Tools for Building Assessment & Evaluation Plan

Michelle B Burd PhD RGV STEM Education Conference, McAllen, TX Feb 2020

Overall Goals

• Explore <u>meaning</u>, <u>purpose</u>, & <u>types</u> of evaluation

• Examine of <u>tools</u> for planning evaluations

• Make <u>applications</u> to your projects

Plan for Session

Introductions

you, me, we

Concepts, Definitions foundation of evaluation

Theory of change, Logic models, Gantt charts, Timetables

Michelle Burd

- Independent evaluation consultant
- Flew from Austin to Harlingen, drove to McAllen
- Lots of evaluation plans



How did you get to this conference?

Drive 0-100 miles

Drive more than 100 miles



Fly
Bike





What is your position at your place of work?

□K-12 educator

□K-12 administrator

□University faculty member

□University administrator

DStudent

DEvaluator

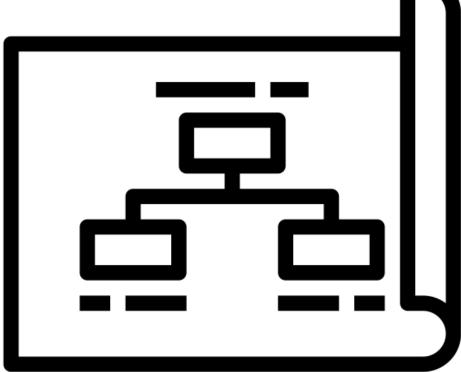
Other

Have you ever written or collaborated on an evaluation plan before?

UYes

□No

□Not sure





From RGV or not?

Our work?

Our experience with evaluation planning?

What do funders want?

Who? What? How? When?

What do funders want?

Who? What? Framework for evaluation How? Methodology When? Timeline



Evaluation =

the systematic determination of

the quality, value, or significance of

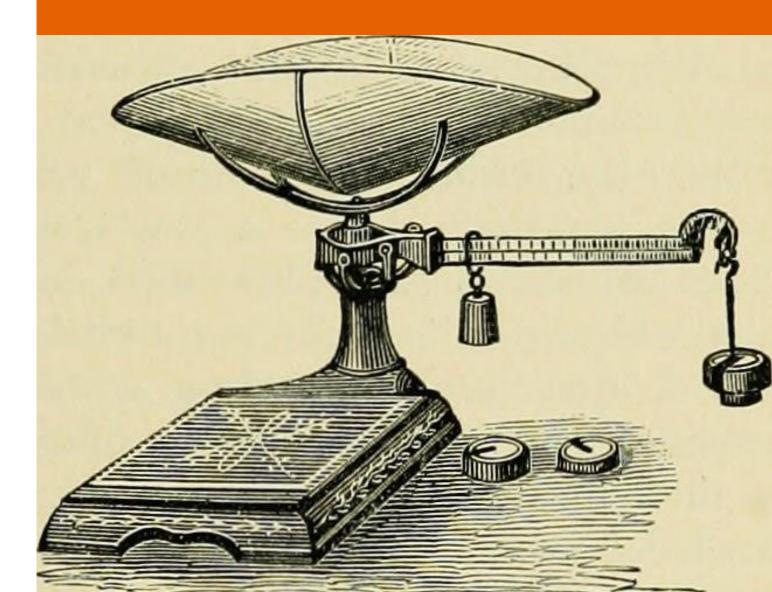
a program, policy or product

Identify criteria

Gather data about object

Make judgments about how well it met criteria

How to evaluate?

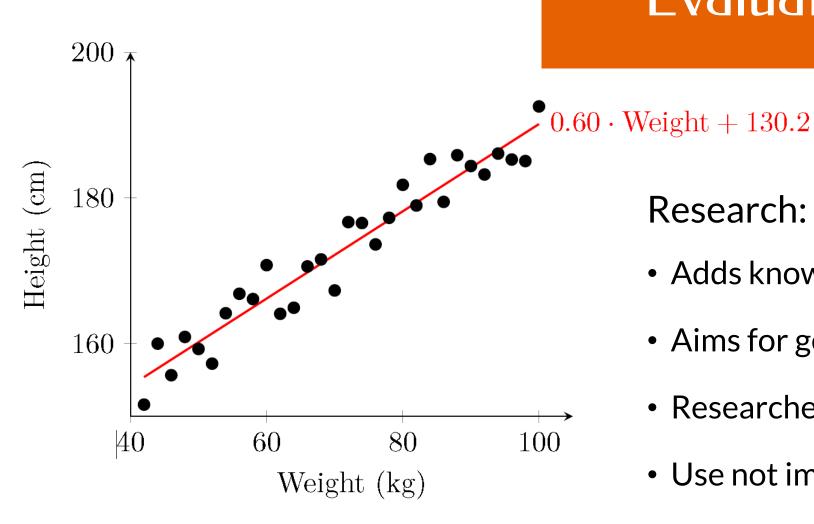


Real Life Example

"Find the washing machine that's right for you"

Consumer Reports





Evaluation \neq Research

Research:

- Adds knowledge, laws, & theories
- Aims for generalizable results
- Researchers set agenda
- Use not important
- Standard = internal & external validity

Evaluation:

- Makes judgments, info for decisionmaking
- Context-specific results
- Stakeholders & evaluator set agenda
- Intended use of results very important
- Standard = accuracy, utility, feasibility, propriety, accountability

Evaluation \neq Research



Formative Evaluation

- Purpose is to improve program Feedback for managers & staff Data used to diagnose (& make judgments)
- What is working? How well is it working? What needs improvement? How could it be improved?

Two Types



Summative Evaluation

- Purpose is to make decisions
 about future
 Info to administrators, funders
 Data used to make judgments
- What results occurred? For whom?
- Under what conditions?
- What were the costs?
- Is it worthwhile, sustainable?

Two Types



Activity 1: Research or Evaluation?

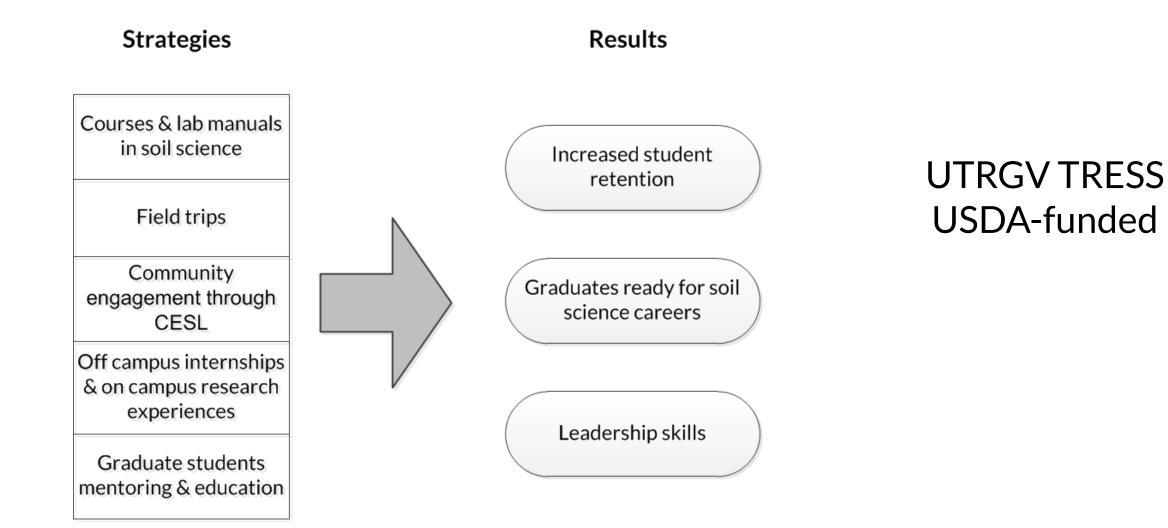
Sort cards sort into 2 piles:

• Research

Evaluation

What? Tools to Frame Eval

Theory of Change



Ways to Model Projects

Theory of Change

Program Logic Model

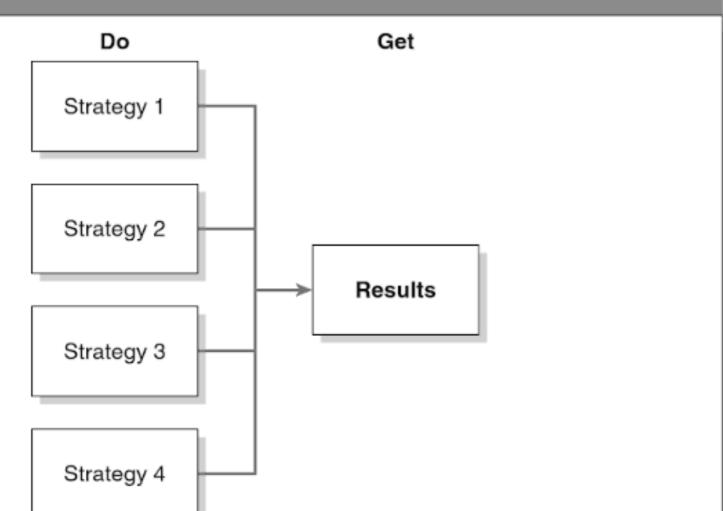
Theory of Change

Basic Theory of Change Do Get Strategies Results

Knowlton & Phillips, (2013). The Logic Model Guidebook

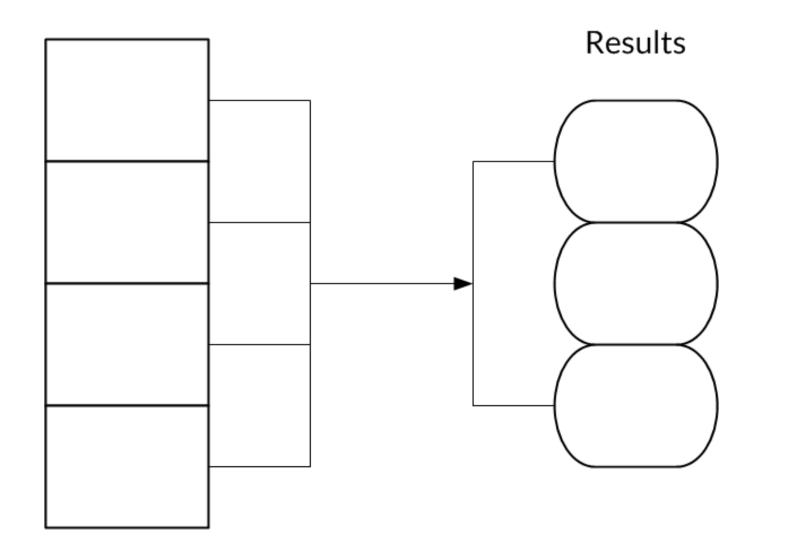
Theory of Change

Multiple-Strategy Basic Theory of Change

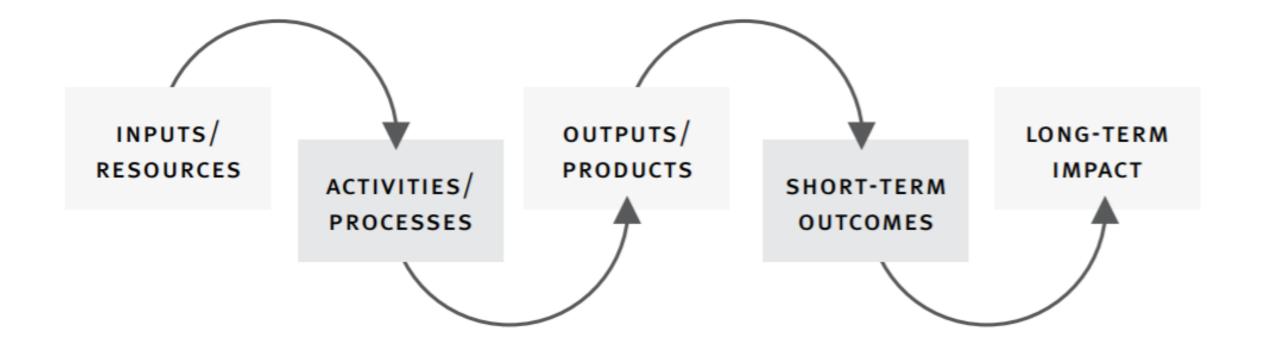


Activity 2: Your Theory of Change

Strategies



Program Logic Model



Patton (2014). Evaluation Flash Cards

Resources





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Activities Dutputs

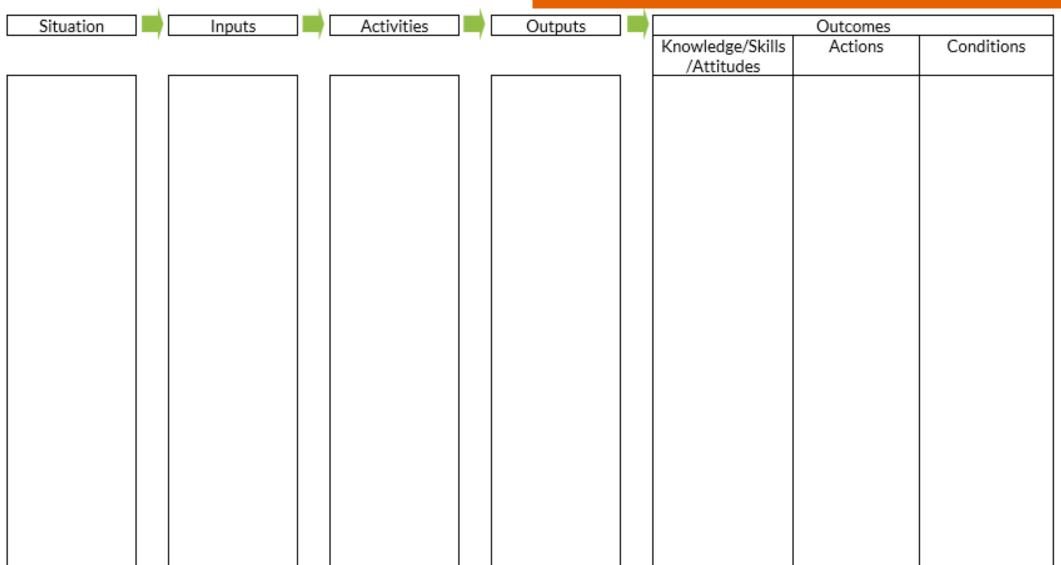
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Leadership 11012 Leadership is the The individuals who are a person who guides '

Activity 3: Your Logic Model

LOGIC MODEL: Your Project



Evaluation Questions

Nonevaluative vs. Evaluative

What's so? vs. So what?

How many? How much? vs. How well? How worthwhile? How sustainable?

3 Key Evaluative Questions

1. What is the quality of the project (i.e., its content, design, & delivery)?

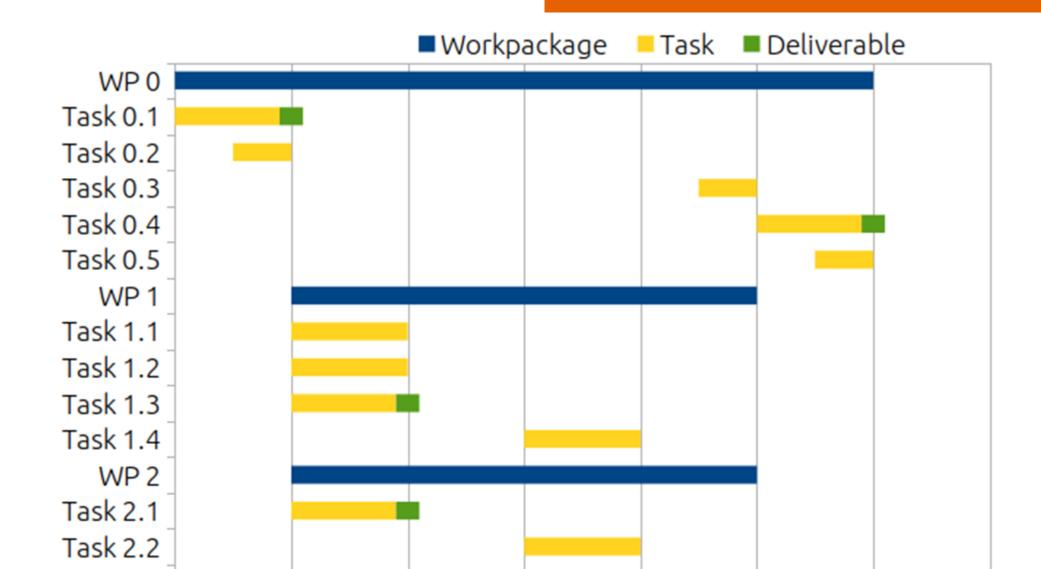
2. What is the value of the project to participants & the organization?

3. Was it worth implementing? Is it worth continuing to fund?

When? Evaluation Timetable

Data Source	Frequency
Pre- & post-surveys of STEM students	Beginning & end of year annually
Focus group with students	Once/year in 1 st 2 years of project
Survey of faculty & external mentors	Once/year
Interviews with key informants in administration & project staff	Once/year
Exit interviews with sample of students	End of degree in 4 th & 5 th years
Project & institutional documents	As available

Gantt Chart



Evaluation Timeline

Time	Evaluation Activities
Phase 1:	Examine documents & context of project
January 2020	Interviews with key informants about project history and context
	Study pertinent literature, materials, measures, data collection methods, & findings
February 2020	Develop evaluation rubric
	Facilitate conversation about project processes and outcomes
	Draft Theory of Change, evaluation criteria, and scale
March-April 2020	Collect & analyze institutional data
	Study & graphically represent 10 years of project data
Phase 2:	Develop measures
	Develop interview questions for students and survey for faculty
May 2020	Collect data
	Gather phone interviews with students
	Administer online survey with faculty
June 2020	Analyze data
	Determine best plan for analyses linked with evaluation questions and sample sizes
	Analyze and synthesize data
	Visualize data graphically
July-August 2020	Deliver annual report
	Write up technical report detailing methodology, findings and implications

Reach Out

Attributions

Icons from the Noun Project:

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