Applying Implementation Science Frameworks to Public Health Research

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Healthy Populations Institute

- **Vision:** Healthy populations throughout the lifecourse

- **Mission:** Improving population health and promoting health equity by understanding and influencing the complex conditions that impact the health of communities.

- **Areas of focus:** Research development, Capacity building and training, Knowledge Translation, Research Management

- **Research clusters:** Indigenous health and well-being, Youth and healthy aging,   Marginalized populations, Implementation science

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Workshop objectives

1. Examine and discuss research on implementation science frameworks so they can evaluate the applicability of the frameworks for improving public health research, policy and practice.

2. Appraise the relevancy of implementation science frameworks through participatory exercises that involve sharing experiences working in policy and practice.

3. Identify key opportunities where they can strengthen the implementation of research findings in policy and practice by using implementation science frameworks.

Introductions

- Your name and affiliation

- Your experience with implementation science

- What are you hoping to get out of this workshop?

Identify a change attempt

- Think about a change attempt that worked well or not at all
  - ○ Share with the person beside you and write it down

- Consider the different levels that may have influenced the change attempt
  - ○ Write down the level that you targeted the most

Community/ policy factors

Organizational processes

Individual behaviour change

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Session Overview

- Brief presentation – implementation science frameworks

- Group work – discussion of frameworks and experiences

- Sharing among groups

What is implementation science?

- Refers to the scientific study of how evidence moves into practice and testing ways to do this more effectively

- Emphasizes importance of change theories, contexts, and engagement

- Offers theoretical approaches to clarify how to influence evidence-based policy and practice

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Our review process

- Identified and critiqued implementation science frameworks to determine their potential for informing population health

- Used a critical interpretive synthesis approach

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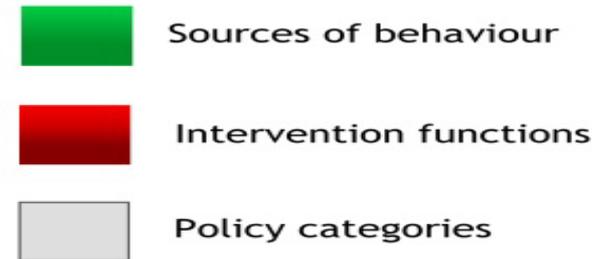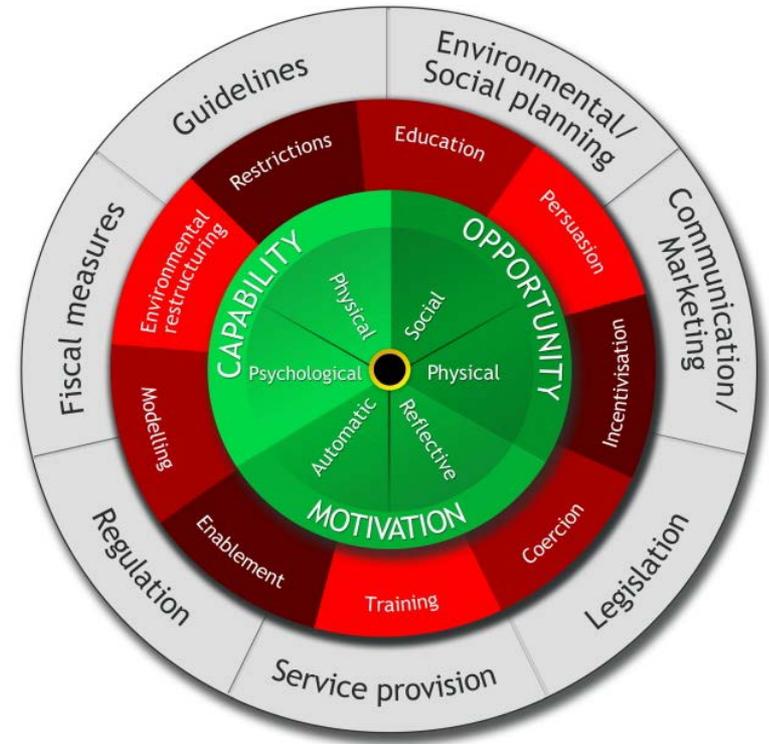HEALTHY POPULATIONS INSTITUTE

Progress to date

- Drew on reviews of implementation science frameworks (Nilsen 2015; Tabak et al. 2012)

- 10 frameworks identified and critically appraised

- This workshop will focus on 3 relevant to population health

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THEORETICAL DOMAINS FRAMEWORK (TDF) & BEHAVIOUR CHANGE WHEEL (BCW)

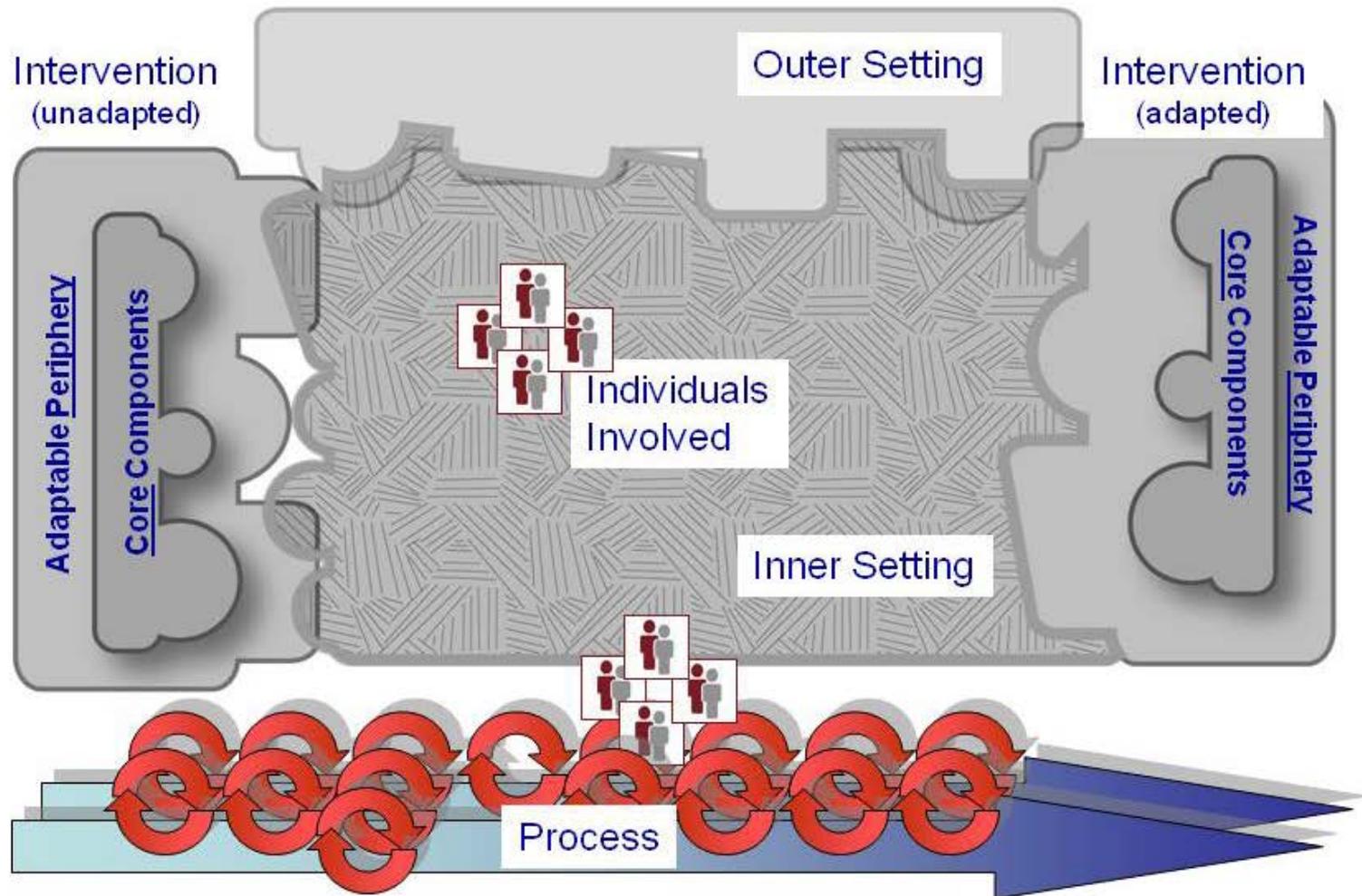| Abbr.	Meaning
Soc	- Social influences
Env	- Environmental context and resources
Id	- Professional role and identity
Bel Cap	- Beliefs about capabilities
Goals	-Goals, intentions and motivation
Bel Cons	- Beliefs about consequences
Em	- Emotion
Know	- Knowledge
Mem	- Memory, attention and decision process
Beh Reg	- Behavioural regulation
Skills	- Skills

NB. **Nature of behaviours** not considered a source of behaviour (see text for details) and therefore removed from the analysis

Sources of behaviour

TDF Domains

Sources of behaviour

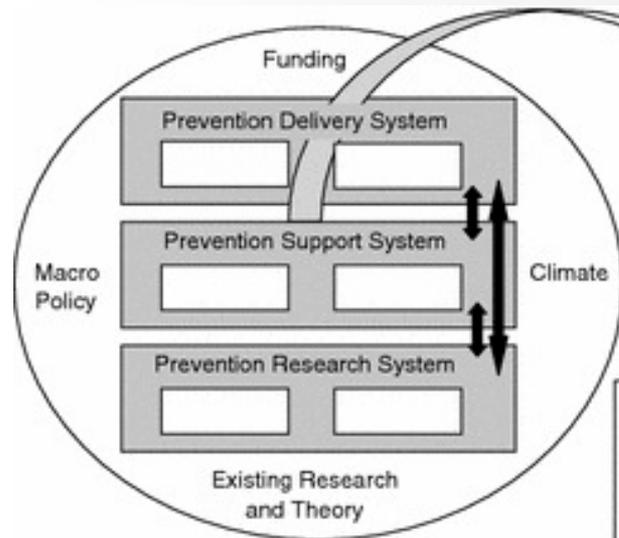Intervention functions

Policy categories

Michie, S., van Stralen, M. M., & West, R. (2011). The behaviour change wheel: a new method for characterising and designing behaviour change interventions. *Implementation Science, 6*(1), 42.

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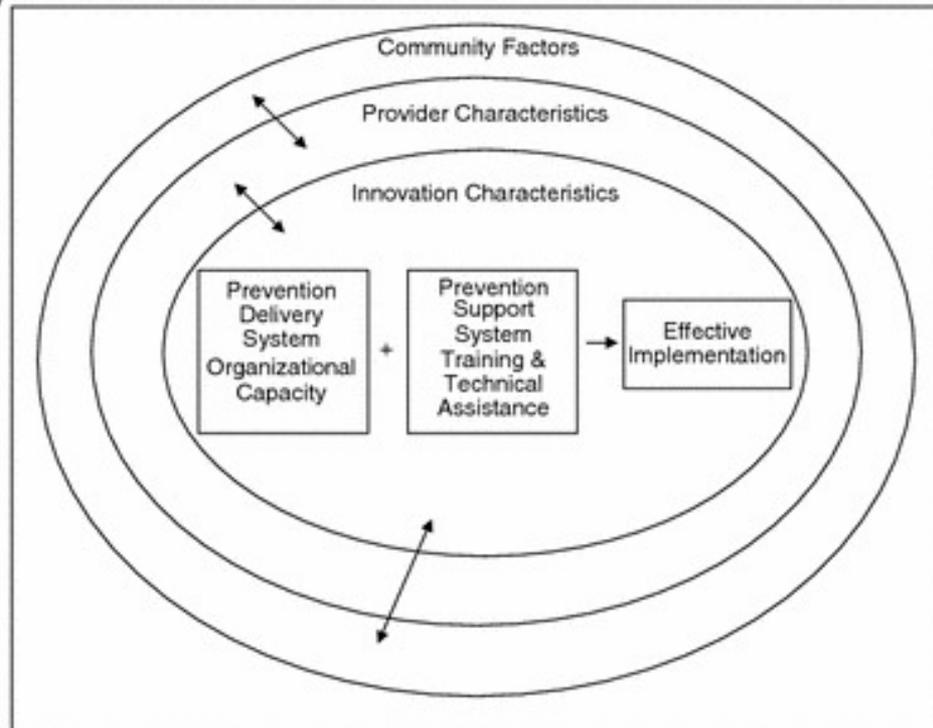# CONSOLIDATED FRAMEWORK FOR IMPLEMENTATION RESEARCH (CFIR)

Damschroder L. J., Aron D. C., Keith R. E., Kirsh S. R., Alexander J. A., & Lowery J. C. (2009). Fostering implementation of health services research findings into practice: a consolidated framework for advancing implementation science. *Implementation Science, 4*(50).

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ECOLOGICAL FRAMEWORK

Interactive Systems Framework for Dissemination and Implementation

Framework for Effective Implementation

Durlak, J. A., & DuPre, E. P. (2008). Implementation matters: A review of research on the influence of implementation on program outcomes and the factors affecting implementation. *American Journal of Community Psychology, 41*(3–4), 327–350.

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Sorting into groups

- Select the framework that you think would be most useful to the change attempt you identified earlier

- Each framework has a slightly different focus, but all can be used across levels:
  - Individual level: TDF/BCW
  - Organizational: CFIR
  - Community/Policy: Ecological Framework

Group work

Sharing among groups

Feedback

- Three stars and a wish!

Contact information

Please contact the presenters if you are interested in receiving more information on our review.

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