GOOD AFTERNOON
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Earth and space

What have we done so far?
What impact have we had?
What is coming up next?
Project activities

PUBLIC ENGAGEMENT MATERIALS
STEM activity toolkits
Small-footprint exhibitions

PROFESSIONAL RESOURCES
Professional development
Regional hubs, website, and infrastructure

EVALUATION
Public impacts
Professional impacts

SHARING & CONNECTING
Science Activation community
NASA Museum Alliance
Other resources
Project outcomes

1. **Widespread use** of project resources, including STEM learning and professional development products

2. **Broad reach** to sizeable public and professional audiences across the US

3. **New and strengthened partnerships** among national and local organizations that support informal and lifelong learning

4. **Demonstrated learning** by public and professional audiences
Evaluation

TYPES OF EVALUATION
Front-end
Formative
Summative

IMPACTS
Public participants
Professional participants
WORK TO DATE
Evaluation findings

Public impacts
Toolkit activities and events

Professional impacts
Resource use
Practices
Public impacts

EVALUATION QUESTIONS
Who participates?
• how many people
• geographic location
• demographic groups

What do they learn?
• Earth and space content
• interest and engagement
• relevance
• science identity

METHODS
Partner applications and reports
Surveys, interviews, and observations
3.4 million people so far!

250 toolkits in 2017
250 toolkits in 2018
1.5 million people in 2017
1.9 million people in 2018
### Underserved and underrepresented audiences + general population

<table>
<thead>
<tr>
<th>GROUP</th>
<th>% OF RESPONDENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Girls</td>
<td>90%</td>
</tr>
<tr>
<td>Low-income / lower socio-economic status</td>
<td>83%</td>
</tr>
<tr>
<td>Racial and ethnic minorities / communities of color</td>
<td>82%</td>
</tr>
<tr>
<td>Spanish speaking audiences</td>
<td>53%</td>
</tr>
<tr>
<td>Rural</td>
<td>48%</td>
</tr>
<tr>
<td>Inner city</td>
<td>41%</td>
</tr>
<tr>
<td>Disabled / differently abled</td>
<td>40%</td>
</tr>
<tr>
<td>At-risk youth</td>
<td>34%</td>
</tr>
<tr>
<td>Other non-native English speakers</td>
<td>32%</td>
</tr>
<tr>
<td>American Indian / Alaska Native</td>
<td>20%</td>
</tr>
</tbody>
</table>
Activities are enjoyable and interesting

95%
Almost all adults shared that their groups enjoyed and were interested by the activities (95%, n=242)

86%
Most children shared that the activities were “really fun” (86%, n=144)
Toolkits

People learn new things

Almost all adults reflected that their groups learned something new at the activities (91%, n=237)
“They helped me understand a bit better what scientists do. I can do science. Other scientists go to the moon and bring rocks from the moon.”
Professional impacts

EVALUATION QUESTIONS

Who participates?
• staff and volunteers
• geographic area

What kinds of partnerships are formed?
• Network partner organizations
• subject matter experts

What do people use and learn?
• products and practices
• content knowledge and understanding

METHODS
Baseline surveys and annual partner surveys
Interviews
Professionals 12,300 people so far!

250 toolkits in 2017
250 toolkits in 2018
313 partner organizations
Resources

NISE Network materials helped partners host eclipse events

96%
Most partners reported that their organization had offered information or educational programming about the solar eclipse

92%
Most partners said their organization utilized or promoted NISE Net materials in relation to their eclipse programming
  - 80% used NISE Net materials for planning
  - 88% used NISE Net materials during event
### Practices

**NISE Network has affected confidence in practices**

<table>
<thead>
<tr>
<th>Practice</th>
<th>8-10 Rating</th>
<th>5-7 Rating</th>
<th>1-4 Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engage young children.</td>
<td>58%</td>
<td>25%</td>
<td>18%</td>
</tr>
<tr>
<td>Engage diverse or underserved audiences.</td>
<td>50%</td>
<td>34%</td>
<td>17%</td>
</tr>
<tr>
<td>Engage audiences with societal content related to Earth and space science.</td>
<td>58%</td>
<td>30%</td>
<td>13%</td>
</tr>
<tr>
<td>Talk with visitors about difficult concepts such as common misconceptions.</td>
<td>58%</td>
<td>28%</td>
<td>13%</td>
</tr>
<tr>
<td>Partner with a community or informal learning organization.</td>
<td>48%</td>
<td>30%</td>
<td>21%</td>
</tr>
<tr>
<td>Partner with experts related to Earth and space science including scientist...</td>
<td>48%</td>
<td>32%</td>
<td>20%</td>
</tr>
<tr>
<td>Partner with Earth and space science enthusiasts or amateur astronomy club...</td>
<td>46%</td>
<td>33%</td>
<td>21%</td>
</tr>
<tr>
<td>Identify, use, and adapt non-NISE Net Earth and space resources.</td>
<td>53%</td>
<td>31%</td>
<td>16%</td>
</tr>
</tbody>
</table>
WHAT'S NEXT
We look forward to sharing more findings with you in the future.

Thank you for your continued involvement in our evaluation!

Upcoming survey opportunity to share feedback about this partner meeting!

Annual partner survey – Fall 2019 and 2020
Interviews with a selection of professionals – Summer 2019 and 2020
Toolkits

350 sites in 2019
350 sites in 2020
Exhibitions

52 sites in 2018–2019
Escape room game

350 sites in 2021
Professional development

Regular online workshops in 2019–2021
Conferences in 2019–2021
FUTURE PLANS
Brain science and technologies and their societal implications

In planning phase
Jayatri Das and Darrell Porcello
Sustainable futures

In early stages
Rae Ostman, Paul Martin, and Jeannie Colton
What’s next for Earth and space?

Make plans for your organization
Share your ideas for the Network
Online digital library: nisenet.org

Monthly newsletter: nisenet.org/newsletter

Social networking: nisenet.org/social
THANK YOU

Space and Earth Informal STEM Education is supported by NASA under cooperative agreement number NNX16AC67A and 80NSSC18M0061. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the view of the National Aeronautics and Space Administration (NASA).