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Unlocking Insights for Project Improvement



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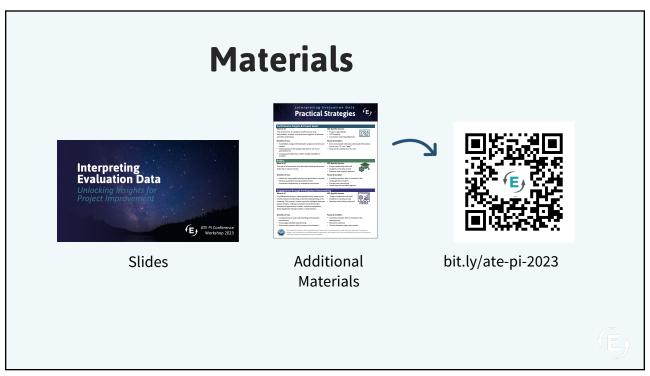


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Introductions



Megan López



LyssaWilson Becho



5

Special Thank You



Kelly Robertson



Maureen Green



Lori Wingate



Samantha Hooker



Erika Sturgis



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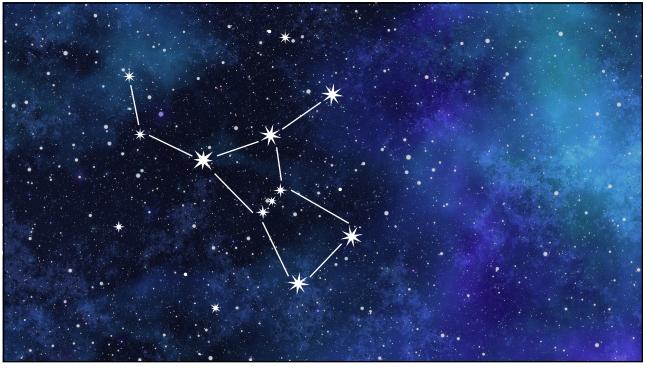
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- Introduce yourself
- What could you give a 30-minute presentation about with no advance preparation?

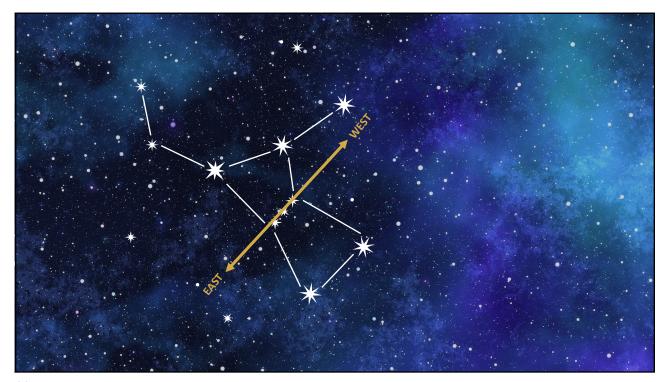
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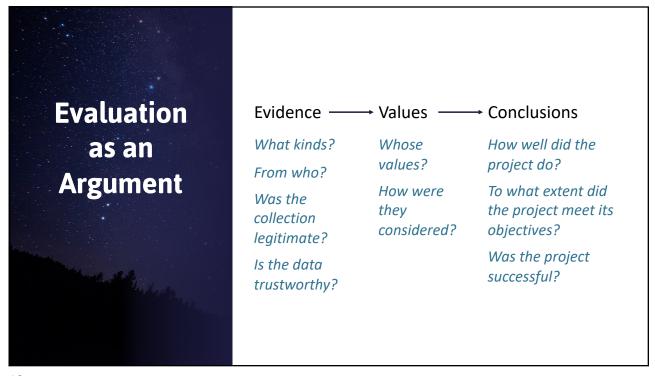


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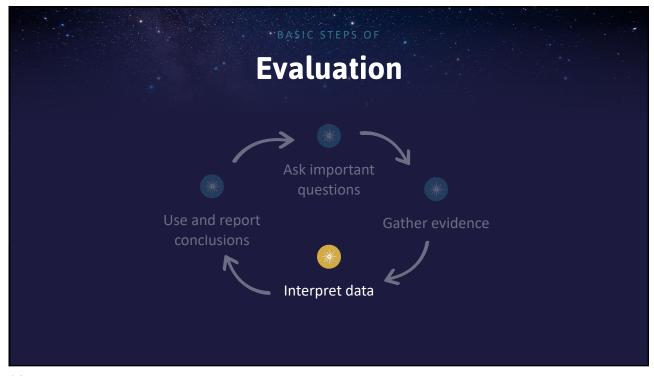


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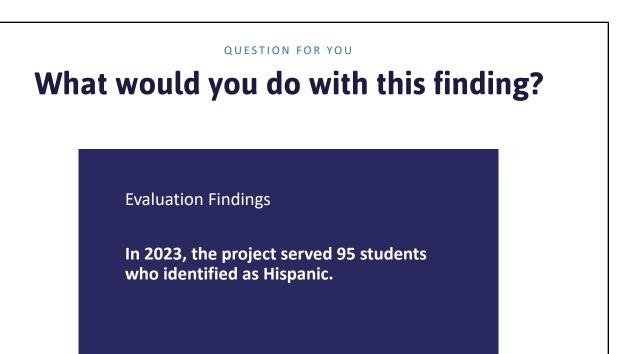
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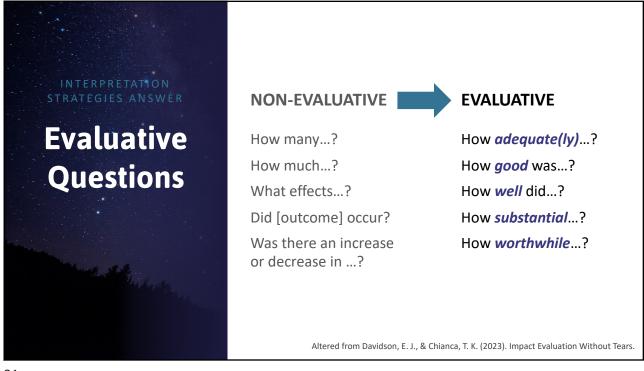
- Whose responsibility is it to interpret evaluation data? The projects? Evaluators? Both?
- What perspectives do each bring to data interpretation? How might they differ? How might they be similar?

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- Assessment of a project's performance against its planned activities and impact.
- Consider your project's outputs, deliverables, and outcomes

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Assessment of a project's performance against its planned activities and impact.

- Activity was not offered				Project exceed	ect goal eeded	
Activity	Project Goal	2018	2019	2020	2021	2022
Webinars	4 per year			Θ		
Resources	4 per year	Θ			Θ	0
Conference presentations	3 per year					
Conference workshops	1 per year	0				0
ATE evaluation coaching	96 PIs or evaluators per year 2020-22	-	-	\bigcirc	\odot	$\overline{\bigcirc}$
Newsletter	Quarterly in 2018-19; monthly 2020-22	0	•			0
Blog	12 per year					$\overline{}$
Webchats	12 per year May 2020-22	-	-		0	0
Outstanding ATE Evaluation Award	Awarded annually since 2021	-	-	-		

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Interpreting Evaluation Data

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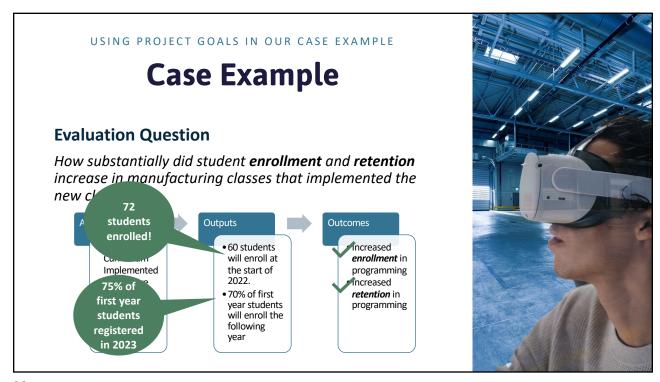


USING PROJECT GOALS IN OUR CASE EXAMPLE **Case Example Evaluation Question** How substantially did student enrollment and retention increase in manufacturing classes that implemented the new classroom? • New • 60 students Increased Curriculum will enroll at enrollment Implemented the start of and retention 2022. Alternative manufacturing forms of • 70% of first year students will enroll the education program delivery will be offered following year

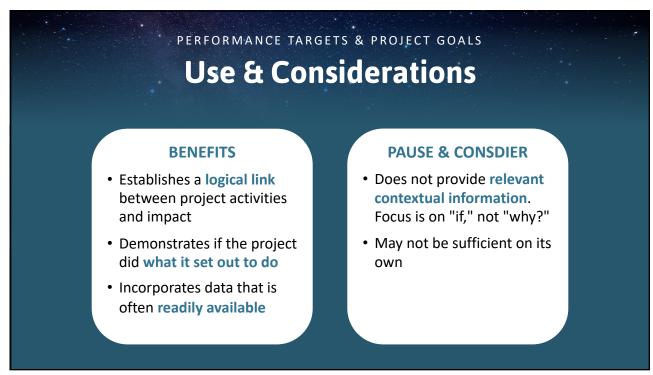
Evalu-ate.org

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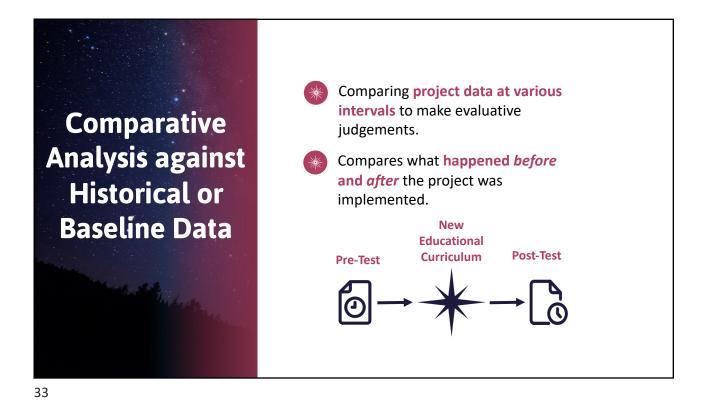


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ATE-Specific Sources

ATE Proposal Project Research Description Office Office

HISTORICAL OR BASELINE DATA

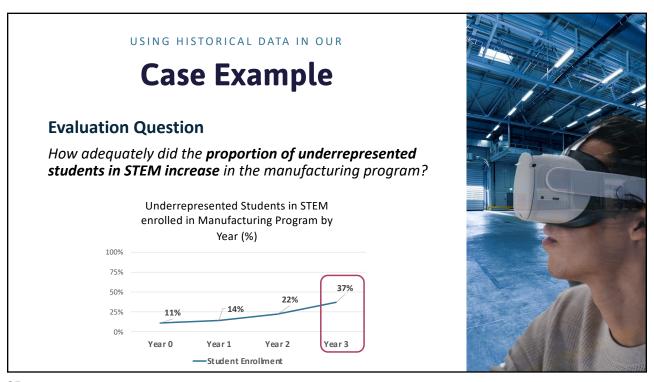
ATE Proposal Research Office

Office

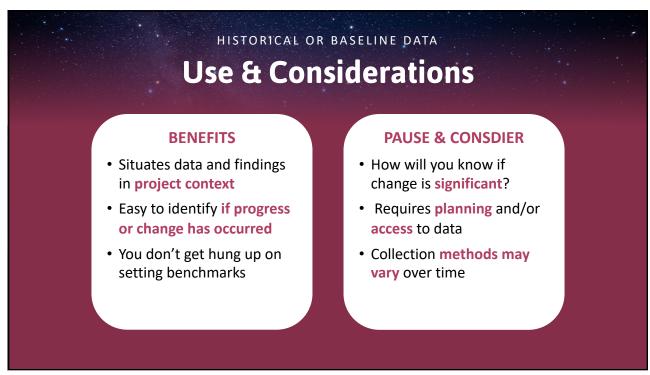
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Office

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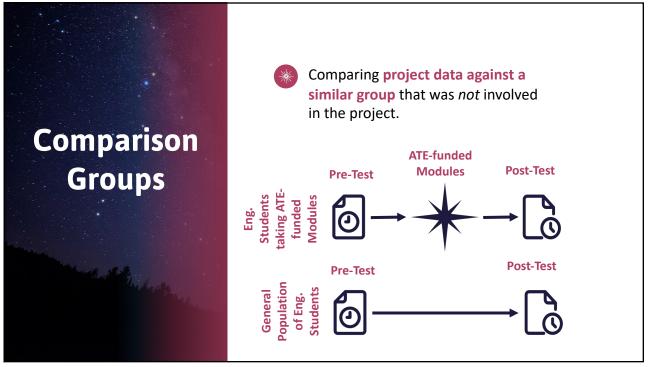
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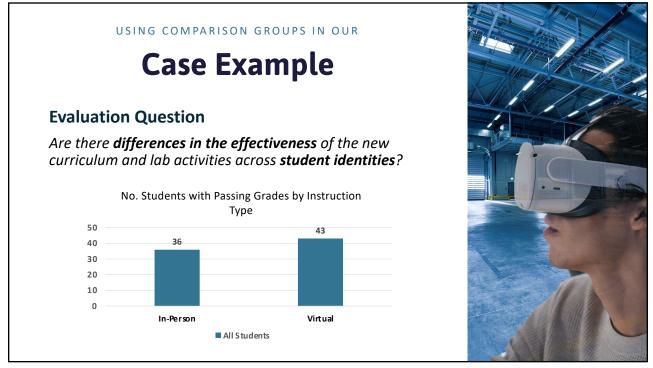
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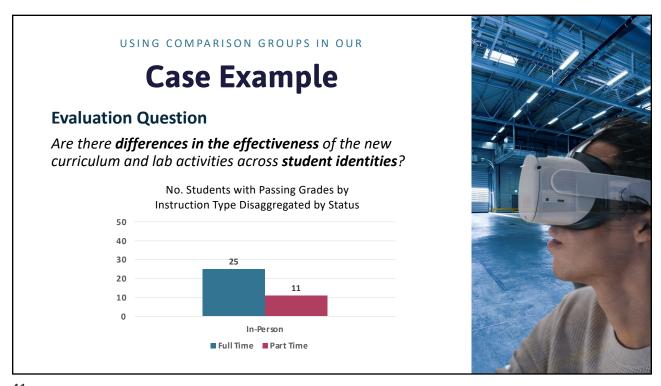
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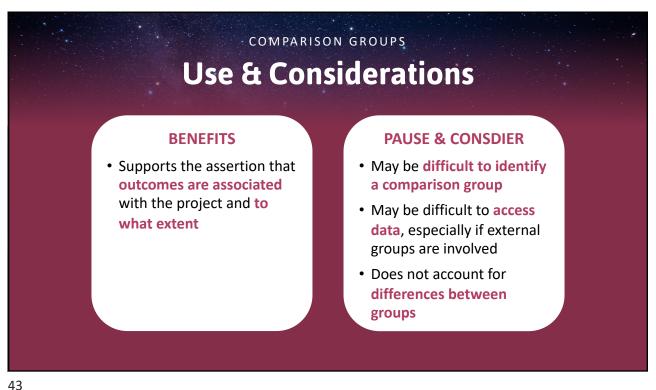
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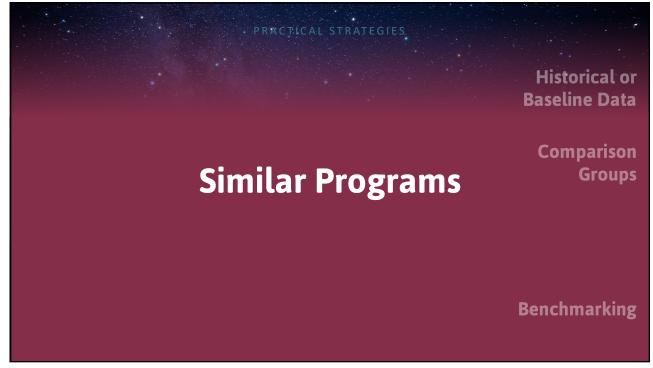
41

USING COMPARISON GROUPS IN OUR **Case Example Evaluation Question** Are there **differences in the effectiveness** of the new curriculum and lab activities across student identities? No. Students with Passing Grades by Instruction Type Disaggregated by Status 50 40 30 25 23 20 20 11 10 Virtual ■ Full Time ■ Part Time

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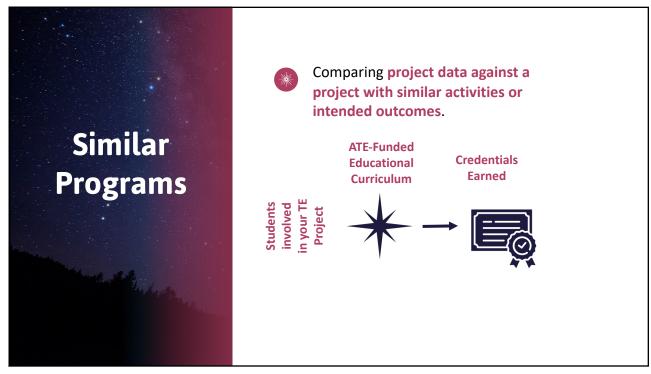


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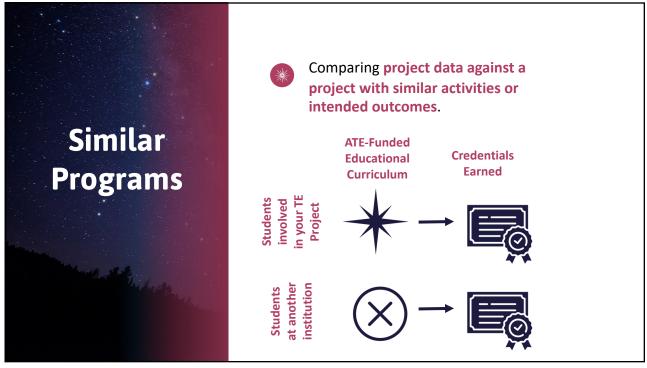


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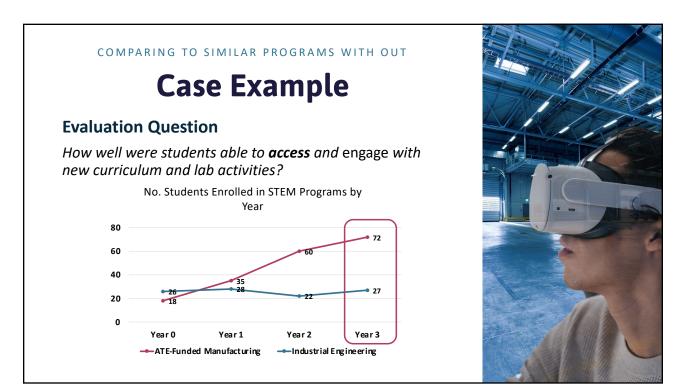
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4/

COMPARING TO SIMILAR PROGRAMS WITH OUT **Case Example Evaluation Question** How well were students able to access and engage with new curriculum and lab activities? No. Students Enrolled in STEM Programs by Year 80 60 40 20 0 Year 0 Year 1 Year 2 ◆ATE-Funded Manufacturing ---Industrial Engineering

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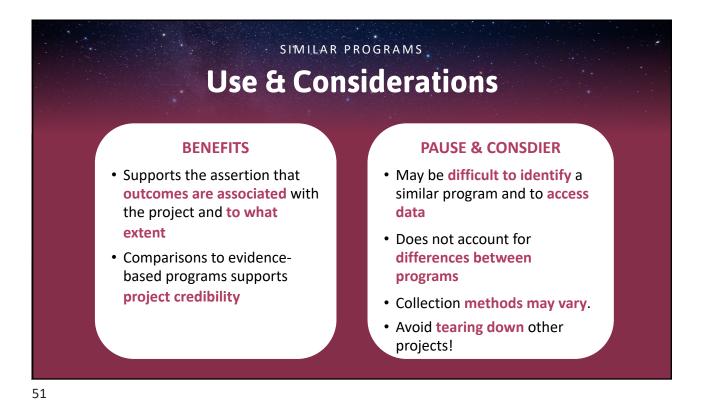
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COMPARING TO SIMILAR PROGRAMS WITH OUT **Case Example Evaluation Question** How well were students able to access and engage with new curriculum and lab activities? No. Students Enrolled in STEM Programs by Year 80 70 60 50 40 30 20 10 Year 0 Year 1 Year 2 Year 3

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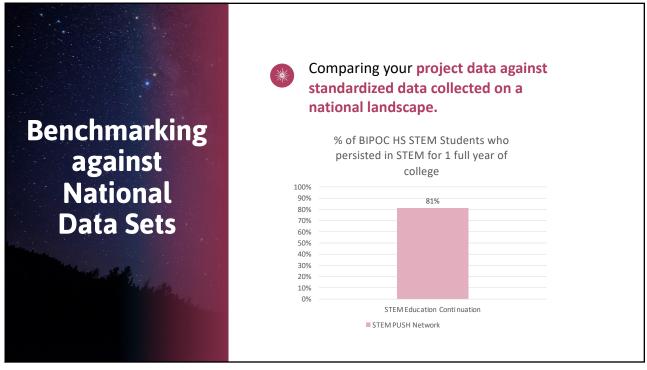
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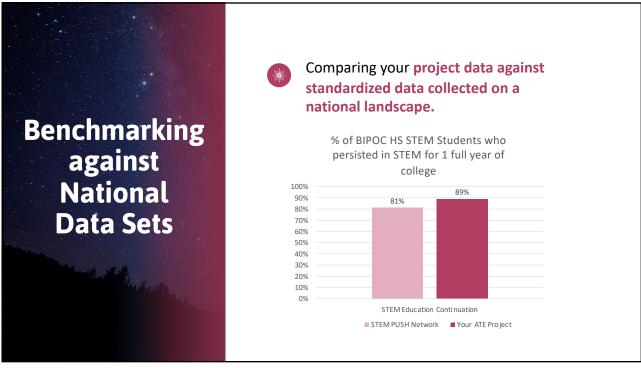
Benchmarking against
National Data Sets

Similar
Programs

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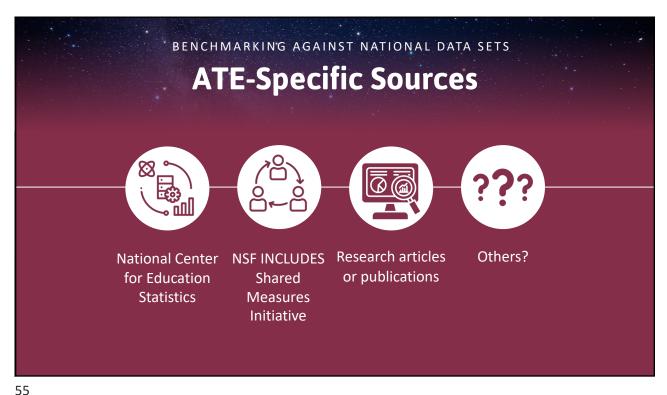


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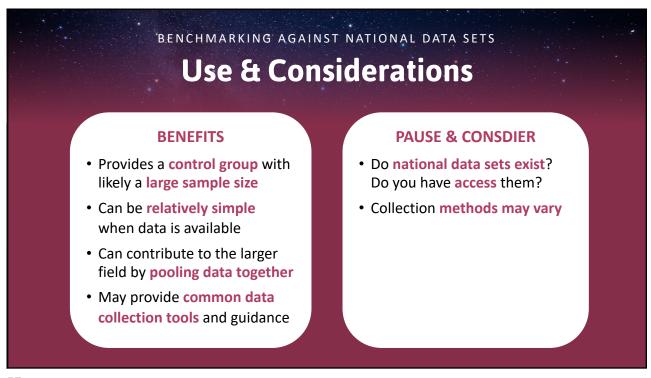
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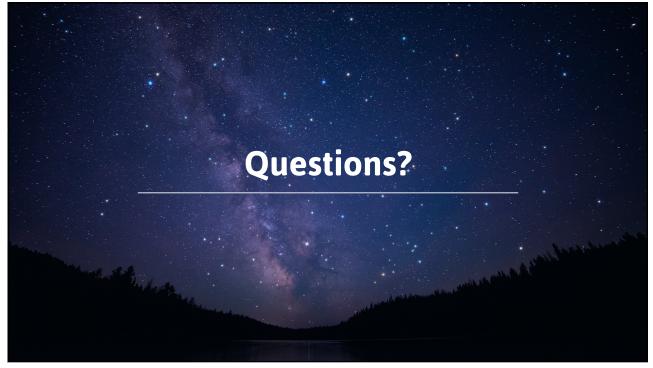
22

USING NATIONAL DATASETS WITH OUR **Case Example Evaluation Question** Are there **differences in the effectiveness** of the new curriculum and lab activities across student identities? % of BIPOC HS STEM Students who persisted in STEM for 1 full year 100% 80% 60% 55% 40% 34% 30% 20% 0% Year 0 Year 2 Year 3 Year 1 Benchmark → Manufacturing Program

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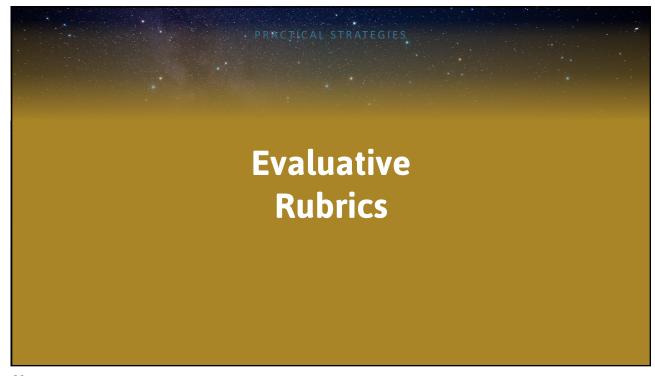
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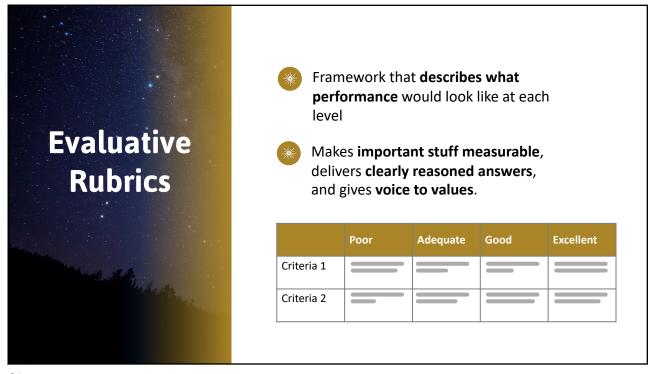
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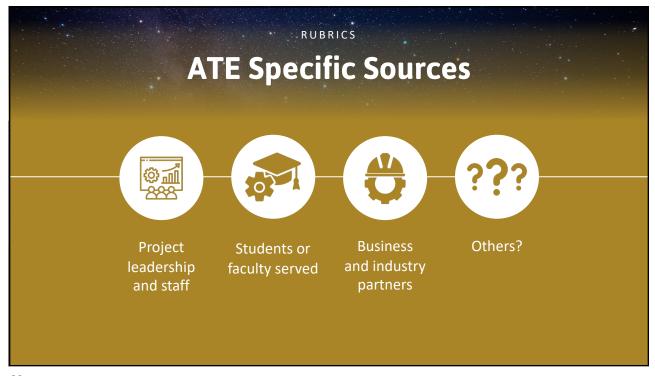


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USING RUBRICS IN OUR

Case Example

Evaluation Question

How well were students able to **access** and engage with the new curriculum and lab activities?

	Poor	Good	Excellent
Students ability to access lab activities	Most students had difficulty logging into the virtual lab	Most students were able to log in to virtual lab with limited connection issues	All students were able to consistently log in to virtual lab without connection issues



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USING RUBRICS IN OUR

Case Example

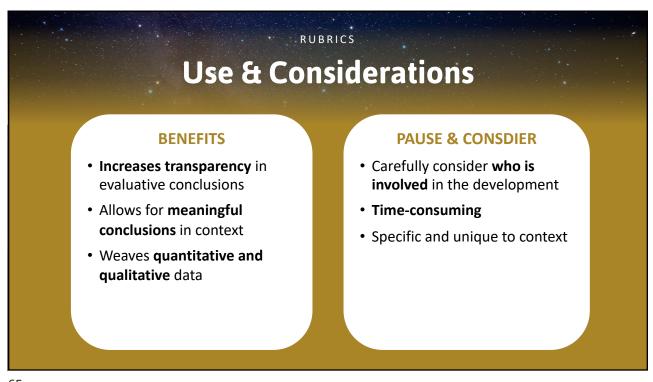
Evaluation Question

How well were students able to access and **engage** with the new curriculum and lab activities?

	Poor	Good	Excellent
Students ability to engage with lab activities	Most students had difficulty participating in the activities	Most students were able to participate in activities, with some reservations	All students were able to consistently participate in activities



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- Collaborative process in which people jointly make sense of information and develop a shared understanding
- Creates a space for dialogue between power holders, making evaluation more democratic







Critical discussion

Most significant change

Data parties

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Three Basic Steps

- Decide the type of stories that should be collected (e.g., stories about change in learning, employment outcomes, or STEM identity)
- 2. Collect the stories and determine which are the most significant
- Share stories and discussions to learn from the stories and about what is considered a meaningful impact

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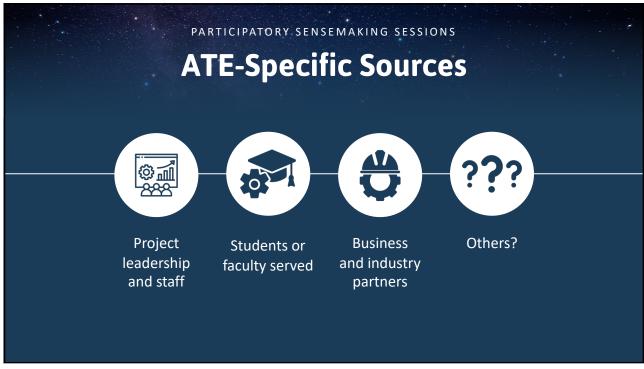
Activities

- Gallery walk
- World café
- Data dashboards
- Dotmocracy
- · Virtual white boards
- Be creative!

Reflective Questions

- · What is this data telling you?
- How does it align with your expectations?
- Is this better or worse than you expected?
- What really stands out for you?
- Are there any surprises here?
- What response do you think is required here?

Hutchinson, K. (2016). You're Invited to a Data Party!



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USING SENSEMAKING SESSIONS IN OUR

Case Example

Evaluation Question

How adequately did the proportion of underrepresented students in STEM increase in the manufacturing program?



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PARTICIPATORY SENSEMAKING SESSIONS

Use & Considerations

BENEFITS

- Increases buy-in and understanding of evaluative conclusions
- Encourages double-loop learning
- Democratic process that increases inclusiveness

PAUSE & CONSDIER

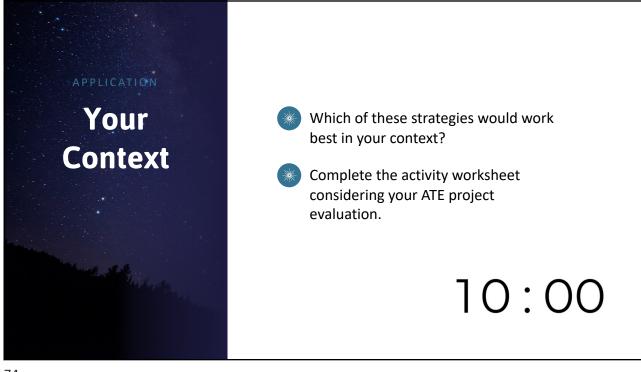
- Carefully consider who is involved in the development
- Resource intensive
- Tension between rigor and context

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- Was this easy or hard for you?
- Which strategy did you choose and how does it compare to your current evaluation?
- What challenges would you anticipate if you put this into practice?

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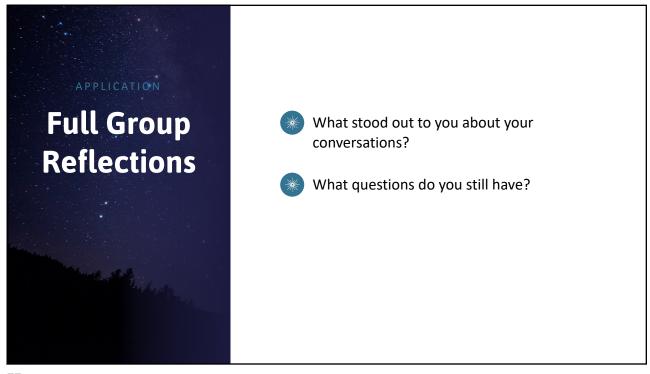


- Do people at your table anticipate similar challenges putting these strategies into practice?
- What support or resources might you need to alleviate these challenges?

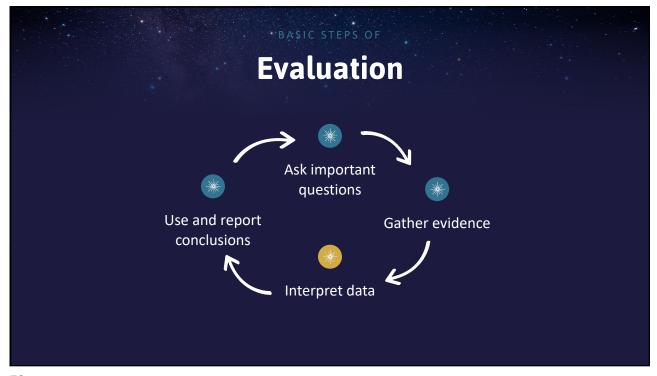
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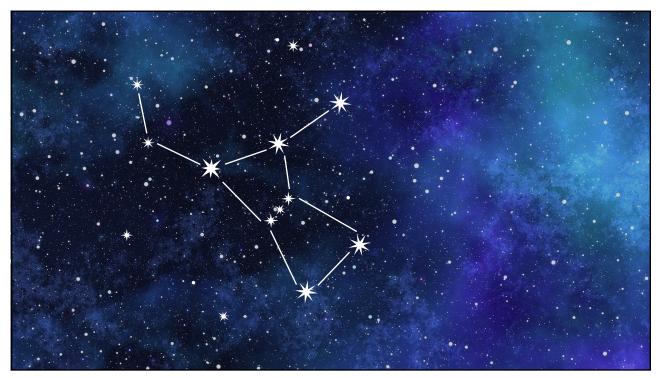


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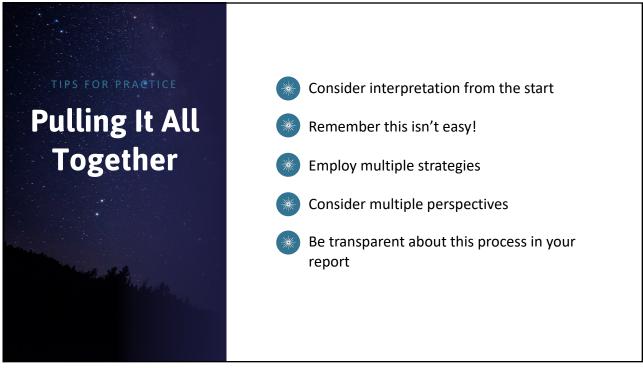


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