NIS BRE

NIH, NIGMS Seventh Biennial National IDeA Symposium of Biomedical Research Excellence

June 24-26, 2018 Wardman Park Marriott Washington, D.C.



SEPA and INBRE: Smart Kids and Smart Partnerships

Tony Beck, Ph.D., NIGMS Rashada Alexander, Ph.D., NIGMS Maurice Godfrey, Ph.D., U. Nebraska, Omaha Rob Rockhold, Ph.D., FAPE, U. Mississippi Medical Center, Jackson Michèle Shuster, Ph.D., New Mexico State University Las Cruces





"NIGMS Science Education Partnership Award (SEPA) program – social and economic benefits of STEM education for early learners



Health & Medicine Workforce





Genesis:

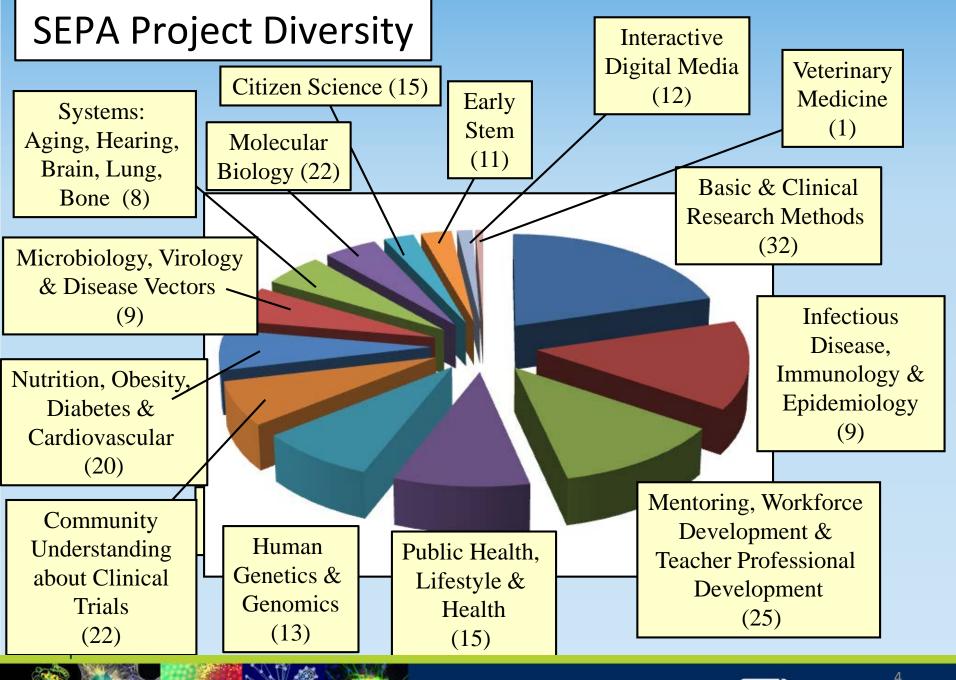
 Increase the numbers of urban, rural and minority students considering research and medical careers

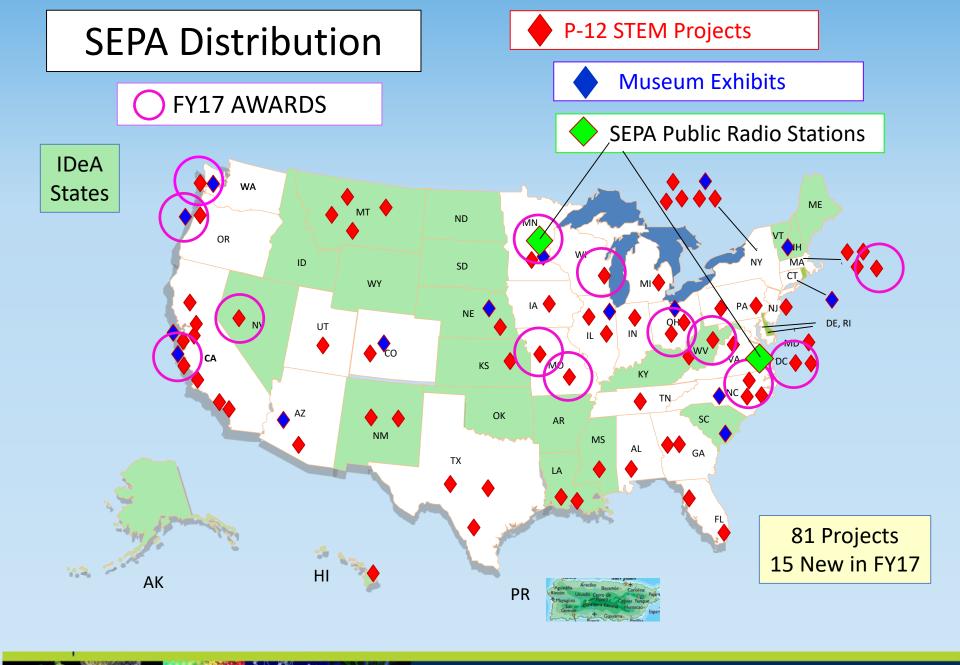
Partnerships:

 Scientists and clinicians partnering with educators, community organizations and science centers

Goals:

- Career opportunities for minority and underserved pre-K to grade 12 (P-12) students
- P-12 teacher professional development
- Public health literacy





SEPA FOA (PAR-17-339)

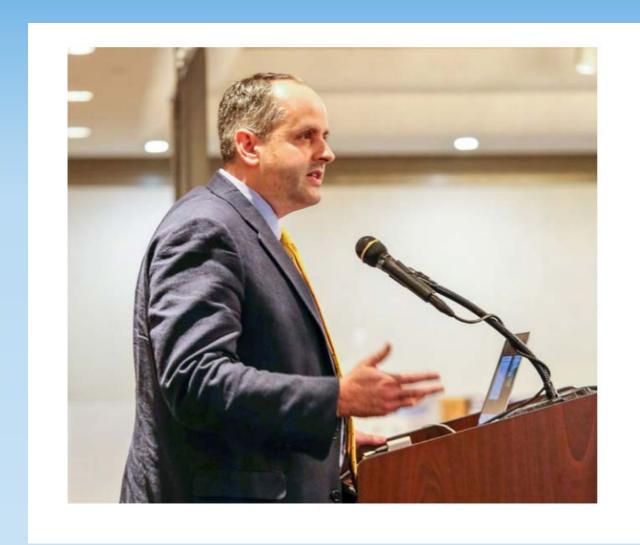
- R25 Research Science Education
 - \$250K, 8% F&A
 - 5 Years X \$270K (\$1.35M)
 - Next receipt date July 9, 2019
- 1 SEPA/Institution (defined by unique EIN)
- Topic any area of NIH-funded research
- Target Audience students, teachers, community
- Partnerships/Collaborations required
- Rigorous Evaluation Plan required
- Logic Model required
- Advisory Committee recommended











Jon Lorsch Keynote at 2017 SEPA PI Conference





Training, Workforce Development & Diversity Programs Graduate Postdoctoral Research Career P-12 Undergraduate IDeA: INBRE and COBRE; NARCH SEPA SCORE NRMN MARC NRSA-T32 & F32 NRSA-T32 NRSA-Fs U*STAR **PREP BRIDGES** BRIDGES **IRACDA** K99 → R00 RISE Career Dev. **IMSD** BUILD

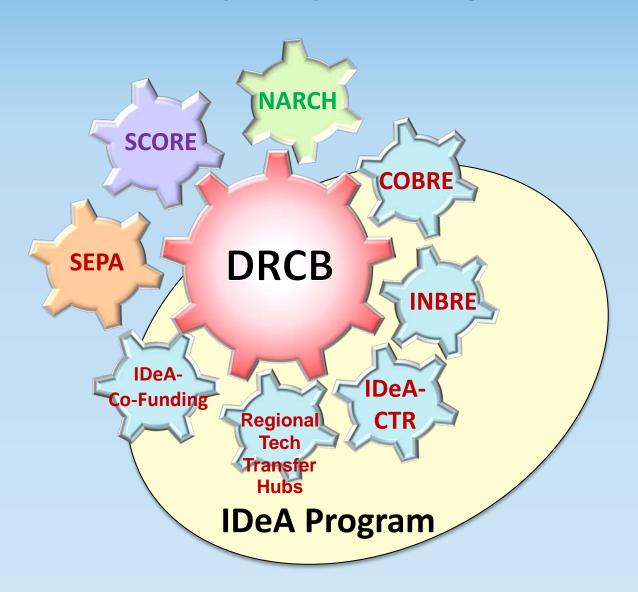
Developing a highly skilled, creative and diverse biomedical research workforce

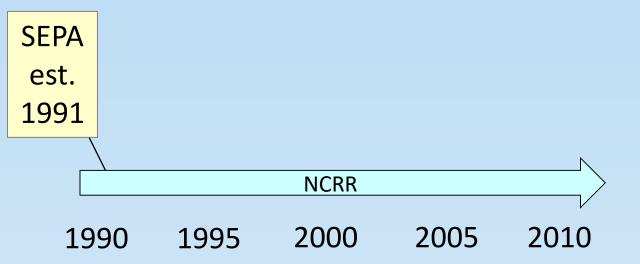
Dr. Jon Lorsch, Keynote at 2016 NIH SEPA PI/SciED Conference

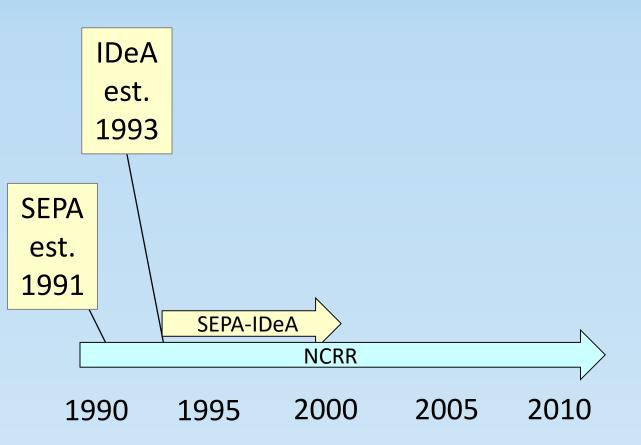
Division for Research Capacity Building (DRCB)

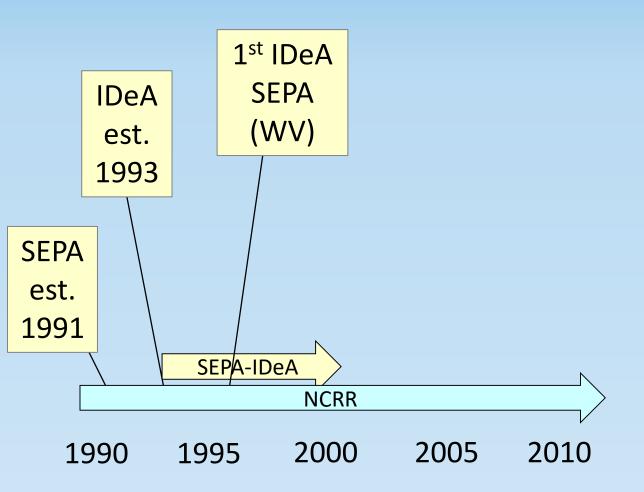


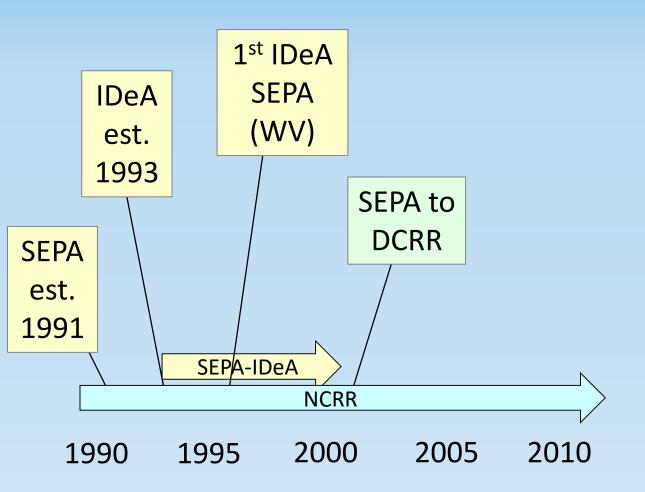
Fred Taylor Director, DRCB

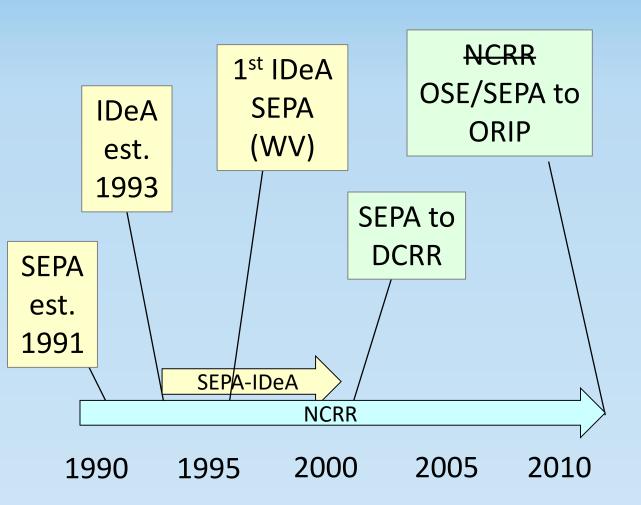


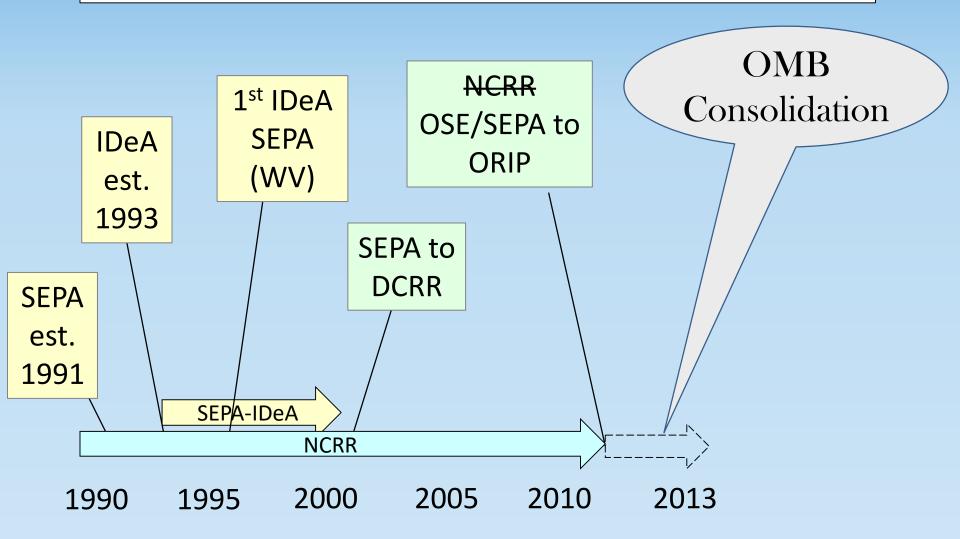


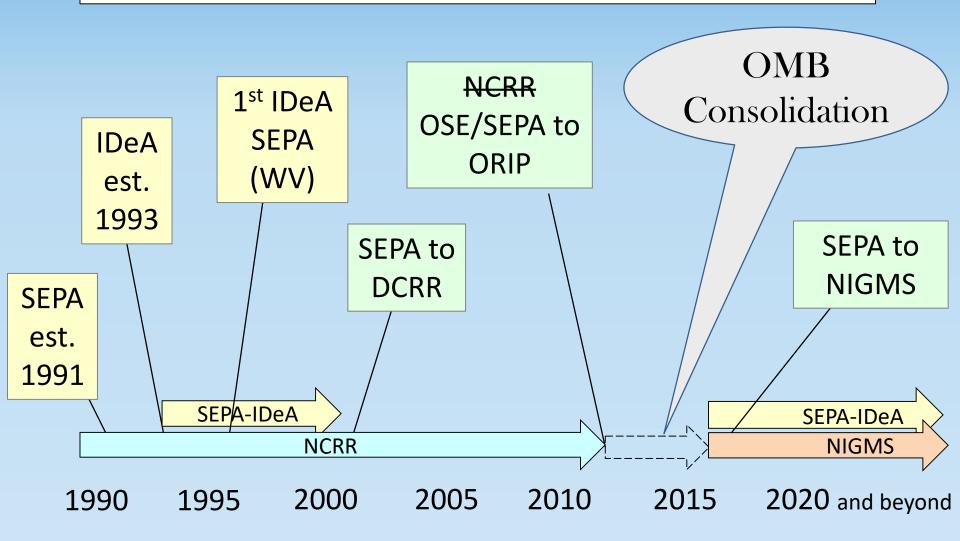








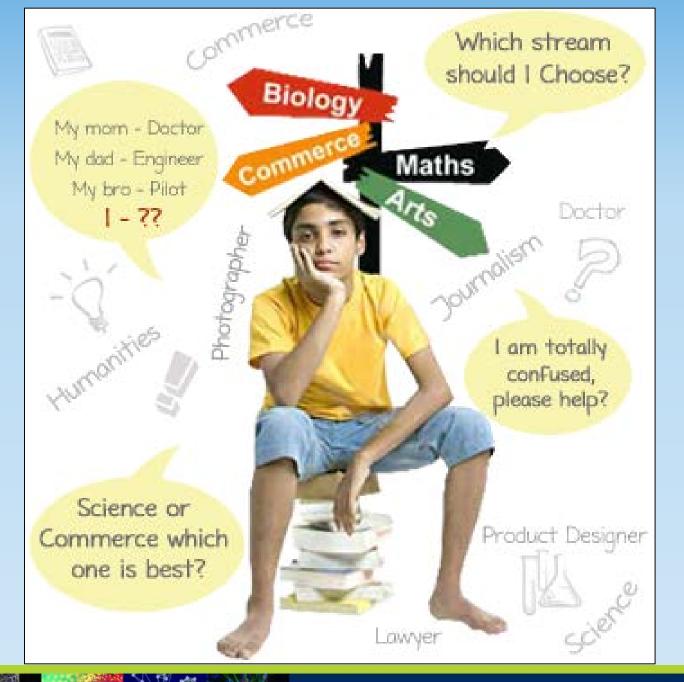




Training, Workforce Development & Diversity Programs Graduate Postdoctoral Research Career P-12 Undergraduate IDeA: INBRE and COBRE; NARCH SEPA SCORE NRMN MARC NRSA-T32 & F32 NRSA-T32 NRSA-Fs U*STAR **PREP BRIDGES** BRIDGES **IRACDA** K99 → R00 RISE Career Dev. **IMSD** BUILD

Developing a highly skilled, creative and diverse biomedical research workforce

Dr. Jon Lorsch, Keynote at 2016 NIH SEPA PI/SciED Conference



"Creativity is broadly distributed. Opportunity is not."



Lost Einsteins: The Innovations We're Missing



David Leonhardt

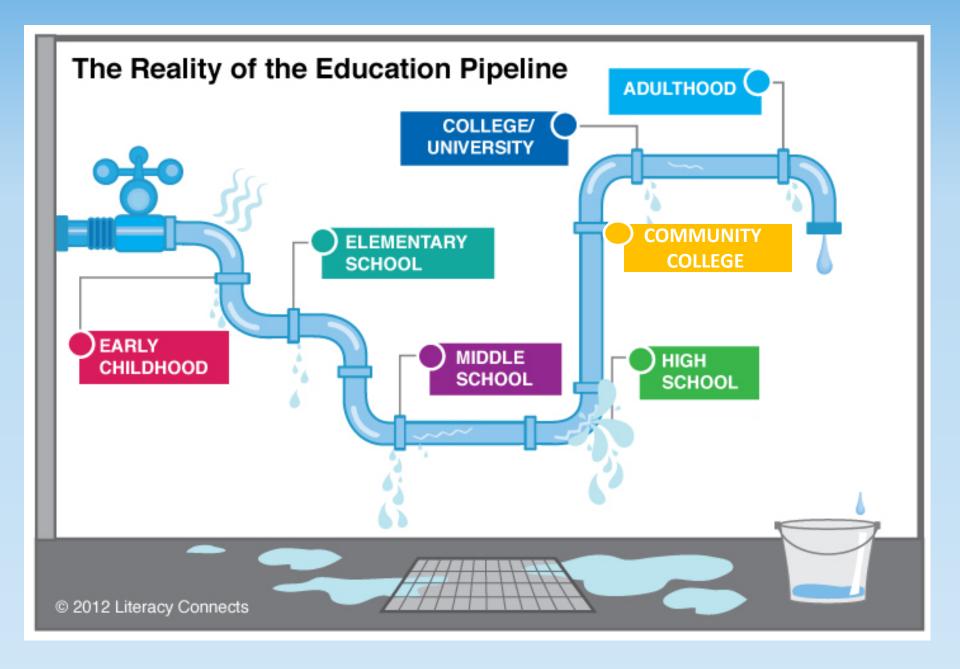
DEC. 3, 2017

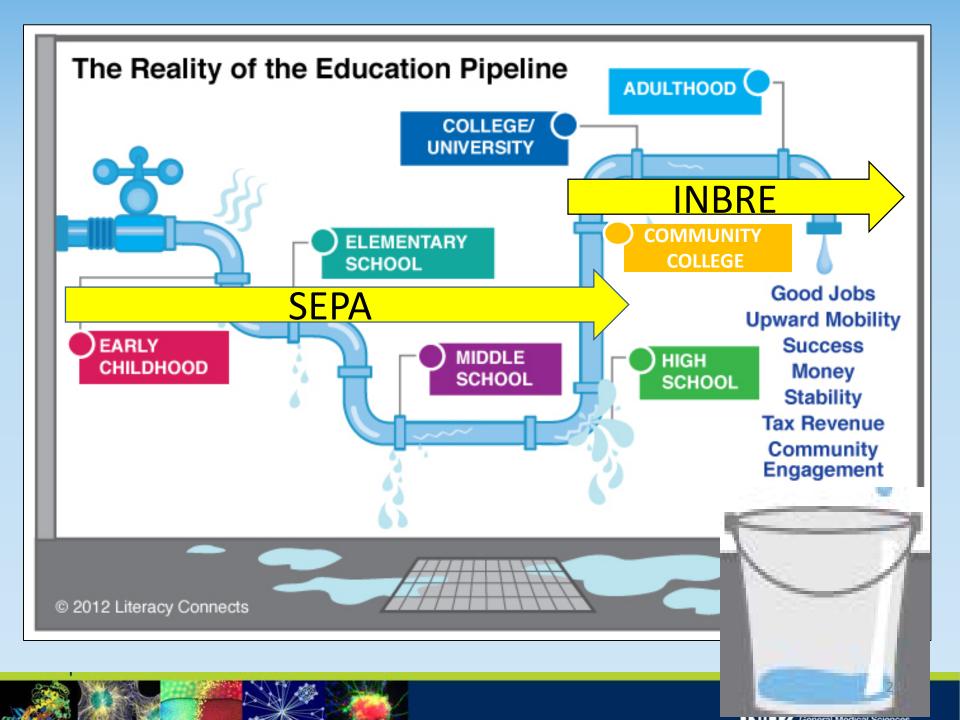
The New York Times

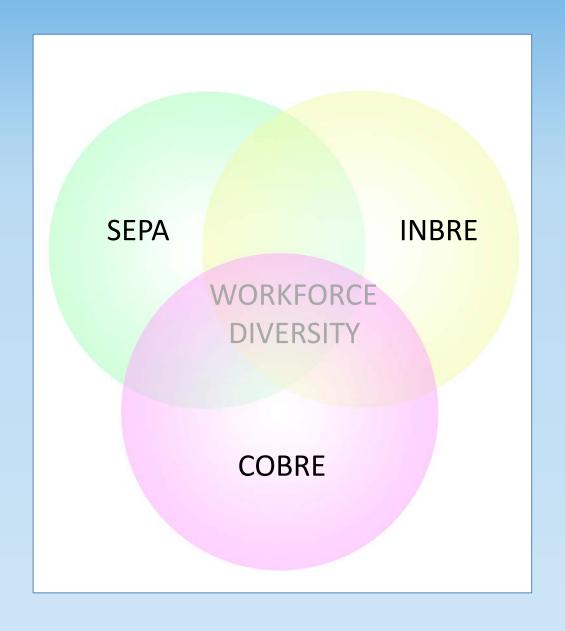
"Lost Einsteins" - people who could "have had highly impactful innovations" if they had been able to pursue the opportunities they deserved"

- ✓ Women, African-Americans, Latinos, Southerners, and lowand middle-income children are far less likely to grow up to become patent holders and inventors.
- ✓ Our society appears to be missing out on most potential inventors from these groups.
- ✓ These groups together make up most of the American population.

America's "lost Einsteins": The importance of exposing children to innovation Raj Chetty, Richard V. Reeves, and Adrianna Pita

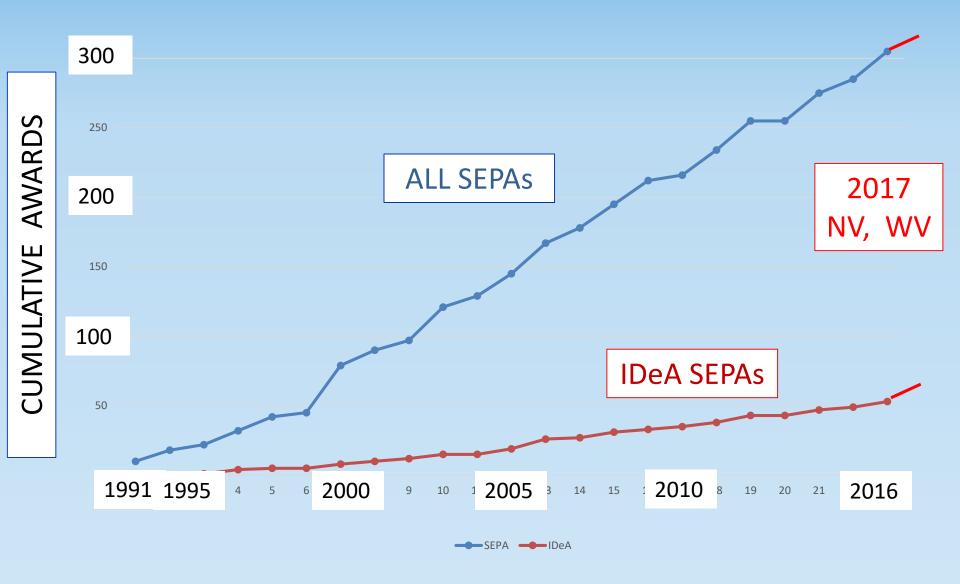


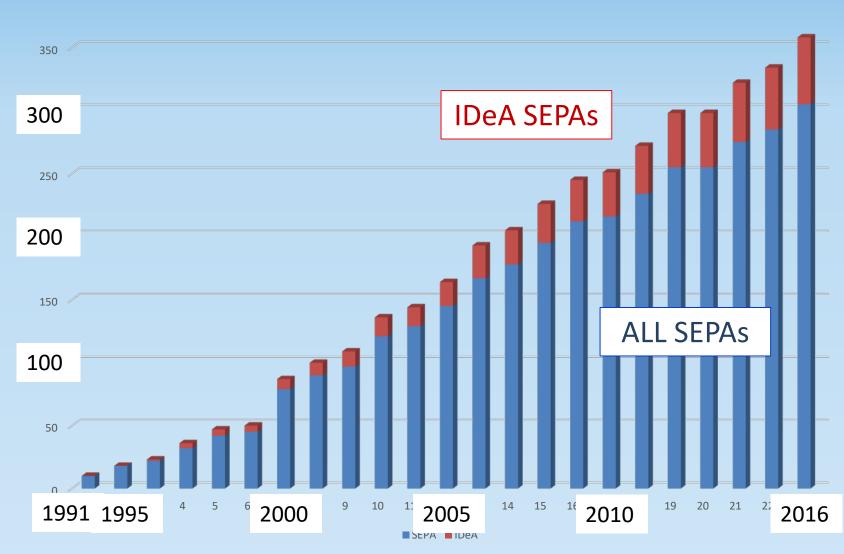






350





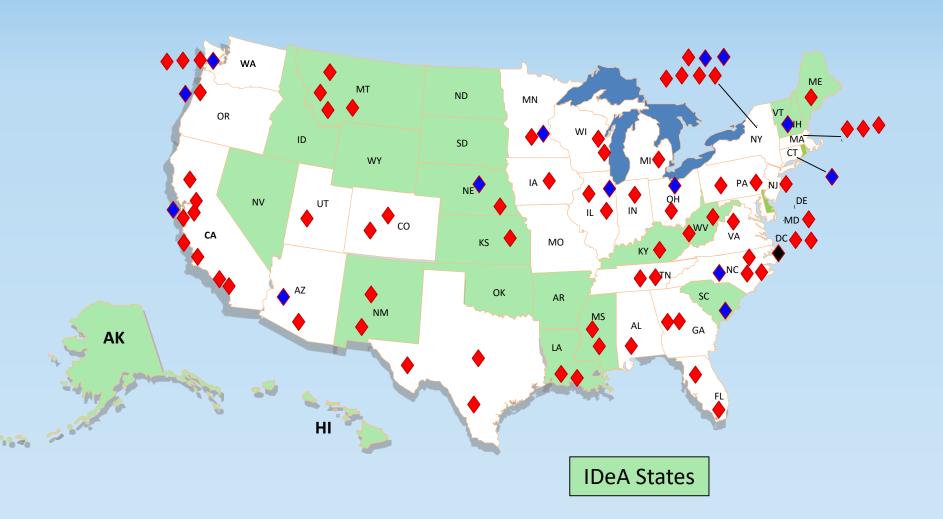
SEPA Projects



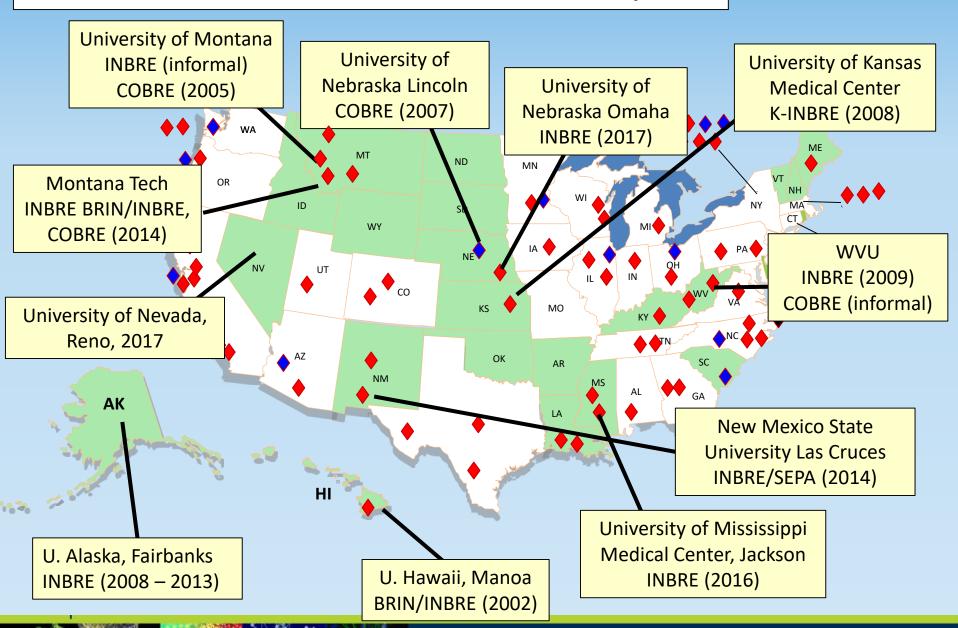
SEPA P-12 STEM Projects



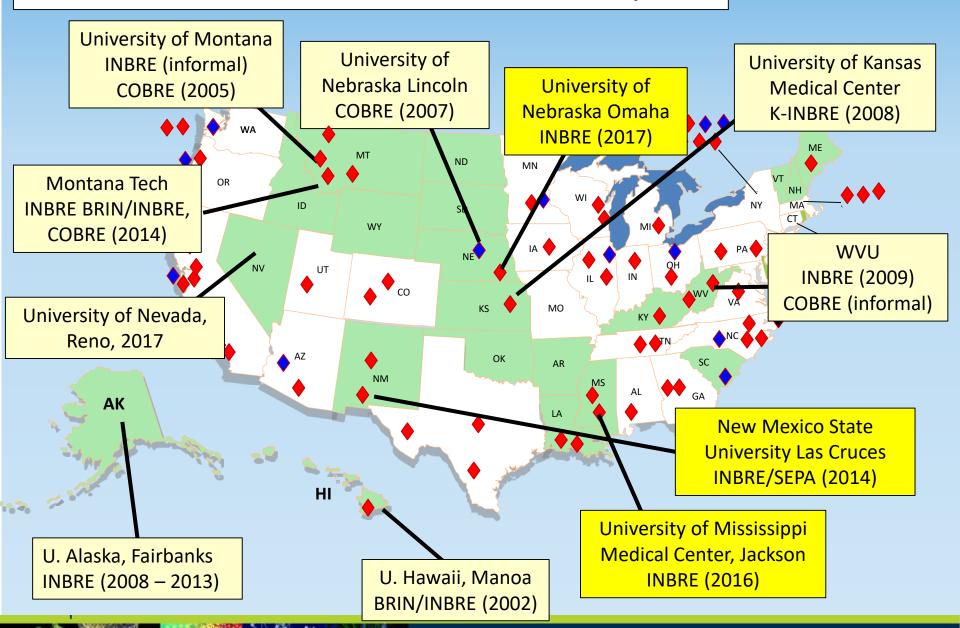
SEPA Museum Exhibits

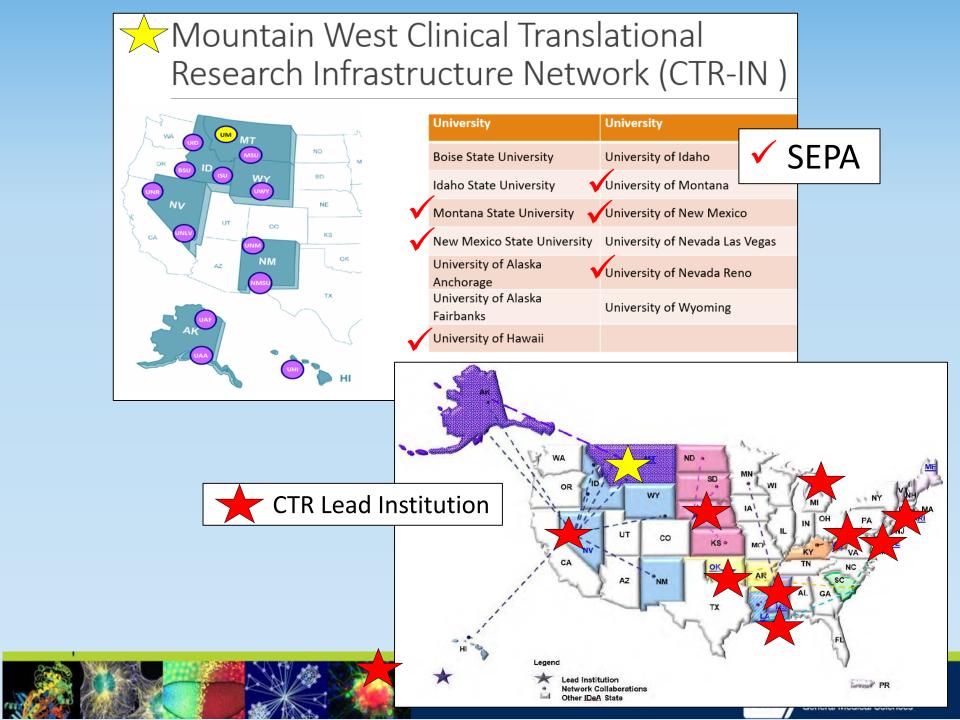


SEPA/INBRE & COBRE Partnerships

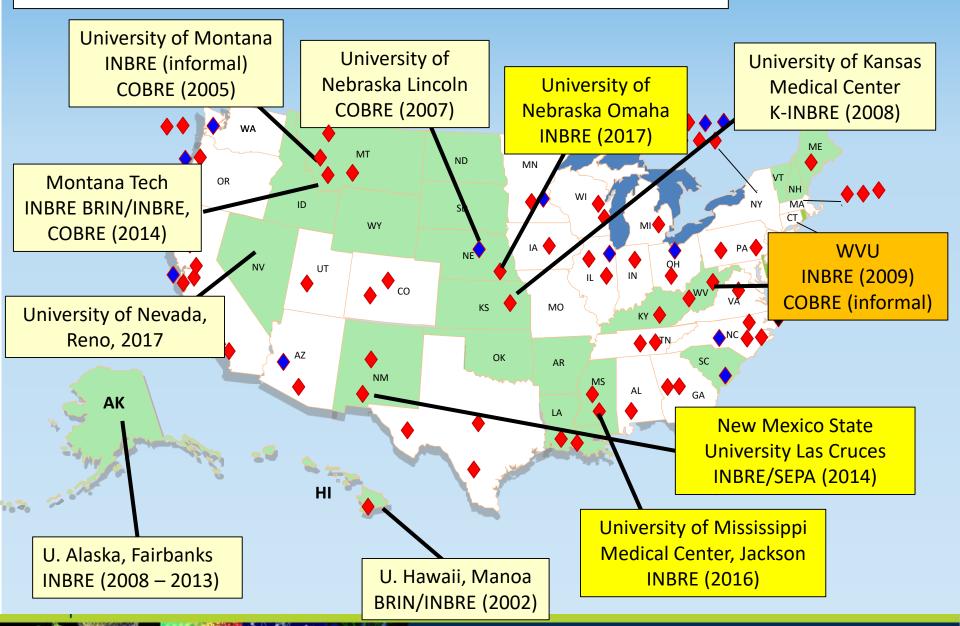


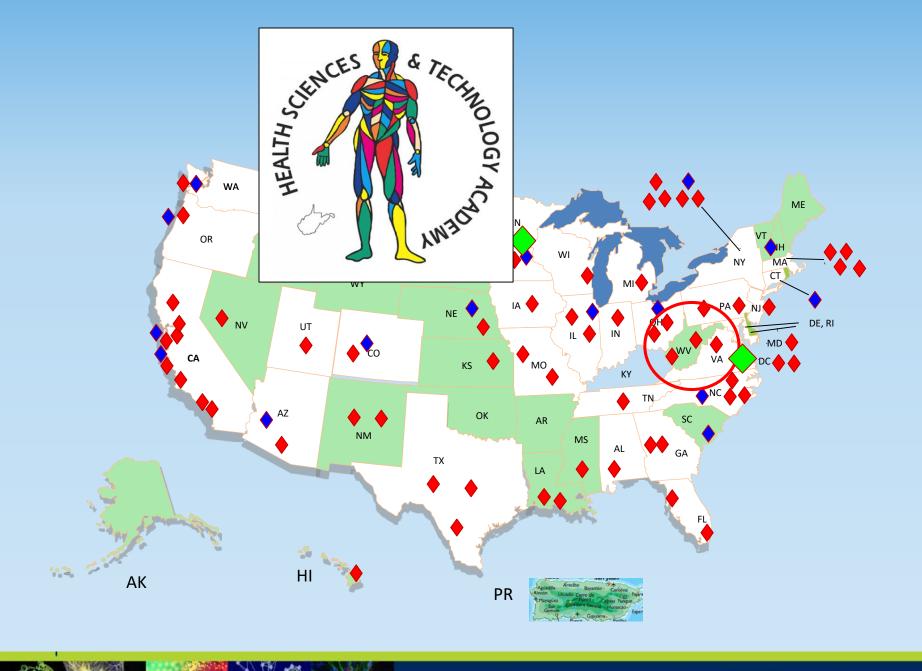
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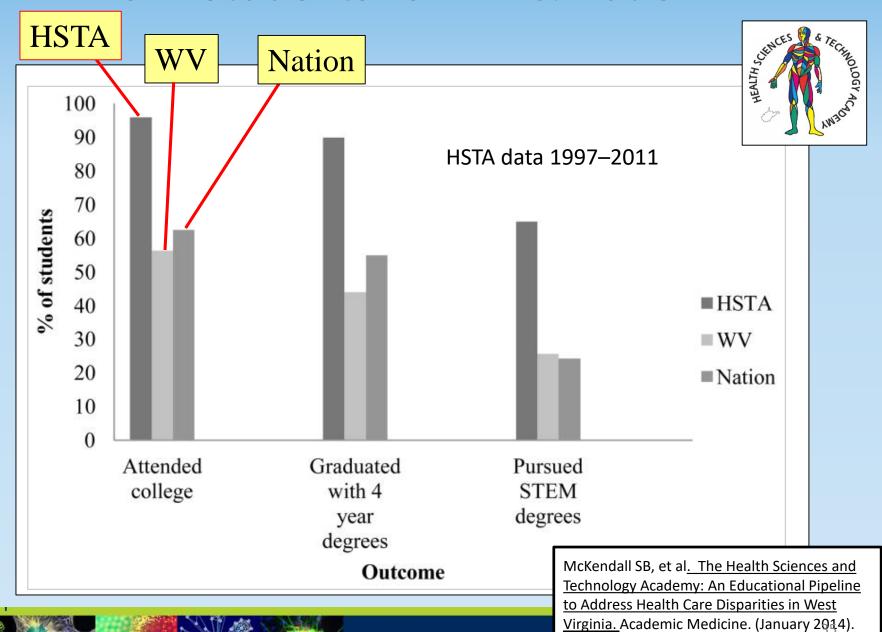
Teaching to Learn: West Virginia SEPA Students
Take CBPR to Their Community



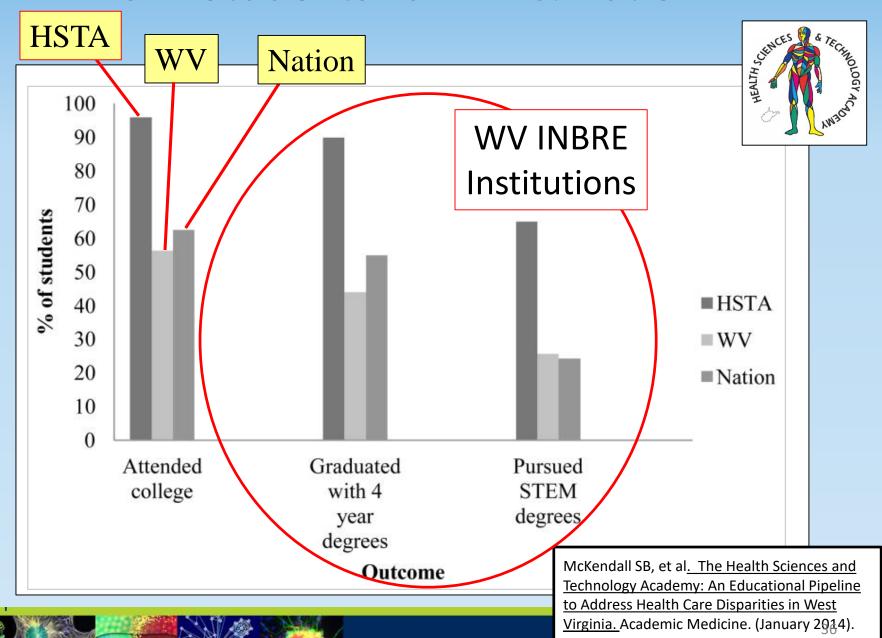
HSTA outcomes:

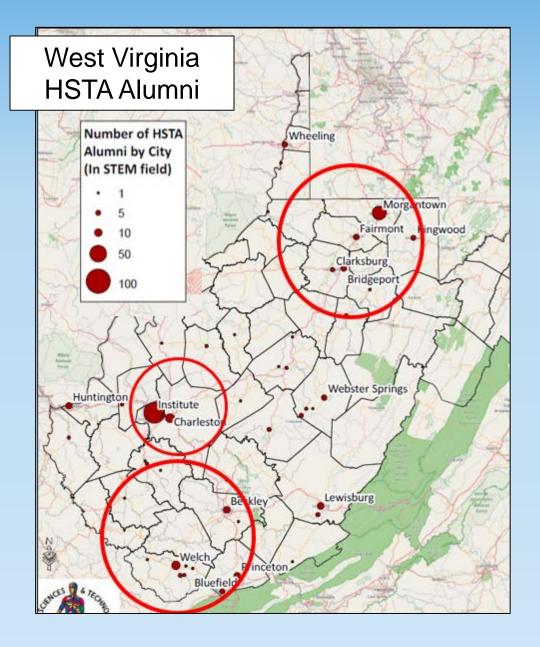
- 2,049 students have graduated from HSTA 1998-2014
- 99% of those students went to college
- 90% of HSTA students graduate with a four-year degree or better

HSTA Students vs. WV & Nation

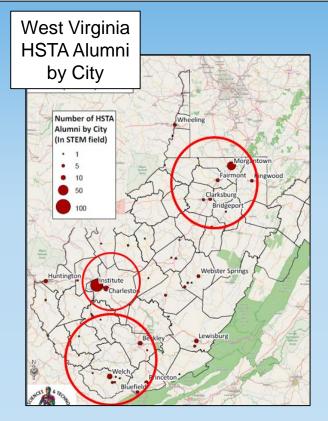


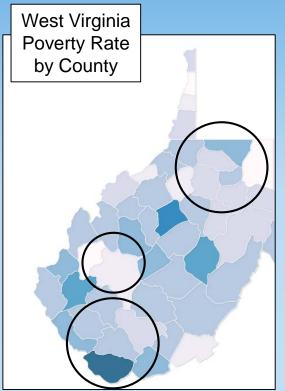
HSTA Students vs. WV & Nation

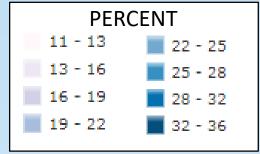




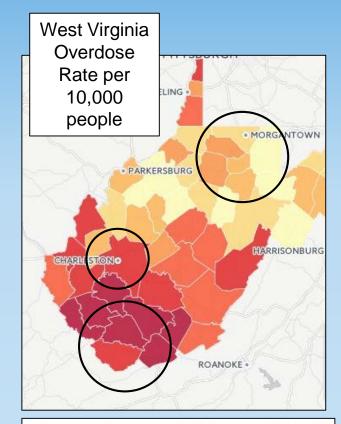








https://www.indexmundi.com/facts/unitedstates/quick-facts/west-virginia/percent-ofpeople-of-all-ages-in-poverty#map





OVERDO SE RATE PER 10,000 PEOPLE 2007-2012

44 OVERDOSES

1 OVERDOSE





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- 1. Study SEPA FOA
- 2. Visit SEPA website, https://nihsepa.org/
 - Search by
 - Topic
 - Target Audience
 - Applicant Organization
 - SEPA Projects by Funding Year
 - Annual SEPA PI Conference Reports

