

LEARNING FROM YOUR WORK

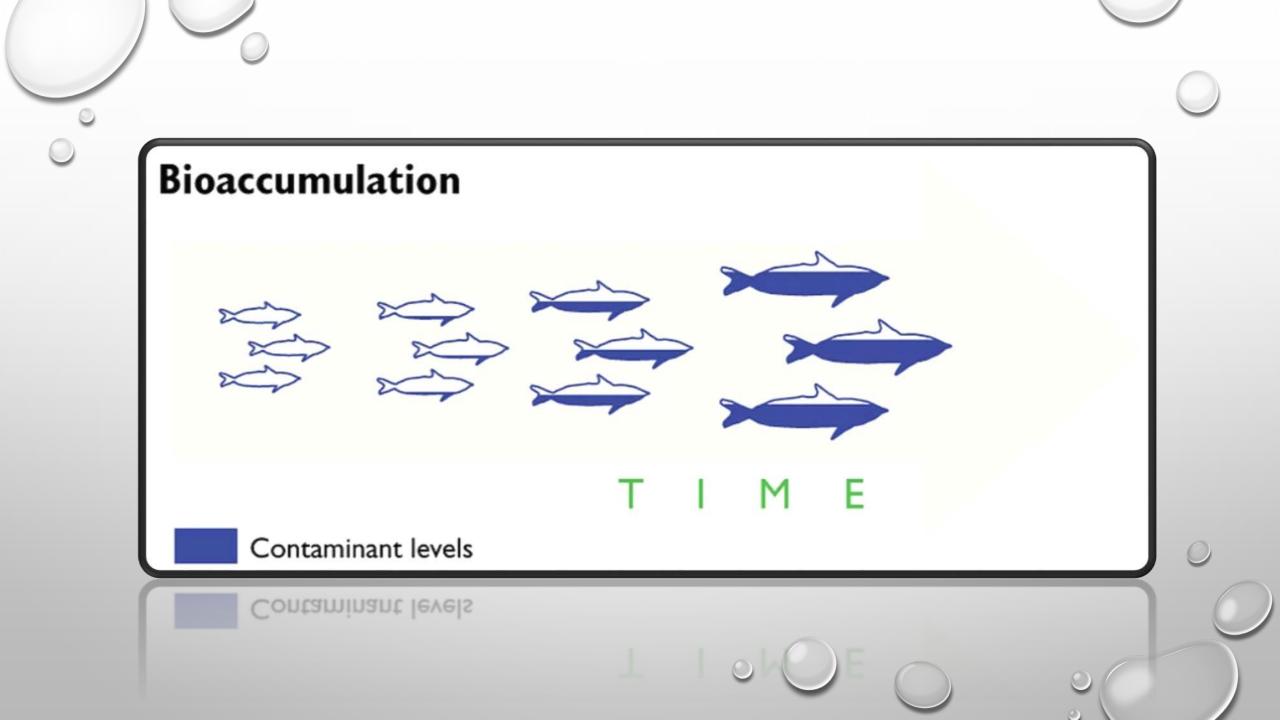
THE VALUE OF FORMATIVE EVALUATION

Meadowlands Environmental Center



















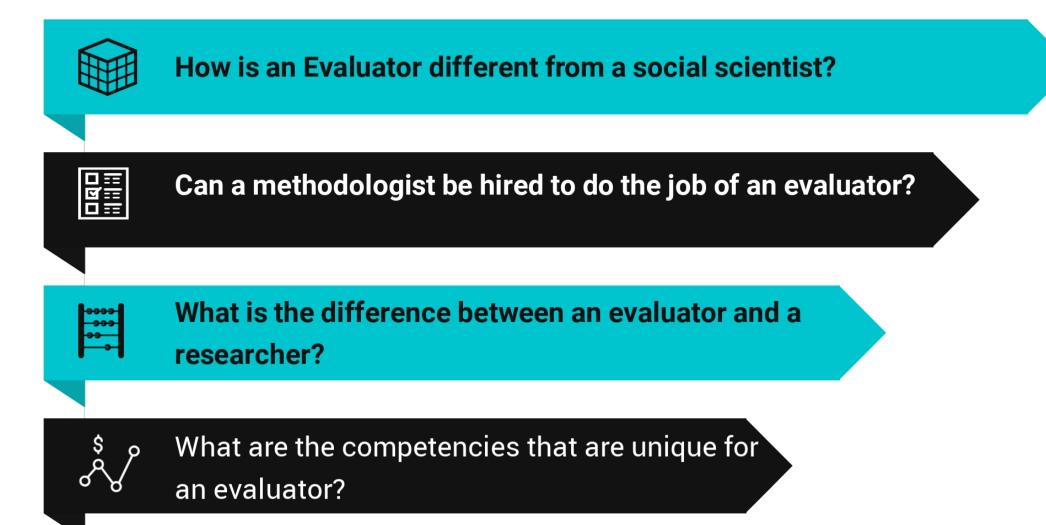
Bradford Davey

Technology for Learning Consortium, Inc. brad@techforlearning.org

Clarifying the Role of the Evaluator

Kevin P. Glass Director Center for Program Research & Evaluation EdAdvance Litchfield, CT

Primary Questions



Roles



Justifying the value of a program



Methodologist25%

Advocating rigorous experimental design



Program Facilitator

25%

Assisting in the discovery of ideas, answers and solutions



Educator

25%

Infuse useful information

Keep It Simple

Value

An evaluator should prioritize the values from different stakeholder groups when selecting the criteria of merit for evaluands.

Methods

An evaluator should be familiar with quantitative and qualitative methods and accept them both as available methods for conducting an evaluation.

Use

NEWS

An evaluator should emphasize the instrumental use of his/her evaluation findings and actively promote the dissemination of the evaluation results.

Kevin P. Glass

References

Campbell, D. T. (1984). Can we be scientific in applied social science? Evaluation studies review annual, Volume 9. Beverly Hills, CA: Sage Publications.

Luo, H. (2010). The Role for An Evaluator: A Fundamental Issue of Education and Social Programs. *International Education Studies*, 3(2).

Scriven, M. (1986). New frontiers of evaluation. *Evaluation Practice*, 7, 7-44.

Stake, R.E. (1980). Program Evaluation, Particularly Responsive Evaluation. *Rethinking Educational Research*(pp.72-87). London: Hodder & Stoughton.



EFFECTIVE METHODS OF COMMUNICATING EVALUATION REPORTS KAVITA MITTAPALLI, PH.D. CEO, MN ASSOCIATES, INC. <u>WWW.MNASSOCIATESINC.COM</u>

We DON'T want this to happen when our clients read our evaluation reports



So, we are making some big changes

- Less text, more graphs and images
- Infographics
- Digital reporting (summative reports)
- Performance indicators using data dashboards
- Online data summary reports to present formative evaluation results

Samples



A survively to gradicate more version engineers to the law more version faculty members, right? Access: Netralverse, AZEE data analysts used a data mining tool to explore the relationship Abstrace gradient diversity in the university faculty pool and the rate of female students graduating from bachelor's degree programs. Extracting faculty and graduation data between 2005 and 2012, they applied the Pearson correlation coefficient, which measures linear association between two guarditative correlation between the proportions of female faculty and the rate of female faculty and the rate of female faculty and the state of female graduates in each of 22 engineering disciplines. They found a correlation between the proportions of version faculty female faculty and the rate of female faculty have law proportions of female faculty such as engineering patients and engineering physics, engineering (general), computer sciences (inside engineering), servapaes, and civil engineering. However, they did not find a lamber correlation in disciplines that mathematic langle number of female faculty methers, and a simple correlation of the relationship hereing is a simple correlation in disciplines that mathematic langle engineering (general), computer sciences (inside engineering), servapaes, and civil engineering. However, they did not find a simple correlation in disciplines that mathematic langle engineering is a simple correlation in disciplines that mathematic langle engineering is a simple correlation of the relationality attact a high number of female faculty methers, such as engineering management, environment, chemical, and termedical engineering.

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I AND CONTRACTOR

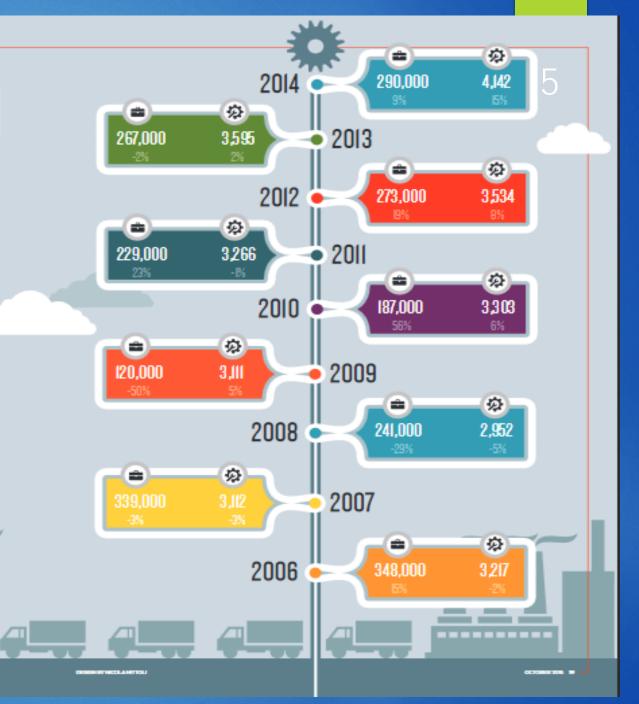
DATABYTES COMPILED BY AMLAN BANERJEE



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ENGINEERING GRADUATES & INDUSTRY DEMAND

How closely aligned are America's engineering colleges with economic trends? Part of the answer comes from a look at the manufacturing sector, which represents 12 percent of U.S. gross domestic product, according to the Commerce Department's Bureau of Economic Analysis. The accompanying graphic compares two decade-long trends: total job openings in U.S. manufacturing, as measured by the Bureau of Labor Statistics (BLS); and ASEE's count of the number of bachelor's degrees awarded in industrial/manufacturing/systems engineering by all U.S. engineering schools. Both cover the period 2005 to 2014. The comparison isn't ideal, because BLS doesn't tabulate engineering-related job openings. Still, the data are revealing. They show that the number of job openings fluctuated more widely than the number of degrees awarded. In parallel with manufacturing industry's decline during the Great Recession (December 2007 to June 2009), the number of degrees awarded in industrial/ manufacturing/systems also decreased but at a much slower rate. However, the latter number rebounded in 2009, much earlier than the end of the recession in 2009 when the manufacturing industry begin to recover. Since the end of the recession, both the demand (job openings) and supply (degrees awarded) sides of the manufacturing labor market have trended upward at different rates, indicating that the supply side tends to be less sensitive to business cycles than the demand side.



Additional Resources from MNA 1. Front Range Community College – Title III Dashboard

https://tinyurl.com/ycm8xpkc



This dashboard was developed for Front Range Community College as part of the U.S. Department of Education Title III grant they recently received.

It was produced by MN Associates, Inc.

Navigation

Use the tabs above to navigate to the various sections. AP = Academic Programs IM = Institutional Management FS = Fiscal Stability

For all figures, the goals are shown in green and the actual measures are shown in blue.

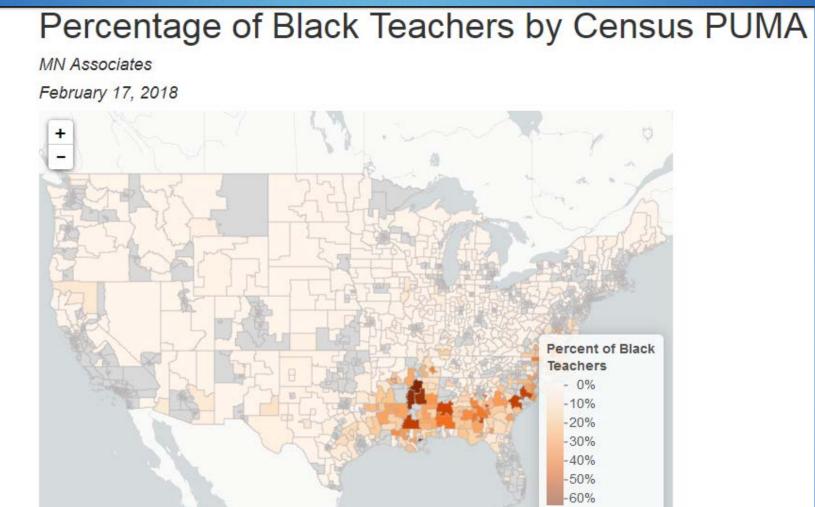
By Sept. 30, 2022, increase first-time student fall-to-fall retention rate to 50% (Baseline 43%: Avg. AY 2010-2015) 2. Young Audiences – Summer Arts Learning Program

https://tinyurl.com/yc43vfp9



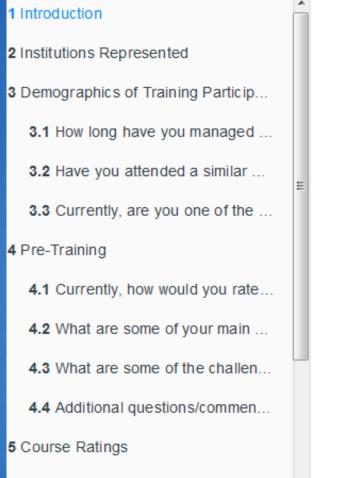
3. Black Teacher Collaborative- Teacher Diversity Issues in the US – An interactive Map

https://tinyurl.com/ycab2947



4. Cuyahoga Community College – Formative Survey Results in an Online Interactive Format

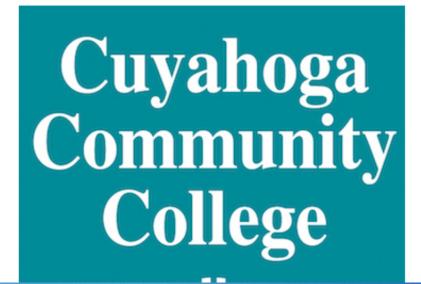
https://tinyurl.com/y92hdr3s



5.1 How would you rate the qualit

TRIO survey analyses 2018

1 Introduction



Using Communitybased Participatory Research in Evaluation

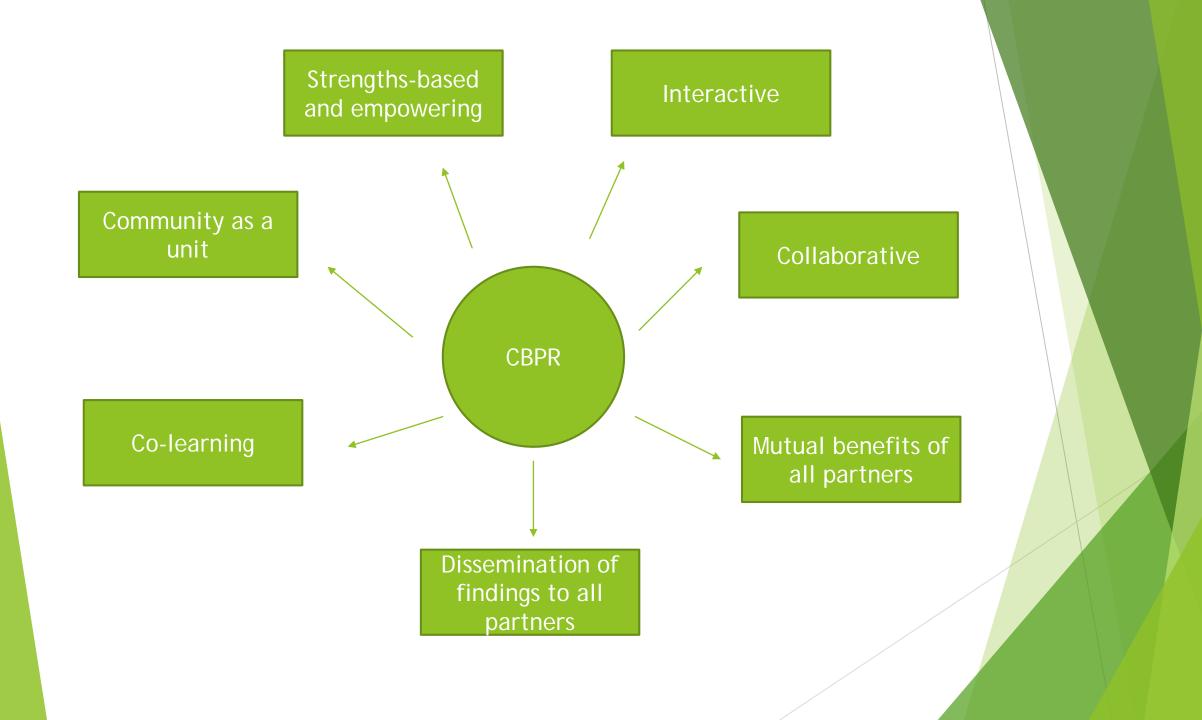


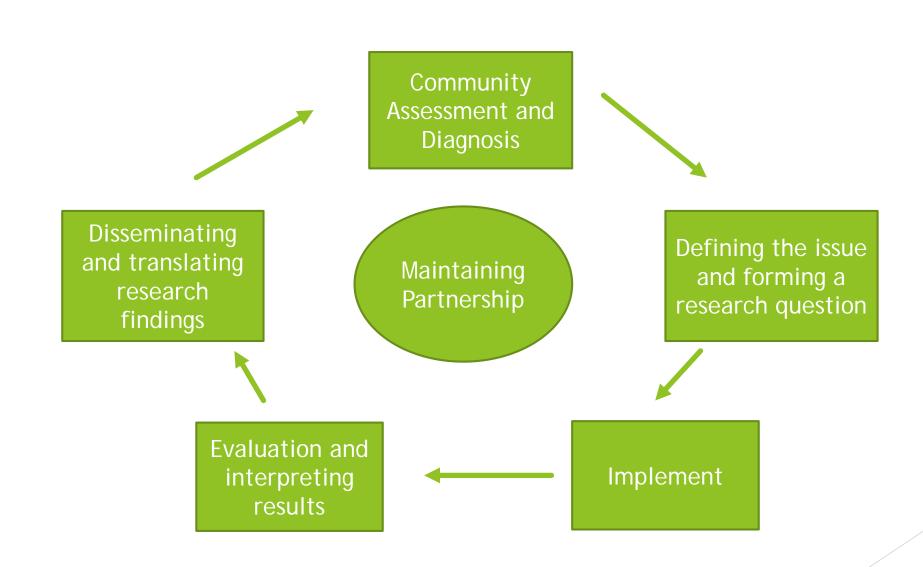
Rucha Londhe ruchalondhe@gmail.com

- Research that equitably involves community members, organizational representatives, and researchers in all aspects of the research process and in which all partners contribute expertise and share decision making and ownership*.
- Used heavily in health research, the aim of CBPR is to increase knowledge and understanding of a given phenomenon and integrate the knowledge gained with interventions and policy and social change to improve the outcomes for community members.



*https://www.rri-tools.eu/how-to-pa-science-education





Israel, B. A. (2005). Methods in community-based participatory research for health (1st ed.). San Francisco, CA: Jossey-Bass

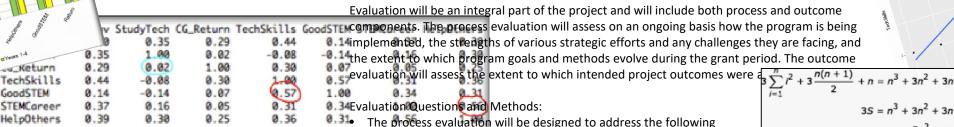


Many Hats of Evaluation

David Reider, Education Design, INC



Evaluation



boundaries?

questions:

Process evaluation

YR 6 comparison YRS 1-4, interview dimensions

Return

GoodSTEM

- Impact evaluation
- Outcome evaluation
- Developmental evaluation
- In-situ data capture

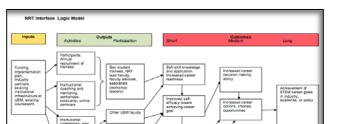
 $3S = n^3 + 3n^2 + 3n - (3\frac{n(n+1)}{2} + n)$ • 1) How did the group decision-making tools used in the project faculty leverage skills, knowledge, and resources across tradition $n(2n^2 + 3n + 1)$ $2n^3 + 3n^2 + n$ n(n+1)(2n+1)

Topics Years 5-6 (all sites)

- 2) How, if at all, did the nature of the program goals and method experience during the grant period? Data collection strategies will include the external evaluator attendance at quarterly project team meetings where field notes will be taken, an annual online survey
- administered to lead project members, and semiannual guided reflections on the "big ideas" instructors intend to convey to students, their particular strategies in teaching these topics, and their rationale for the choice of strategies.

The outcome evaluation will focus on the question: Using the pedagogical context knowledge framework (knowledge of content, curriculum, student thinking, instructional strategies, and assessment), in what ways, if any, did the project grow faculty understanding of students learning progressions from MS to HS to undergraduate level science learning?

The primary data collection strategy for the outcome evaluation will be annual, audio-record focus groups conducted by the external evaluator with key members of the project team.



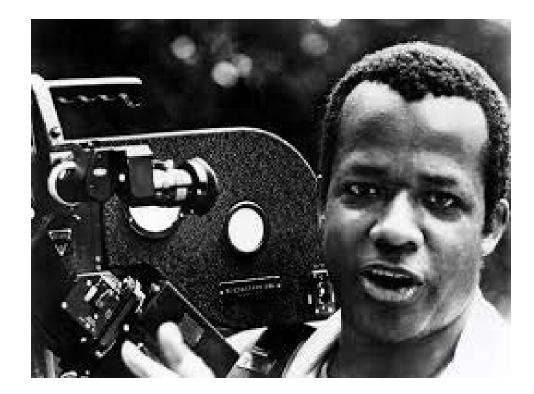
Program Evaluation Data Analysis and Reporting: Quantitative data will be analyzed using descriptive and inferential statistics as appropriate. Qualitative data from open-ended survey questions,

staff reflections, and the focus groups will be analyzed using a grounded theory approach, through which

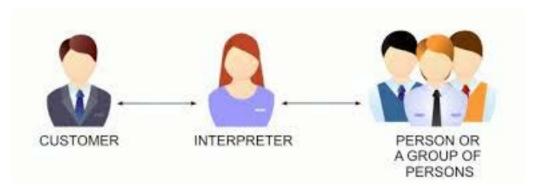
Researcher



Documentarian



Interpreter

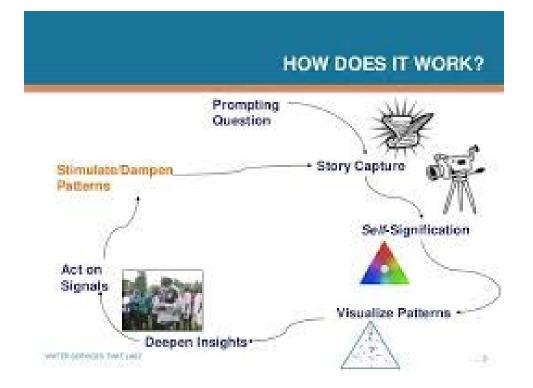


Critic





Sensemaker



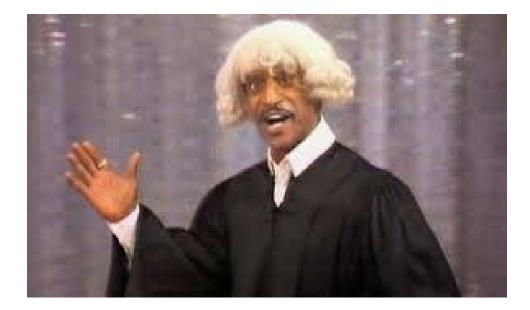
Idea Traveler



Mediator



Judge



Consigliere



Hat Compounding

