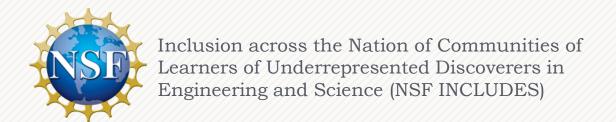
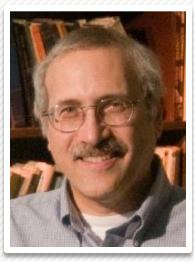
QUALITATIVE DATA IN CULTURALLY RICH EVALUATIONS

Multi-Scale Evaluation in STEM Education





* MEET YOUR MODERATOR



Louis J. Gross, PhD

Founding Director, NIMBioS

Professor of Ecology and Evolutionary Biology and Mathematics, University of Tennessee, Knoxville



WHO IS THIS PRESENTATION FOR?



Principal Investigators of NSF Projects



STEM Educators
planning to submit
INCLUDES Alliance
Proposals

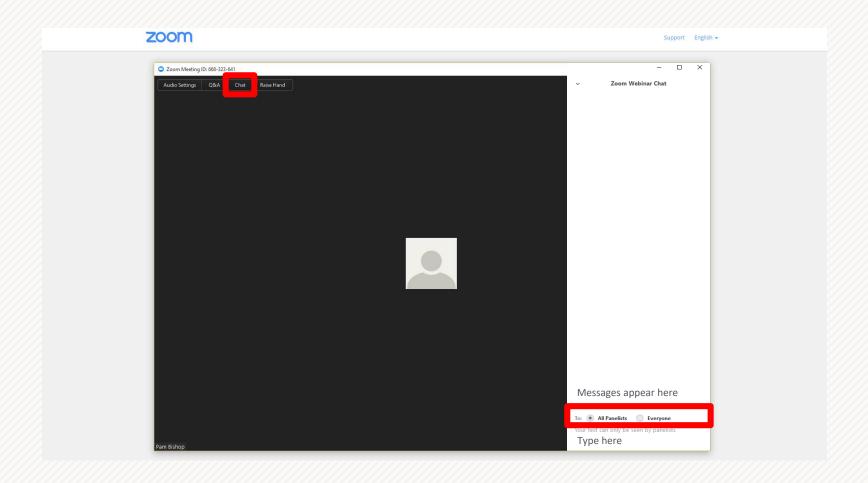


Evaluators
interested in learning
more about evaluating
program success

STEM Educators and



HOW TO INTERACT TODAY



MEET YOUR PRESENTER



Sondra LoRe, EdS

Evaluation Manager
National Institute for STEM
Evaluation and Research (NISER)
sondra@utk.edu



† TODAY'S PRESENTATION

- **❖** What is NSF INCLUDES?
- Qualitative data in culturally rich evaluations
 - **♦**Inform
 - Insights
 - *****Immerse
- *Resources
- Questions and Comments



+ WHAT IS NSF INCLUDES?

- Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science
- Three essential components:
 - Design and Development Launch Pilots (DDLPs)
 - Alliances
 - National Network Coordination Hub





Evaluation and Assessment with Qualitative Data

Evaluation as a celebration of learning.





What do we mean by QUALITATIVE data?

Data collected with people using your senses.

Focus Groups

Interviews

Participant observations

Reflective journaling

Mind mapping

Team meetings

Photo essays

Performance analysis



•

Why collect qualitative data for programs?

The triple I... (plus one more "I")

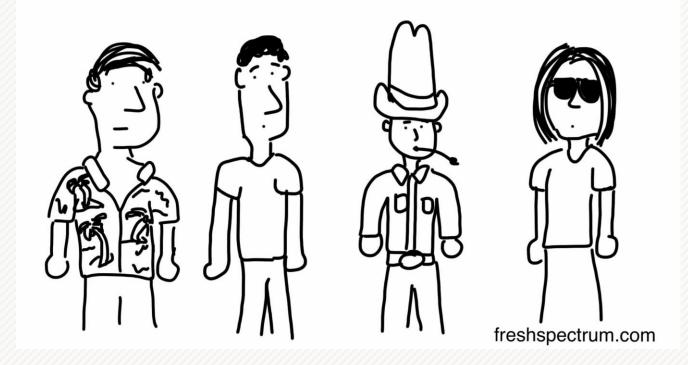
Immerse

Insights

Inform

Plus one more "I" = Integrate

We live in different places across the country do you really think we're the same audience?



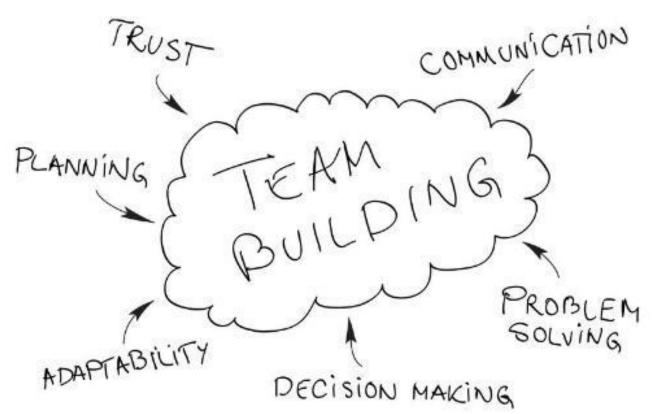
+ Immersion

Being –There Experience





Establish a culture of transparency and communication







+ Immersion

Mind Mapping

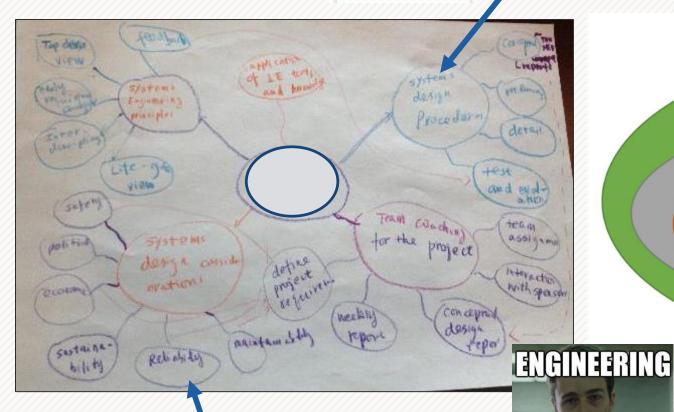




YOU'RE NOT TIRED, YOU'RE

NOT DOING IT RIGHT."

Mission & Vision for the program





Insights The people and culture





Insights

The people and culture

Focus Groups

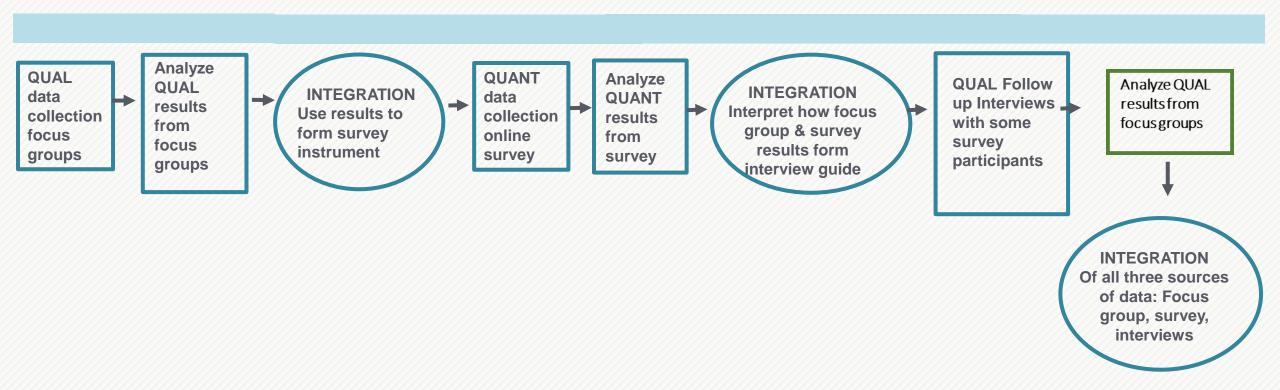
Board Meeting
Journal writing

Shared amongst students
With program leaders
And evaluators

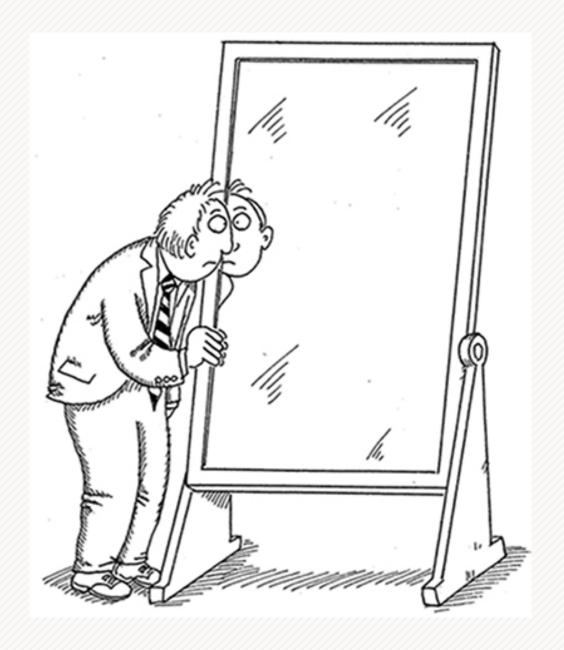


Inform

Design for assessment and evaluation quantitative measures



Exploratory Sequential Mixed Methods



"When you ask questions, it reminds me that other people don't know what we are thinking or what we know about this project."

We do not learn from experience...we learn from reflecting on experience.

John Dewey

meetville.com

"Things feel more cohesive. We are talking with each other."



Some assembly required

Layering your qualitative data within other data – one more "I" = Integrate

We do not learn from experience...we learn from reflecting on John Dewey

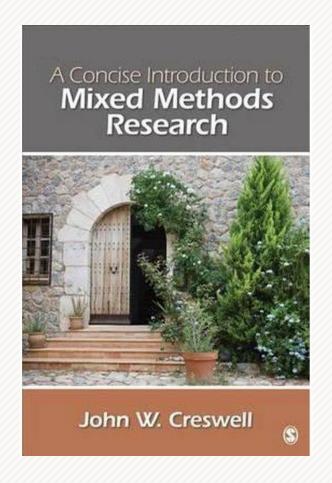
- 1. Immerse: Being-there experiences Permission to wonder
- 2. Insights: Collecting Clues **Building understanding**
- 3. Inform: Assembling meaning Community and Culture
- 4. Construction of Knowledge Crystallization

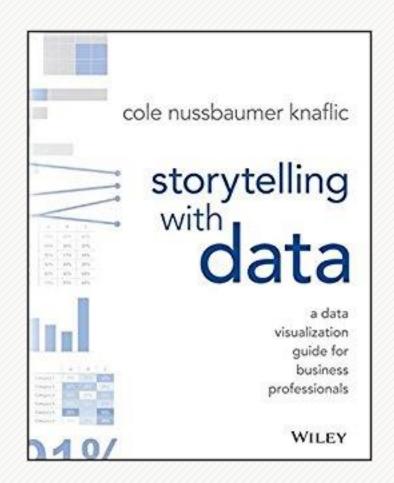
meetville.com



Resources

Layering Qualitative & Quantitative Data in Evaluation Reporting







Recap: TODAY'S Presentation

- **❖** What is NSF INCLUDES?
- Qualitative data in culturally rich evaluations
 - *Inform
 - Insights
 - ***Immerse**
- *Resources
- Questions and comments



HOW TO LEARN MORE

ATTEND OUR NEXT WEBINAR: www.nimbios.org/IncludesConf

June 7 Strategies for Measuring the Broader Impacts of NSF INCLUDES Projects

NISER Resources



stemeval.org



Facebook.com/NISERevaluation



Contact us!



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Thank you!



Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES)

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