# Using Implementation Science to Support the Prevention of Substance Use in Ireland

Allison Metz, Ph.D. April 17, 2025





### Session Objectives

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

- Define implementation science
- Describe elements of contextual fit for prevention practices
- Discuss the importance of trusting relationships in implementation
- Understand the importance of tailoring implementation strategies



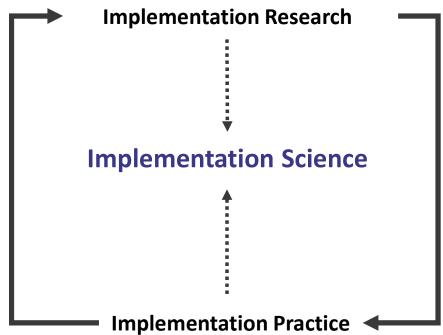






Implementation science is the study of the factors that lead to uptake, scale and sustainability of practices, programs and policies with evidence behind them.

The fundamental goal of implementation science is to improve the outcomes of those being served.







## Implementation Research







## Models, Theories and Frameworks

- Implementation research often focuses on models, theories and frameworks that identify the relationships between context, innovation components, implementation strategies, and desired outcomes
- They serve as structuring and sensemaking tools to achieve implementation activities such as designing programs, selecting strategies, and planning for implementation and sustainability

(Kahn and Metz, under review)

**Process models** are steps and stages of translating research into practice.

Theories provide understanding and/or explanation of aspects of implementation.

Frameworks describe factors that are believed or found to influence implementation outcomes.

(Nilsen, 2015)





### Implementation Outcomes

Acceptability Feasibility

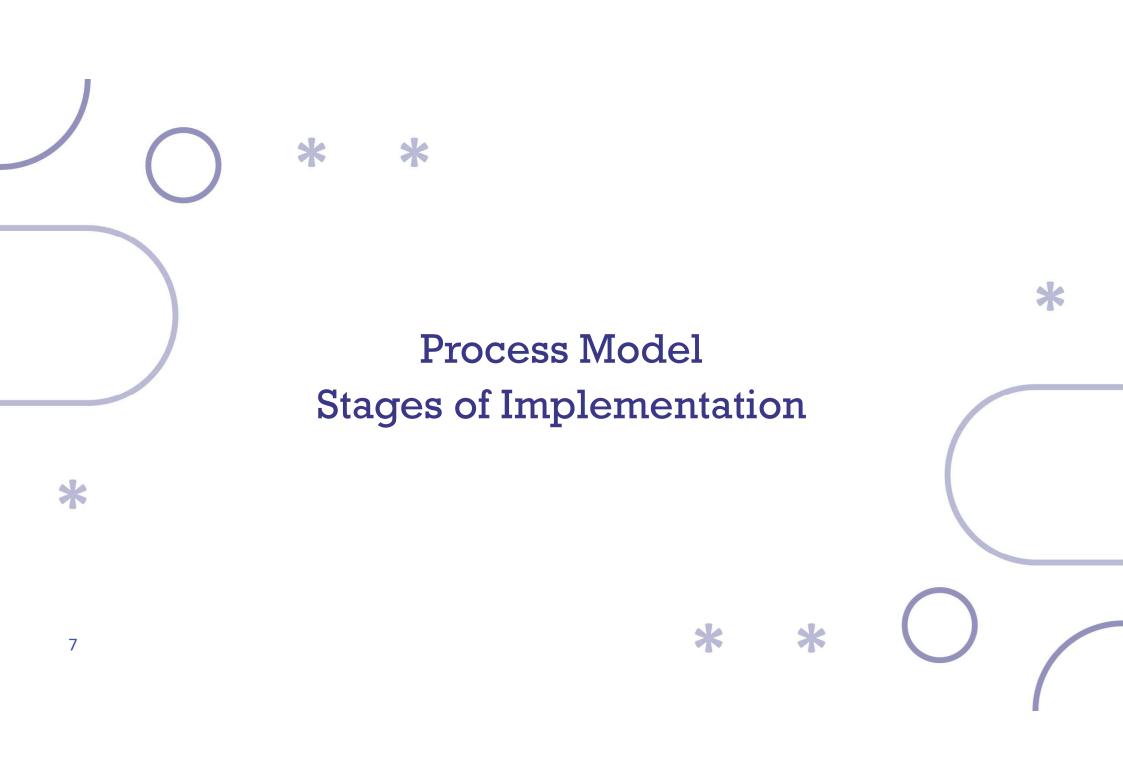
Adoption Fidelity

Appropriateness Reach

**Cost** Sustainability

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## Implementation Stages

- Assess needs and assets
- Examine fit and buy-in for potential stages

Acceptability & Appropriateness

- Consistent delivery
- Assess outcomes
- Continue to improve and innovate

**Sustainability** 

**Exploration** 

Installation

- Assure resources are available for implementation
- **Develop supports**

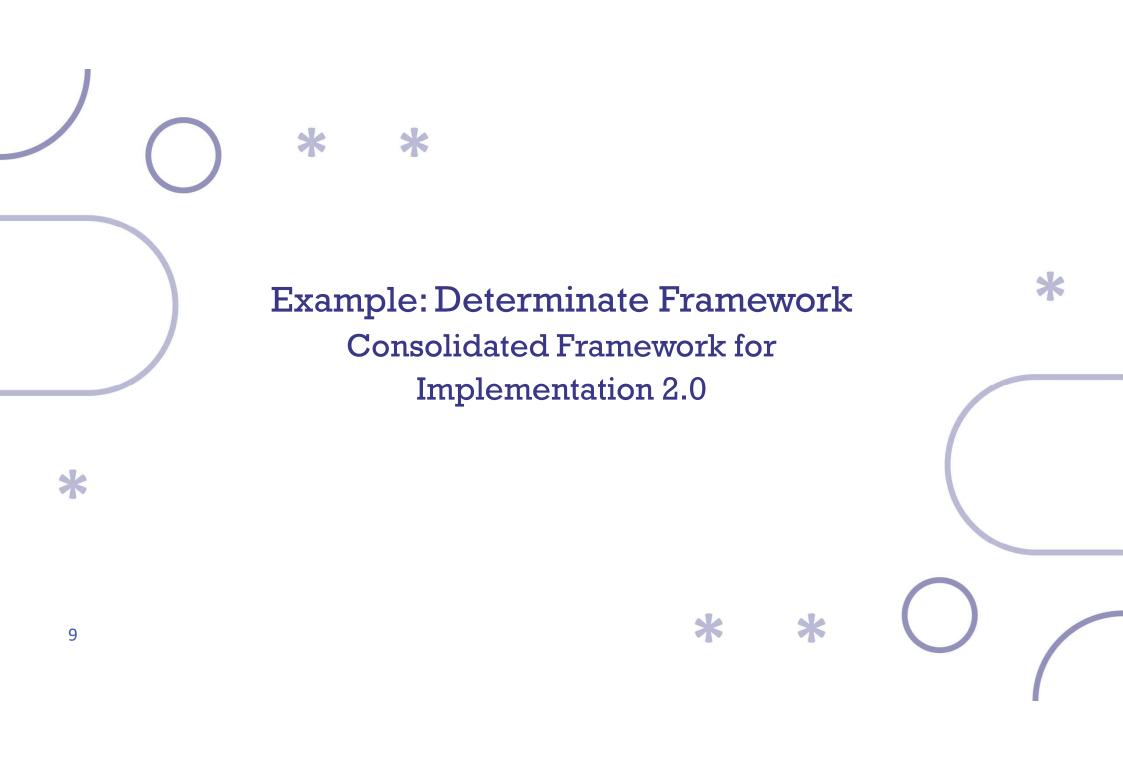
**Adoption** 

Full **Implementation** 

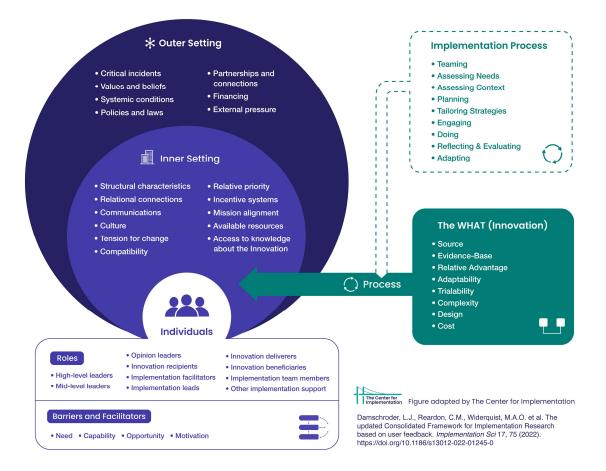
> Initial **Implementation**

- Initiate workstreams
- Use data to improve implementation strategies

Feasibility, Reach, Cost, & Fidelity



## Consolidated Framework for Implementation Research (CFIR) 2.0



### **CFIR 2.0**

- Innovation e.g., complexity, evidence base
- Outer setting e.g., local attitudes, policies, financing
- Inner setting e.g., culture, resources, tension for change
- Individuals involved e.g., capability, opportunity, motivation
- **Process** e.g., needs assessment, planning, reflecting





## Approach to Implementation Science

The use of specific theories, frameworks, models and strategies with evidence that can support effective, equitable and sustainable implementation;

The use of 'practical implementation science' which refers to the translation of theories, models, and frameworks into user friendly tools and resources.

The development of specific competencies that support the relational work of implementation, which requires trust, psychological safety and co-creation.

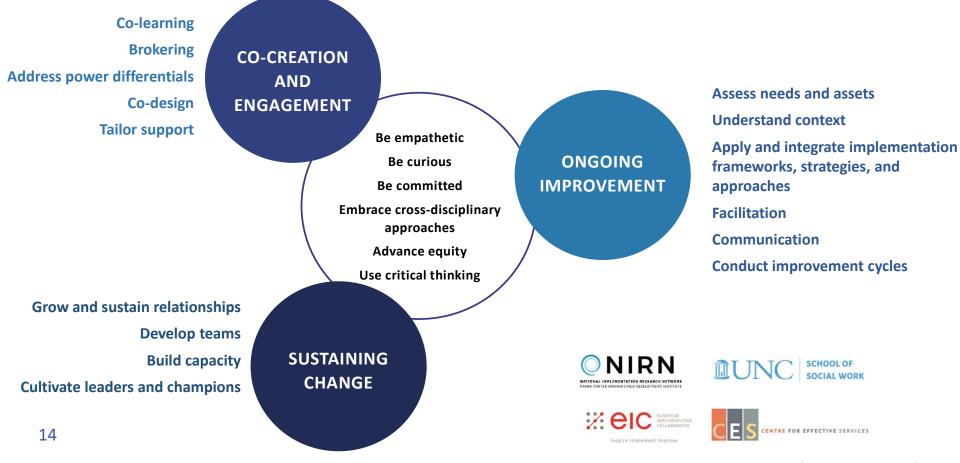
## Implementation Practice







### Implementation Support Practitioner Competencies



(Metz et al., 2020)

### Co-creation and Engagement Competencies

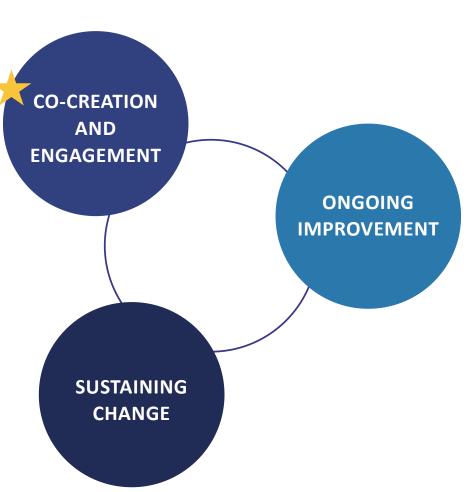
Co-learning

**Brokering** 

Address power differentials

Co-design

Tailor support



### Ongoing Improvement Competencies

Assess needs and assets

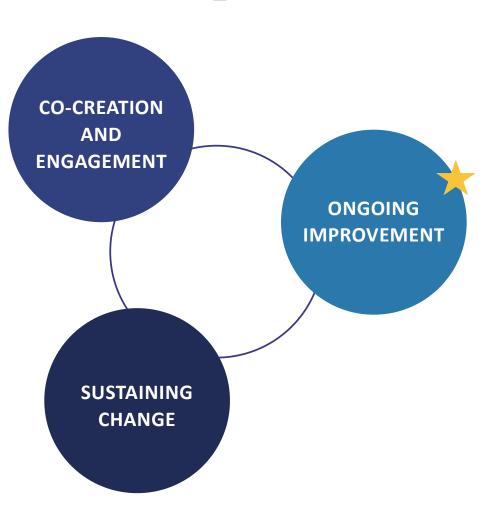
**Understand context** 

Apply and integrate implementation frameworks, strategies, and approaches

**Facilitation** 

Communication

Conduct improvement cycles

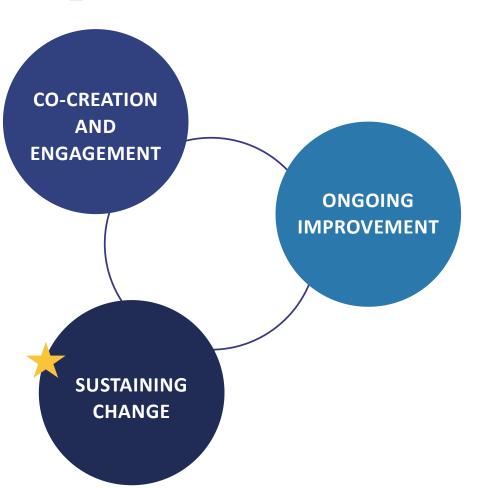


### **Sustaining Change Competencies**

Grow and sustain relationships
Develop teams

**Build capacity** 

Cultivate leaders and champions



## Understanding Context Selecting Good Fit Practices







## Role of Context in Implementation Practice

Contextual fit is the match between the strategies, procedures, or elements of an intervention and the values, needs, skills, and resources of those who implement and experience the intervention.

(Horner et al., 2014)

- Involve diverse partners
- Use multiple methods and data sources
- Improve implementation and sustainability potential





## Group Discussion

What contributes to a strong contextual fit between a program/practice and where and with whom it is implemented?

### The Hexagon Tool

SUPPORTS · Identification of focus population and subpopulations Expert assistance Use of multiple data sources and External resources disaggregated data to understand for implementing **NEED** needs and assets sites Community perception of needs and assets SUPPORTS **EVIDENCE EVIDENCE** Outcome, fidelity and cost effectiveness data Strength of evidence: for whom and in what **CAPACITY** FIT conditions CAPACITY · Implementation costs · Resources needed and USABILITY FIT available for implementation Fit with community values, culture and history · Impact on other USABILITY initiatives · Alignment with other · Well-defined program priorities of the · Adaptations for context and implementing site populations



NEED





## Why is Trust Important?

 Trust is the cornerstone for effective partnerships. Trust engenders faith that partners can rely on each other to come through on agreements and to understand – and even anticipate – each other's needs and interests.

(Tseng, Easton, & Supplee, 2017)

 Implementation relies on collaborative learning, taking risks, and failing forward. At the center of this is vulnerability and trust.

(Dovey, 2009)



## Group Discussion

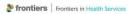
How do you know when you have built trust with partners?

## Evidence of a Trusting Relationship

- Transparency
- Mutuality
- Comfort asking for help
- Sharing information
- Capacity to stay in difficult situations

Authenticity, vulnerability, and empathy





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e 2022. Metz. Jonson, Farloy, Boaz. Bartiay and Villosia. This is an open-access article distributed under the terms of the Creative Commons. Arehuston Lecense ICC 810. The use. Arehuston Lecense ICC 810. The use, forums is permised provided the original authority and the copyright commist jac perceided and that the original publication in this journal is cited in accordinate with accepted academic practice. No use, distribution does not comply with these serms.

#### Building trusting relationships to support implementation: A proposed theoretical model

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This paper presents a theory of change that articulates (a) proposed strategies for building trust among implementation stakeholders and (b) the theoretical linkages between trusting relationships and implementation outcomes. The theory of change describes how trusting relationships cultivate increases in motivation, capability, and opportunity for supporting implementation among implementation stakeholders, with implications for commitment and resilience for sustained implementation, and ultimately, positive implementation outcomes. Recommendations related to the measurement of key constructs in the theory of change are provided. The paper highlights how the development of a testable causal model on trusting relationships and implementation outcomes can provide a bridge between implementation research and implementation practice.

KEYWOR

implementation science, implementation practice, trust, relationships, theory of change

#### Introduction

The implementation of effective policies, practices, and approaches is critical to optimizing patient care in the context of health services. To increase the generalizability of findings from implementation research to implementation practice, the field of implementation science has begun to call for greater conceptual clarity on important aspects of implementation (1). This call for greater conceptual clarity may be due, in part, to growing discussions in the field of implementation science on the divide between implementation research and implementation practice (2). Implementation research seeks to understand the approaches that work best to translate research to the real world, whereas implementation practice seeks to apply and adapt these approaches in different contexts to achieve outcomes (3).

Trust is an example of an implementation construct that needs to be further operationalized so that implementation researchers can study its role in implementation and implementation practitioners can test strategies to foster and deepen trust among implementation stakeholders. Common definitions of interpersonal trust appeal to Malter's (14), p.25] articulation as follows: "the extent to which a person is confident in and willing to act on the basis of the words, actions, and decisions of another." Trusting

"This paper presents a theory of change that articulates (a) proposed strategies for building trust among implementation stakeholders and (b) the theoretical linkages between trusting relationships and implementation outcomes. The theory of change describes how trusting relationships cultivate increases in motivation, capability, and opportunity for supporting implementation among implementation stakeholders, with implications for commitment and resilience for sustained implementation, and ultimately, positive implementation outcomes. Recommendations related to the measurement of key constructs in the theory of change are provided. The paper highlights how the development of a testable causal model on trusting relationships and implementation outcomes can provide a bridge between implementation research and implementation practice."

(Metz et al., 2022)

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### **Theorized Outcomes of Trust**

- Building trusting relationships can increase partners' sense of capability.
- Building trusting relationships can build intrinsic motivation for supporting implementation work.
- Partners create **opportunities** to work together.
- Trusting relationships support communication, coordination, and collaboration, which results in denser networks and closer relationships among partners.
- Cohesion among partners produces commitment and resilience in the face of implementation challenges.
- Implementation efforts are sustained and continuously improved.

Improved and equitable outcomes for children and families

## Relational and Technical Strategies

- Relational strategies are defined as strategies undertaken to build trust through strengthening the quality, mutuality, and reciprocity of interactions among team members.
- Technical strategies are defined as strategies undertaken to build trust through demonstrating the knowledge, reliability, and competency to support the goals of the team.

The proposed theory of change outlines the starting point for trust building as addressing power differentials among implementation team members and partners through co-creation and humility.

## Group Discussion

How are you building authentic trust with your partners?

## Relational Strategies

- Vulnerability
- Authenticity
- Bi-directional communication
- Co-learning
- Empathy-driven exchanges

## Technical Strategies

- Frequent interactions
- Responsiveness
- Demonstration of expertise
- Achievement of quick wins

## Research-Based Outcomes of Trust Building Strategies

- Fostered a positive affective response and provided opportunity to share emotions
- Deepened trusting relationships on the team and empathy among team members
- Increased self-awareness and roles in contributing to positive implementation environment
- Created psychological safety
- Promoted a culture of learning and data use
- Energized and motivated team members
- Increased sense of commitment and capability to move implementation forward

# Selecting and Tailoring Implementation Strategies







## Implementation Strategies

Implementation strategies can be defined as methods or techniques used to enhance the adoption, implementation, and sustainability of a clinical program or practice.

- **Discrete** Single action or process (e.g., reminders, audit and feedback, supervision)
- Multifaceted Combination of multiple discrete strategies (e.g., training + consultation), some of which have been protocolized and branded





## Strategies Compilation

Plan strategies

- Assess readiness
- Identify champions

**Educate strategies** 

- Educational meetings
- Shadow clinicians

Finance strategies

- Alter incentives
- Place on formulary

Restructure strategies

- Change systems
- Revise roles

Quality mgmt. strategies

- Audit and feedback
- Clinical supervision

Policy context strategies

- Change requirements
- Change liability laws

(Powell et al., 2017)





### Implementation Outcomes

Acceptability Feasibility

Adoption Fidelity

Appropriateness Reach

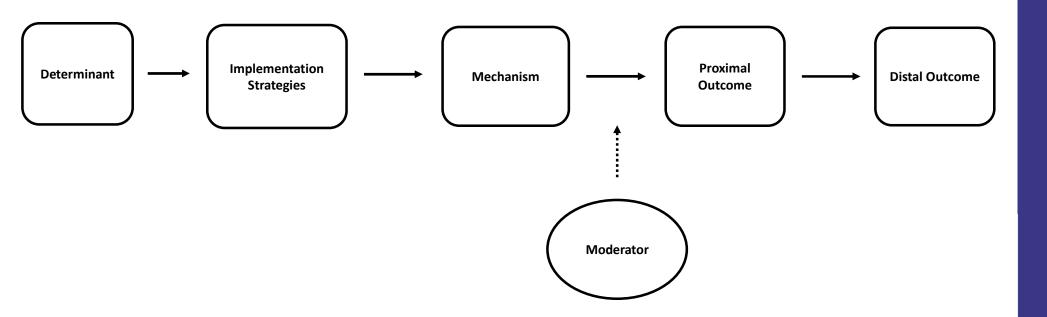
Cost Sustainability

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Table 1 Examples of links between determinants, implementation strategies, mechanisms and implementation outcomes			
Determinant	Implementation strategy	Mechanism	Implementation outcome
Provider knowledge deficit	Education (provision of information)	Awareness-building, knowledge-acquisition	Feasibility, acceptability, appropriateness, adoption
Provider skill deficit	Training (teaching and practice with corrective feedback)	Skill acquisition, refinement, mastery	Fidelity to EBP
Provider views EBP unfavourably	Audit and feedback provision of descriptive social norms indicating peer use of EBP	Social pressure/norms	Adoption
Turnover	Train-the-trainer	Real-time training and consultation	Sustainability
Competing clinical demands	Leadership training	Growing leadership support/ perseverance	Adoption, sustainability

EBP, evidence-based practices.

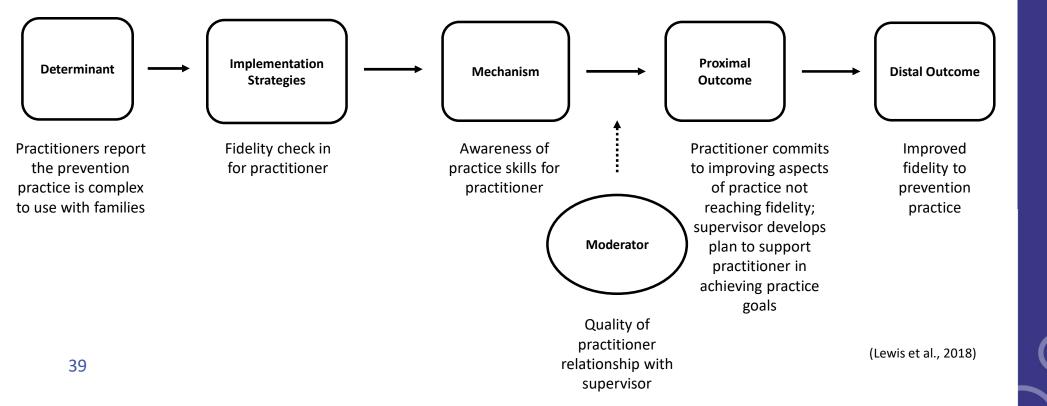
(Lewis et al., 2021)

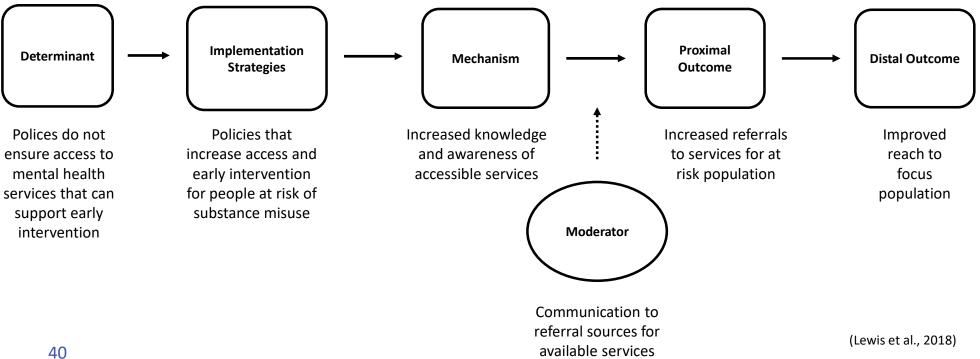


(Lewis et al., 2018)











## ISP Competencies & Implementation Strategies

Implementation strategies alone are insufficient to understand the breadth and depth of the skills that ISPs require in providing implementation support.

Implementation strategy selection and use requires the integration of multiple stakeholder perspectives, the identification of crucial barriers to implementation, or the assessment of available resources for strategy development.

The work of ISPs must account for the dynamic and highly relational nature of policy and practice implementation involving multiple layers of context and differing norms and values among stakeholders.

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(Albers et al., 2020)

## Small Group Activity

#### **Looking Ahead...**

- In your experience, what implementation determinants should we pay attention to related to implementation of prevention practices for substance misuse?
- What strategies might work best to address these determinants?
- How will we know these strategies had their intended benefit?

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