

Evolution of the Consolidated Framework for Implementation Research (CFIR): Overview of CFIR 2.0



The Team

- Laura J. Damschroder
- Caitlin M. Reardon
- Julie C. Lowery
- Marilla Opra Widerquist
- *CFIR Users*
- *Survey Respondents*
- *Authors of published articles*

Funding



VA




U.S. Department of Veterans Affairs

Veterans Health Administration
Quality Enhancement Research Initiative

Poll Question

How familiar are you with the CFIR?

- a. Never heard of it**
 - b. I've heard of the CFIR**
 - c. I've thought about using the CFIR**
 - d. I've used it for a project**
 - e. I've used it in more than one project**
- 

CFIR 2009



CFIR First Published in 2009

Implementation Science



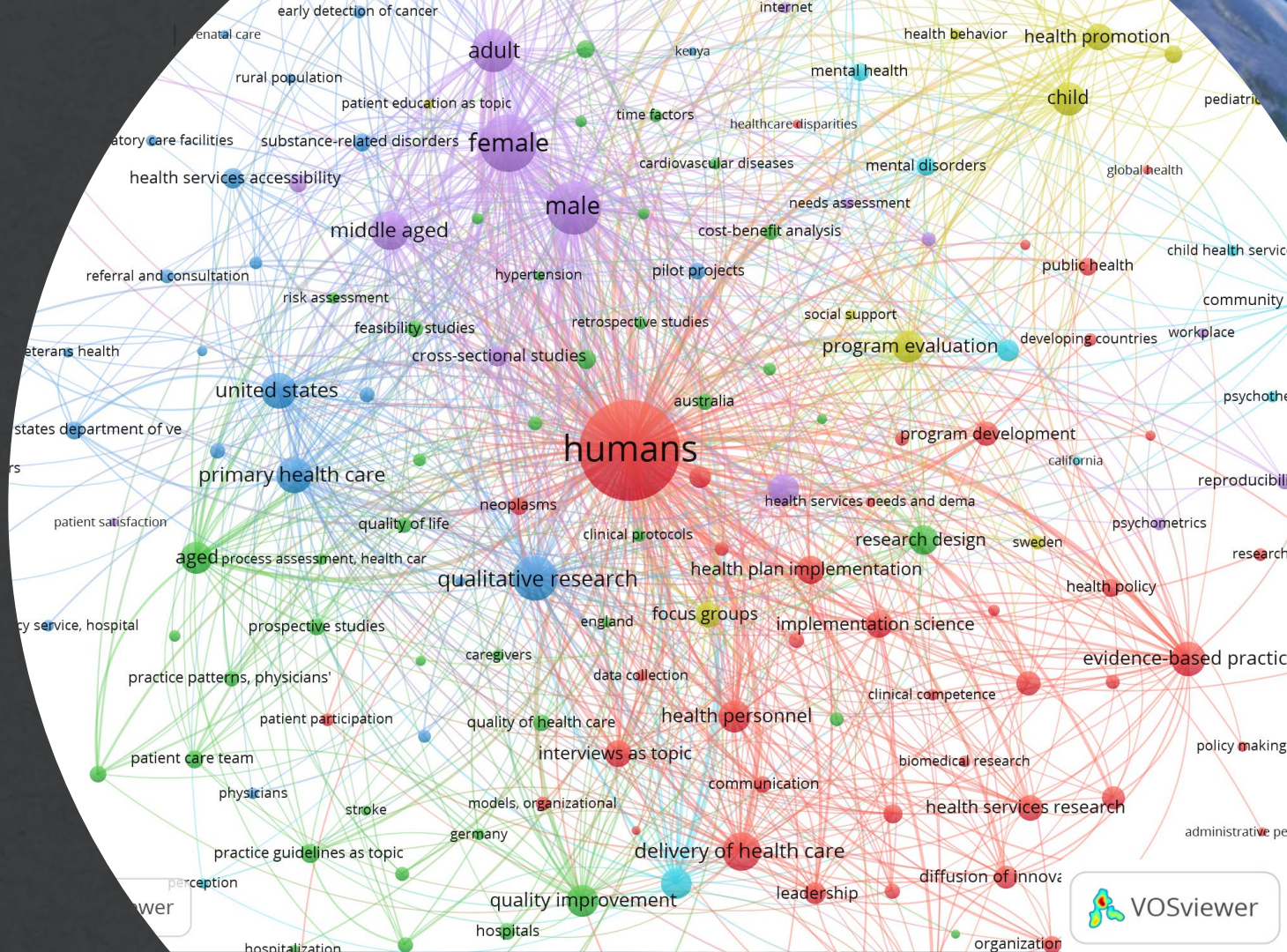
Research article

Open Access

Fostering implementation of health services research findings into practice: a consolidated framework for advancing implementation science

Laura J Damschroder*¹, David C Aron², Rosalind E Keith¹, Susan R Kirsh²,
Jeffery A Alexander³ and Julie C Lowery¹

Implementation Science 2009, 4:50
doi:10.1186/1748-5908-4-50




DEBATE

Open Access

Conceptualizing outcomes for use with the Consolidated Framework for Implementation Research (CFIR): the CFIR Outcomes Addendum



Laura J. Damschroder* , Caitlin M. Reardon, Marilla A. Opra Widerquist and Julie Lowery

CFIR Outcomes Addendum

CFIR Implementation Determinants

Innovation Determinants

Implementation Outcomes

Innovation Outcomes

**Anticipated
Implementation
Outcomes**

Indicators of anticipated
implementation success or
failure

**Actual
Implementation
Outcomes**

Indicators of actual
implementation success or
failure

Indicators of innovation success or failure:
innovation impact on key constituents

Innovation
Deliverers

Equitable
Population
Impact

Key
Decision-
Makers

Innovation
Recipients



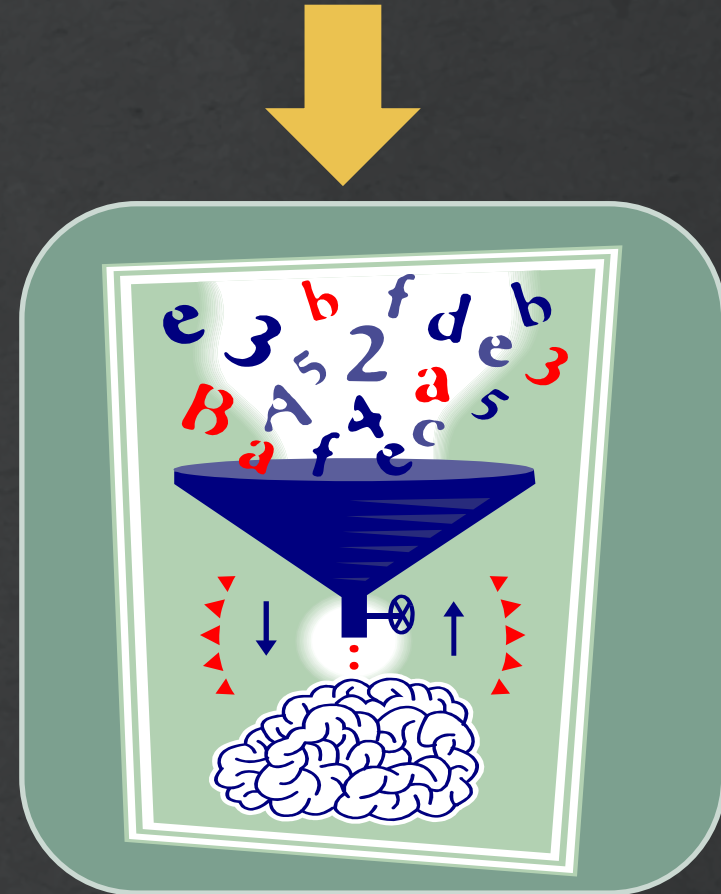
CFIR Implementation Determinants

CFIR Implementation Determinants

Power of Theory

- ✓ Provides organizing lens for research
- ✓ Provides common terms & definitions
- ✓ Systematically and efficiently build collective knowledge

Critique of Theory



CFIR 2009

PROCESS

Reflecting & Evaluating

Outer Setting

Inner Setting



Individual
Characteristics

Executing

Planning

Engaging

Dynamic interplay
between Process
(ACTION) and multi-
level, ripple effects of
CONTEXT



Overview of CFIR 2.0

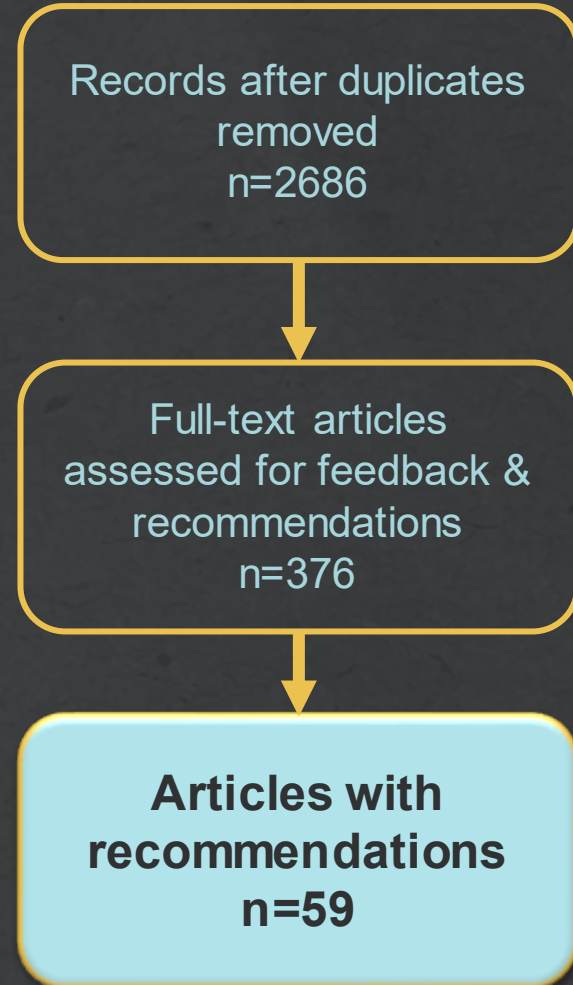


Literature Review

Objective: Identify articles with “**meaningful use**”

Searched articles with “**CFIR**” in Title or Abstract

- 2009 – 1/7/2020

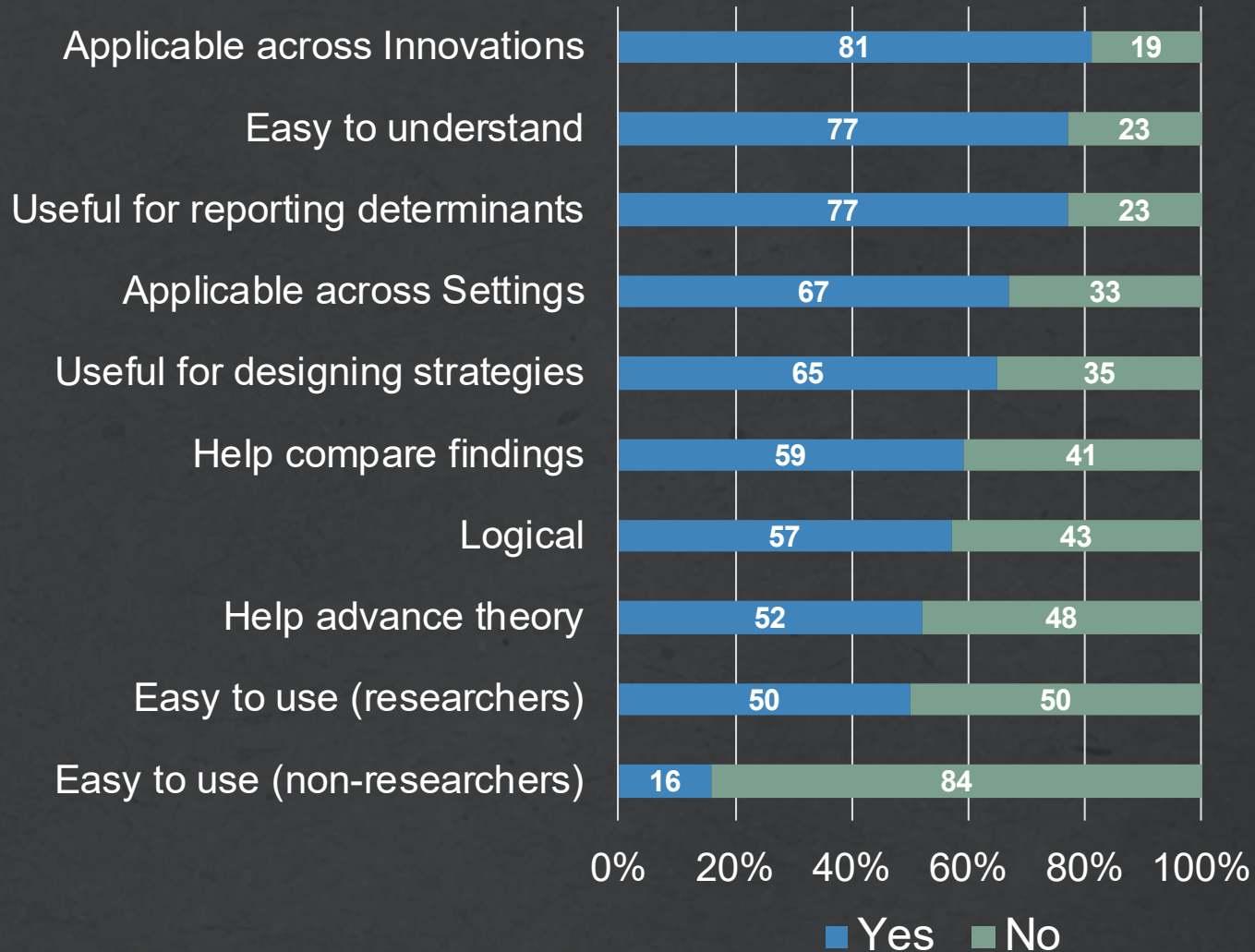


Survey of Authors

CFIR Users Surveyed
n=334

Response
n=128 (38%)

- ✓ CFIR Ratings
- ✓ Recommendations



Interpretive Approach to Context Assessment

Perceptions of the degree [insert text below] and its influence on implementation

- Qualitative Assessments
- Quantitative Assessments

Example

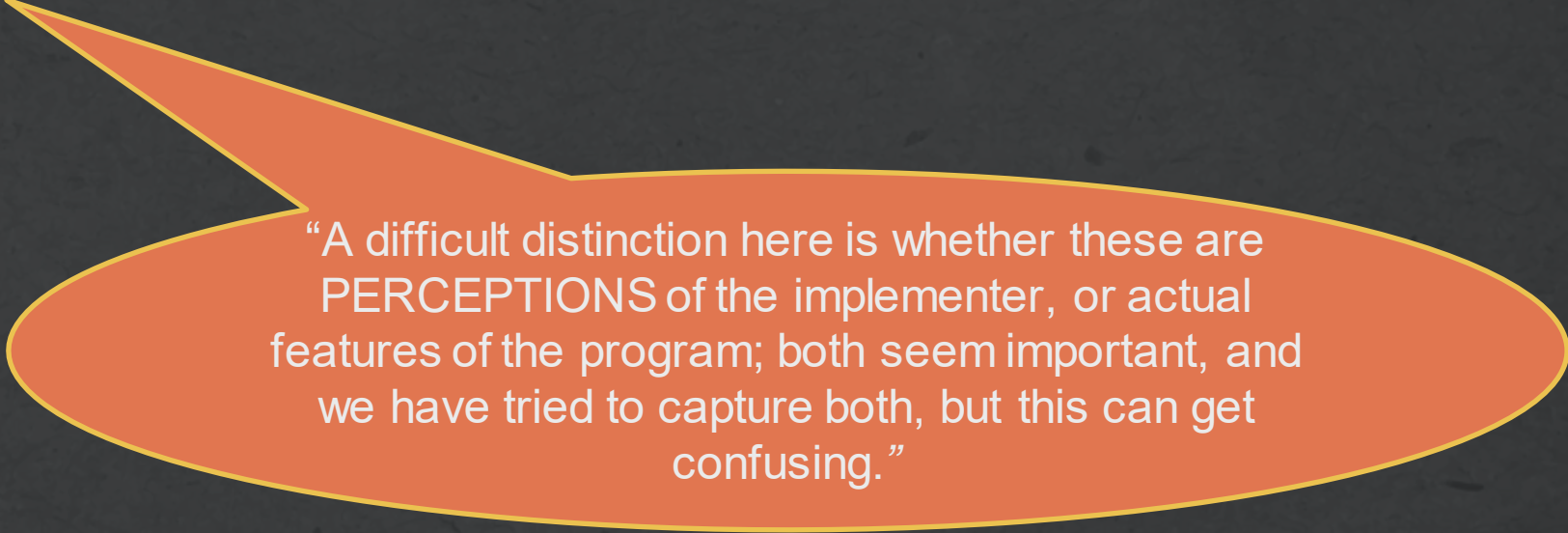
“Innovation Evidence-Base”

Perceptions of the degree...

the innovation has robust evidence supporting its effectiveness

...and its influence on implementation

Interpretive Approach to Context Assessment



“A difficult distinction here is whether these are PERCEPTIONS of the implementer, or actual features of the program; both seem important, and we have tried to capture both, but this can get confusing.”

Innovation Domain




Domain Definition

Perceptions of individuals who have influence and/or power over the outcome of implementation efforts **about the “thing” itself** that is being implemented

Domain Description

[Insert description of the innovation being implemented, (e.g., type, components), including core and adaptable components and the boundaries between the innovation (activities which continue when implementation is complete) and the implementation process (activities which end when implementation is complete).]



Whose Perceptions?



**Individuals who have influence
and/or power over the outcome of
implementation efforts**



Individual Characteristics

Domain: Feedback

CFIR 2009



Individual
Characteristics

This domain needs “...to be focused more on who the individuals are and their underlying characteristics...”

INDIVIDUALS DOMAIN

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*)



- **Roles**

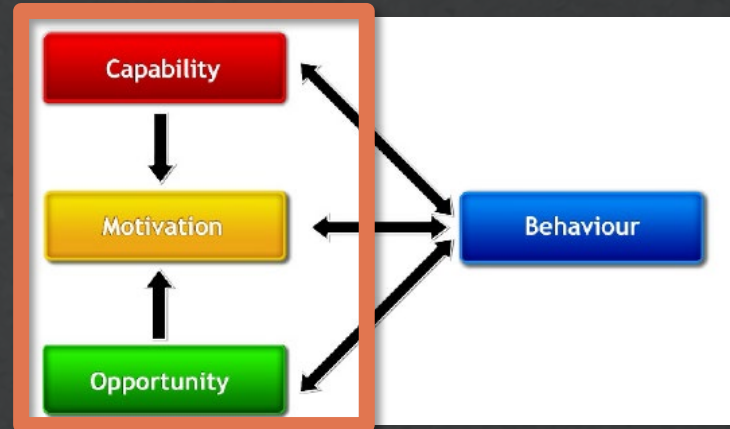
- ✓ Leaders
 - High-level (executive, VP)
 - Mid-level (managers, supervisors)
- ✓ Opinion Leaders
- ✓ Implementation Facilitators
- ✓ Implementation Leads
- ✓ Implementation Team Members
- ✓ Other Implementation Support
- ✓ Innovation Deliverers
- ✓ Innovation Recipients

INDIVIDUALS DOMAIN

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*)



- **Characteristics**



Michie et al 2011. DOI: [10.1186/1748-5908-6-42](https://doi.org/10.1186/1748-5908-6-42)

INDIVIDUALS DOMAIN

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*)



Roles

+ Role-specific theories

• Characteristics

- **Need**
Deficits related to survival, well-being, or personal fulfillment
- **Capability**
Individual has the necessary intrapersonal competence, knowledge, and skills to fulfill the role.
- **Opportunity**
Availability of individual(s), allocation of time, assignment of authority and other factors conferred to the [Role], needed to fulfill the [Role].
- **Motivation**
Individual is committed to fulfilling role.

Voice of the Patient

“So much of our work in health care and public health research/implementation is centered around our end users and their needs, assets, resources, and participation in implementation is important to highlight as a standalone domain that crosses all levels of implementation”

Voice of the Recipient

“Not all receivers are called patients; some are clients, consumers, community, educators, learners”

Voice of the Deliverer

“The joy of practicing medicine is gone.”

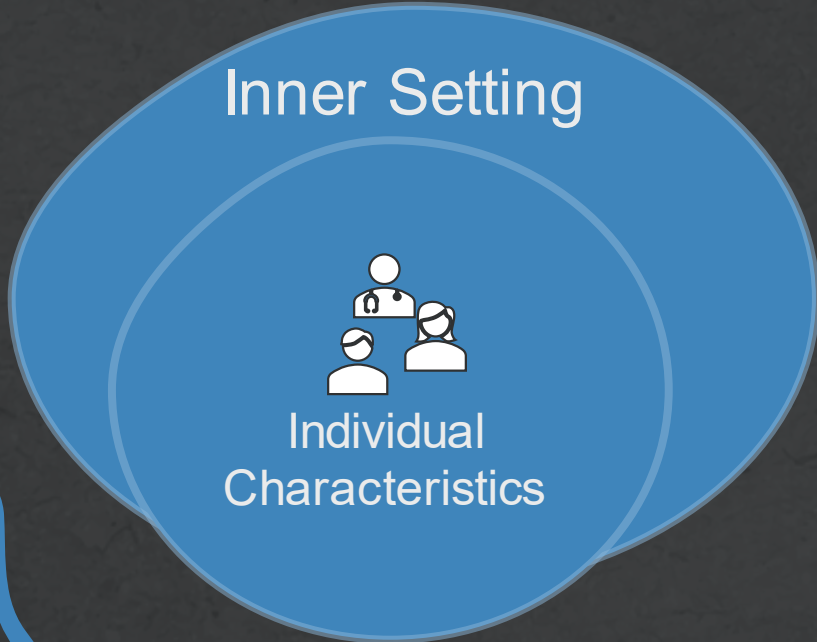
Bodenheimer & Sinsky 2014 DOI: 10.1370/afm.1713

INNER SETTING DOMAIN

DEFINITION

Perceptions of individuals who have influence and/or power over the outcome of implementation efforts **about the Inner Setting(s)**, the unit of analysis and 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.



INNER SETTING DOMAIN

“...more guidance needs to be provided”

“Create subcodes”

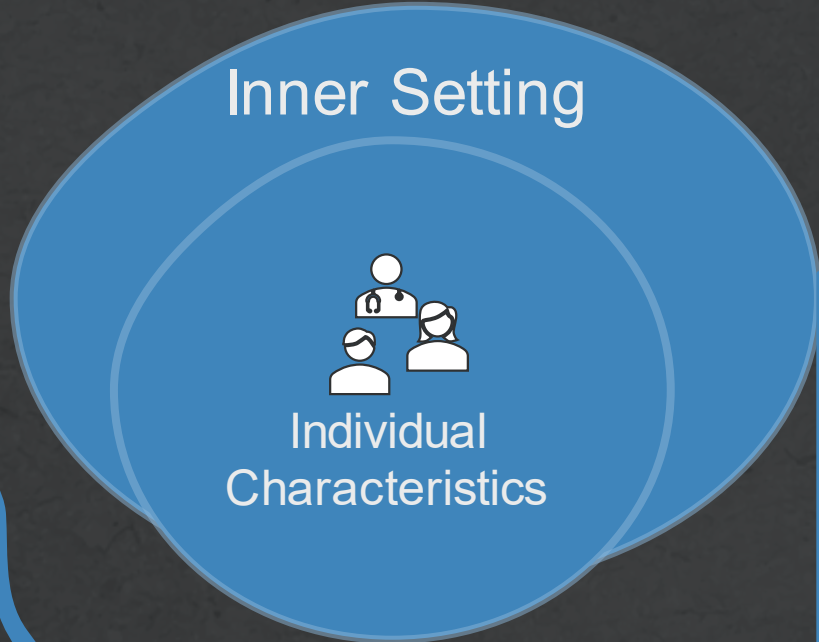
Inner Setting



Individual
Characteristics

- **Structural Characteristics**
 - Physical Infrastructure
 - Work Infrastructure
 - IT Infrastructure

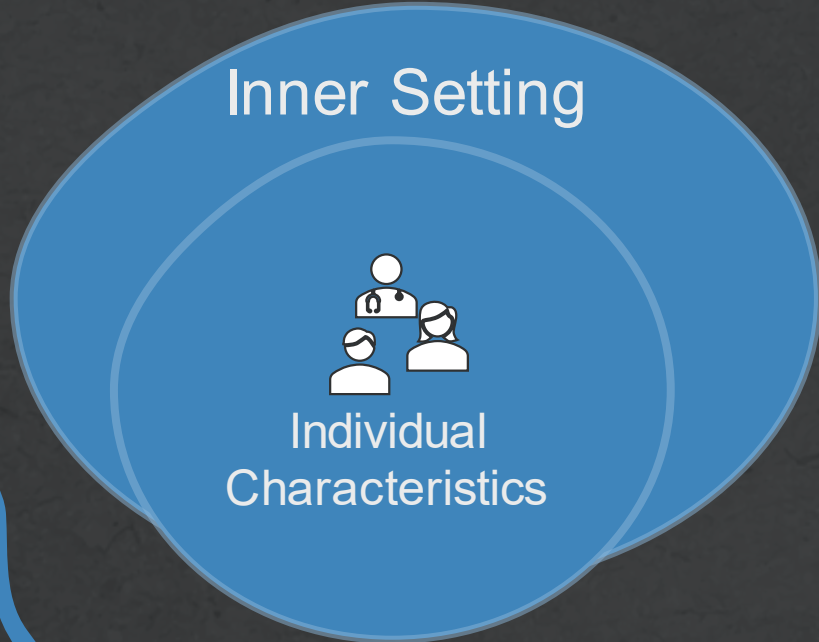
INNER SETTING DOMAIN



"I would separate this construct into two as it feels a bit double-barreled"

- **Networks & Communications**
 - **Relational** Connections
 - Communications

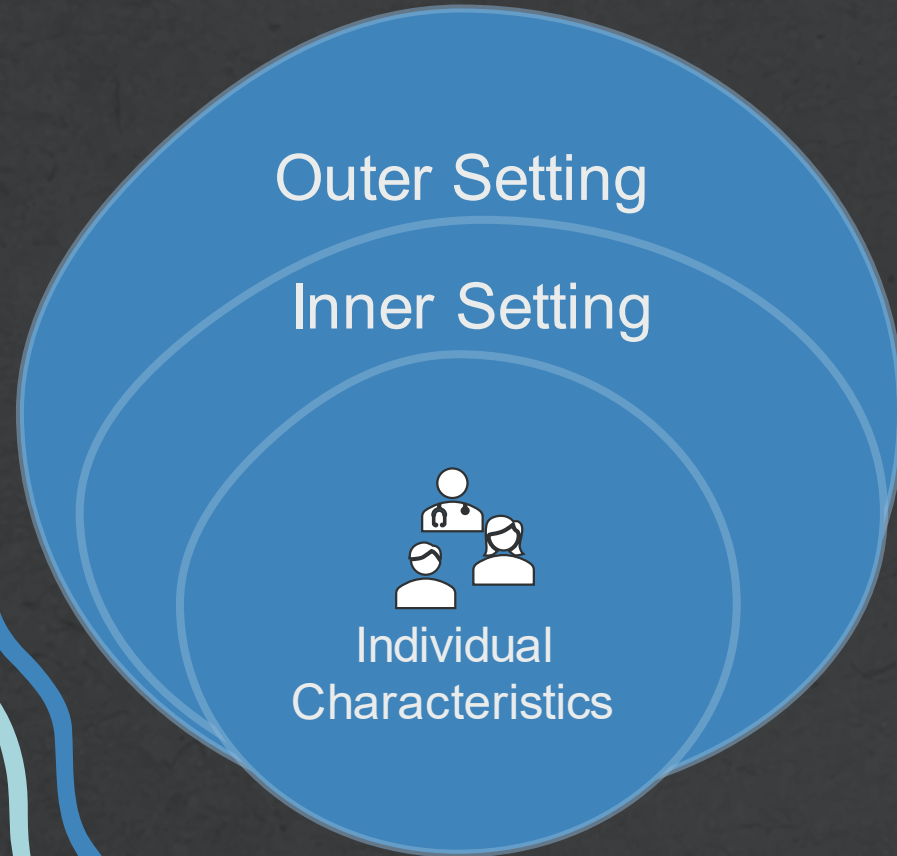
INNER SETTING DOMAIN



“Way too broad. Ends up becoming my ‘I don’t know where else this fits’ bucket.”

- **Culture**
 - **Human Equality**-centeredness
 - **Recipient**-centeredness
 - **Deliverer**-centeredness
 - Learning -centeredness

OUTER SETTING DOMAIN



DEFINITION

Perceptions of individuals who have influence and/or power over the outcome of implementation efforts **about the Outer Setting(s)** - the setting(s) in which the Inner Setting(s) exist(s))

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

OUTER SETTING

“...it is very important to have a description of the community/state...Is it poor, predominantly minority, underserved, housing costs, etc.”

Outer Setting

Inner Setting



Individual
Characteristics

- **External Values & Beliefs**
 - Societal and cultural values and beliefs, including convictions about the worthiness of Recipients
- **External Conditions**
 - The state of the environment, politics, and economics within the Outer Setting, including wealth/poverty, historical exclusion, and equity

CFIR 2009

PROCESS

Reflecting & Evaluating

Computer Settings

nn

xecuting

ning

ics

Engaging

"...there has been a lot of development of this domain since CFIR was published..."

"The process domain could use additional fleshing out, particularly as it relates to being a non-linear process."

IMPLEMENTATION PROCESS DOMAIN

“...consider using prescriptive frameworks...because CFIR is deterministic not prescriptive...”

Inner Setting



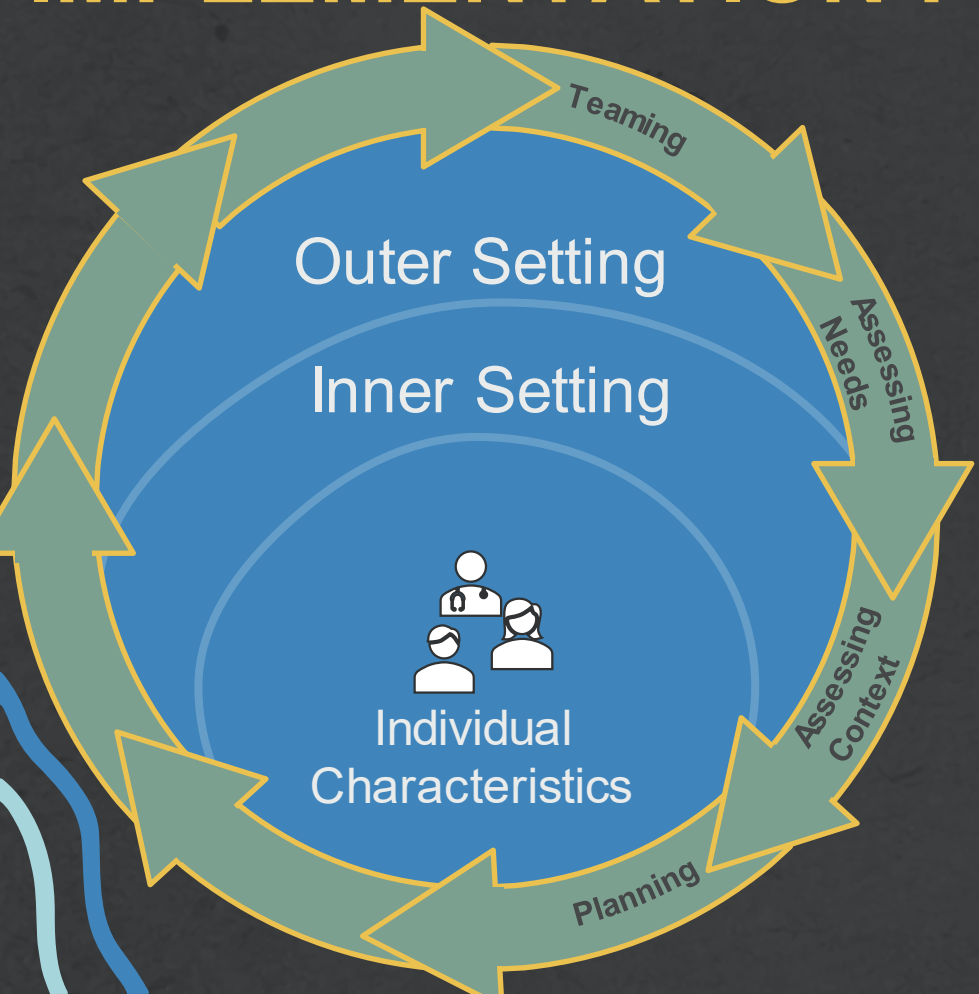
“planning/developing PDSA cycles, setting implementation goals (see OCM), planning pilots/incremental approaches”

DEFINITION

Perceptions of individuals who have influence and/or over the outcome of implementation efforts **about the processes used to implement** the innovation.

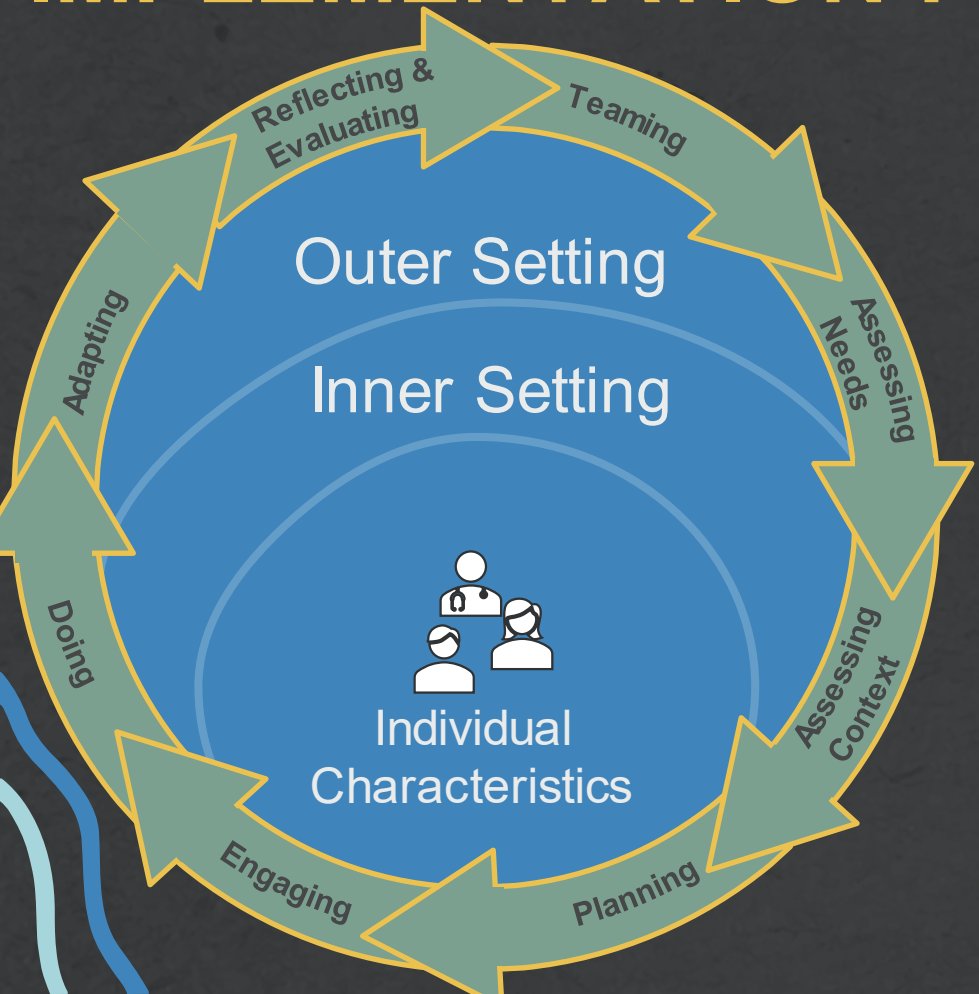
- Users may replace the label “Implementation Process” with the name of the implementation process framework being used.

IMPLEMENTATION PROCESS DOMAIN



- **Teaming**
- **Assessing Needs**
 - Deliverers
 - Recipients
- **Assessing Context**
- **Planning**
 - Setting Goals
 - Choosing Strategies

IMPLEMENTATION PROCESS DOMAIN



- **Engaging**
 - Deliverers
 - Recipients
- **Doing**
- **Adapting**
- **Reflecting & Evaluating**

Key Themes: CFIR 2.0

- Broadens CFIR applicability beyond healthcare
- Clarifies role of power and perception
- Centers recipients, deliverers, and teams



Thank You

Email: VHAANNHSRDCFIR@va.gov