



Data Strategy and Evaluation Seminar Series

EVALUATION

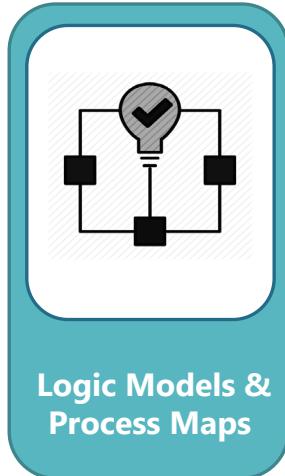
Mia Bird

HOUSEKEEPING/ZOOM

STRATEGIC FRAMEWORK FOR DATA-DRIVEN AND EVIDENCE BASED PRACTICE



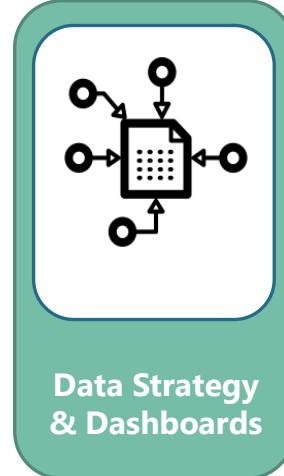
Program
Inventory &
Literature Review



Logic Models &
Process Maps



Contracting
Practices



Data Strategy
& Dashboards



Program
Evaluation
& Cost Benefit
Analysis

Seminar Series 1: Programming

Seminar Series 2: Data Strategy and Evaluation

DATA & EVALUATION SERIES CORE COMPONENTS

Data Strategy, Part 1

- Accessing County Data (Nov 2020)

Data Strategy, Part 2

- Accessing State Data (Jan 2021)

Data Strategy, Part 3

- Integrating County and State Data (Mar 2021)

Data Dashboards

- Visualizing Data (May 2021)

Outcomes Evaluation

- Evaluating Program Outcomes (July 2021)

AUDIENCES FOR TODAY'S EVALUATION SEMINAR



Researchers within agencies and departments who will conduct evaluations



Managers who will oversee internal researchers conducting evaluations



Managers/leadership who will oversee external evaluators

OUTLINE OF TOPICS FOR TODAY

Theory of
Change

Data
Strategy

Program
Evaluation

Policy
Evaluation

WHAT IS THE THEORY OF CHANGE?

Before evaluating a program or policy, we need to understand the theory underlies the design



A logic model is a tool to articulate the theory of change:

Shows the key design components of the program or policy

Reveals the key assumptions that are made (and could be tested)

Represents relationship between intervention & intended outcomes

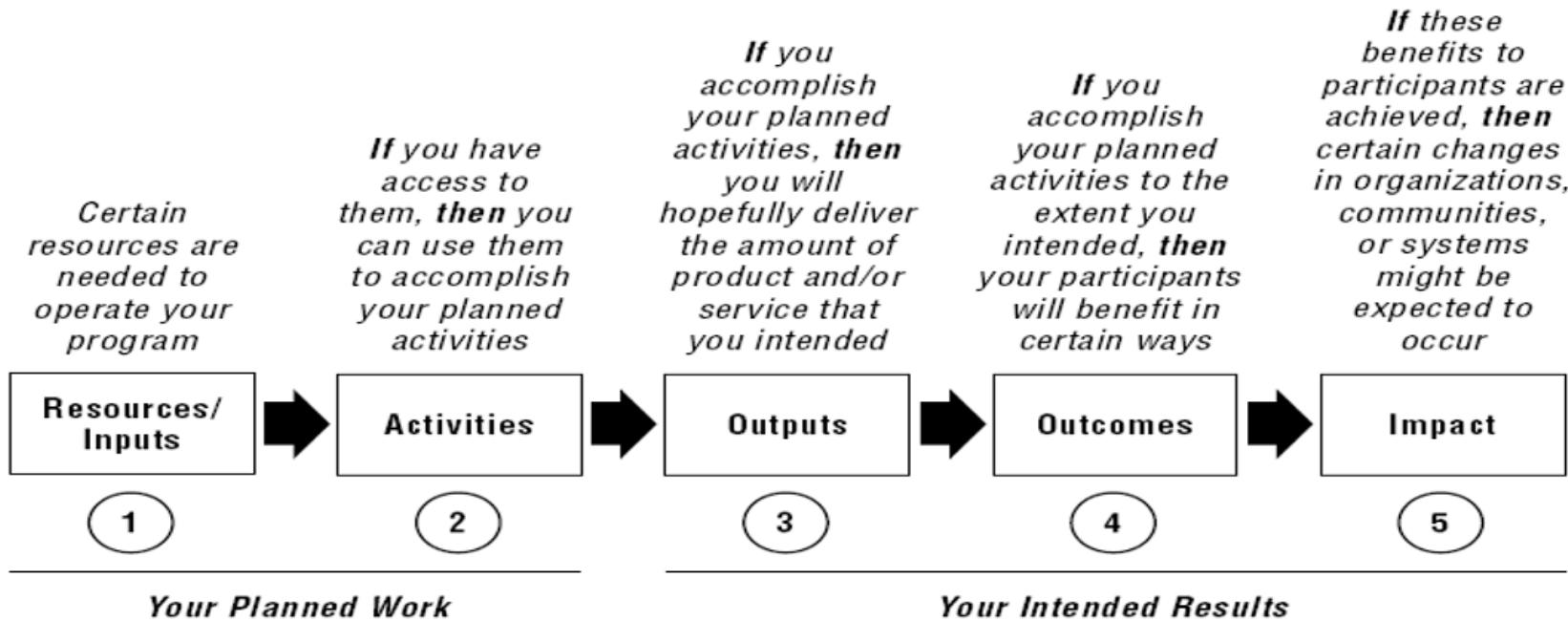
Identifies key data points required to evaluate outcomes

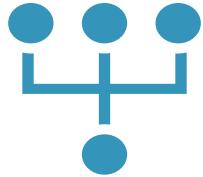
CORE COMPONENTS OF A LOGIC MODEL

Logic models include 5 core components:

- 1) **Resources/Inputs** needed
- 2) **Activities** that comprise the program
- 3) Planned **outputs**
- 4) Intended (shorter-term) **outcomes**
- 5) Aspired (longer-term) **impact**

COMPONENTS & ASSUMPTIONS

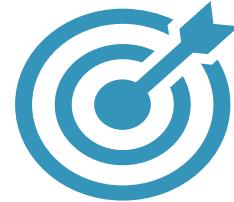




Process Evaluation

Were the expected **resources** available?

Did those resources produce the planned
activities?



Outcomes Evaluation

Did those resources and activities produce
the anticipated **outputs**?

Did those outputs lead to the intended
outcomes?

LOGIC MODELS HELP STRUCTURE EVALUATIONS

IMPORTANCE OF DATA STRATEGY

Data strategy makes evaluation feasible

- Identifies key data elements needs to understand the population characteristics, program or policy intervention, and outcomes
- Brings these data together in one place to allow for integration
- Allows for analyses over time and across place

METHODOLOGICAL DESIGN: COMPARING OUTCOMES BEFORE AND AFTER A PROGRAM

Motivation

- Did outcomes improve for participants?

Methodological Challenges

- Participants may be at a low point prior to starting the program

Before-and-after comparisons are a good starting place, but we often want to more rigorously test a seemingly effective program

METHODOLOGICAL DESIGN: COMPARING OUTCOMES BETWEEN PARTICIPANTS AND NON-PARTICIPANTS

Motivation

- Did participants have better outcomes than non-participants?

Methodological Challenges

- Participants may be positively-selected (more motivated)
- Participants may also be negatively-selected (higher need)

We can often use statistical methods to adjust for observed differences between participants and non-participants

PROGRAM EVALUATION: METHODOLOGICAL STRATEGIES TO ADDRESS SELECTION



EXPERIMENTAL STRATEGIES

Randomized Control Trials (RCTs):

- Control selection mechanism into treatment
- Create treated group and control (comparison) group

If randomization is successful:

- Observed characteristics should be similar in treated and control groups
- Importantly, unobserved characteristics should also be similar

FEASIBILITY OF RANDOMIZED CONTROL TRIALS

Randomized Control Trials (RCTs) may not be feasible

- Coordination challenges
- Legal or ethical issues

RCTs may be more difficult to implement on the front end, but require simple methods to determine program effects on the back end

- When randomization is successful, we simply compare participant and non-participant outcomes to determine program effects

PSEUDO-EXPERIMENTAL STRATEGIES

Regression Discontinuity

- Cutoff point for entry into program
- Theoretical randomness around that cutoff point
- Compare outcomes of small groups on either side of that cut off point (treatment and control groups)

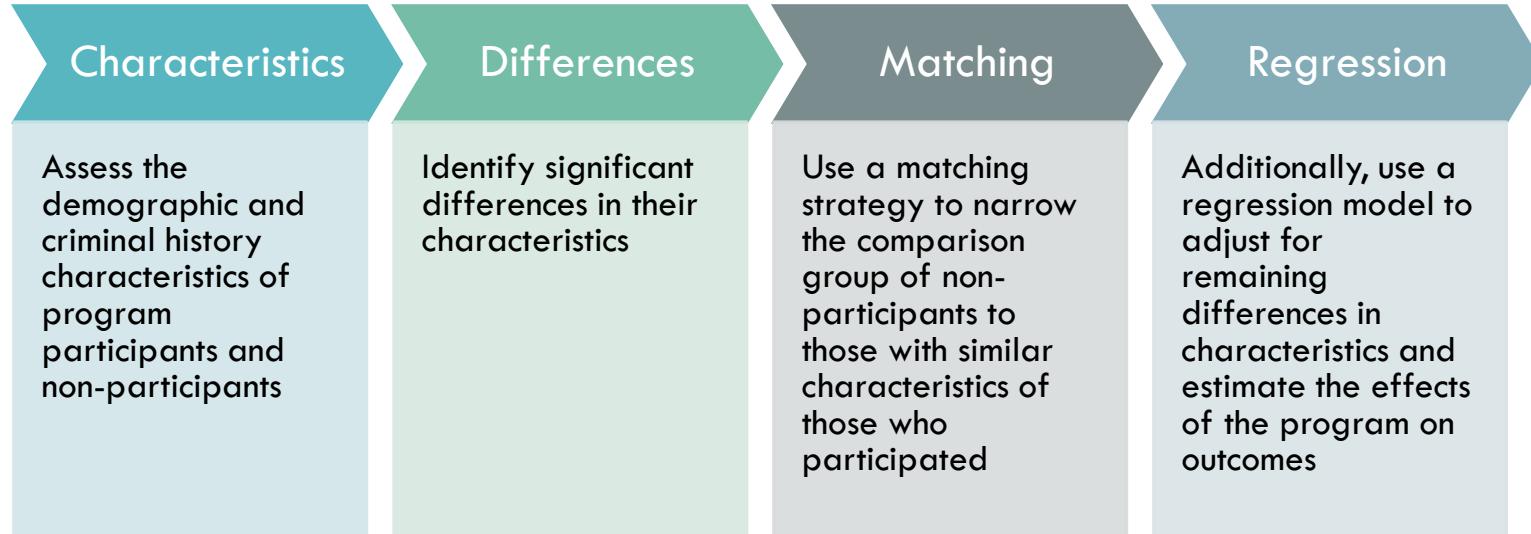
Concerns about external validity

INTERNAL & EXTERNAL VALIDITY

Internal Validity: How accurately your evaluation estimates the true effects of the program for those who participated in it

External Validity: How well your evaluation estimates generalize beyond the treated group in the study environment

OBSERVATIONAL STRATEGIES: ADJUST FOR DIFFERENCES IN OBSERVED CHARACTERISTICS BETWEEN PROGRAM PARTICIPANTS AND NON-PARTICIPANTS



OBSERVATIONAL STRATEGIES: LEVERAGE VARIATION IN PROGRAM EXPOSURE

Variation in program implementation helps us to address individual self-selection into treatment

Program implementation dynamics that may be helpful:

- Program available at point in time
- Program available in certain places
- Program available to certain participants

Leverage these sources of variation to construct treatment and comparison groups

APPLYING PROGRAM EVALUATION FINDINGS TO DECISION-MAKING

If found to be effective:

- Should the program be expanded? To whom?

If not found to be effective:

- Was the program implemented as intended?
- Should the program be better targeted?
- Should the model be changed or replaced?



QUESTIONS AND DISCUSSION



POLICY EVALUATION

Policy evaluation is distinguished from program evaluation:

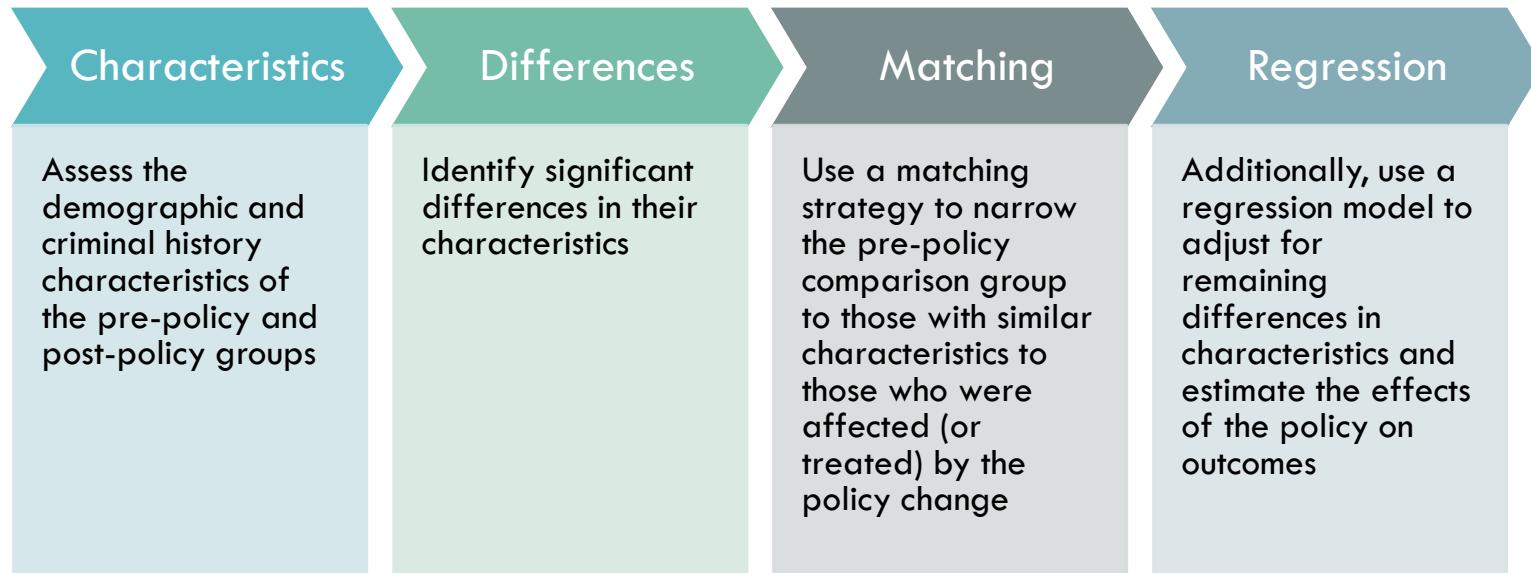
- Evaluates high-level change in state or county policy
- There are “pre” and “post” periods of policy implementation
- This variation over time creates opportunities to conduct a “natural policy experiment”

METHODOLOGICAL DESIGN: COMPARING OUTCOMES BEFORE AND AFTER A CHANGE IN POLICY

Comparing outcomes before and after a policy change is an effective methodological strategy because:

- Treated and control (comparison) groups are likely to have similar observed and unobserved characteristics
- In a narrow time window of policy change, it is unlikely that other factors (which may affect outcomes) have changed

METHODOLOGICAL DESIGN: COMPARING OUTCOMES BEFORE AND AFTER A CHANGE IN POLICY



POLICY EXAMPLE

Public Safety Realignment dramatically changed the policy treatment for different groups of individuals

Individuals who would have been sentenced to prison and released on parole now experienced a range of local sanctions depending on their criminal characteristics

- In [this study](#), we use a pre-post design and leverage the natural policy experiment to estimate the causal effects of realignment for different treated groups

METHODOLOGICAL DESIGN: ADJUSTING FOR BROADER CHANGES OVER TIME

While a pre-post analysis of the effects of a policy change on outcomes is considered a strong design, it is helpful to add an additional adjustment for changes over time

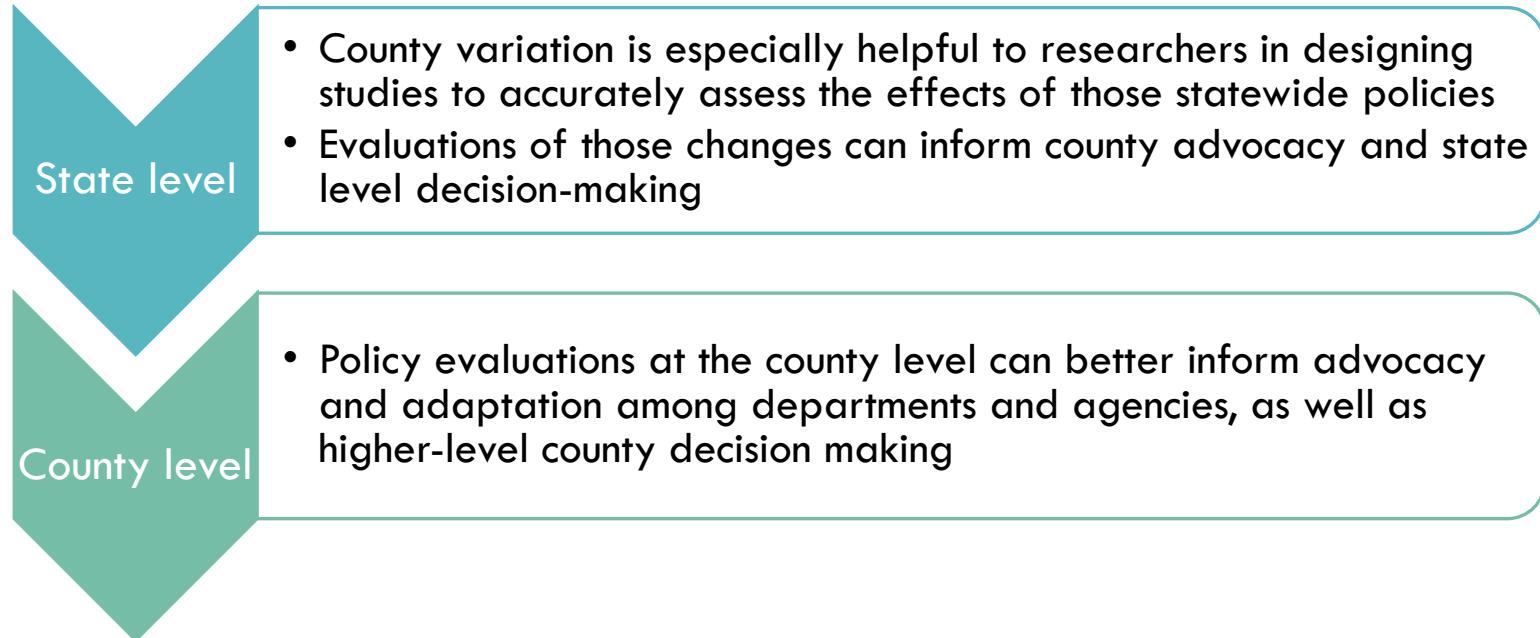


A difference-in-differences model estimates the effects of a policy change on outcomes for a pre-post treated cohort

It then allows us to “difference out” any broader changes over time, as captured by the change in outcomes for a pre-post untreated cohort

This study of the effects of Prop 47 employs a differences-in-differences analysis

APPLYING POLICY EVALUATION FINDINGS TO DECISION-MAKING



WORKSHOP: EFFECTS OF ZERO BAIL (UNDER COVID) ON PRETRIAL MISCONDUCT, RECIDIVISM, AND CRIME?

WHAT QUESTIONS
WOULD YOU LIKE
TO ANSWER IN
YOUR COUNTY?

HOW MIGHT YOU
DESIGN A POLICY
EVALUATION?

QUESTIONS AND DISCUSSION



MATERIALS, GUIDES, AND TEMPLATES

Materials available:

[Step-by-Step Guide to Evaluation](#)

[Key Items to Get Right When Conducting RCTs](#)

Data & Evaluation Series Info:

<https://www.counties.org/framework-seminar-series>

Support Hub Website:

<https://www.counties.org/csac-support-hub>



LOOKING AHEAD

TECHNICAL ASSISTANCE



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