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Application of Implementation Science Frameworks to Guide Intervention Design

Part 1: Overview of Implementation Frameworks and Theories

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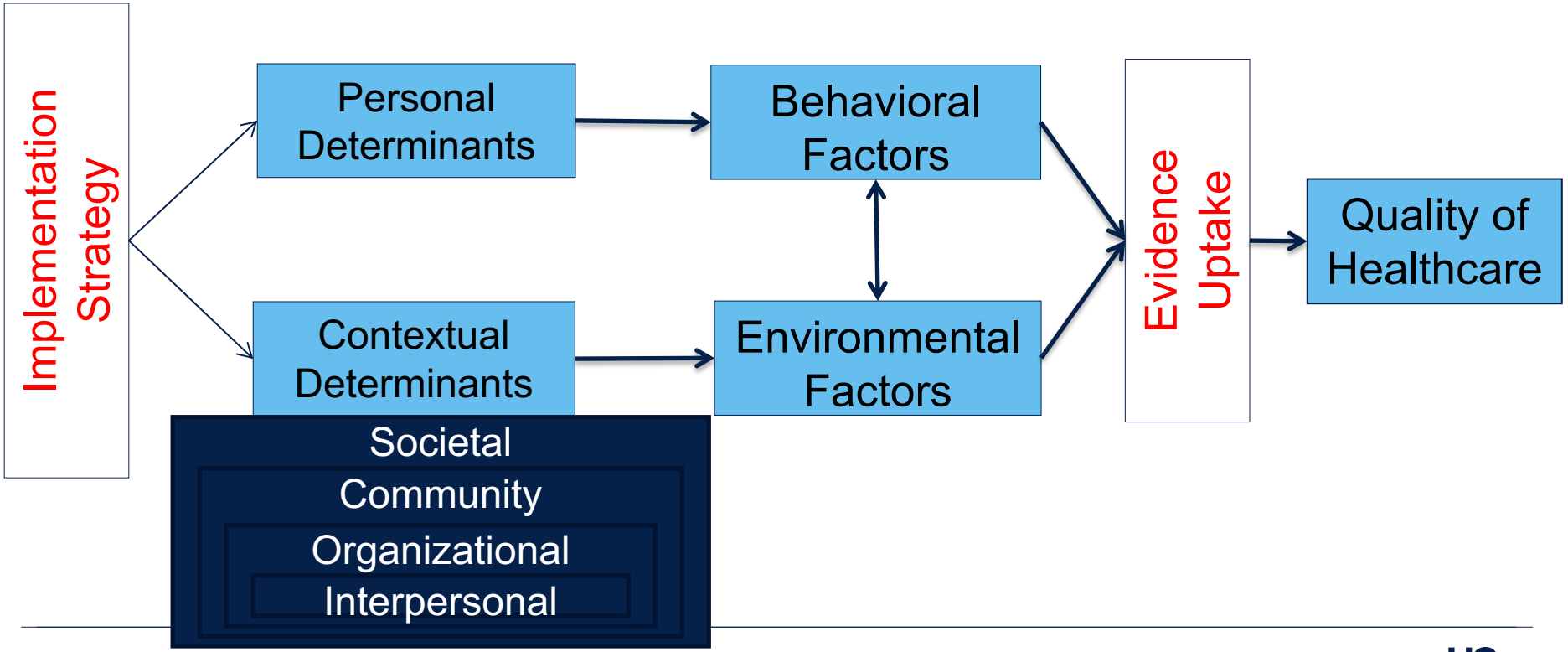
Behavioral approach to evidence translation

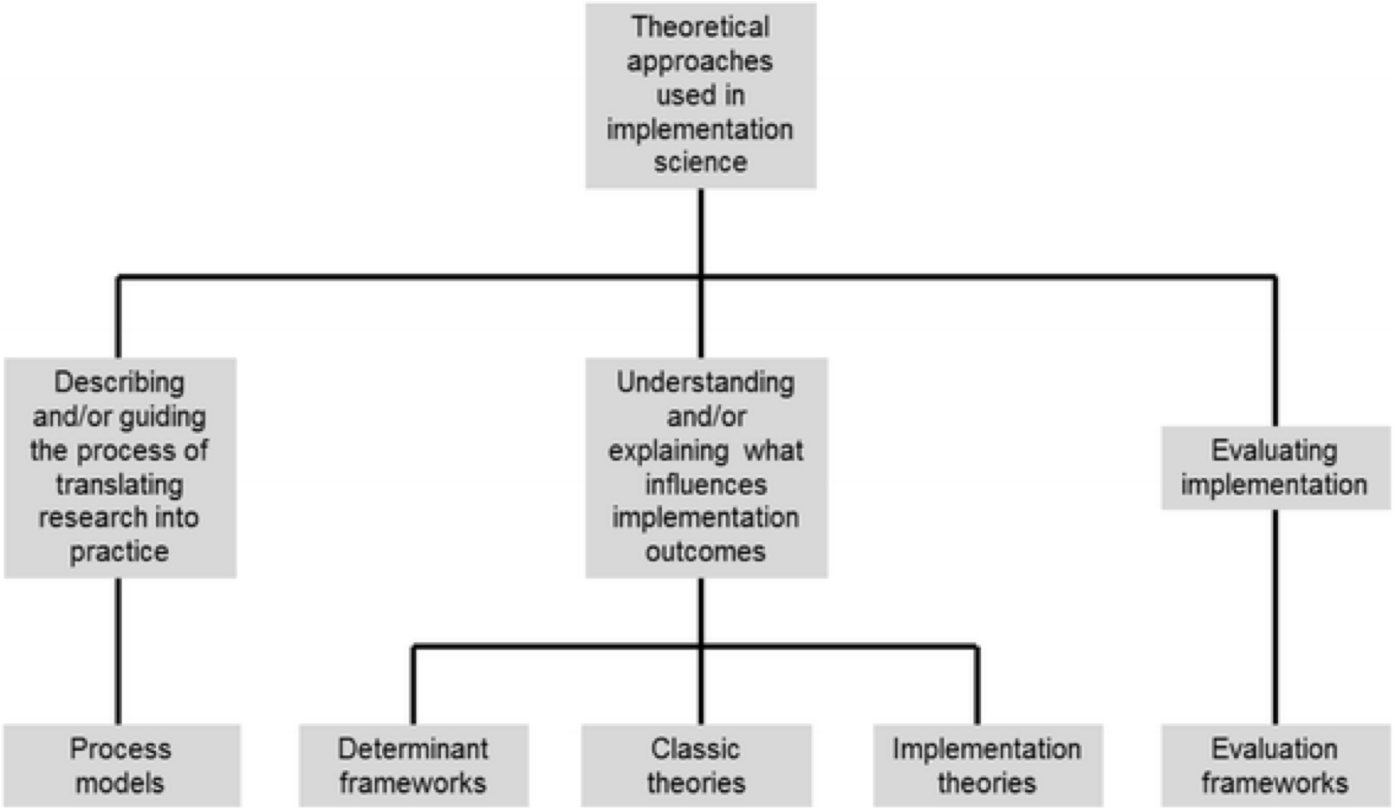
- Implementation depends on stakeholder behavior
- Improving the quality of healthcare requires changing behavior
- Changing behavior requires
  - Understanding determinants of current behavior
  - Understanding how behavior changes

Logic Model


Implementation Strategy
Personal Determinants
Contextual Determinants
Societal
Community
Organizational
Interpersonal
Behavioral Factors
Environmental Factors
Evidence Uptake
Quality of Healthcare

GET ALL THE INFORMATION YOU CAN, WE'LL THINK OF A USE FOR IT LATER.

Theories, Models and Frameworks



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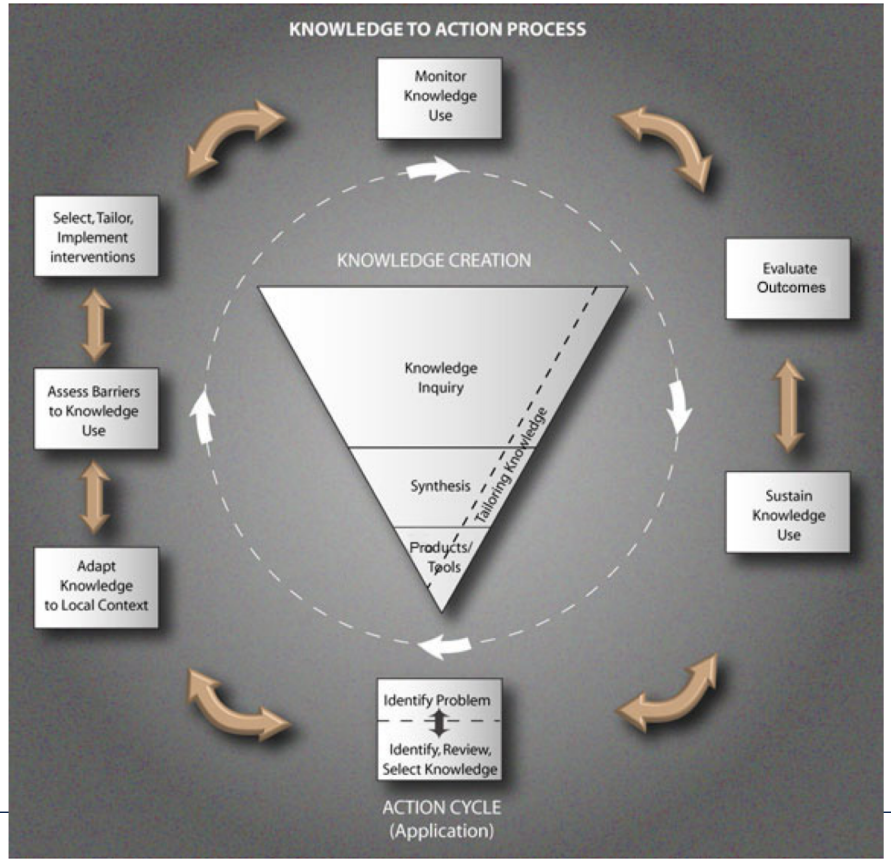
Process Model Example: CIHR Knowledge Translation Model



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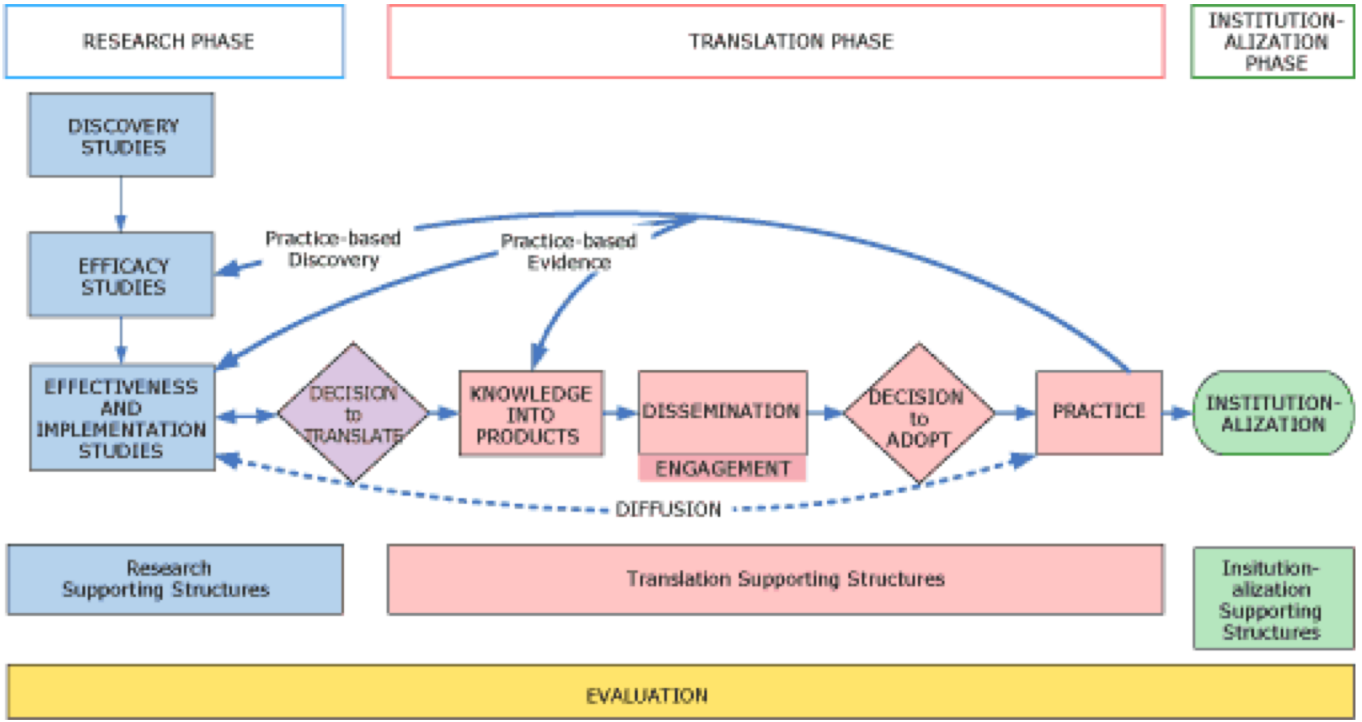
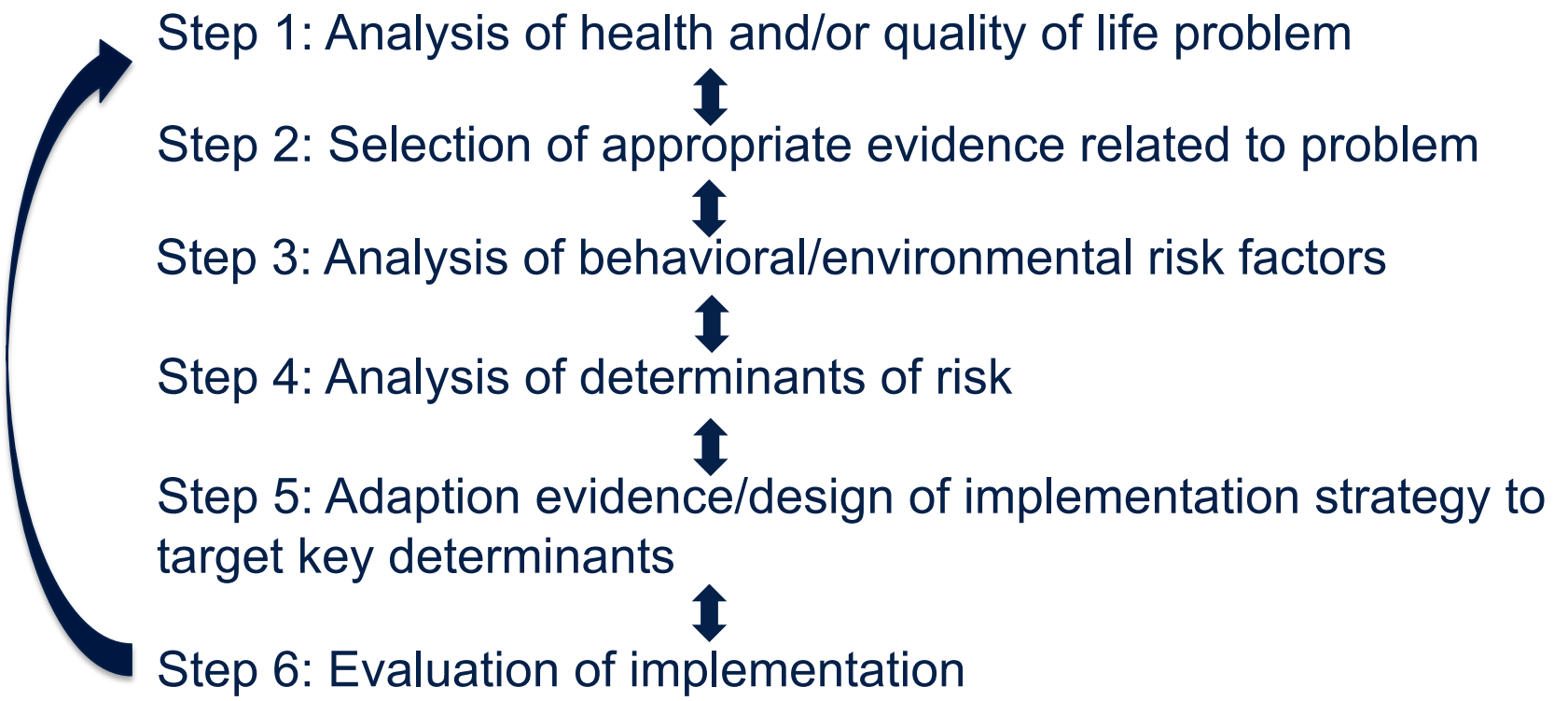
Process Model Example:
Knowledge to Action Framework for Public Health



Process Models = Planned Health Promotion



Implementation models/frameworks

- Determinant Frameworks (CFIR, PARIHS, etc.)
  - Specify determinants which act as barriers and enablers that influence implementation outcomes
  - AIM: Understand or predict implementation outcomes
- Classic Theories (Social Cognitive Theory, Theory of Planned Behavior, etc.)
  - Identify factors that help explain or understand implementation
  - ORIGIN: External to implementation science
- Implementation Theories (COM-B, Organizational Readiness, etc.)
  - Identify factors that help explain or understand implementation
  - ORIGIN: Developed by implementation researchers

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Implementation Theories/Frameworks: Alternate Classification

Application	Selected Examples		
	Classic Theories, COM-B/TDF	BCW, PRECEDE/PER Worksheet	CFIR, PARIHS
Identifying barriers/enablers	X	X	X
Designing an implementation strategy		X	
Assessing implementation context			X

TDF: Theoretical Domains Framework; BCW: Behavior Change Wheel; CFIR: Consolidated Framework for Implementation Research; PARIHS: Promoting Action on Research Implementation in Health Services