

Causal modeling

USAID MENA Advanced MEL Workshop

2024-06-21

Welcome!

- Who we are
- What we do
- How we hope to help you

Objectives of workshop sessions

- Introduce advanced-level content around Monitoring, Evaluation, and Learning (MEL)
- Review current trends in data analytics, causal inference, machine learning, and Artificial General Intelligence (AGI)

Benchmarks for success

By the end of this session, participants will be able to:

- Understand USAID practice around causal modeling
- Introduce new analytical developments that can extend USAID practice of causal modeling and link it to impact evaluation and learning agendas
- Identify management opportunities to incorporate best practice and new trends into activity implementation

Benchmarks for success

Bonus content:

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Level Set

How does USAID do causal modeling?

- ADS 201
- How-To Note: Developing a Project Logic Model
- Technical Note: The Logical Framework
- In Defense of Logic Models

Logic model

- A graphic or visual depiction of a theory of change that illustrates the connection between what a strategy, project, or activity will do and what it hopes to achieve
- There are a wide range of logic models
 - Results Framework
 - LogFrame
 - Causal loop diagram

Results Framework

- A type of logic model representing the development hypothesis of a USAID mission's strategy
- Diagrams the causal links between the strategy's Goal, Development Objectives (DOs), and Intermediate Results (IRs)

LogFrame

- Complements the CDCS Results Framework by carrying the development hypothesis through from the overall program/project to the supporting activities
- LogFrame replicates the causal linkages, but starting from a Development Objective and ending with activity inputs
- While the Results Framework is a strategic planning tool, an activity's Logical Framework defines exactly what resources are needed to achieve results

Causal loop diagram

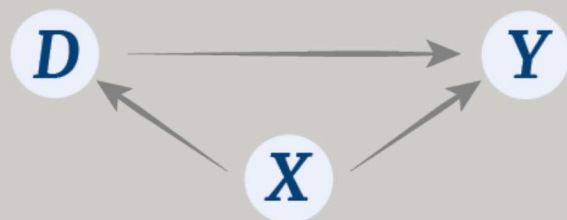
- Identifies the primary variables of a complex system and visualizes their relationships

New directions

Directed Acyclic Graphs (DAGs)

The four confounds

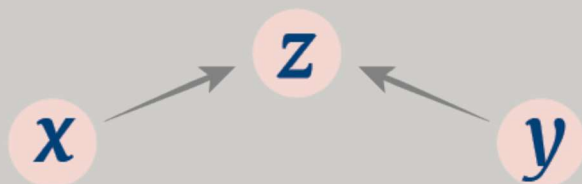
The Fork



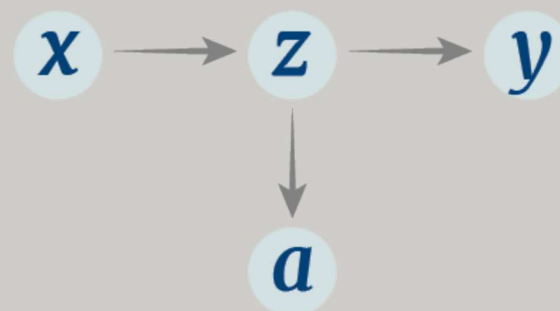
The Pipe



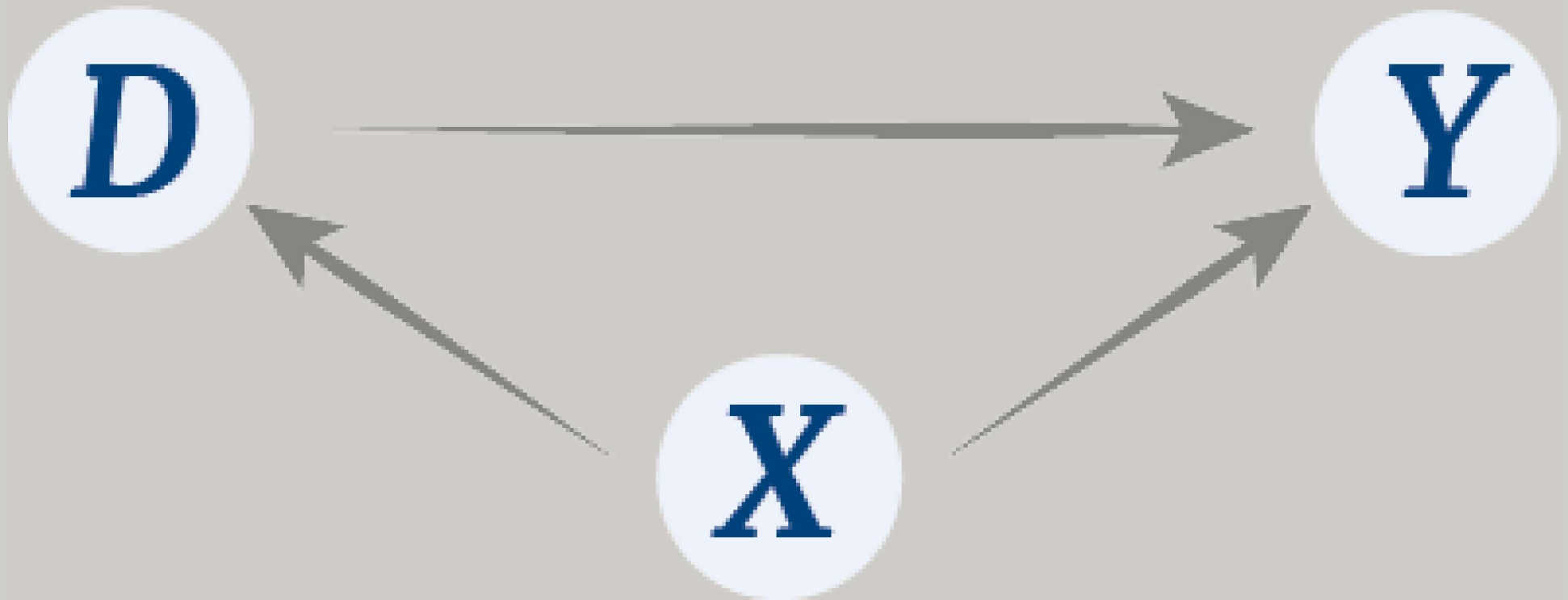
The Collider



The Descendant



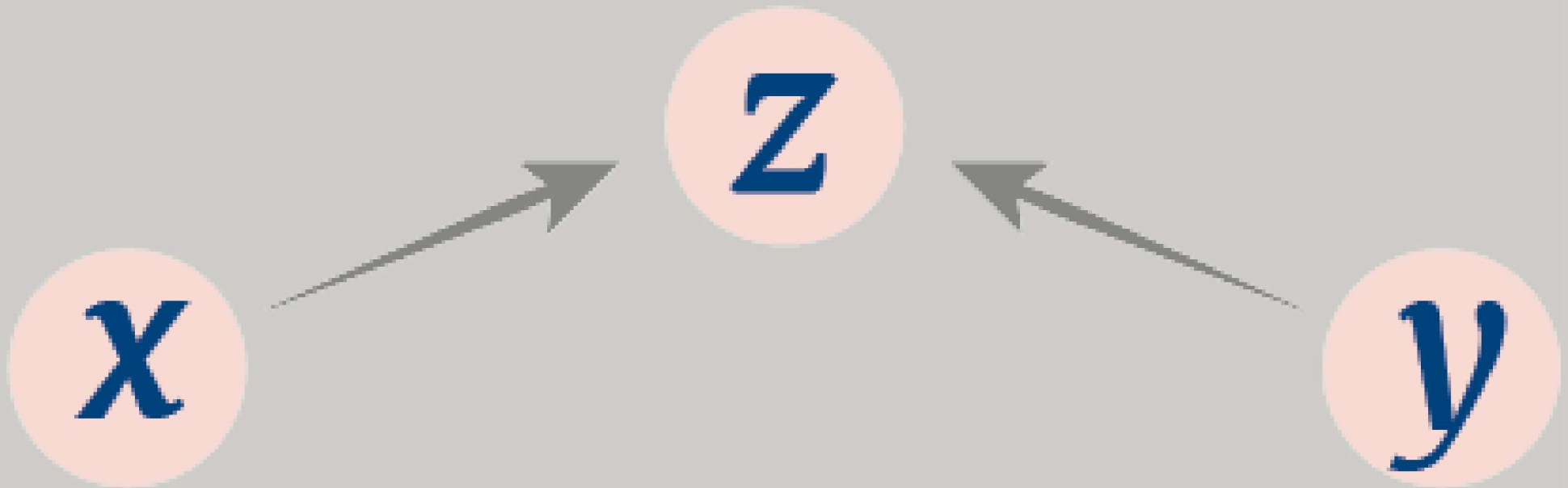
The Fork



The Pipe



The Collider



The Descendant

