



F O G A R T Y



Adapting Without Drift: Core Components, Adaptable Periphery, & Documenting Adaptation

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Learning Objectives

- To describe when and why we might need to adapt evidence-based interventions to new contexts
- To define the concepts of implementation fidelity and adaptation and select an approach to measuring them
- To recognize adaptable components of evidence-based intervention using a commonly-used adaptation model

IS starts with evidence-based interventions or practices



"Actions to improve health-related biomedical or behavioral outcomes"



PROCEDURES



PROGRAMS



PRODUCTS



POLICIES



PILLS

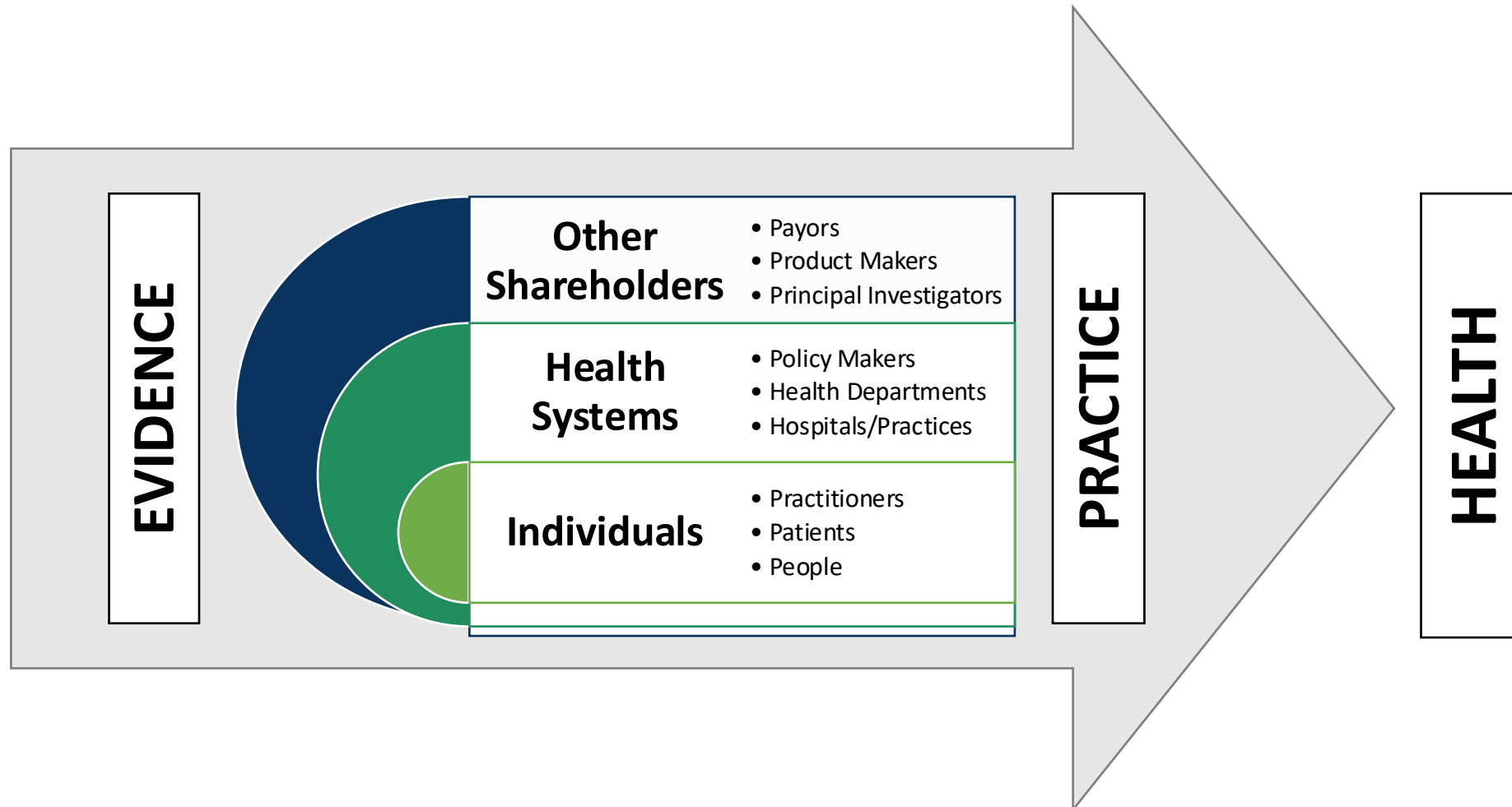


PRACTICES



PRINCIPLES

Yet, context affects implementation at many levels



How might context influence implementation?



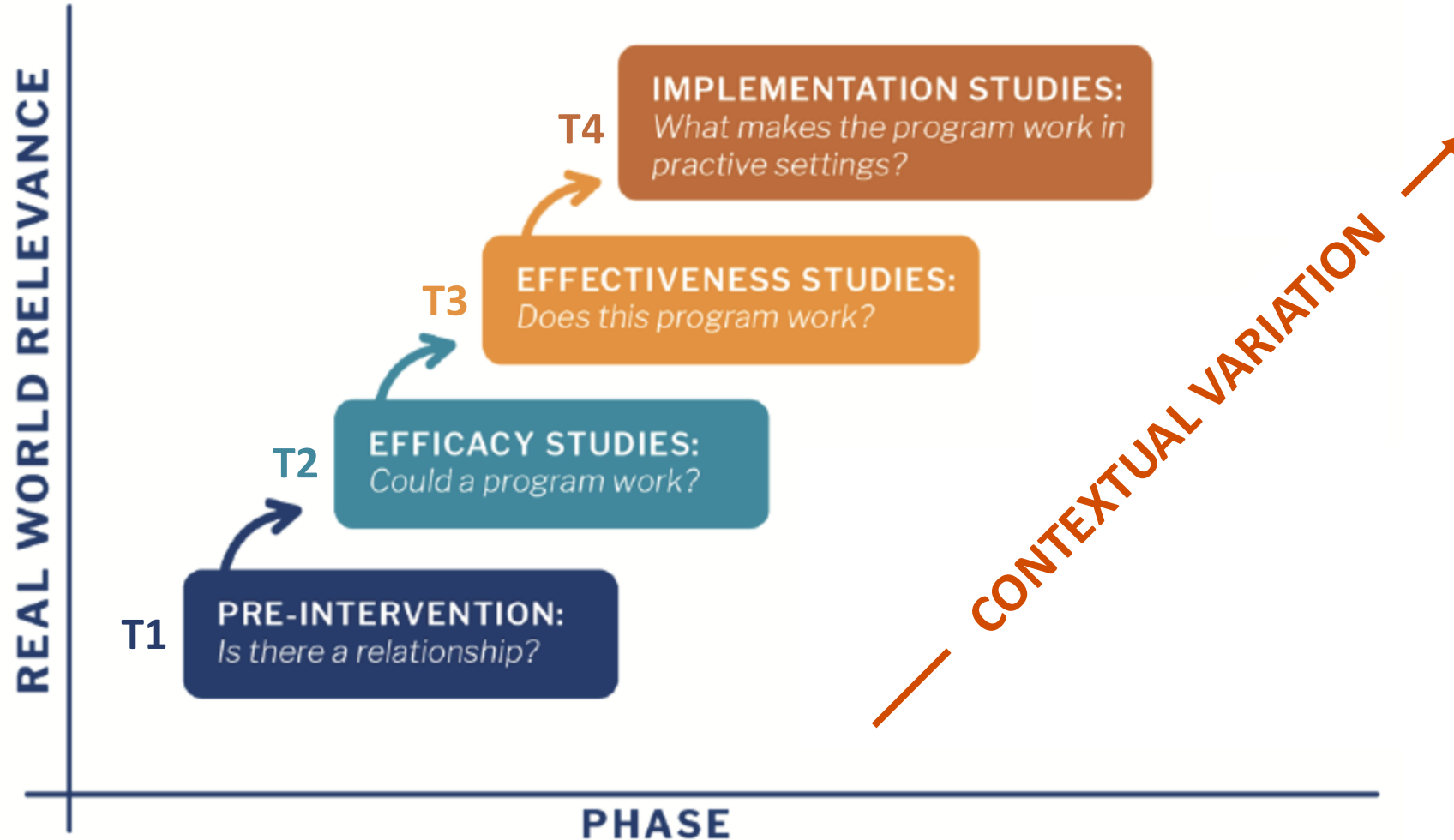
Cochrane Database of Systematic Reviews

Lay health workers in primary and community health care for maternal and child health and the management of infectious diseases (Review)

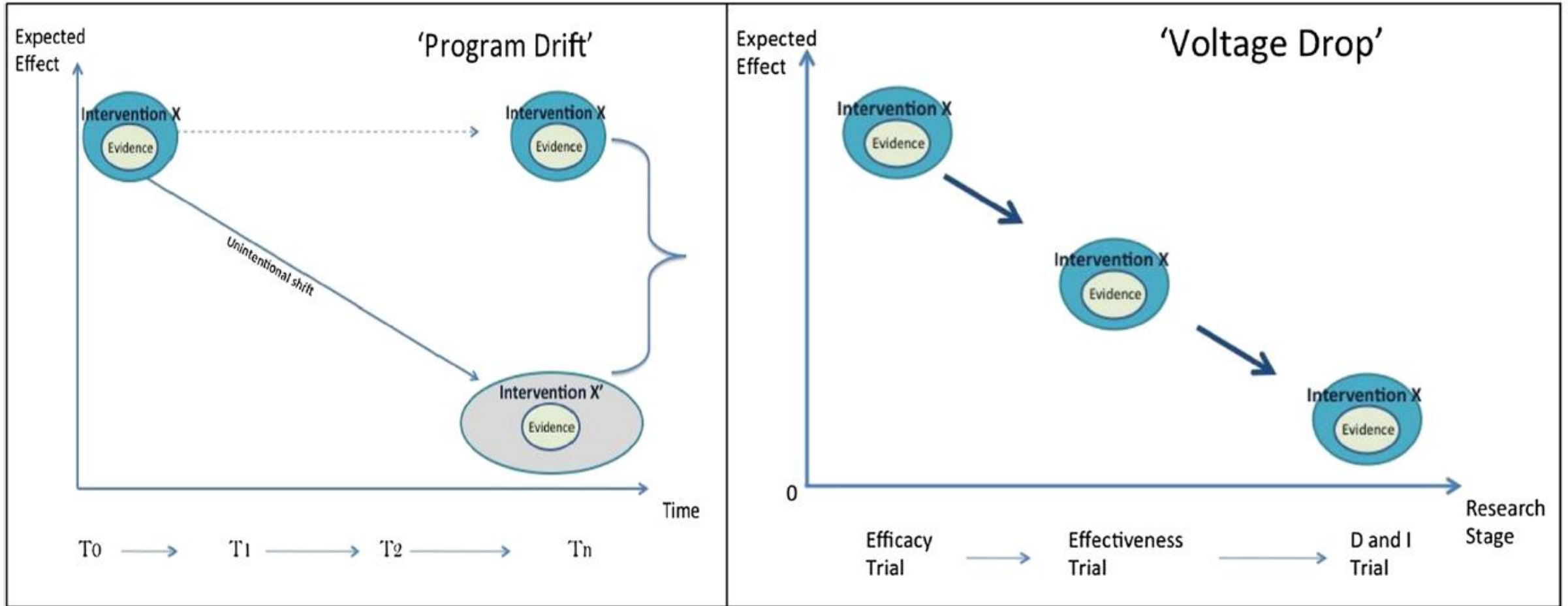
Lewin S, Munabi-Babigumira S, Glenton C, Daniels K, Bosch-Capblanch X, van Wyk BE, Odgaard-Jensen J, Johansen M, Aja GN, Zwarenstein M, Scheel IB



As real-world relevance increases, so does contextual variation



But watch out for Drift and Drop!



Key concept for evaluating implementation

When [implementation] efforts fail, as they often do, it is important to know if the failure occurred because the intervention was

- ineffective in the new setting (intervention failure),

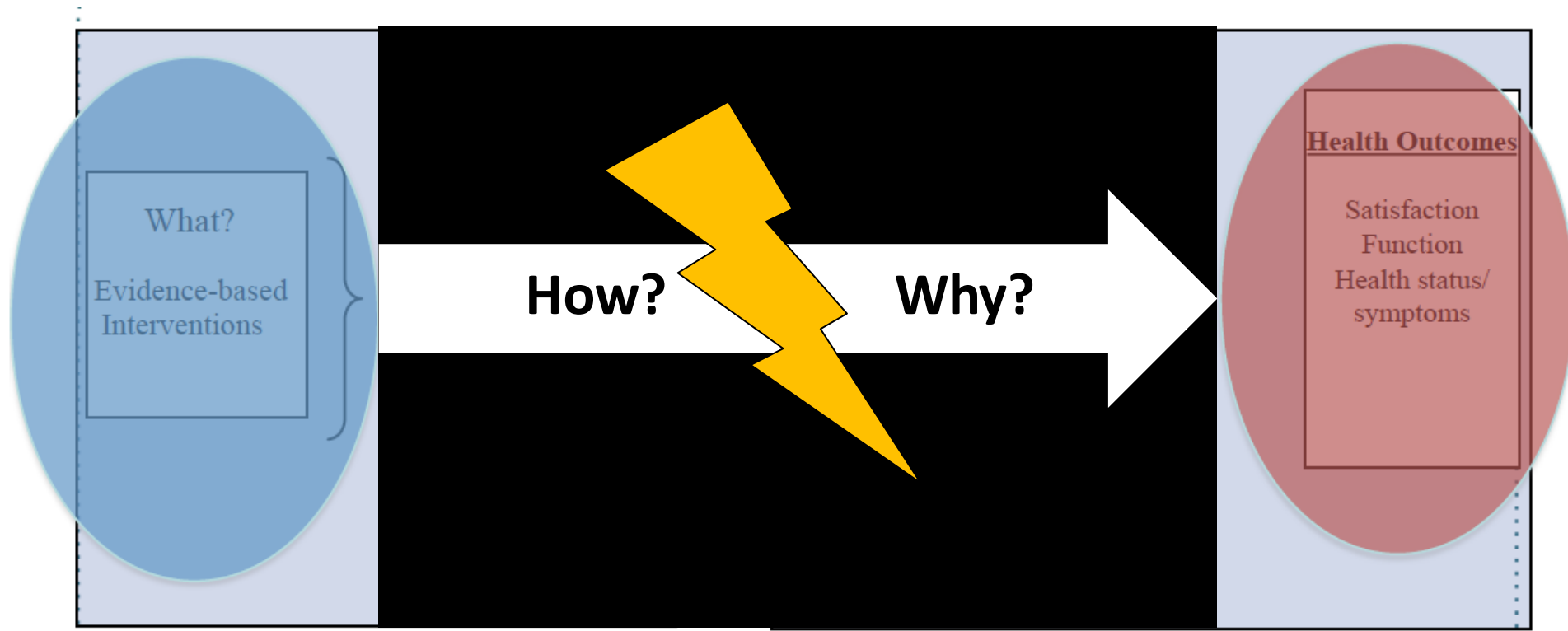
or

- deployed incorrectly (implementation failure)."

How can we tell the difference?



What we want to know when evaluating implementation...

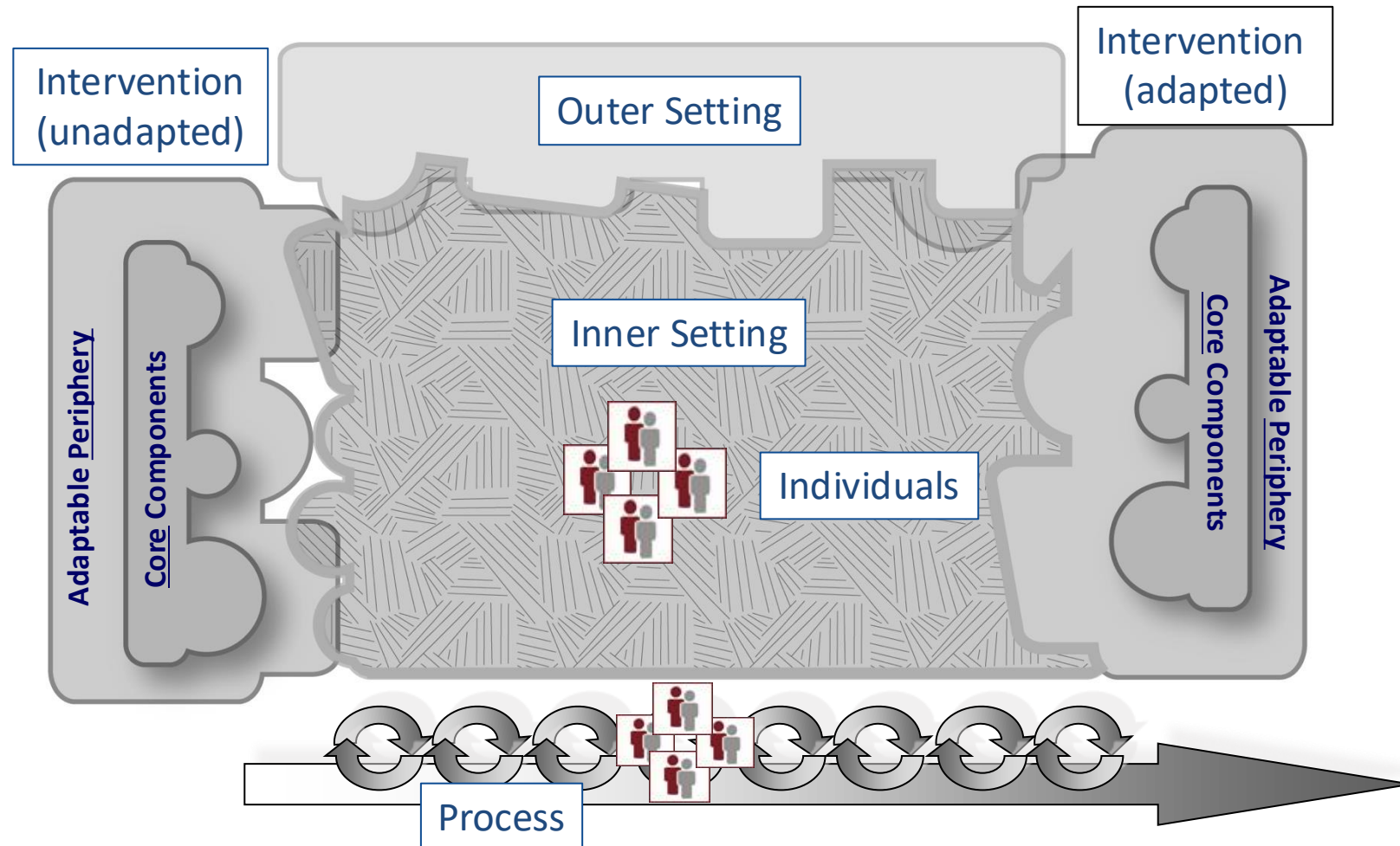


Did they adhere to the intervention protocol?

Fidelity vs Adaptation: A more detailed look

- Extent to which an **intervention or strategy is delivered as intended**
- 5 key dimensions of fidelity that can be assessed
 - **Adherence** to protocol
 - **Dose** of intervention delivered
 - **Quality** of delivery
 - Participant **response**
 - **Mechanisms** of impact
- But **adaptability (fit)** is also important, with a need to differentiate between *adaptation* (favorable) and *maladaptation*

Consolidated Framework for Implementation Research (CFIR)



Fidelity vs Adaptation: Baking vs. Frosting a Cake

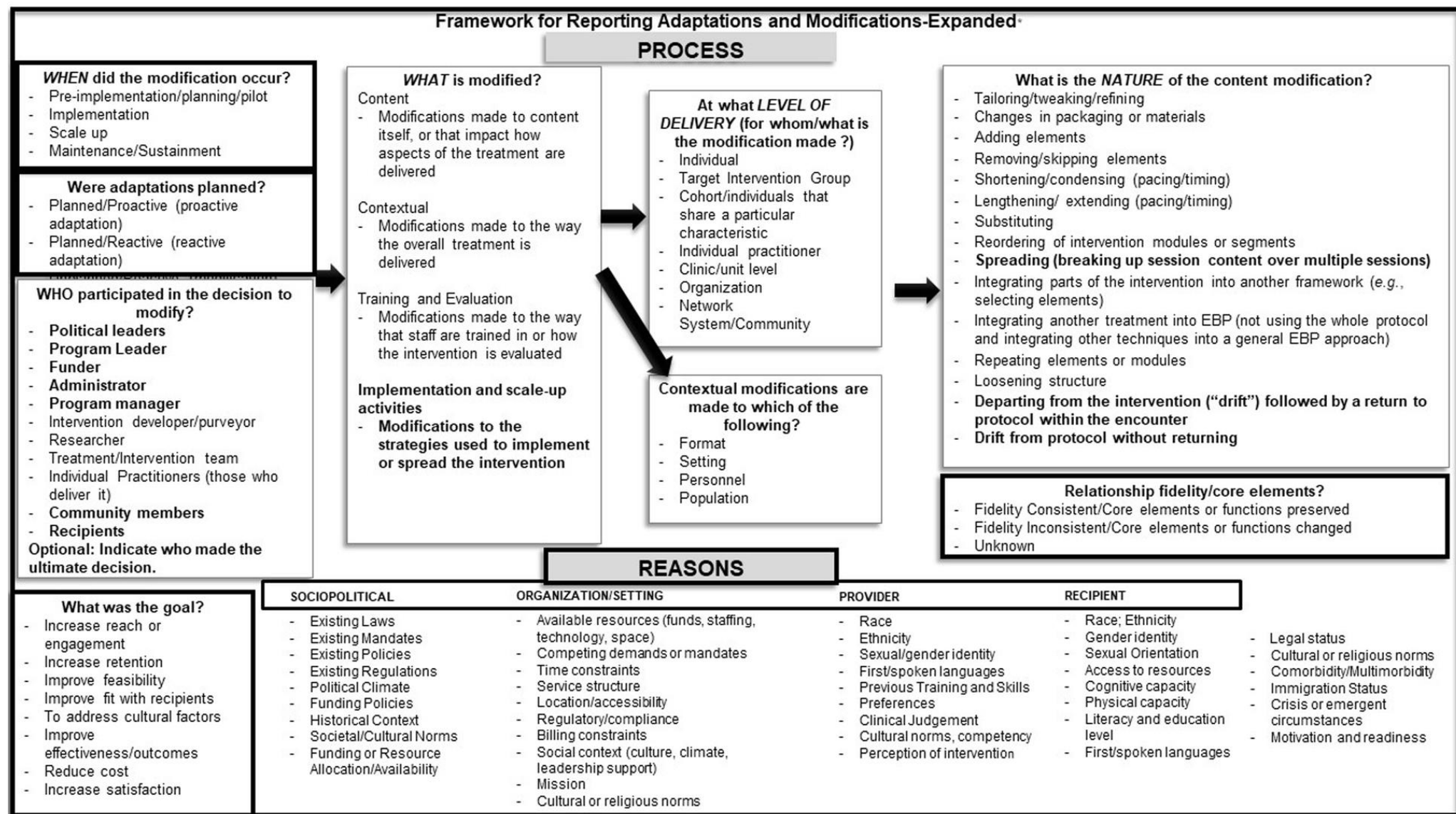


Why are fidelity/adaptation important?

- To identify **core ingredients** of strategy
 - vs. “**adaptable periphery**”
- To characterize **mechanisms**
 - If strategy works, how & why?
 - If it doesn't work, how not & why not?
- To explain **heterogeneity** across units
 - Adaptive?
 - Maladaptive?



Framework for Reporting Adaptations & Modifications-Expanded (FRAME)



Stirman
SW et al
Implement
Sci 2019

The Model for Adaptation Design and Impact (**MADI**)

Domain 1: Adaptation Characteristics
(Stirman et al., 2019)

Specify the Adaptations

1. **When** was the adaptation?
2. **Planned/Unplanned?**
3. **Who** adapted it?
4. **What** was adapted?
5. **Nature** of the adaptation?
6. **Why** adapted?

Domain 2: Possible Mediating or Moderating Factors
(Stirman et al., 2019; Moore et al., 2013)

Are the adaptations well-justified?

1. Were **core mechanisms** preserved?
2. Do the adaptations enhance **fit**?

Domain 3: Implementation and Intervention Outcomes (Intended and Unintended)
(Proctor et al., 2011)

Which implementation factors to consider?

1. Fidelity/adaptability
2. Context

It's your turn to adapt an evidence-based intervention (EBI)!

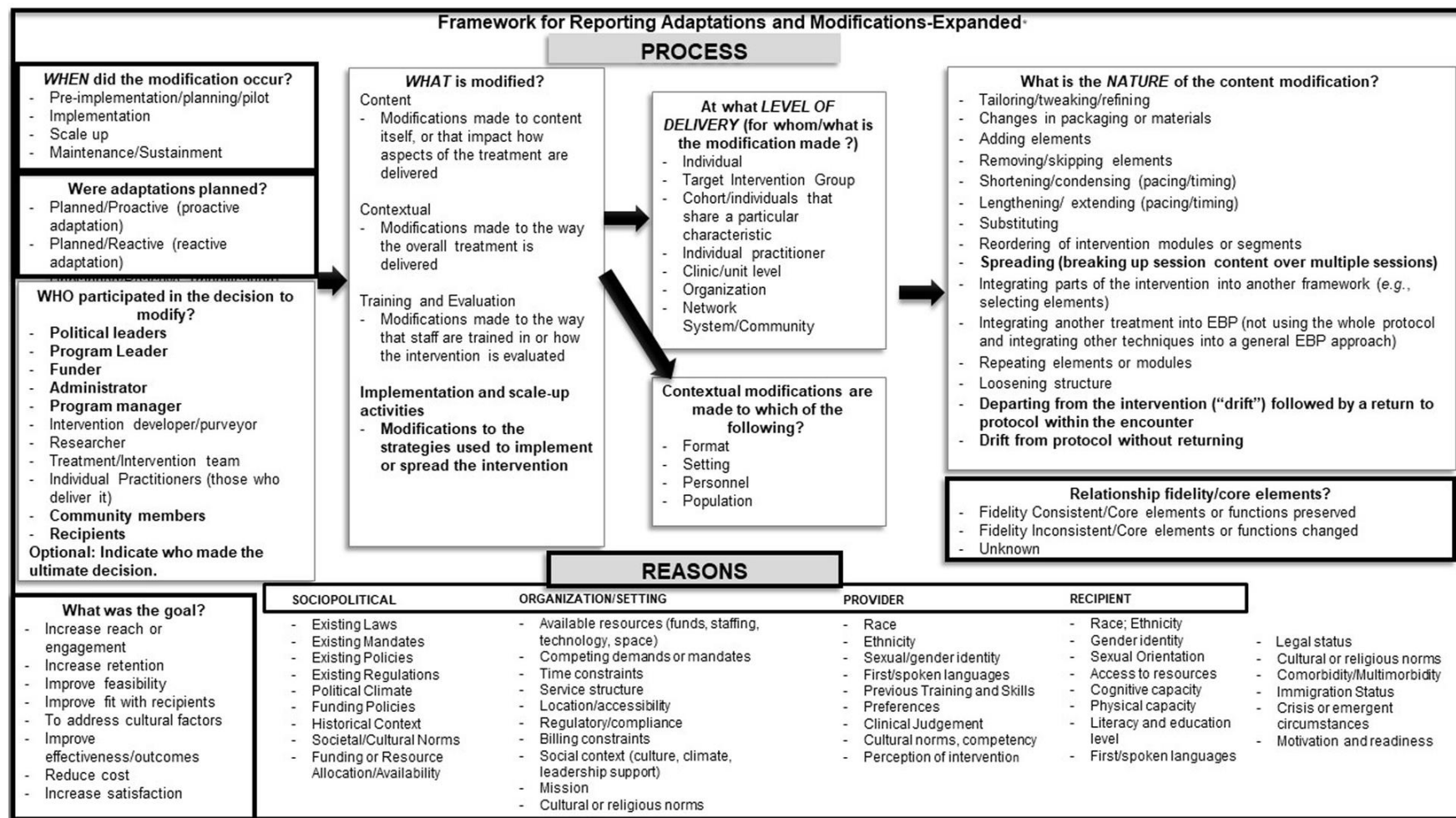
- Form a group with 2-3 others sitting nearby
- **Pick an EBI to adapt to your local setting**
 - PrEP for HIV prevention
 - OAT for OUD
 - WHO mhGAP for major depression
 - Abstinence / Cessation interventions for unhealthy alcohol use or smoking
 - NCDs or Cancer screening
 - Anything else you wish!
- Identify 1 rapporteur to record your adaptations using the FRAME

Framework for Reporting Adaptations & Modifications-Expanded (FRAME)

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Specify the Adaptations

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5. Nature of the adaptation?
6. Why adapted?



Framework for Reporting Adaptations and Modifications-Expanded

PROCESS

WHEN did the modification occur?

- Pre-implementation/planning/pilot
- Implementation
- Scale up
- Maintenance/Sustainment

Were adaptations planned?

- Planned/Proactive (proactive adaptation)
- Planned/Reactive (reactive adaptation)

WHO participated in the decision to modify?

- Political leaders
- Program Leader
- Funder
- Administrator
- Program manager
- Intervention developer/purveyor
- Researcher
- Treatment/Intervention team
- Individual Practitioners (those who deliver it)
- Community members
- Recipients

Optional: Indicate who made the ultimate decision.

WHAT is modified?

Content

- Modifications made to content itself, or that impact how aspects of the treatment are delivered

Contextual

- Modifications made to the way the overall treatment is delivered

Training and Evaluation

- Modifications made to the way that staff are trained in or how the intervention is evaluated

Implementation and scale-up activities

- Modifications to the strategies used to implement or spread the intervention

At what LEVEL OF DELIVERY (for whom/what is the modification made?)

- Individual
- Target Intervention Group
- Cohort/individuals that share a particular characteristic
- Individual practitioner
- Clinic/unit level
- Organization
- Network
- System/Community

Contextual modifications are made to which of the following?

- Format
- Setting
- Personnel
- Population

What is the NATURE of the content modification?

- Tailoring/tweaking/refining
- Changes in packaging or materials
- Adding elements
- Removing/skipping elements
- Shortening/condensing (pacing/timing)
- Lengthening/ extending (pacing/timing)
- Substituting
- Reordering of intervention modules or segments
- **Spreading (breaking up session content over multiple sessions)**
- Integrating parts of the intervention into another framework (e.g., selecting elements)
- Integrating another treatment into EBP (not using the whole protocol and integrating other techniques into a general EBP approach)
- Repeating elements or modules
- Loosening structure
- **Departing from the intervention ("drift") followed by a return to protocol within the encounter**
- **Drift from protocol without returning**

Relationship fidelity/core elements?

- Fidelity Consistent/Core elements or functions preserved
- Fidelity Inconsistent/Core elements or functions changed
- Unknown

REASONS

What was the goal?

- Increase reach or engagement
- Increase retention
- Improve feasibility
- Improve fit with recipients
- To address cultural factors
- Improve effectiveness/outcomes
- Reduce cost
- Increase satisfaction

SOCIOPOLITICAL

- Existing Laws
- Existing Mandates
- Existing Policies
- Existing Regulations
- Political Climate
- Funding Policies
- Historical Context
- Societal/Cultural Norms
- Funding or Resource Allocation/Availability

ORGANIZATION/SETTING

- Available resources (funds, staffing, technology, space)
- Competing demands or mandates
- Time constraints
- Service structure
- Location/accessibility
- Regulatory/compliance
- Billing constraints
- Social context (culture, climate, leadership support)
- Mission
- Cultural or religious norms

PROVIDER

- Race
- Ethnicity
- Sexual/gender identity
- First/spoken languages
- Previous Training and Skills
- Preferences
- Clinical Judgement
- Cultural norms, competency
- Perception of intervention

RECIPIENT

- Race; Ethnicity
- Gender identity
- Sexual Orientation
- Access to resources
- Cognitive capacity
- Physical capacity
- Literacy and education level
- First/spoken languages
- Legal status
- Cultural or religious norms
- Comorbidity/Multimorbidity
- Immigration Status
- Crisis or emergent circumstances
- Motivation and readiness

Report Back & Discussion

