CFIR updates!

Outline

What is CFIR?

How has it changed?

Questions/ideas!
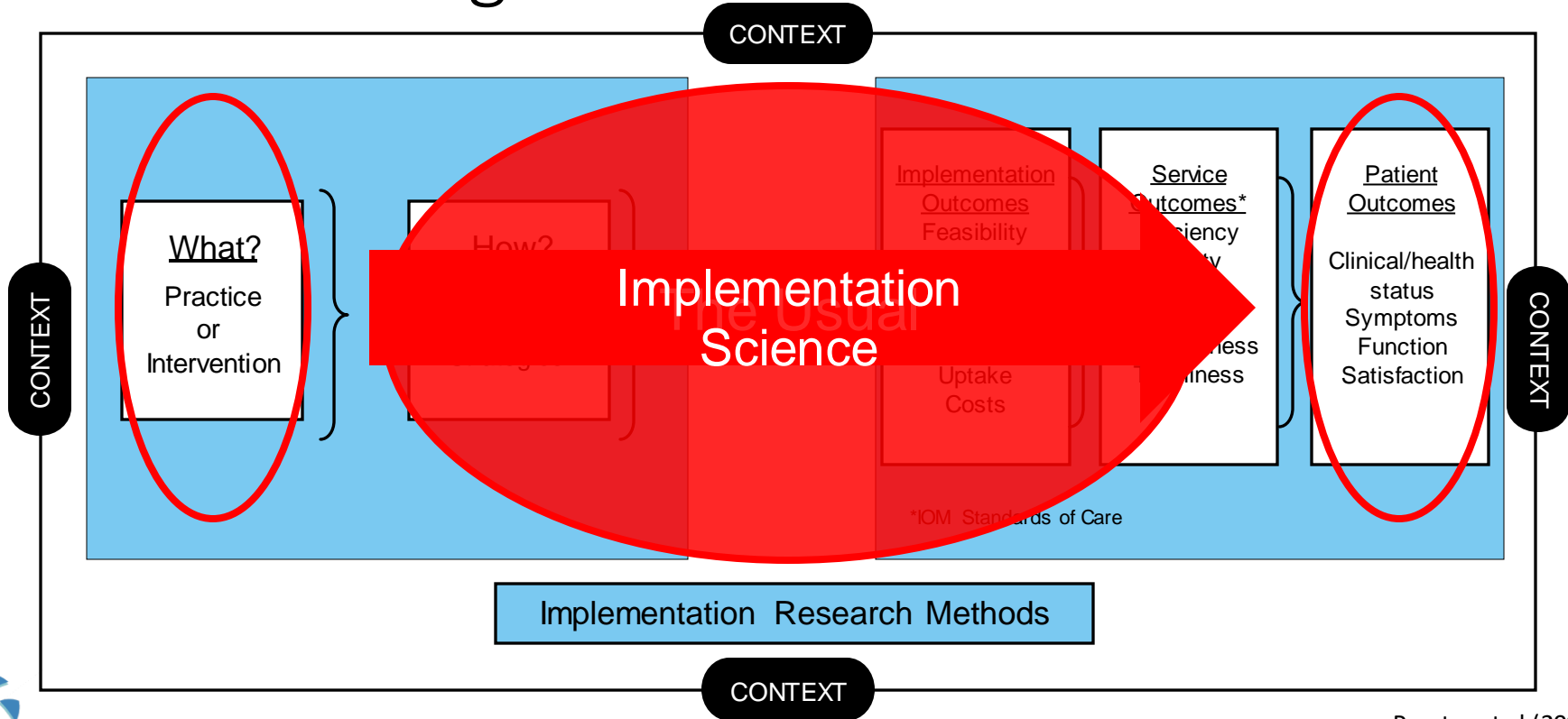
CFIR

What is CFIR?

CFIR incorporates many theories to explain implementation

- <u>C</u>onsolidated <u>F</u>ramework for <u>I</u>mplementation <u>R</u>esearch

- "Meta-theoretical" conceptual framework
  - Based on 19 theories, models, and frameworks (e.g., Diffusion of Innovation, Stetler Model of Research Utilization, Ottawa Model of Research Use, Greenhalgh and colleagues' compilation based on their review of 500 published sources across 13 scientific disciplines)

- Developed to help users understand factors which may influence implementation of an innovation

CFIR

Like IS itself, CFIR helps addresses many factors linking an EBP to outcomes

CONTEXT

| What? Practice or Intervention | How? | Implementation Outcomes Feasibility Uptake Costs | Service Outcomes* Efficiency Safety Effectiveness Timeliness | Patient Outcomes Clinical/health status Symptoms Function Satisfaction |

The Usual

Implementation Science

*IOM Standards of Care

Implementation Research Methods

CONTEXT

Proctor et al (2009)

CFIR

CFIR has been very influential since being published in 2009

Implementation Science

BioMed Central

Research article

Open Access

Fostering implementation of health services research findings into practice: a consolidated framework for advancing implementation science
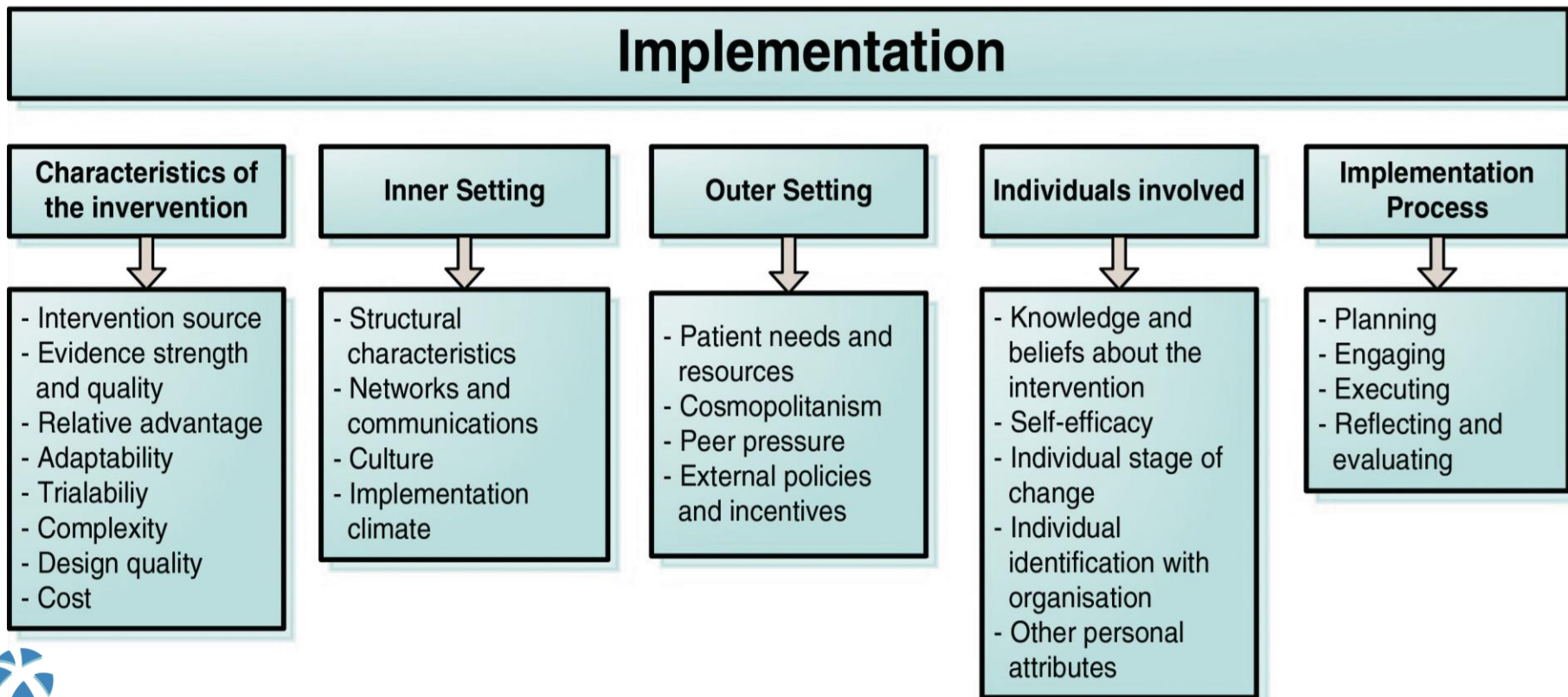
Laura J Damschroder[1], David C Aron[2], Rosalind E Keith[1], Susan R Kirsh[2], Jeffery A Alexander[3] and Julie C Lowery[1]

Over 1000 citations; Top 10 cited in IS every year

CFIR

CFIR 1.0 outlined 5 key domains

Implementation

Characteristics of the invervention	Inner Setting	Outer Setting	Individuals involved	Implementation Process
- Intervention source - Evidence strength and quality - Relative advantage - Adaptability - Trialabiliy - Complexity - Design quality - Cost	- Structural characteristics - Networks and communications - Culture - Implementation climate	- Patient needs and resources - Cosmopolitanism - Peer pressure - External policies and incentives	- Knowledge and beliefs about the intervention - Self-efficacy - Individual stage of change - Individual identification with organisation - Other personal attributes	- Planning - Engaging - Executing - Reflecting and evaluating

CFIR

How has CFIR changed?

Damschroder et al received a great deal of feedback: Methods and Motivation

- Systematic review: 376 articles

- 59 articles included feedback on the CFIR

- Forty percent ($n = 134/334$ unique authors) completed a survey

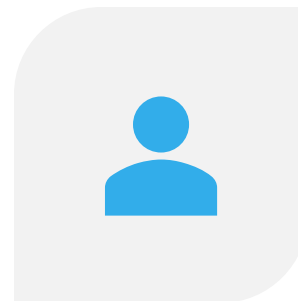- Positive ratings on most items (e.g., applicability, usability)

CFIR

CFIR 2.0 had 3 big conceptual changes
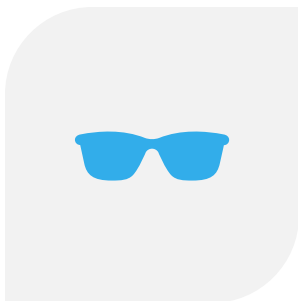
ACKNOWLEDGE
THIS IS ALL
PERCEPTIONS
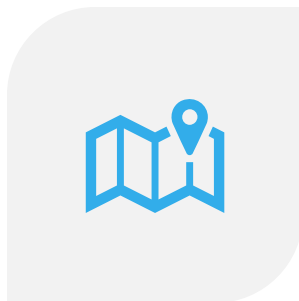
DEFINE
INNER AND OUTER
SETTING BOUNDARIES

ALL PEOPLE GO IN
INDIVIDUALS
DOMAIN

CFIR

CFIR 2.0 sharpened domain definitions

Innovation — What is the "**thing**" being implemented? What are **perceptions** about its properties?

Individuals — Who are the **individuals** most likely to **influence** or have **authority** over implementation? Who will **deliver** the Innovation?

Inner Setting — **Where** will implementation occur? From where will the Innovation be delivered?

Outer Setting — The setting in which the Inner Setting exists. **Where** does the Outer Setting begin?

Process — To what extent do [Roles] do the **actions** necessary for sustained implementation?

CFIR

Example of CFIR using hepatitis C virus (HCV) treatment

Innovation	The THING = HCV medications

Individuals	Clinicians, leaders, payers, patients

Inner Setting	VA hospitals

Outer Setting	VA system, non-VA

Process	Planning for implementation

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INNOVATION DOMAIN

DEFINITION

Perceptions of the "innovation"

- **Define** the Innovation:
  - innovation **type**
  - innovation **components**
- Core versus adaptable components

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Innovation Constructs

- Source

- Evidence-base

- Relative Advantage

- Adaptability

- Trialability

- Complexity

- Design

- Cost

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INDIVIDUALS DOMAIN

Individual Characteristics
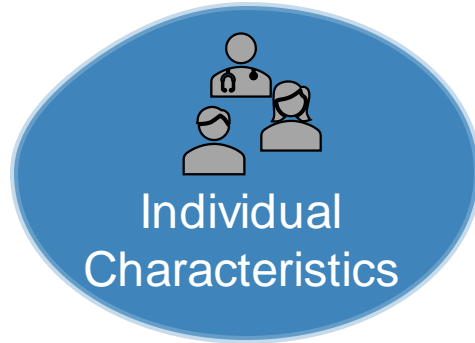
DEFINITION

Perceptions of individuals who have influence and/or power over the outcome of implementation efforts about the **roles** and **characteristics** of individuals (*including their own role and characteristics*)
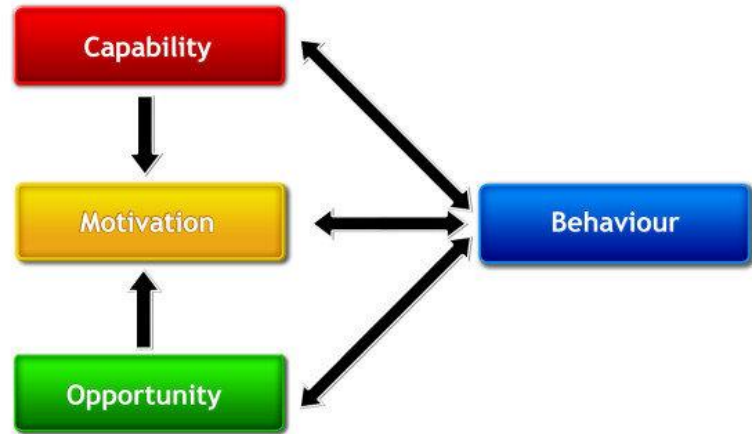
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Individuals domain has 2 subdomains

Roles Subdomain

- Leaders (High, Mid-level, Opinion)
- Implementation Facilitators
- Implementation Leads
- Implementation Team
- Implementation Supports
- Innovation Deliverers
- Recipients

Characteristics Subdomain

Need <u>AND</u>

Individuals domain has 2 subdomains

Roles Subdomain

- Leaders (High, Mid-level, Opinion)
- Implementation Facilitators
- Implementation Leads
- Implementation Team
- Implementation Supports
- Innovation Deliverers
- Recipients

Characteristics Subdomain

Need AND

Capability → Motivation → Opportunity → Behaviour
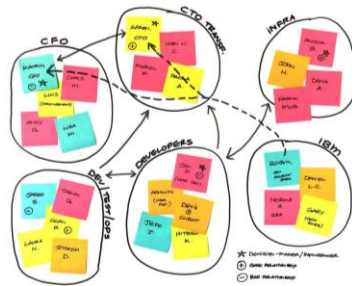
Moved   Added in 2.0

CFIR

5 constructs were removed from CFIR.20

INNER SETTING DOMAIN

Inner Setting

DEFINITION

Perceptions of the Inner Setting, the setting in which the innovation is implemented

- e.g., hospital, school, city.
- There may be multiple Inner Settings and/or multiple levels within the Inner Setting, e.g., unit, classroom, team.
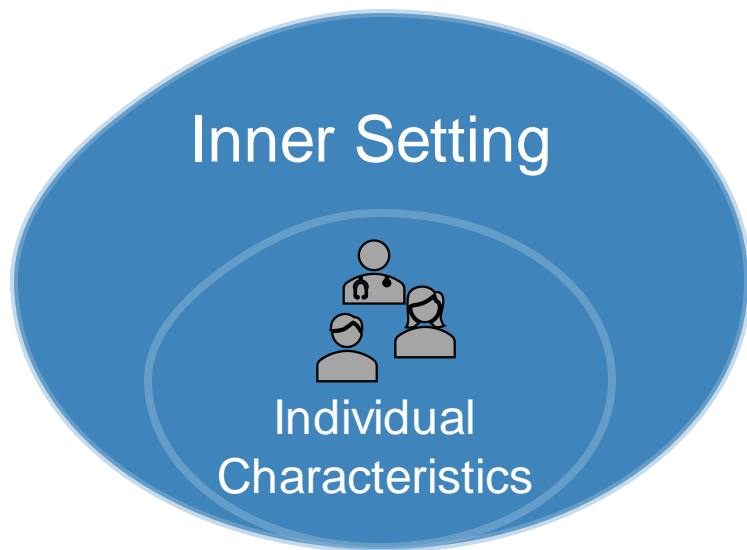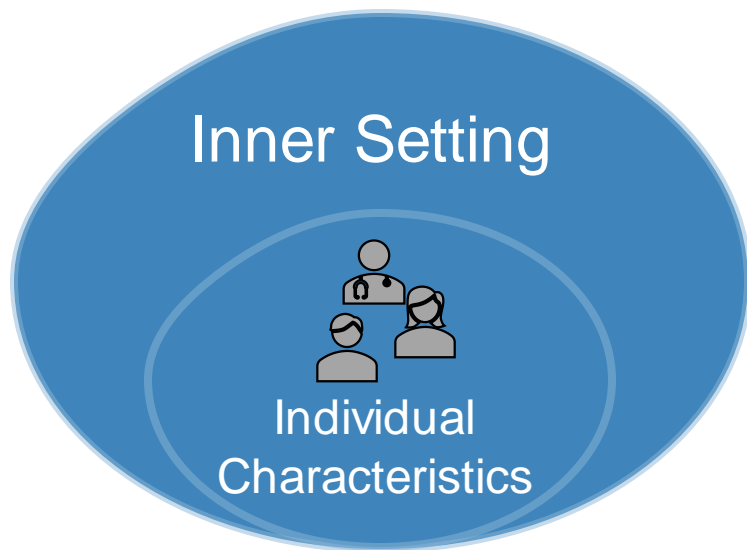
CFIR

Inner Setting Domain

Persistent characteristics

- Structural Characteristics
- Culture
- Relational Connections
- Communications

Specific to implementation

- Tension for Change
- Compatibility
- Relative Priority
- Mission Alignment
- Available Resources
- Access to Knowledge & Information
- Incentives Systems
- Mission Alignment
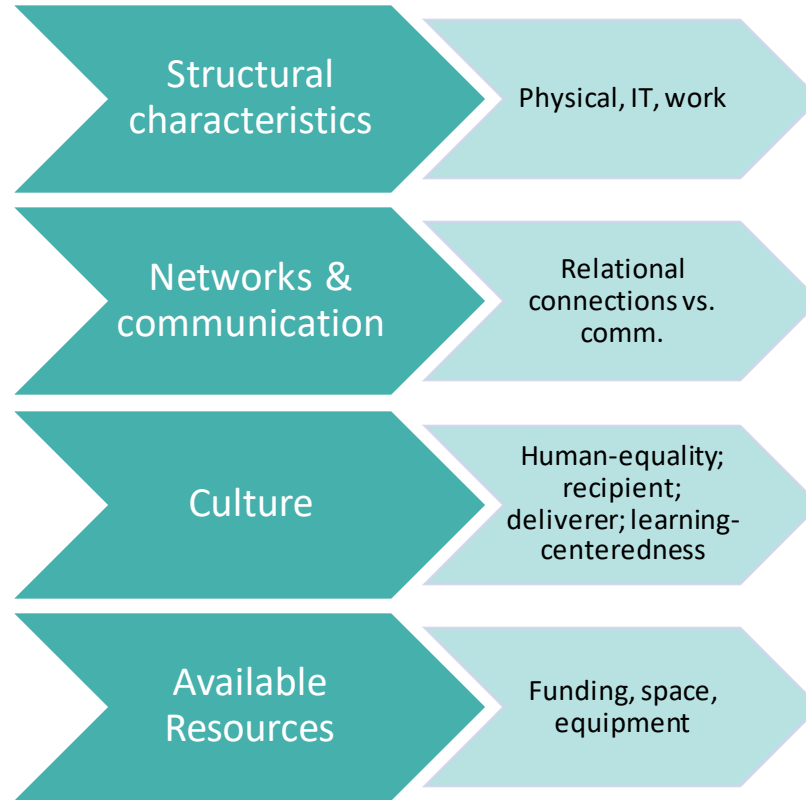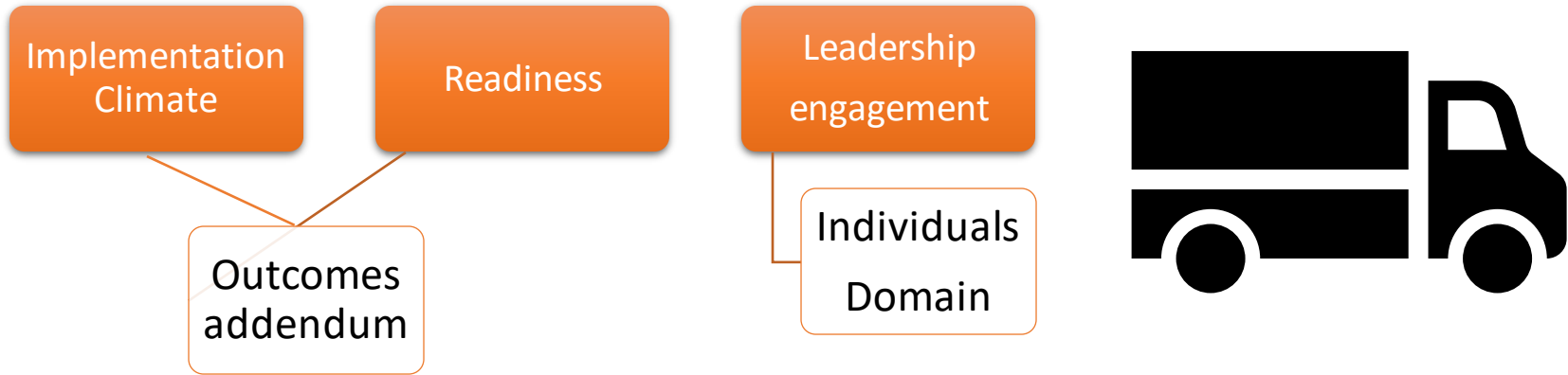- Available resources

Inner Setting Domain

Inner Setting

Individual Characteristics

Persistent characteristics
- **Structural Characteristics**
- **Culture**
- Relational Connections
- Communications

Specific to implementation
- Tension for Change
- Compatibility
- Relative Priority
- Mission Alignment
- **Available Resources**
- Access to Knowledge & Information
- Incentives Systems

Renamed Moved Added in 2.0 **Built out**

CFIR

Inner Setting Augmentations

3 constructs were moved out

Implementation Climate

Readiness

Leadership engagement

Outcomes addendum

Individuals Domain

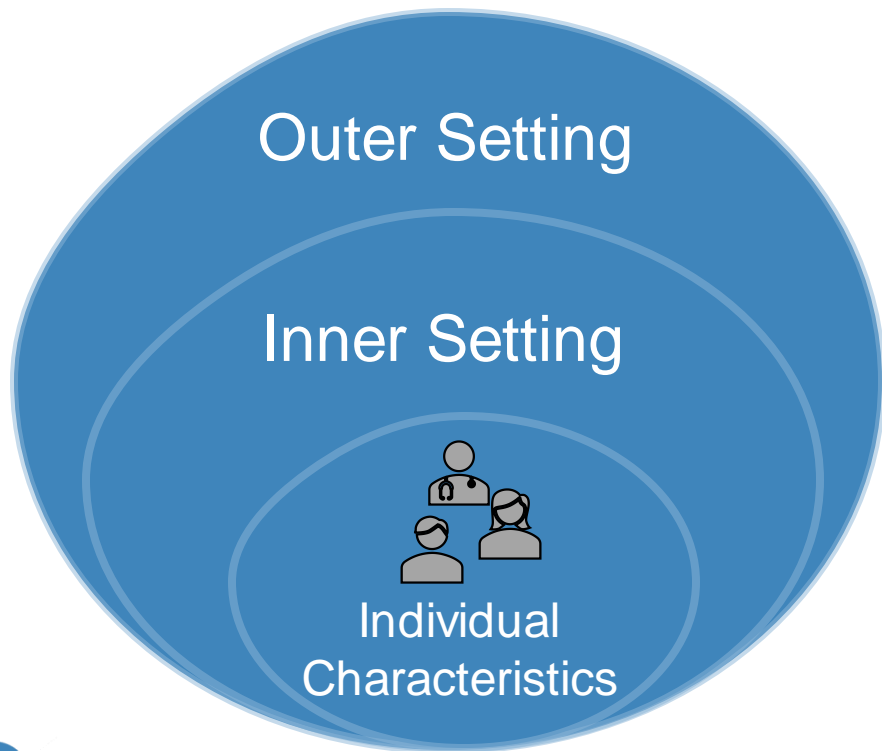# OUTER SETTING DOMAIN

Outer Setting

DEFINITION

Perceptions of the Outer Setting, the setting in which the Inner Setting exists.
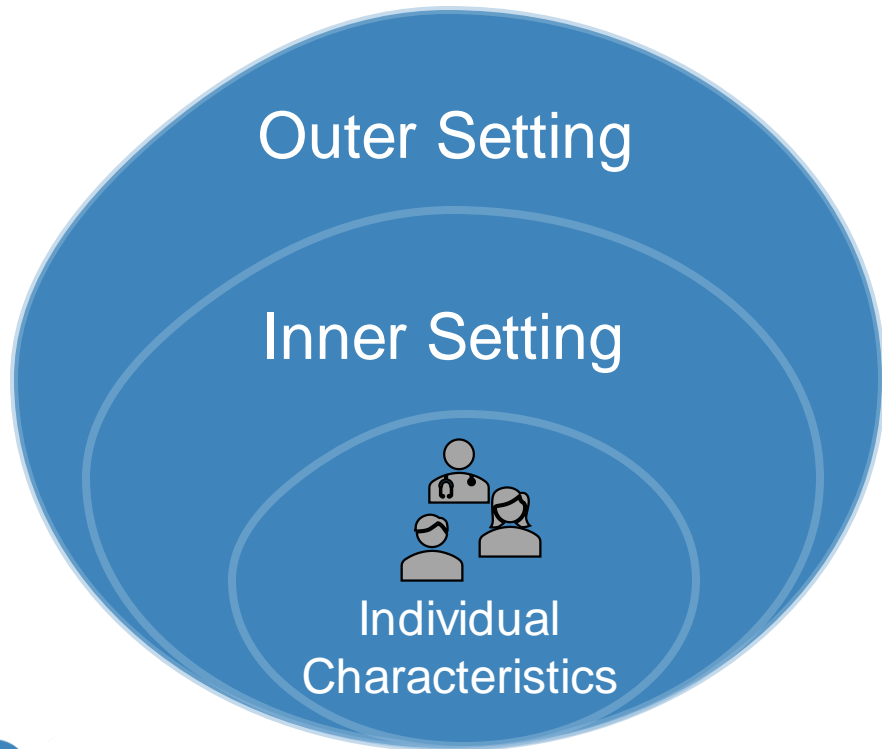
e.g., hospital system, school district, state.

- There may be multiple Outer Settings and/or multiple levels within the Outer Setting (e.g., community, system, state)

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OUTER SETTING DOMAIN

- Critical Incidents
- Local Attitudes
- Local Conditions
- Partnerships & Connections
- Policies & Laws
- Financing
- External Pressures
  - Societal Pressure
  - Market Pressure
  - Performance Measurement Pressure

OUTER SETTING DOMAIN

- Critical Incidents
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Renamed Moved Added in 2.0 **Built out**

Outer Setting: Revamped constructs
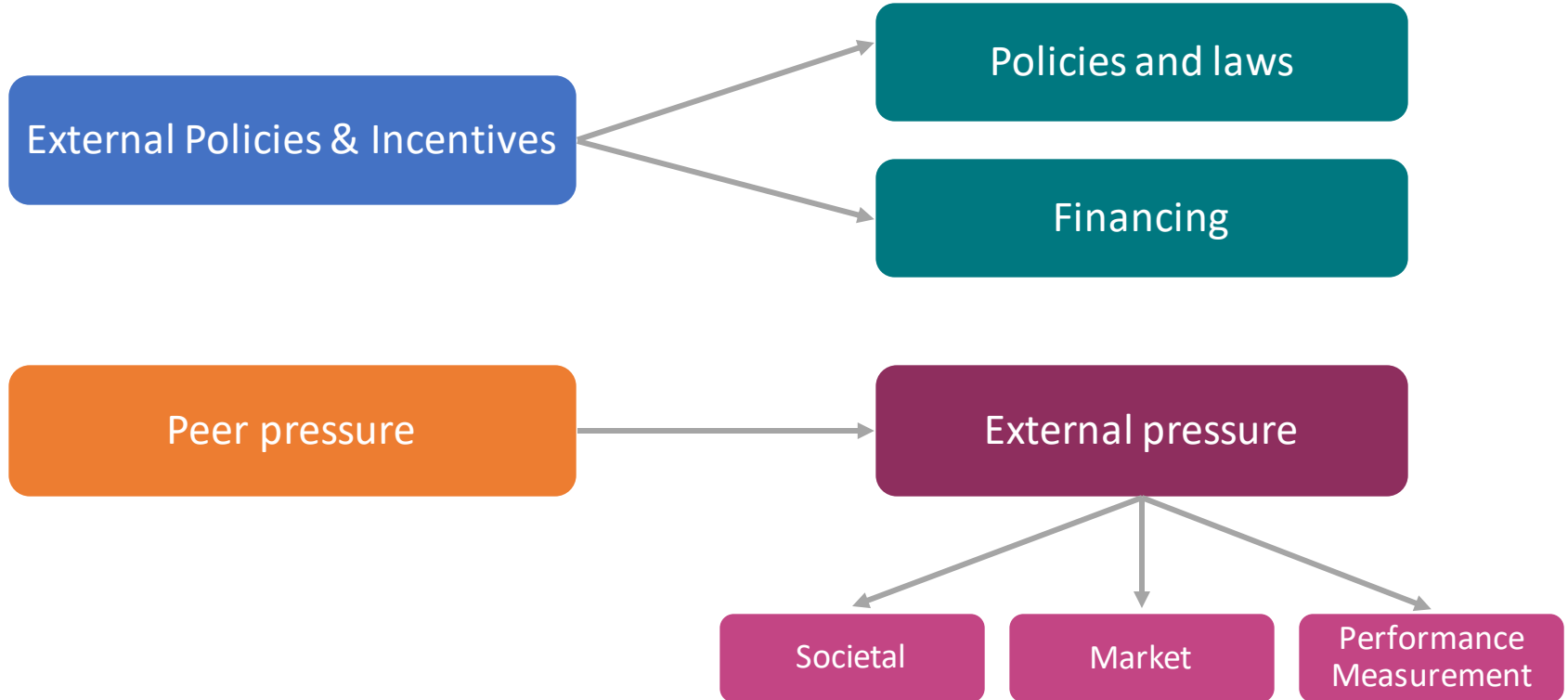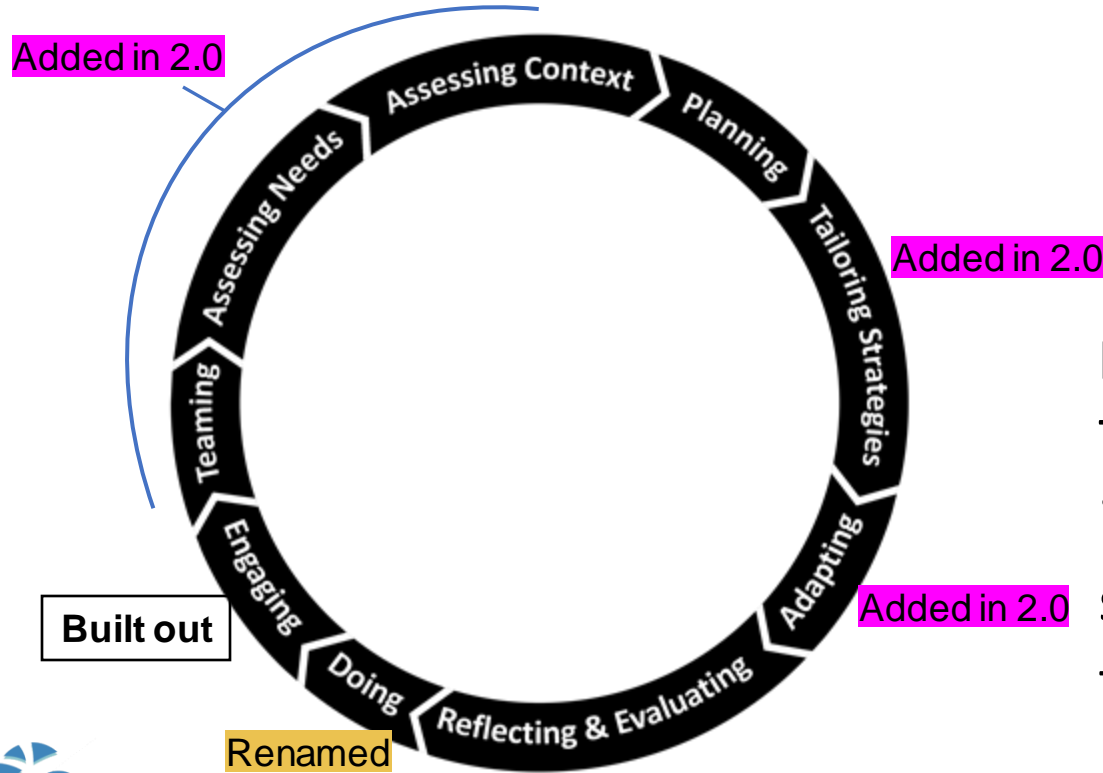
IMPLEMENTATION PROCESS DOMAIN

Complete overhaul
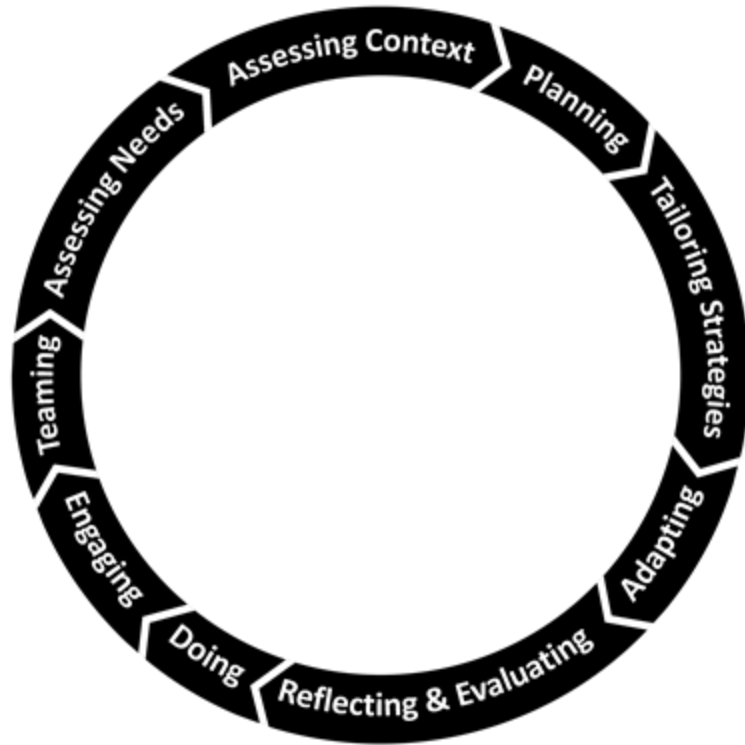
DEFINITION
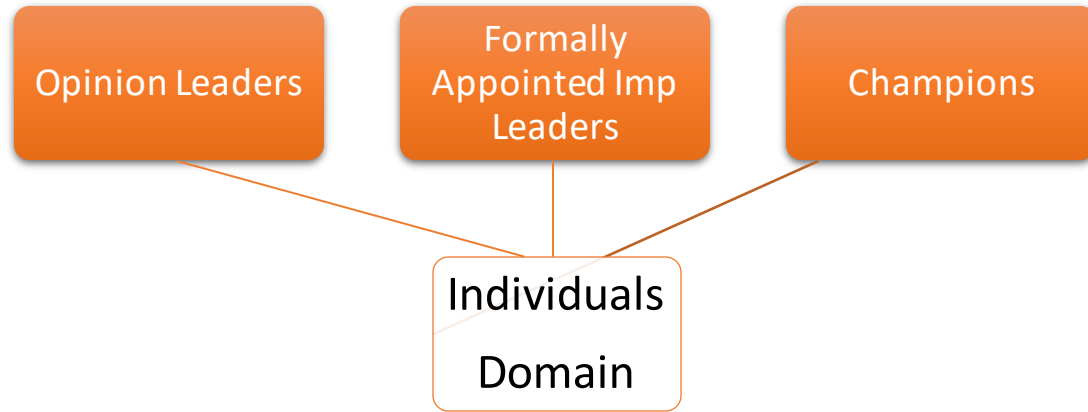The implementation process includes all the activities and strategies used to implement the innovation.

IMPLEMENTATION PROCESS DOMAIN

Added in 2.0

Added in 2.0

Added in 2.0

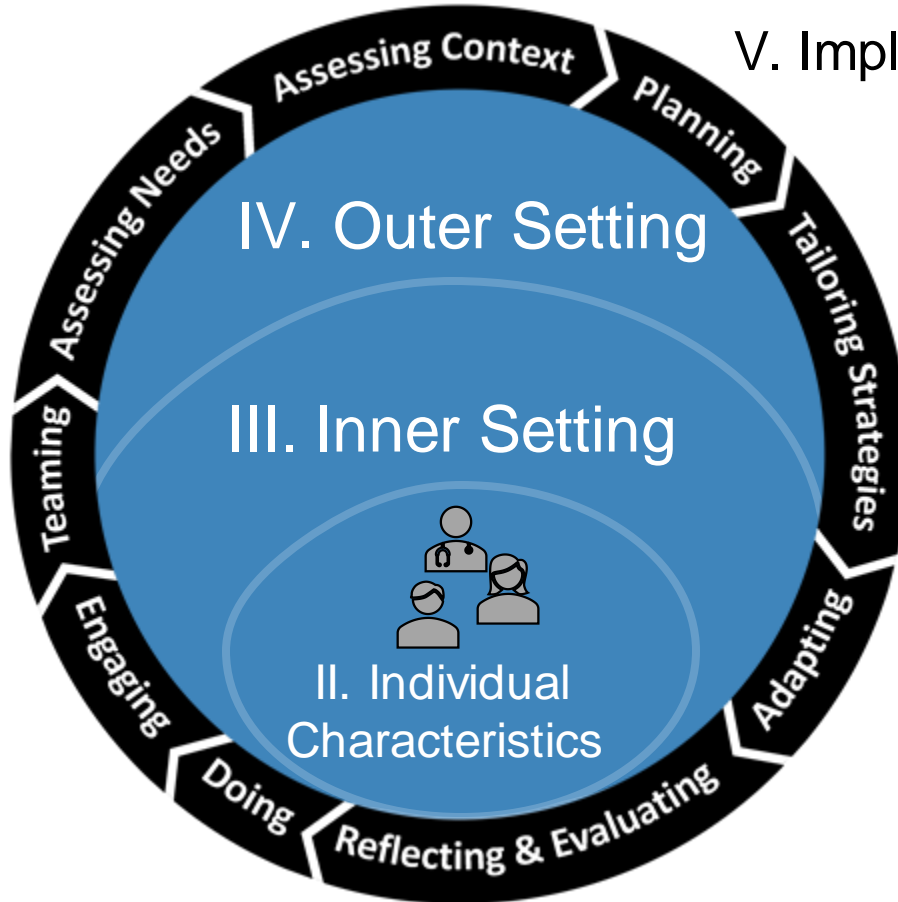Built out

Renamed

DEFINITION
The implementation process includes all the activities and strategies used to implement the innovation.
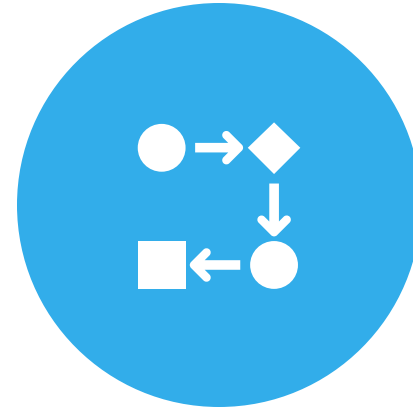
3 constructs were moved out

5 CFIR Domains

V. Implementation Process

I. Innovation

IV. Outer Setting

III. Inner Setting

II. Individual Characteristics

Assessing Context

Planning

Tailoring Strategies

Adapting

Reflecting & Evaluating

Doing

Engaging

Teaming

Assessing Needs

CFIR

Discussion

WHAT DO YOU THINK?

WHAT IMPLICATIONS DO YOU SEE THIS REVISION HAVING FOR YOUR WORK?

Thank You

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