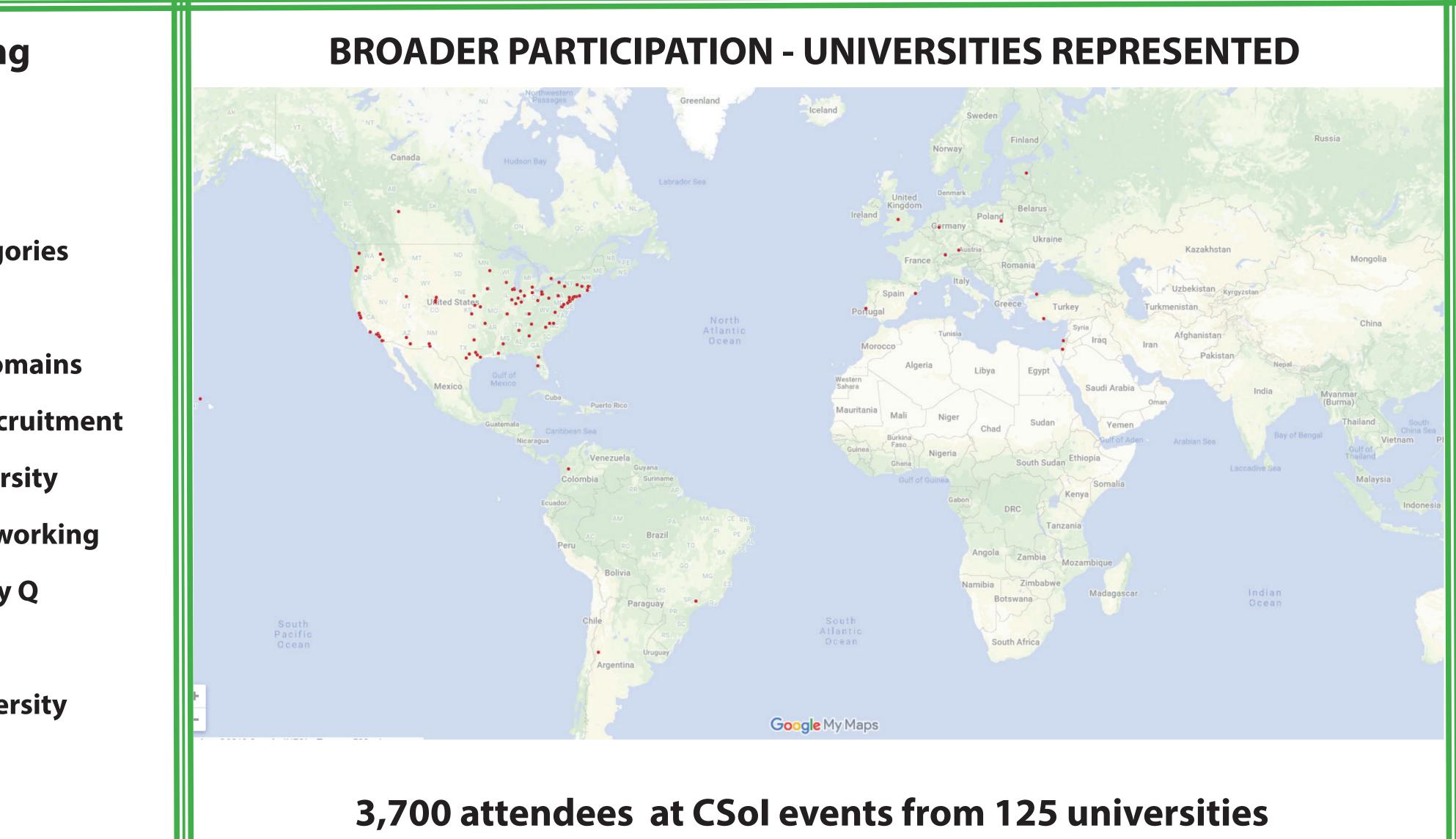
- Integrated education and diversity programs
- Broad definition of diversity moving beyond traditional categories
- Promoting leadership roles for underserved participants
- Recruiting participants from diverse range of programs and domains
- Center-wide participation relieving MSI's of full burden for recruitment
- Top down messaging frequent reminders from admin on diversity
- Effective online presence curriculum for all, social media, networking
- "Getting in the habit" training participants to ask the diversity Q
- Conduct annual demographic and diversity census
- Faculty involvement charging with small tasks advancing diversity

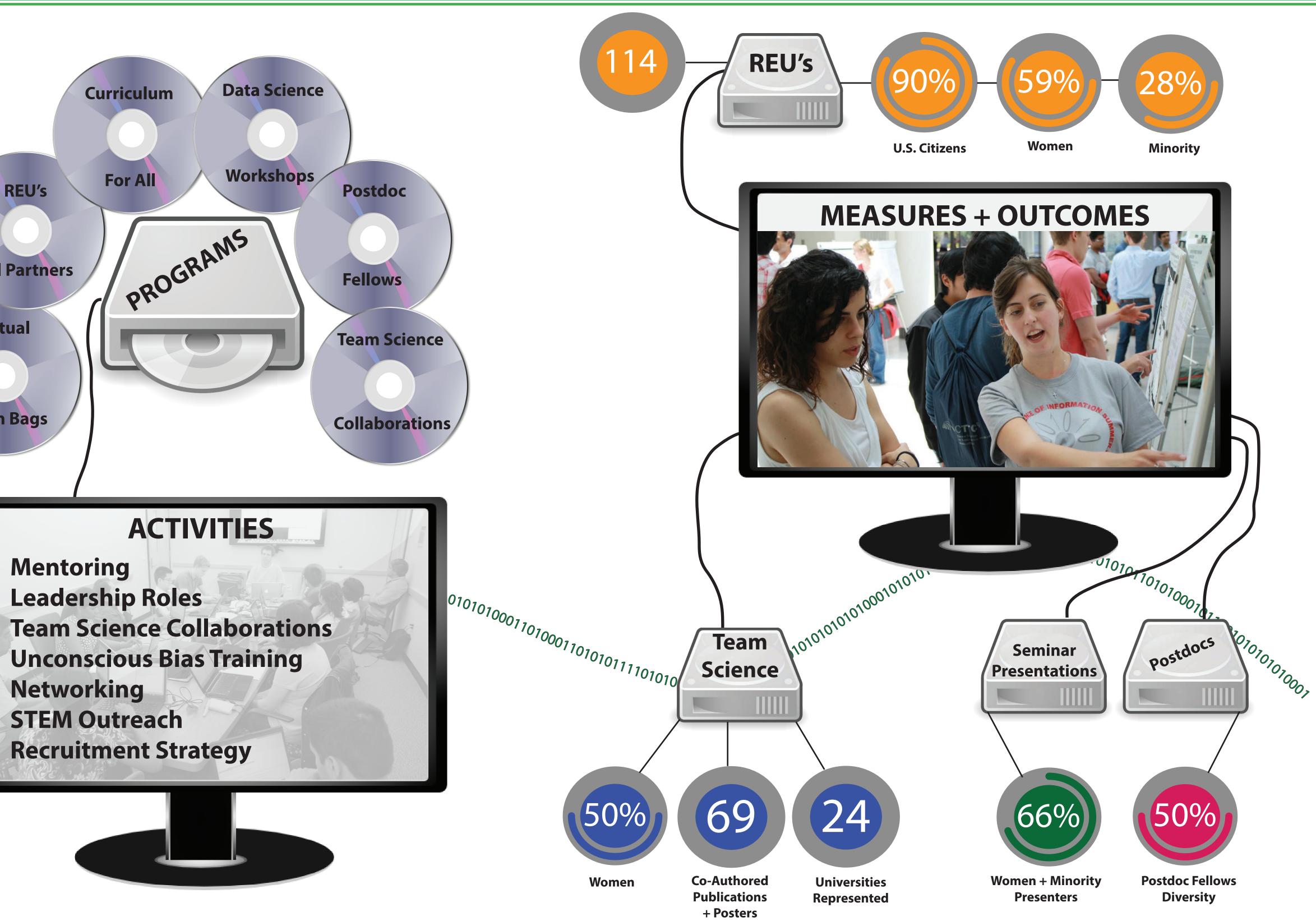
# **Broader Impacts of the Information Frontiers Integrated Education and Diversity Program**

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## **Develop Educational Initiatives** Programs & elivery Mechanisms **REU's** Advanced Courses, Modules, Topic Examples **All Partners** Aodules, Topic Examples **Virtual CHALLENGES + OPPORTUNITIES** Drown Dags Graduate: phD Graduateline 7% 4% CS&EE\* Women Minority

SOURCES: NCSES: https://nces.ed.gov/ipeds/, NSF WMPD REPORT: https://www.nsf.gov/statistics/2017/nsf17310/ ASEE Report: https://www.asee.org/papers-and-publications/publications/college-profiles/15EngineeringbytheNumbersPart1.pdf





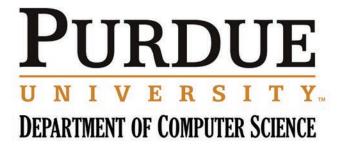
## **Related Communications**

(Ladd) 2018. Science of Team Science National Conference, Galveston, TX "Broadening Participation in the Science of Information." (Ladd & Andronicos) 2018. NSF INCLUDES Summit, Washington D.C. "Best Practices in Education and Diversity at NSF Science and Technology Centers" "Charting a Course into the Science of Information" "How to Grow Researchers: A Fresh Perspective on Graduate Student Collaboration" (Redington & Ladd) 2016 Available on the CSoI website: http://soihub.org (Main & Schimpf) 2017 IEEE Transactions on Education (Schimpf, Andronicos, & Main) 2015 Frontiers in Education Conference Proceedings



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**Discovery** Park

## **Additional Partners**

Diversity Resource Office (Purdue)

- Computer Science Department Diversity Office (Purdue)
- EAFIT University (Colombia) Engineering Education Department (Purdue)
- IDEA Engineering Student Center (UCSD)
- IEEE Information Theory Society
- National Alliance for Doctoral Studies in the Mathematical Sciences
- University Libraries and School of Information Studies (Purdue)

"Case Study of Interdisciplinary Student Research Teams: Factors, Outcomes, and Lessons Learned."

- (NSF STC Education and Diversity Directors) 2014 Available on the CSol Website: http://soihub.org
- (Redington & Andronicos) 2015 Available on the CSol website: http://soihub.org
- "The Underrepresentation of Women in Computing Fields: A Synthesis of Literature Using a Life Course Perspective"
- "Using Life Course Theory to Frame Women and Girls' Trajectories Toward (Or Away) from Computing"

### Contacts

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