



# USE THAT DATA!

## How Moonshot data can show your impact and enhance decision making

GIRLS BUILD SOLUTIONS  
JUNE 2022

# TODAY'S SESSION

Four Totally Awesome Data Sources

Data Mapping Exercise

Breakout!

- Fundamentals of Moonshot data tools

- Professional development evaluation approaches

- Common Instrument Suite & Dimensions of Success

- Measuring levels of engagement



There's a Toolkit for This!

Overviews of the tools

Detailed instructions

Distribution materials

Detailed instructions

Distribution materials

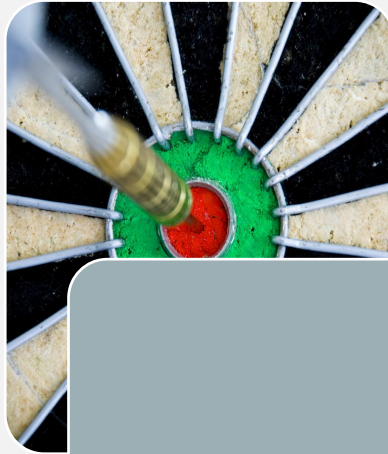
## Distribution materials



# MOONSHOT THEORY OF ACTION



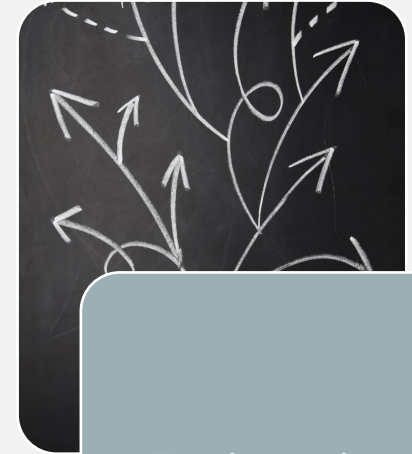
Raise  
Awareness



Shift Practice



Engage Youth



Engineering  
Mindset

# MOONSHOT THEORY OF ACTION



Raise  
Awareness

Grantee Bi-Annual  
Report  
Program Site  
Survey  
Programmatic  
Docs



Shift Practice

Grantee Bi-Annual  
Report  
Program Site  
Survey  
Professional  
Development  
Survey



Engage Youth

Grantee Bi-Annual  
Report  
Program Site  
Survey  
Professional  
Development  
Survey  
CIS and DoS



Engineering  
Mindset

Program Site  
Survey  
Professional  
Development  
Survey  
CIS and DoS



# FOUR DATA SOURCES

1

Grantee Bi-Annual Report

2

Program Site Survey

3

Professional Development Survey  
(Training Participant Survey)

4

Common Instrument Suite &  
Dimensions of Success ('22-23)

Breakout  
Session!

# GRANTEE BI-ANNUAL REPORT

Estimate total numbers of programs, staff, youth & girls strongly engaged with the Moonshot  
(programs that applied for a grant, participate in PLC, received program materials, etc.):

PROGRAMS \*

STAFF \*

YOUTH \*

GIRLS \*

Estimate total numbers of programs, staff, youth & girls moderately engaged with the Moonshot  
(e.g. programs with staff who attended a conference or webinar):

PROGRAMS \*

STAFF \*

YOUTH \*

GIRLS \*

Estimate total numbers of programs, staff, youth & girls lightly engaged with the Moonshot  
(e.g. programs whose staff are subscribed to mailing list):

PROGRAMS \*

STAFF \*

YOUTH \*

GIRLS \*

Breakout  
Session!

# GRANTEE BI-ANNUAL REPORT

**Of the afterschool and summer programs your Network supports, give your best estimate of what percentage engage the following youth populations:**

Girls/non-binary youth in STEM \*

None - A few (0-25%)

Youth from low-income households \*

None - A few (0-25%)

BIPOC youth (Black, Indigenous, Persons of Color) \*

None - A few (0-25%)

Rural/frontier youth \*

None - A few (0-25%)

English Learner youth \*

None - A few (0-25%)

**Of the afterschool and summer programs your Network supports, give your best estimate of the grade levels that are served? (e.g. 30% elementary school, 70% middle school, 0% high school)**

% Elementary School \*

0%

% Middle School \*

0%

% High School \*

0%

% Other \*

0%



# PROGRAM SITE SURVEY



## Annual Survey for Afterschool and Summer Programs 2022

### About Your Afterschool and Summer Programs

8. Among all of the afterschool and summer sites you represent, approximately how many youth were served:

In summer 2021

In school year 2021-22  
(estimated)

9. Of the youth served in summer 2021 and school year 2021-22, approximately how many:

	Percentage
Identified as girls	<input type="text"/>
Identified as boys	<input type="text"/>
Identified as non-	<input type="text"/>

### WHO

Programs associated with the Moonshot

### WHAT

Report on youth served, frequency of STEM activities and Transformative Practices, and engagement with the Moonshot materials.

### HOW

Networks promote and share with programs in their state, associated with the Moonshot

### WHEN

April – June 30, 2022

Breakout  
Session!

# PROFESSIONAL DEVELOPMENT SURVEY

(Training Participant Survey)

**WHO**  
State Network Grantees and other training facilitators to use for their participants

**WHAT**  
A generalized survey to assess participants' experiences in extensive trainings and PLC/CoPs.

**HOW**  
Trainers send link to participants after engagement, or embed the questions in their existing surveys.

**WHEN**  
April – June 30, 2022

Appendix B: Training Participant Survey Questions

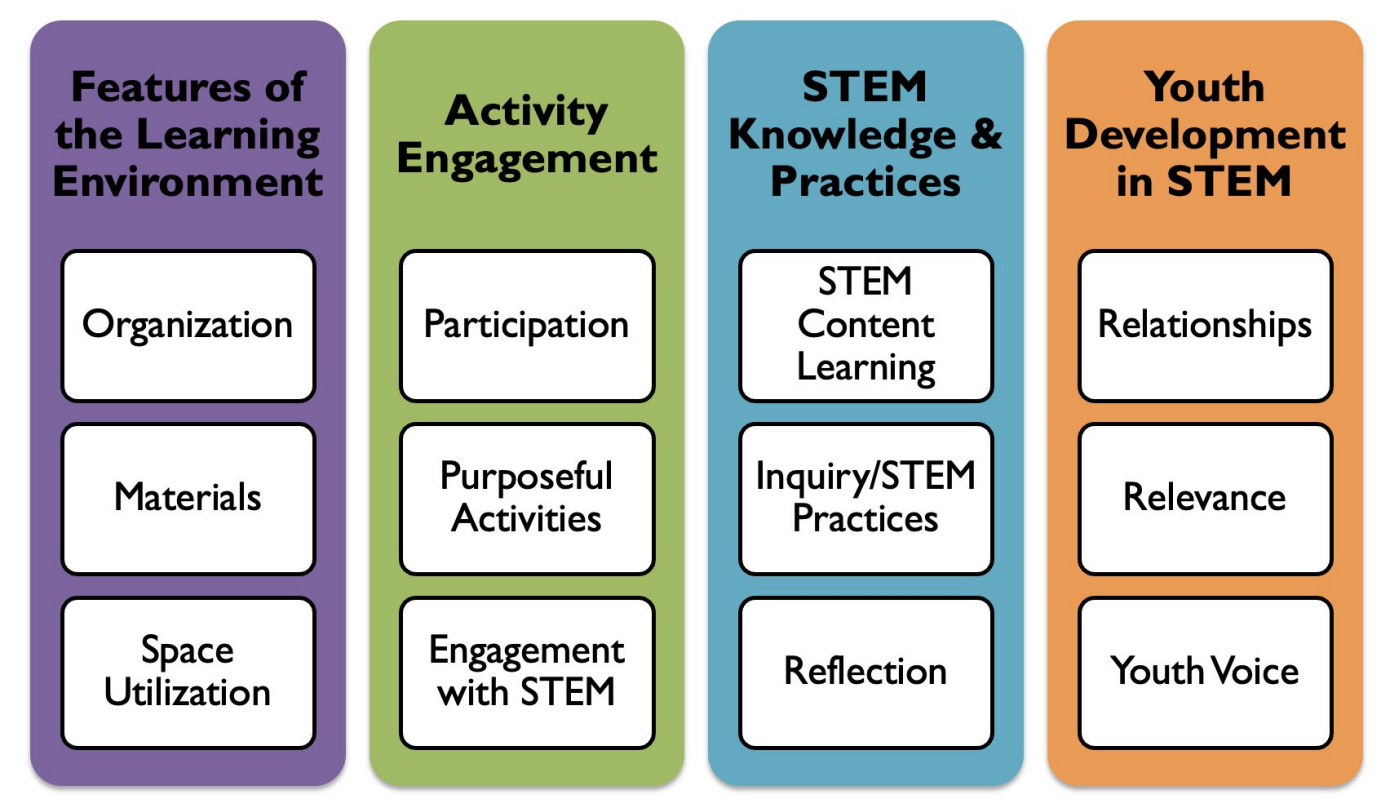
Thank you for taking the time to complete this survey. STEM Next and the Million Girl Moonshot team are very interested in your feedback about what went well in the [Professional Development Opportunity], how the [Professional Development Opportunity] impacted you, and how to improve the [Professional Development Opportunity] for future participants. Your responses are confidential and there are no wrong answers.

Please select the response that best describes you feel about the following statements:		Strongly Agree	Agree	Disagree	Strongly Disagree
1)	This [Professional Development Opportunity] allowed me to participate in different and inclusive ways (e.g., large group discussion and breakout sessions, coaching sessions, written communications).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2)	The [Professional Development Opportunity] was organized and structured well.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3)	This [Professional Development Opportunity] provided resources relevant to my role.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4)	Through this [Professional Development Opportunity], I met new people with similar roles as mine.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5)	I will share the information I learned from this [Professional Development Opportunity] with others in my program or organization.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6)	Because of this [Professional Development Opportunity], I am able to improve the quality of STEM offerings I provide to young people.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Breakout  
Session!

# PEAR's STEM Toolkit: DoS Quality Framework

## Dimensions of Success (DoS)



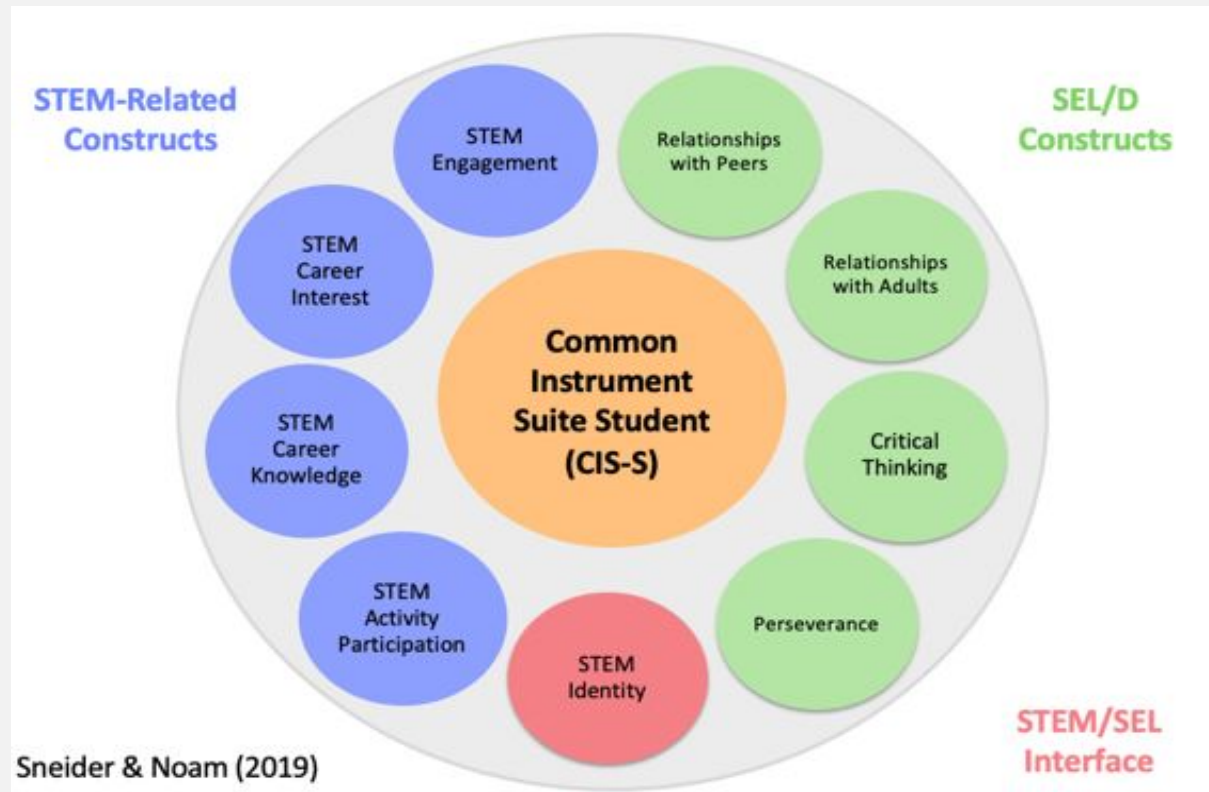
How PEAR Is Elevating Engineering -  
*New DoS Engineering Booster*





# PEAR's STEM Toolkit: CIS-S

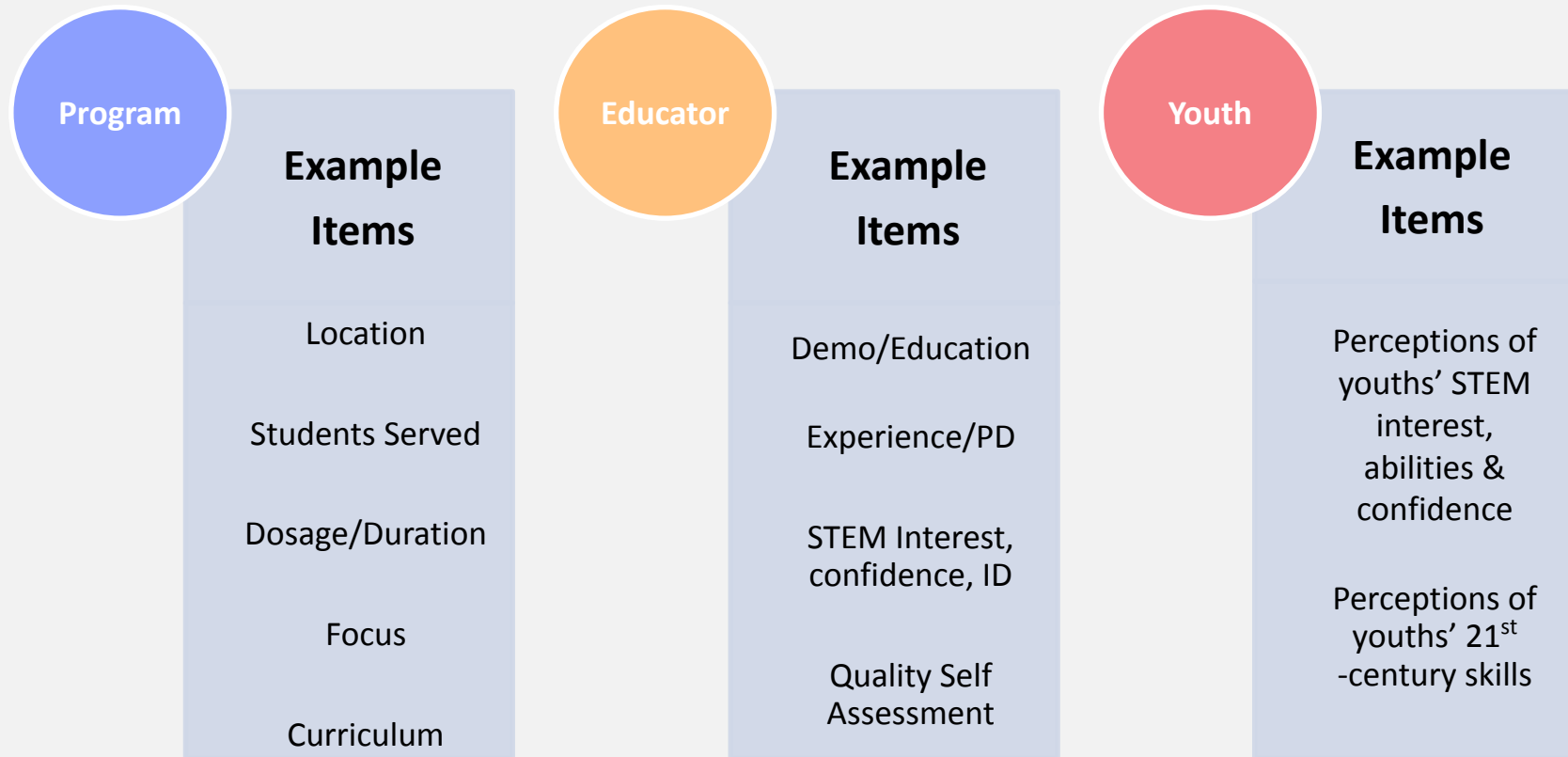
## Common Instrument Suite – Students



**How PEAR Is Elevating Engineering -  
Specific Engineering Wording & Items**

# PEAR's STEM Toolkit: CIS-E

## Common Instrument Suite – Educator



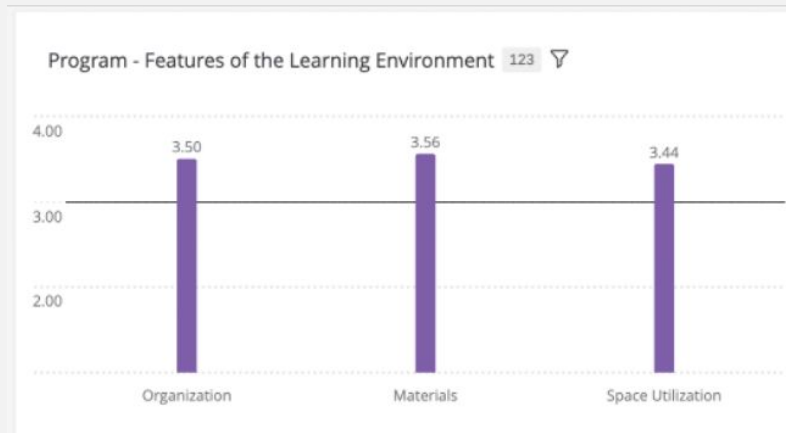
**How PEAR Is Elevating Engineering -  
Triangulating Findings with DoS & CIS-S**

# PEAR's Data Dashboard – DoS Perspective

## Overall



## Compared to National



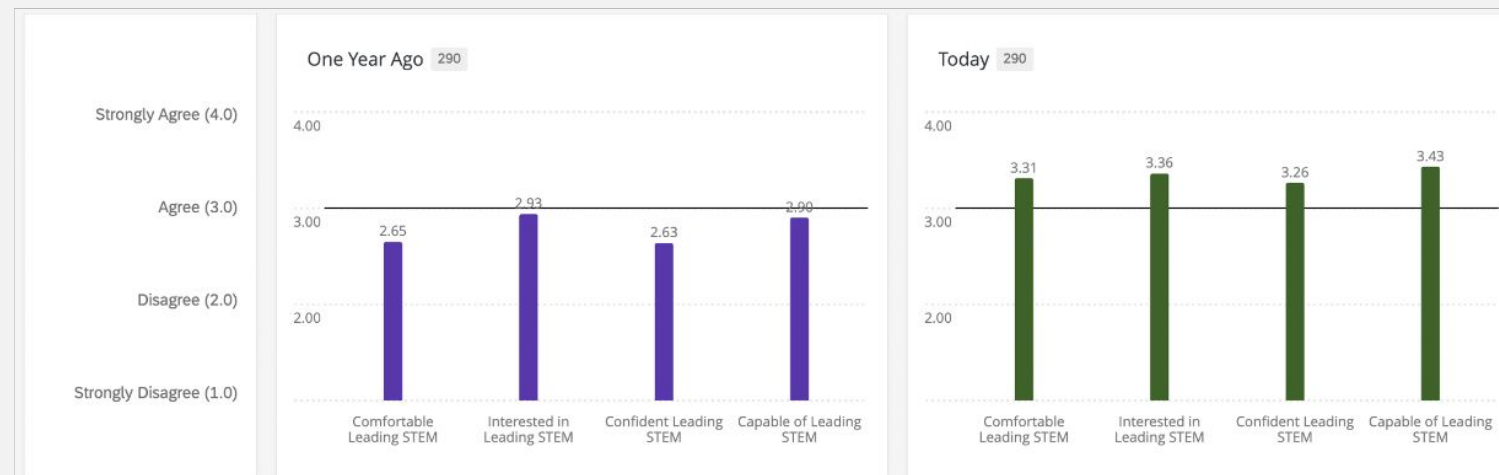


# PEAR's Data Dashboard – CIS Perspective

## Student



## Educator



New for 2022-23!

**Innovators:** Capture a meaningful sample of program and youth level data including utilizing resources provided by PEAR.

**Capacity Builders & Ready for Liftoff:**  
Explore potential program partnerships to capture a meaningful sample of program and youth level data including utilizing resources provided by PEAR.



# MAP YOUR DATA!



Raise  
Awareness

Newsletter  
subscribers  
Website visitors  
Social media  
metrics  
One-time  
workshops



Shift Practice

Workshop series  
Communities of  
Practice  
Staff self-reports  
DoS



Engage Youth

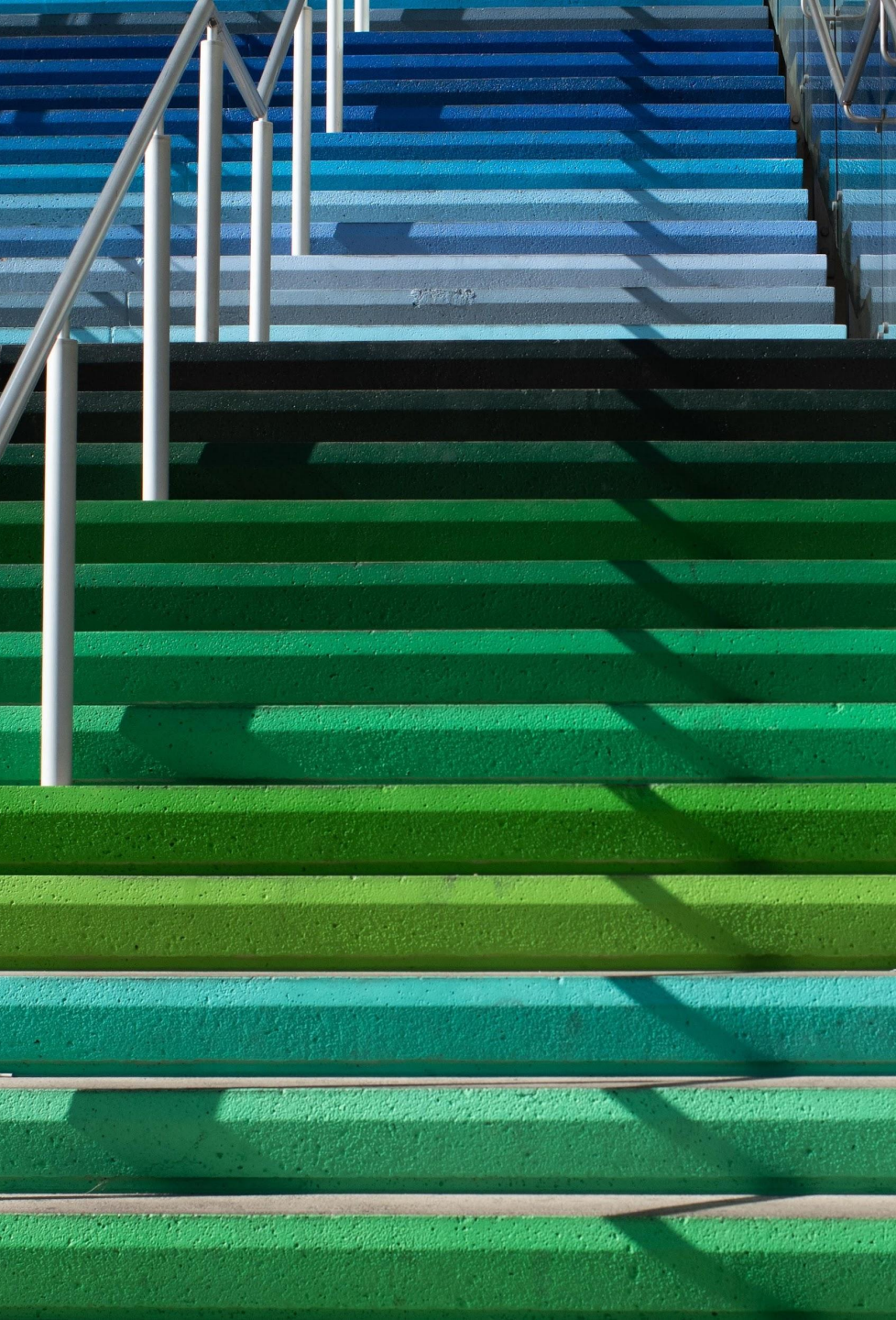
# of youth in  
programs  
supported by your  
network  
Youth surveys  
Program  
self-reports  
CIS & DoS



Engineering  
Mindset

Youth surveys  
Program  
self-reports  
CIS & DoS





## SUMMER & FALL 2022 TIMELINE

Sept  
30

Grantee Bi-Annual Report

Ongoing

PEAR CIS & DoS Data Collection and Reporting

Ongoing

Professional Development Survey  
(Training Participant Survey)





**Breakout Session!**

## There's a Toolkit for This!

## Overviews of the tools

## Detailed instructions

## Distribution materials



Follow ups?

For Moonshot data  
[ava@publicprofit.net](mailto:ava@publicprofit.net) &  
[aparrott@stemnext.org](mailto:aparrott@stemnext.org)

For CIS & DoS  
[klewis-warner@pearinc.org](mailto:klewis-warner@pearinc.org)



# BREAKOUTS!

Fundamentals of Moonshot data tools

Professional development evaluation approaches

Common Instrument Suite & Dimensions of Success

Measuring levels of engagement