



Coming Together to Prototype Innovation: Museums Educating Afterschool Providers in STEM and Making

Paula Gangopadhyay, Deputy Director,

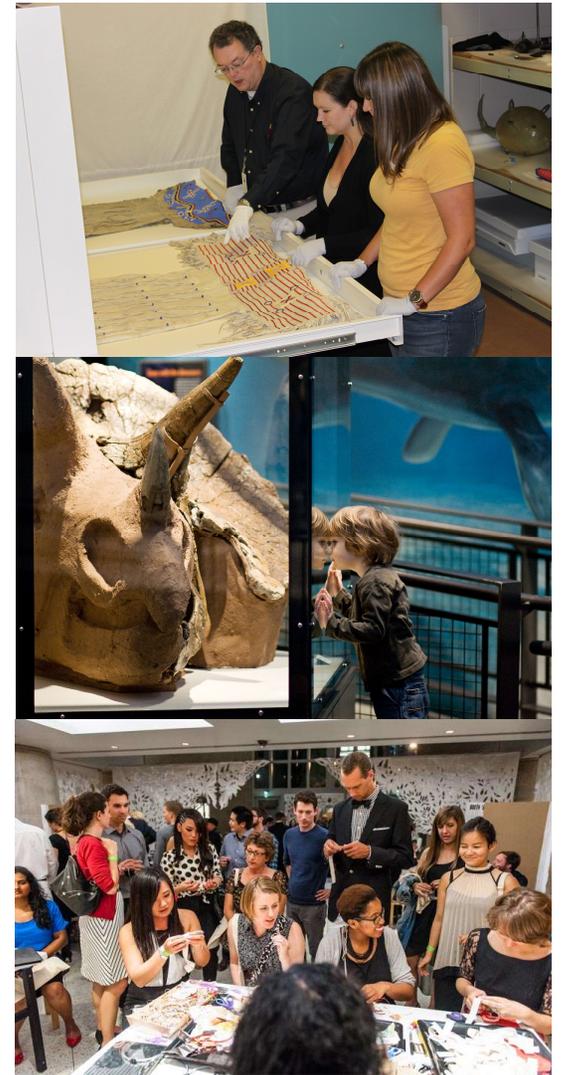
Office of Museum Services, IMLS

21st Century Community Learning Centers Summer Symposium, Washington D.C.

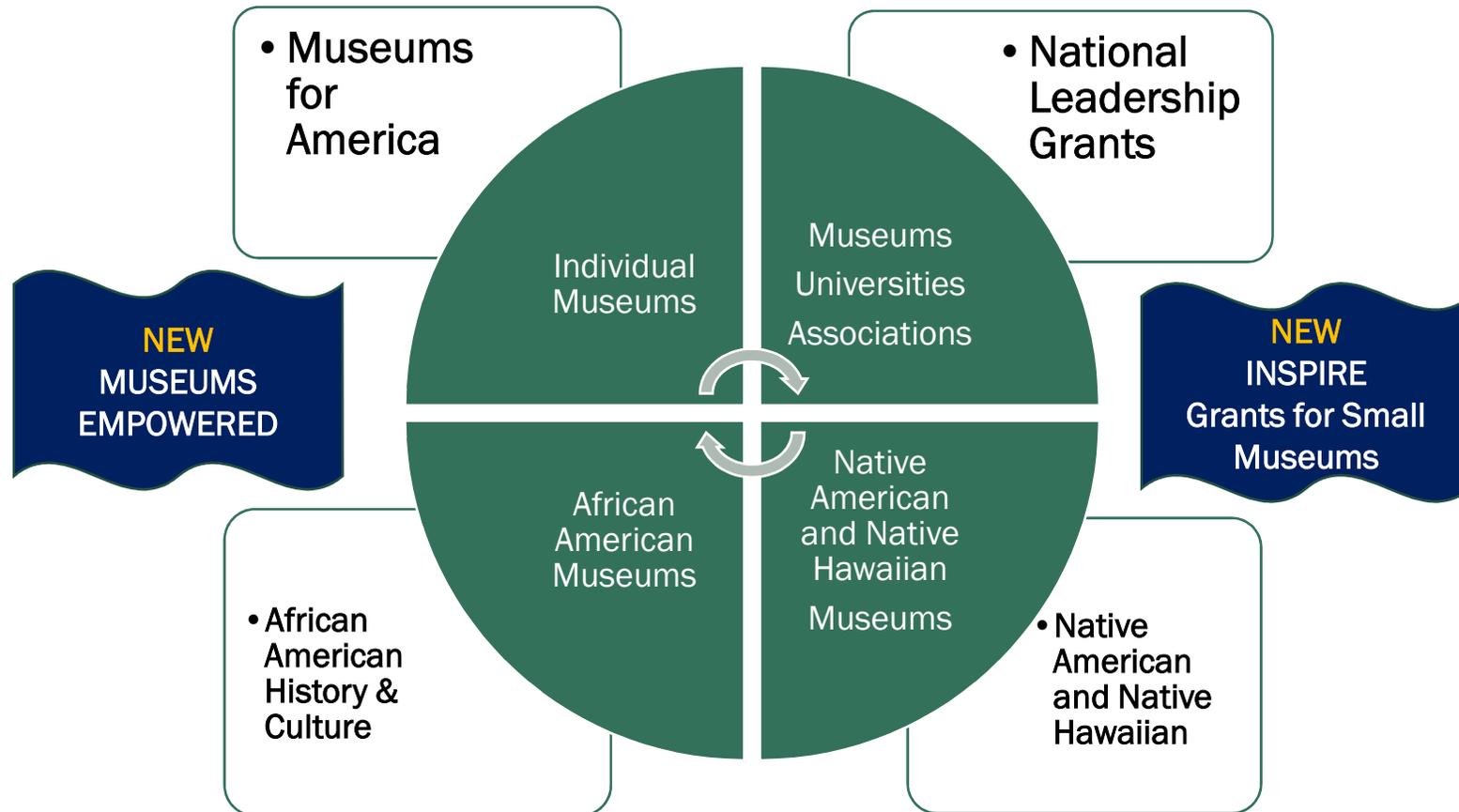
July 17, 2019

What is IMLS?

- IMLS is the primary source of federal support for the nation's libraries and museums.
- Grants vary by program but includes museums, libraries, colleges and universities; organizations that serve museums; federally recognized Native American tribes; organizations that serve Native Hawaiians.



IMLS MUSEUM GRANTS

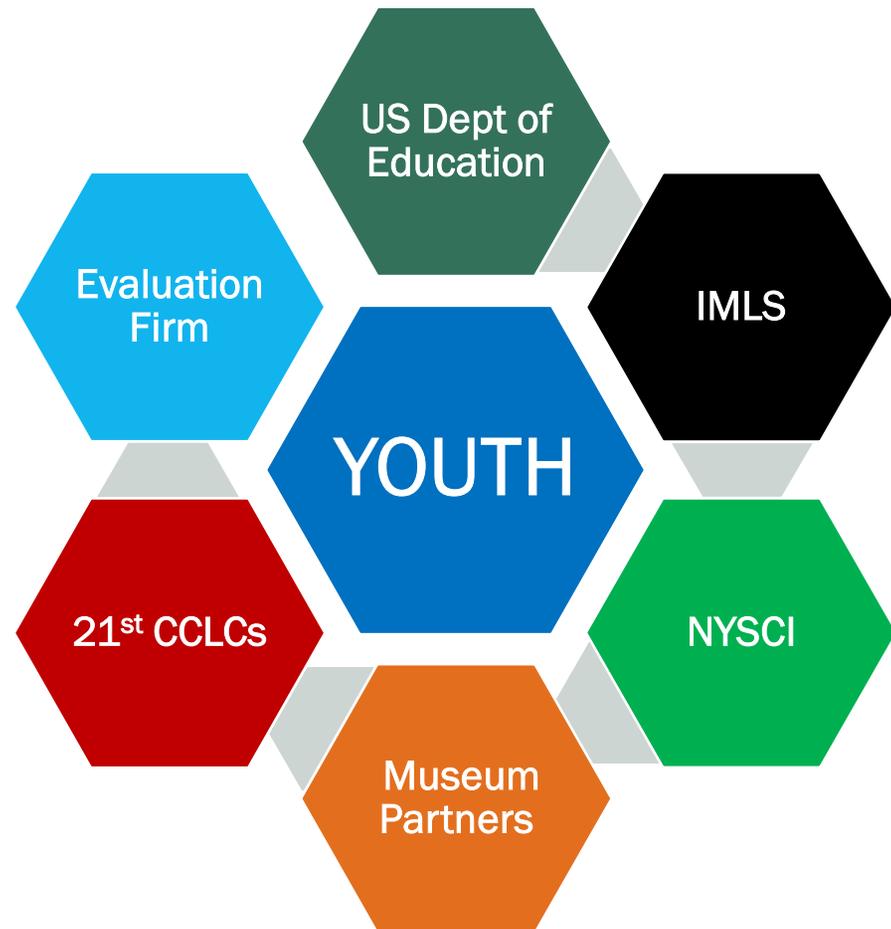




The IMLS STEM and Making Project

- Interagency agreement between the Institute of Museum and Library Services (IMLS) and the U.S. Department of Education (ED).
- Brings together science centers, children's museums, and afterschool providers to leverage each other's complementary strengths and collaborate as co-facilitators of learning to benefit their communities.
- In 2019, this project will involve 8 museums who will work with the educators at 40, 21st CCLC sites to engage and impact up to 1000 students.

The Collective Impact Model





**ScienceWorks Hands-On Museum
Ashland, OR**

**Betty Brinn Children's Museum
Milwaukee, WI**

**New York Hall of Science
New York, NY**

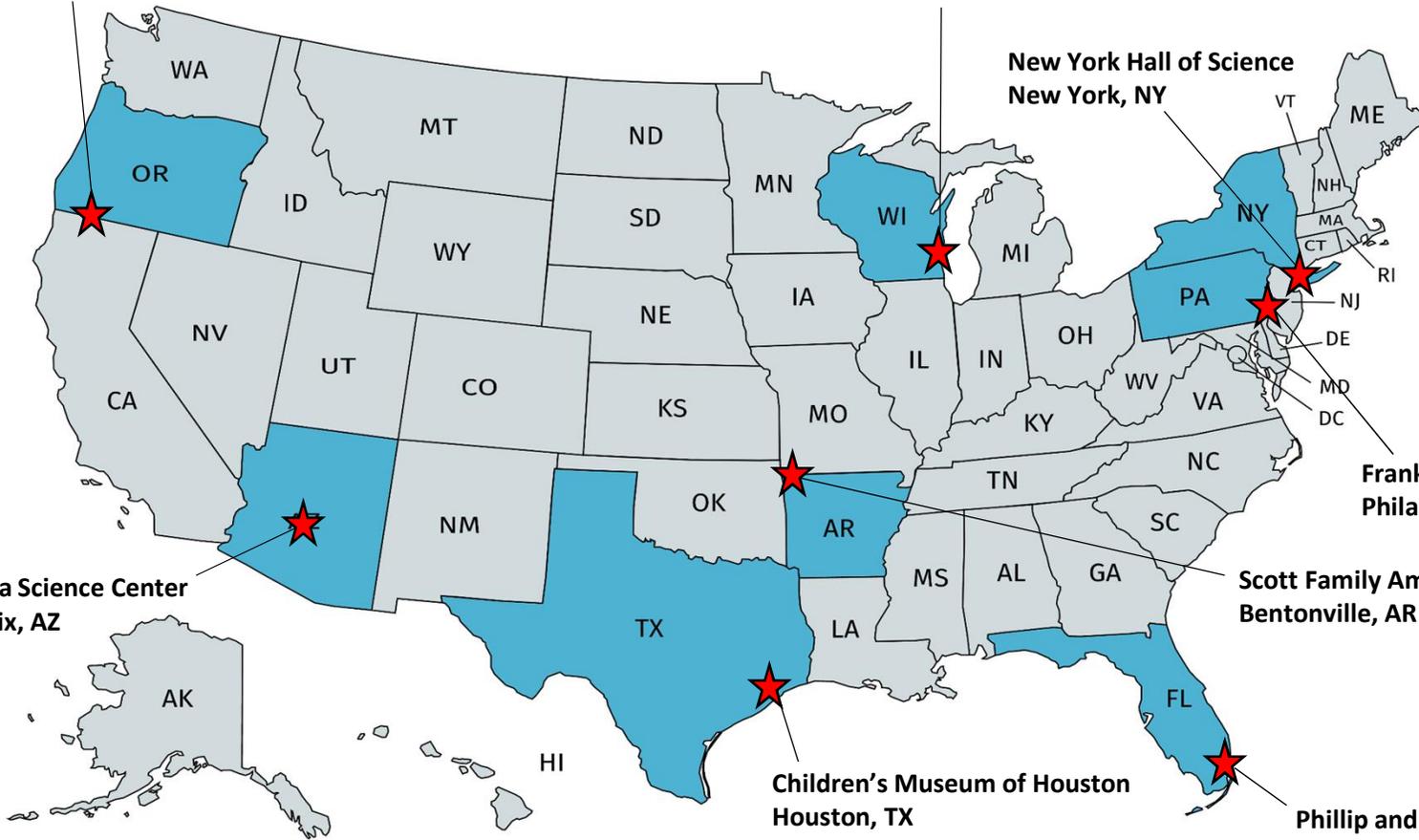
**Franklin Institute
Philadelphia, PA**

**Arizona Science Center
Phoenix, AZ**

**Scott Family Amazeum
Bentonville, AR**

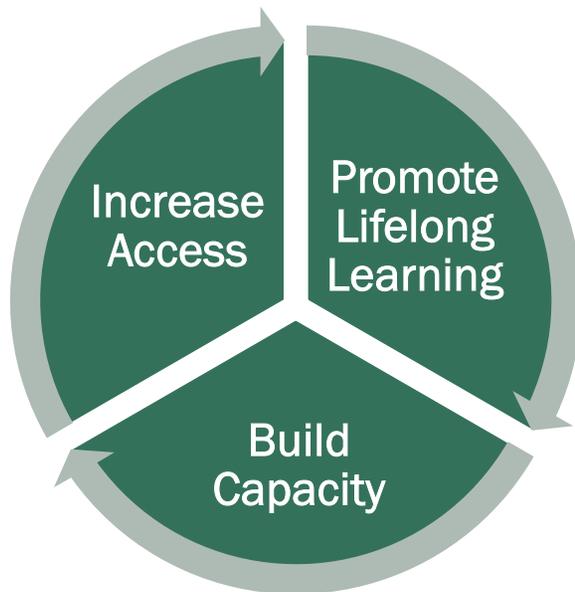
**Children's Museum of Houston
Houston, TX**

**Phillip and Patricia Frost
Museum of Science
Miami, FL**

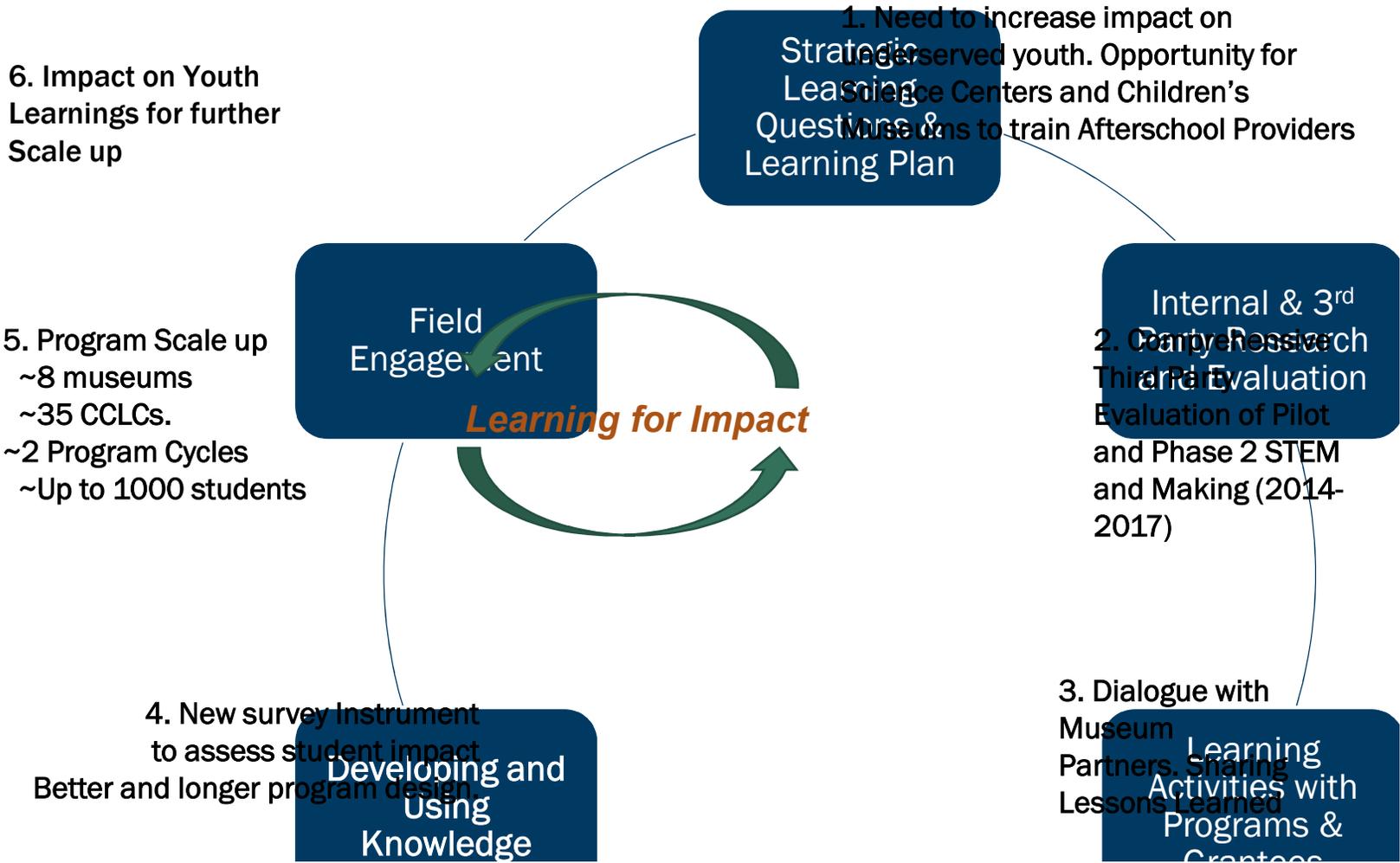


Alignment with Agency Goals

IMLS Strategic Plan Goals:



**IMLS PROJECT IS A
NATIONAL SCALE UP (2014-2019)**





Implementation Facts

New York Hall of Science (NYSCI) is the lead museum for this national project. They are:

- Providing the Curriculum and Materials
- Training the Seven Museum Partners (onsite and online) who will then train the 21st CCCLC staff to offer the program to youth
- Coordinating Selection of the CCLC Sites
- Working with the third-party evaluators to gather information and data
- Implementing the activities at their own site and coordinating the program execution at all seven sites
- For further information on how to get involved in this project, please contact:
 - **Sylvia Perez: sperez@nysci.org**
 - **David Wells: dwells@nysci.org**

EVALUATION

This project includes a formal evaluation led by Education Development Center Inc. (EDC) to document the opportunities, challenges, and infrastructure needs of program implementation.

The evaluator will also examine outcomes for the youth participants, and benefits from the project for both the afterschool sites and museums.



Maker/STEM Education Support for 21st Century Community Learning Centers: Evaluation Report

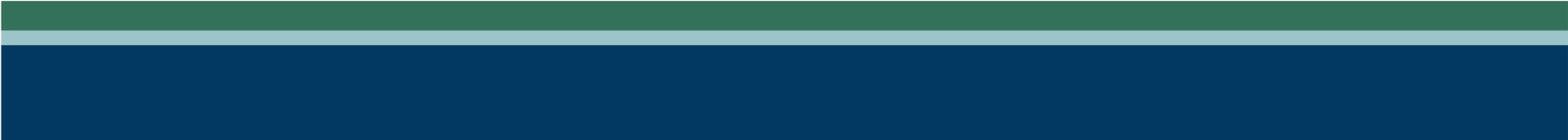


Erin Stafford, M.A.
Sara Greller, M.S.
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Leslie Goodyear, Ph.D.

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Photo Credits:

- Slide 2: (Top Image) Eiteljorg Museum of American Indians and Western Art curators, James Nottage and Ashley Holland and registrar Christa Barleben (left to right), look at some Native American textiles in an oversize cabinet in the museum's vault. The IMLS grant will support storage improvements at the Indianapolis, Indiana, museum. Photo courtesy of Eiteljorg Museum of American Indians and Western Art. Used with permission.
 - Slide 2: (Middle Image) A young visitor gets up-close to a Triceratops fossil at the Burke Museum of Natural History and Culture in Seattle, WA. Photo by Carol Swales. Photo courtesy of the Burke Museum of Natural History and Culture. Used with permission.
 - Slide 2: (Bottom Image) SAM engages young adults and its community through curated experiences. Photo courtesy of the Seattle Art Museum. Used with permission.
 - Slide 7: Young guests take part in a hands-on activity at one of Pacific Science Center's Discovery Carts. Seattle, WA. Photo Courtesy of the Pacific Science Center. Used with permission.
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