Next steps: Coding and analyzing your qualitative data according to your theory

- Importance of coding
- Review of CFIR
- Coding using CFIR constructs; refining definitions
- Analyzing your data after coding
- Example
- Sharing our findings

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Importance of Coding" State of the Literature

- Systematic reviews of interventions consistently show
  - Some work some of the time
  - None work all of the time
  - More research needed to figure out what works where and why
- Inadequate descriptions of intervention(s), context, and implementation
  - Large majority of trials have no qualitative component
  - Implementation studies suffer from small samples

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Glenton, C., Lewin, S., & Scheel, I. B. (2011). Still too little qualitative research to shed light on results from reviews of effectiveness trials: A case study of a Cochrane review on the use of lay health workers. *Implement Sci, 6(1), 53. doi: 10.1186/1748-5908-6-53*
Weiner, B. J., Amick, H. R., Lund, J. L., Lee, S. Y., & Hoff, T. J. (2011). Use of qualitative methods in published health services and management research: a 10-year review. *Medical Care Research and Review, 68(1), 3-33. doi: 10.1177/1077558710372810*

Consolidated Framework for Implementation Research (CFIR)

- A comprehensive framework to promote consistent use of constructs, terminology, and definitions
  - Consolidate existing models and frameworks
  - Comprehensive in scope
  - Tailor use to the setting

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Damschroder L, Aron D, Keith R, Kirsh S, Alexander J, Lowery J: Fostering implementation of health services research findings into practice: a consolidated framework for advancing implementation science. 2009, 4:50.

CFIR: 5 Major Domains

- **Intervention**
  - 8 Constructs (e.g., evidence strength & quality, complexity)
- **Outer Setting**
  - 4 Constructs (e.g., patient needs & resources)
- **Inner Setting**
  - 14 constructs (e.g., leadership engagement, available resources)
- **Individuals Involved**
  - 5 Constructs (e.g., knowledge, self-efficacy)
- **Process**
  - 8 Constructs (e.g., plan, engage, champions)

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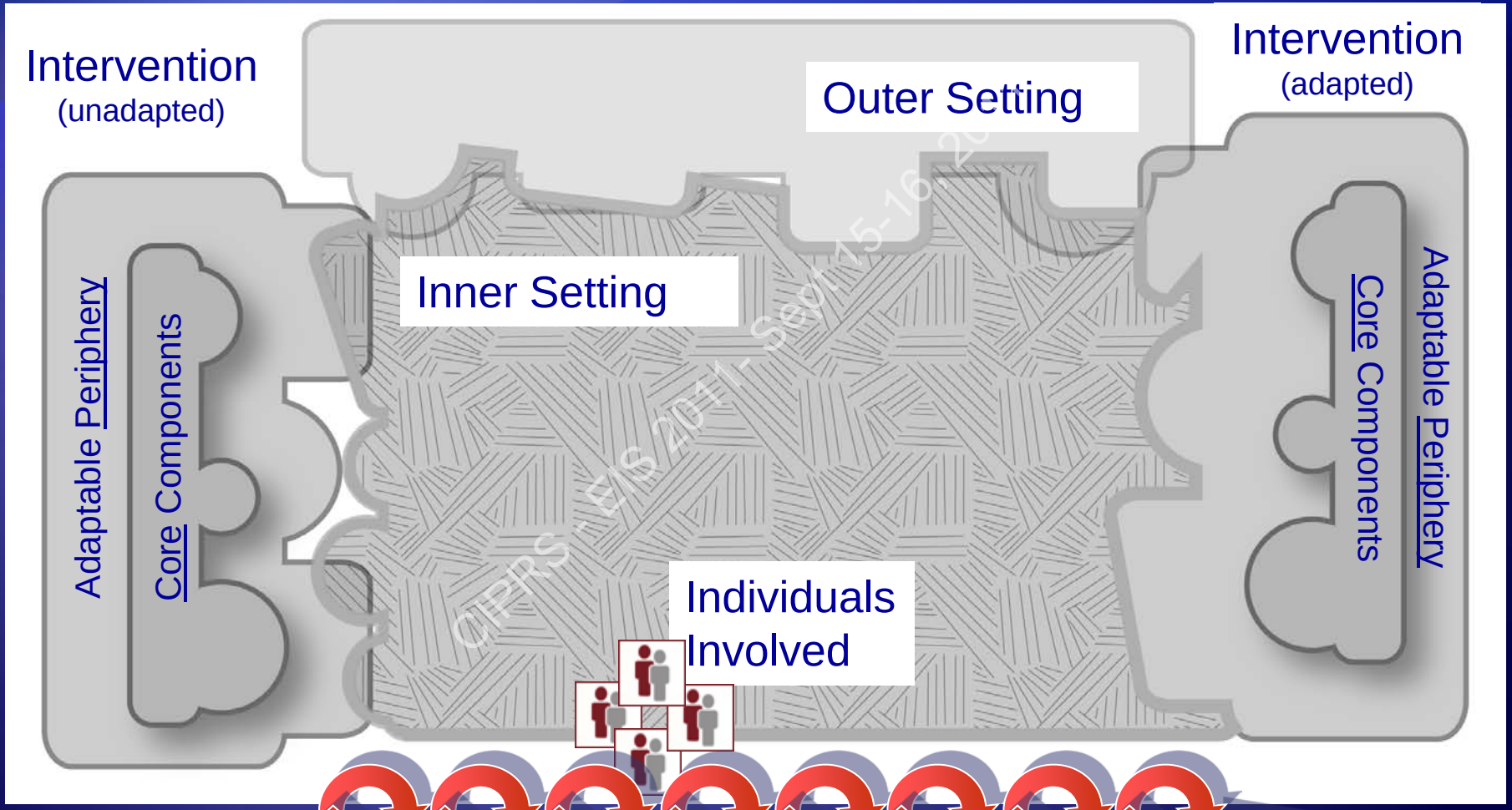
CFIR Domains - Visual



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The CFIR:

- Embraces, consolidates, and standardizes key constructs from other models
- Agnostic to specific models and theories
- Provides a pragmatic structure for evaluating complex implementations
- Helps to organize findings across disparate implementations
- Paves the way for cross-study synthesis

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Application of the CFIR

- Consists of 39 individual constructs
- Cannot use them all in every study
  - And not all will apply
  - A priori assessment of which constructs to include
    - Modifiable & non-modifiable constructs
- Determine levels at which each construct may apply
  - E.g., teams, departments, clinics, regions

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Coding using CFIR constructs; refining the definitions

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Analysis of qualitative data: Assigning a valence

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Case Example

- Mixed methods study of barriers and facilitators of MOVE! Program implementation in VA
  - MOVE! Weight Management Program disseminated in January 2006
  - Purposive sample of 5 sites
    - Maximize variation with respect to program volume
      - Indicator of implementation effectiveness
  - Semi-structured interviews with 24 stakeholders
    - 83% of those contacted and invited, participated in the study

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Study Aim

- Identify differences in organizational factors between facilities with high MOVE! implementation effectiveness versus those with low implementation effectiveness
  - Help explain the high variation in levels of patient participation observed across VHA facilities

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Sharing our findings: Using the CFIR as organizing framework

- WIKI for construct definitions
- Repository of study results

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Sharing our findings

- The CFIR website will promote:
  - Synthesis of findings
  - Predictive modeling
  - Site-specific "System-change likelihood Indices"[1]
- Which will result in…
  - … more reliable implementation strategies
  - …more generalized knowledge about what works where and why

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1. Davidoff F: **Heterogeneity is not always noise: lessons from improvement.** ***JAMA 2009, 302:2580-2586.***