

How **Evaluation** Can Improve Your Project

Multi-Scale Evaluation in STEM Education Tutorial

Pam Bishop, PhD

Director, National Institute for STEM Evaluation and Research (NISER)

Associate Director for STEM Evaluation, National Institute for Mathematical and Biological Synthesis (NIMBioS)



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



NIMBioS

National Institute for Mathematical
and Biological Synthesis



NISER

NATIONAL INSTITUTE FOR STEM
EVALUATION AND RESEARCH



WHAT IS PROGRAM EVALUATION?



PROGRAM EVALUATION IS:

Systematic collection of **data** about the activities, characteristics, and results of programs to (1) **make judgments** about the program, (2) **improve** or further develop program effectiveness, (3) **inform decisions**, and/or (4) **increase understanding**.

Michael Quinn Patton



TODAY'S PRESENTATION

INSIGHT

How does your project work?



RESULTS

To what extent has your project accomplished what you set out to do?



IMPROVEMENT

What could you do to make your project work better?





INSIGHT

INSIGHT



Stakeholder Perspectives

INSIGHT

Your perspectives



INSIGHT



Stakeholder Perspectives

A close-up photograph of a hand turning a black dial. The dial has three main markings: 'HIGH' at the top, 'MED' on the left, and 'LOW' at the bottom. A glowing blue needle is visible, pointing towards the right side of the dial. The word 'IMPACT' is partially visible on the dial's face. The background is dark and out of focus.

IMPROVEMENT

IMPROVEMENT

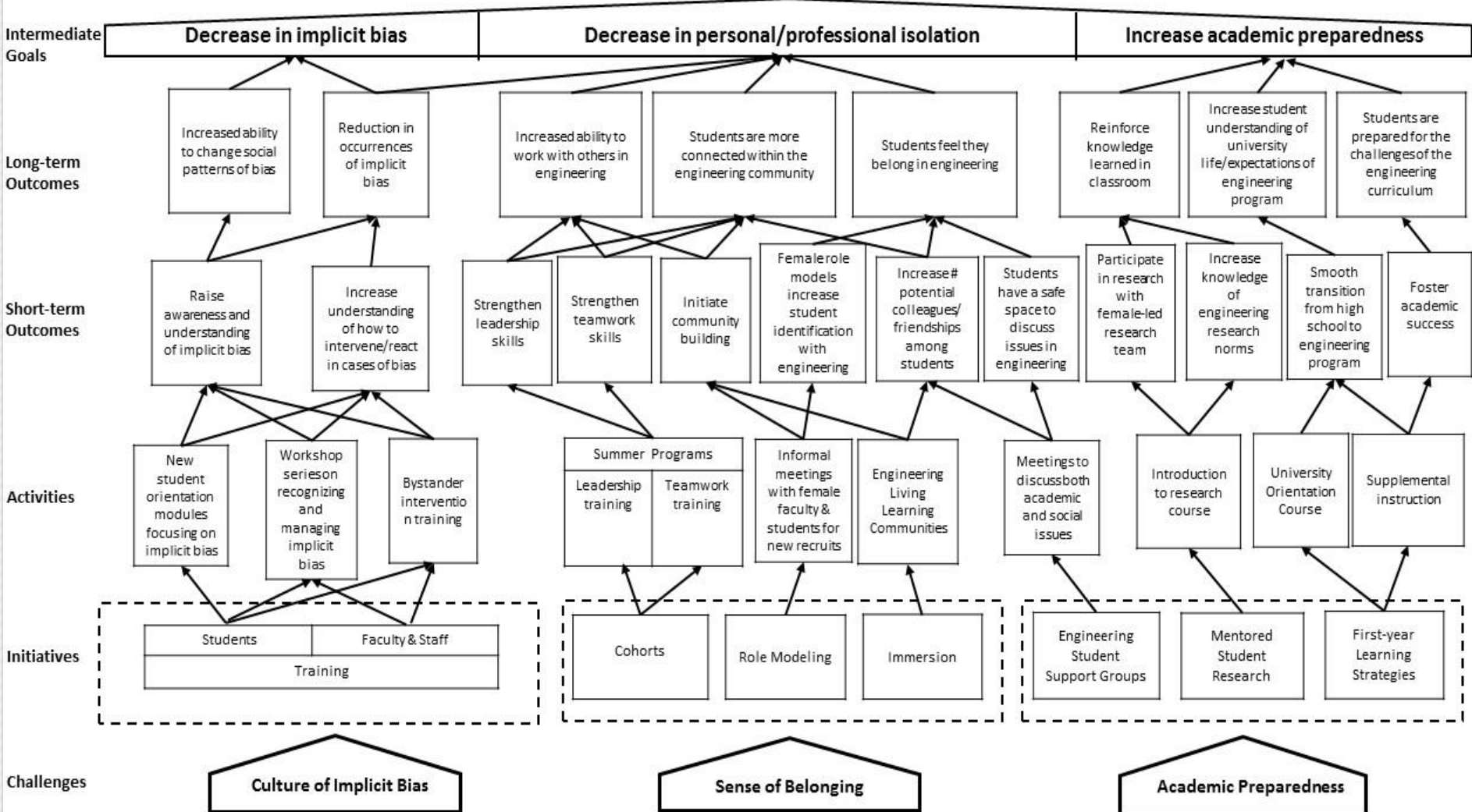
68%

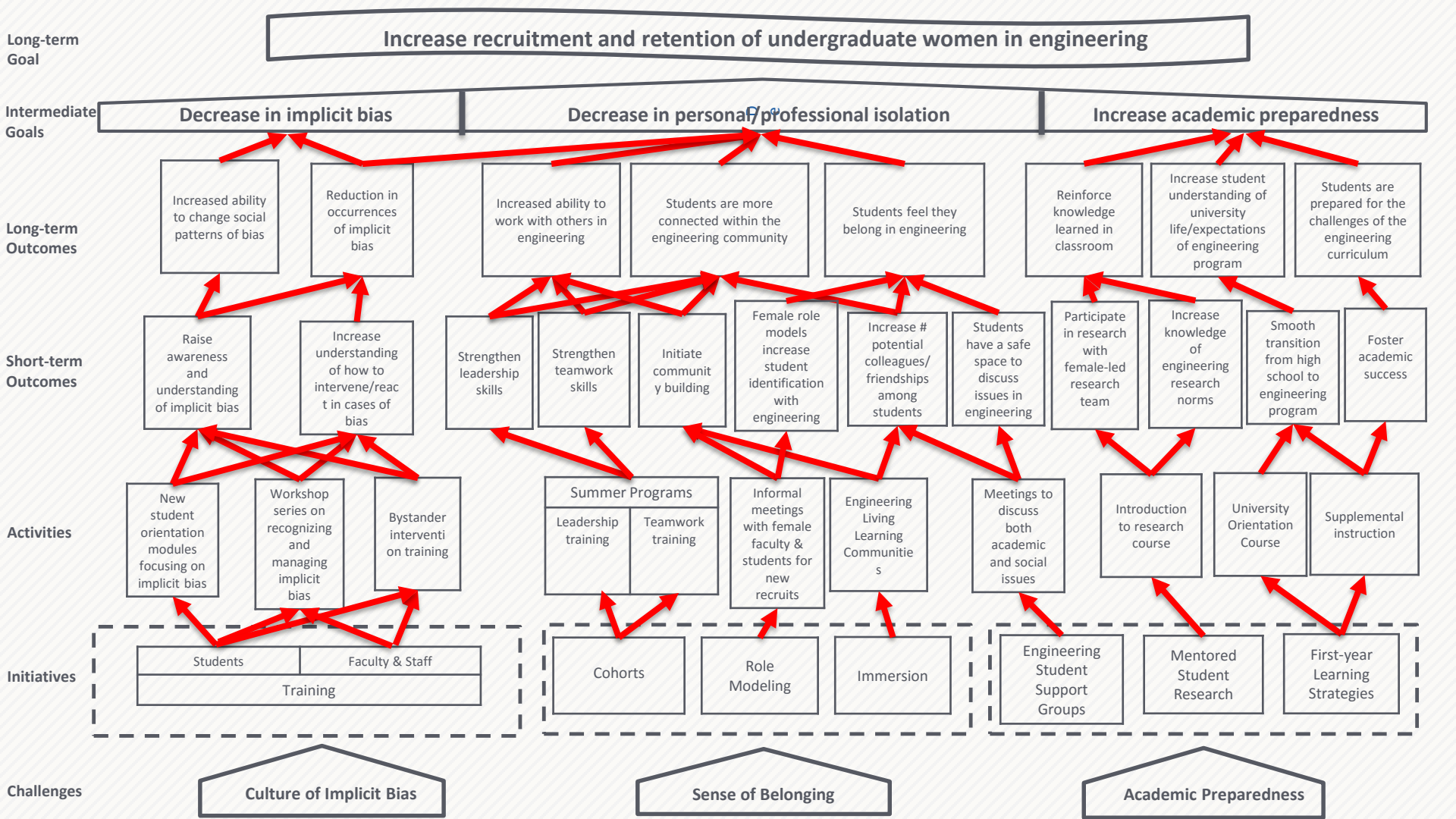
*of evaluators
reported non-use
of data as a major
problem*





If you don't know where you're going, any road will get you there







RESULTS





INSIGHT + IMPROVEMENT = RESULTS

You better show great results
if you want to stay funded



Why, what do you know,
I have great results
right here



freshspectrum.com

4 TIPS FOR REPORTING RESULTS

1

NO SURPRISES

Keep key stakeholders in the loop about the progress your project has made.

2

DISSEMINATION PLAN

Identify at the start of the evaluation process who will need what information, and how you will get it to them.

3

APPROPRIATE FORMAT

Use the appropriate format for the appropriate audience.

4

CREATE UNDERSTANDING

Be sure to review findings with your stakeholders, including unexpected or negative results. These are an opportunity for improvement.

INSIGHT

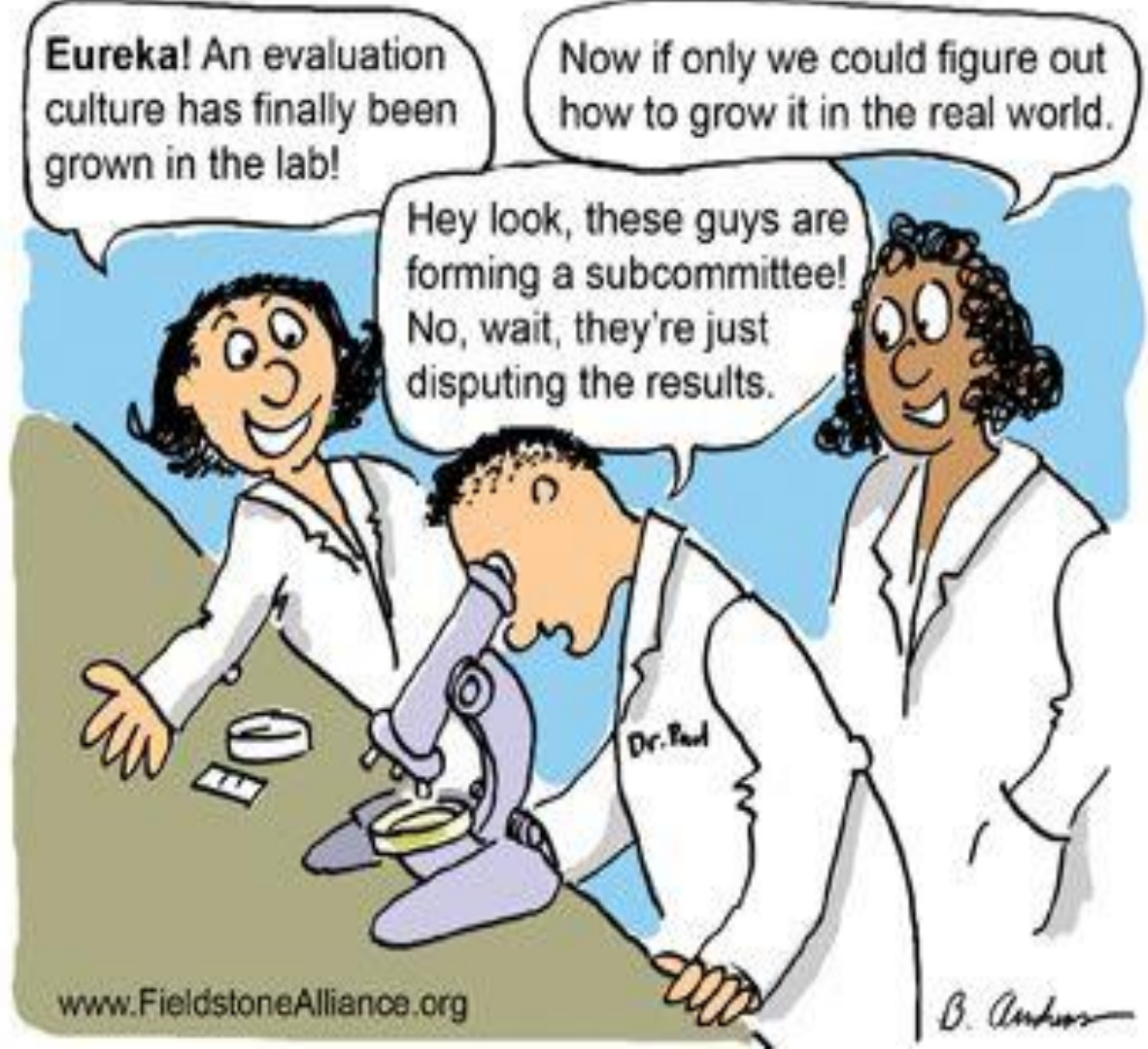
Know how your project works

IMPROVEMENT

Understand how to make your project work better

RESULTS

Be able to showcase your accomplishments





Thank you!

Pam Bishop, PhD

Director, National Institute for STEM Evaluation and Research (NISER)

Associate Director for STEM Evaluation, National Institute for
Mathematical and Biological Synthesis (NIMBioS)

pambishop@nimbios.org