Building Evaluative Capacity of Out-of-School Organizations that Engage Girls in Computer Science

Google

National Girls Collaborative Project

Haynie Research and Evaluation

Our Mission

Out-of-school organizations face barriers to program evaluation such as staff knowledge, skills, tools, and resources. **CS Outreach Program Evaluation Network (CS OPEN)** was started in 2015 to build the evaluative capacity of nonprofits.

Our Work

A guided network of practice offering participants:
- Monthly community meetings with range of evaluation topics: logic modeling, qualitative analysis, instrumentation, data visualization

Computer Science Outreach Program Evaluation Network (CS OPEN) **Community Meeting March 2016**

NATIONAL GIRLS COLLABORATIVE PROJECT

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- Individualized evaluation support/consultation
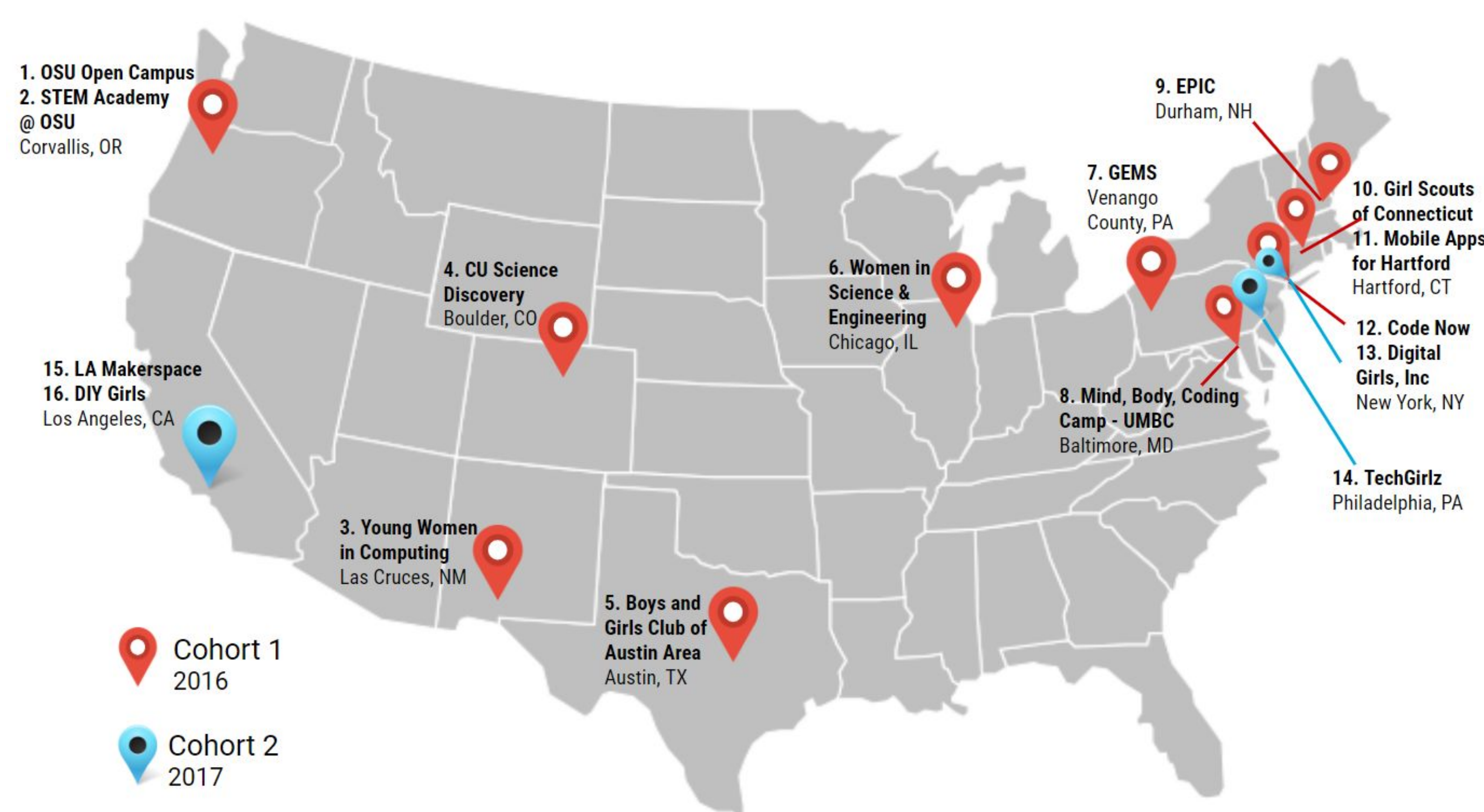- Access to evaluation tools

Question Type/Construct and Survey Instruments

- Opportunities to present at conferences and meetings such as AEA 2017

CS OPEN Participants

16 nonprofit and university-affiliated organizations offering out-of school CS education opportunities

1. OSU Open Campus
2. STEM Academy @ OSU
Corvallis, OR
4. CU Science Discovery
Boulder, CO
15. LA Makerspace
16. DIY Girls
Los Angeles, CA
3. Young Women in Computing
Las Cruces, NM
5. Boys and Girls Club of Austin Area
Austin, TX
6. Women in Science & Engineering
Chicago, IL
7. GEMS
Venango County, PA
8. Mind, Body, Coding Camp - UMBC
Baltimore, MD
9. EPIC
Durham, NH
10. Girl Scouts of Connecticut
11. Mobile Apps for Hartford
Hartford, CT
12. Code Now
13. Digital Girls, Inc
New York, NY
14. TechGirlz
Philadelphia, PA

Cohort 1 2016
Cohort 2 2017

- 12 Cohort 1 organizations served 1649 girls and women from kindergarten through undergrad
- 4 Cohort 2 organizations serving an estimated 3400 girls from elementary through high school

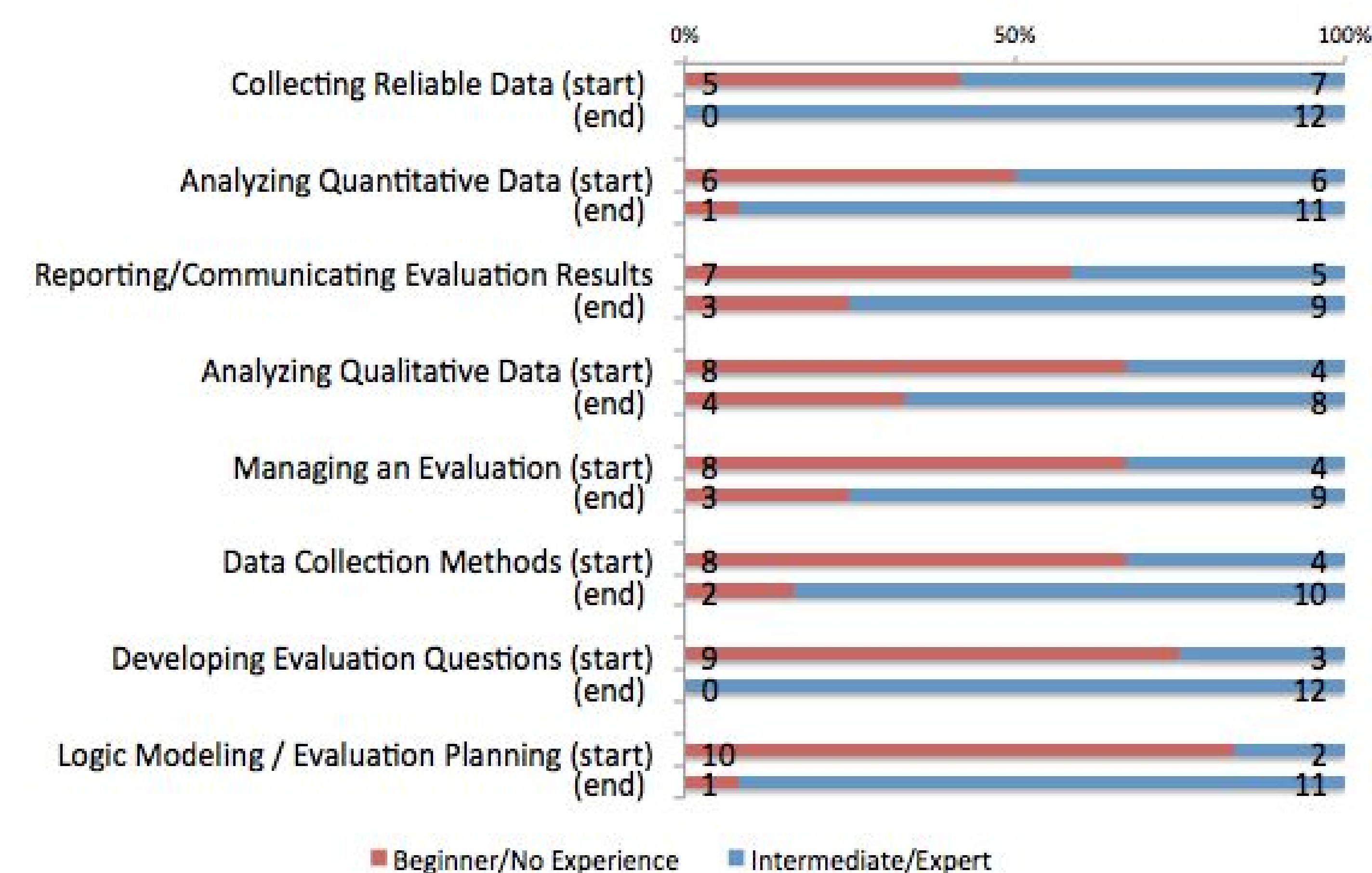## Growing the CS OPEN Network

- Cohort 1 participants are:
  - Sharing best practices with Cohort 2
  - Honing evaluation methods and instruments
  - Building evaluation teams
  - Integrating evaluative practices into programs
  - Engaging more stakeholders
- Cohort 2 participants are currently completing evaluation studies and final reports
- CS OPEN will continue our model of practice:
  - Planning for Cohort 3 mini-grants in 2018 for evaluation capacity building (ECB)
  - Enacting and evolving ECB strategies: community meetings, X-cohort collaboration, education, tools and resources, and consulting with evaluation specialist
  - Collective impact studies

CS OPEN Results for Cohort 1

" I have a better understanding of how valuable evaluation is. It was an outstanding experience to be able to develop and use new evaluation tools. "

- All completed evaluation studies utilized: surveys (92%), observations (67%), content assessments (42%), and interviews (42%)
- 5 organizations credited CS OPEN with making evaluation possible for their organizations.
- 6 organizations were able to expand the scope of their evaluation efforts with CS OPEN support.
- Participants gained evaluation knowledge and skills in a wide range of evaluative practices

Most Cohort 1 participants/participant teams moved from "Beginner" or "No Experience" to "Intermediate" or "Expert" by the end of CS OPEN

	Beginner/No Experience	Intermediate/Expert
Collecting Reliable Data (start)	5	7
(end)	0	12
Analyzing Quantitative Data (start)	6	6
(end)	1	11
Reporting/Communicating Evaluation Results (start)	7	5
(end)	3	9
Analyzing Qualitative Data (start)	8	4
(end)	4	8
Managing an Evaluation (start)	8	4
(end)	3	9
Data Collection Methods (start)	8	4
(end)	2	10
Developing Evaluation Questions (start)	9	3
(end)	0	12
Logic Modeling / Evaluation Planning (start)	10	2
(end)	1	11

■ Beginner/No Experience ■ Intermediate/Expert

Our CS OPEN Team

- Karen Peterson, Erin Hogeboom - NGCP
- Juliet Tiffany-Morales, Jason Ravitz - Google
- Kathy Haynie - Haynie Research and Evaluation