

Implementing and Sustaining Evidence-Based Programs: Have We Got A Sporting Chance?

Blueprints Conference April 8, 2010



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There are Challenges

Science to Service Gap

What is known is generally <u>not</u> what is adopted

Implementation Gap

- There are not clear pathways to implementation
- What is adopted often is <u>not</u> used with fidelity and good effect
- What is implemented can disappear over time and with staff turnover

Learning About Effective Implementation

Craft knowledge

- National meeting of EBP Program Developers
- National meeting of EBP Implementation Sites
- National meeting of Implementation Researchers
- Interviews with 64 Program Developers
- Work with Program Developers, States, Agencies across domains

Formal and scientific information

- Current Projects (Catawba County, Education, Early Childhood)
- Program Efforts and Replication Data
- Review of evaluation and research literature related to implementation
- Publication of Implementation Research: A Synthesis of the Literature (2005)

WHAT HAVE WE LEARNED?



There are Shared Challenges!!

Implementation is implementation in:

- Health and Medicine
- Mental health,
- Agriculture and Forestry
- Manufacturing and Business
- Substance abuse
- Child welfare,
- Education,
- Engineering,
- Juvenile Justice,
- Nursing, ...and more
- They have similar implementation problems
 - They have similar implementation solutions
 - We can learn more ...more quickly



Positive Intervention Outcomes ≠ Effective Implementation

Implementation has not been achieved by doing more or better research on interventions.

The usability of a program or practice has nothing to do with the weight of the evidence regarding that program

> -"Evidence" on effectiveness <u>helps you</u> <u>select</u> what to implement for whom

-"Evidence" on outcomes <u>does not help you</u> <u>implement</u> the program

Implementation Science

- Data Show These Methods, When Used Alone, <u>Do Not Result In</u> <u>Implementation As Intended</u>:
- Diffusion/ Dissemination of information
- 🍂 Training
- Passing laws/ mandates/ regulations
- Providing funding/ incentives
- Organization change/ reorganization

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Problem

Children, families, and communities cannot benefit from violence prevention or intervention strategies that they do not experience

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Implementation Science

			IMPLEMENTATION – The "How"	
			Effective	NOT Effective
/ENTION	What"	Effective	Actual Benefits	Inconsistent; Not Sustainable; Poor outcomes
INTERVI	The	NOT Effective	Poor outcomes	Poor outcomes; Sometimes harmful
	Atr.	(Institute of Modi	icine 2000: 2001: 2009: New	Freedom Commission on

(Institute of Medicine, 2000; 2001; 2009; New Freedom Commission on Mental Health, 2003; National Commission on Excellence in Education,1983; Department of Health and Human Services, 1999)

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What works?...Fidelity Matters

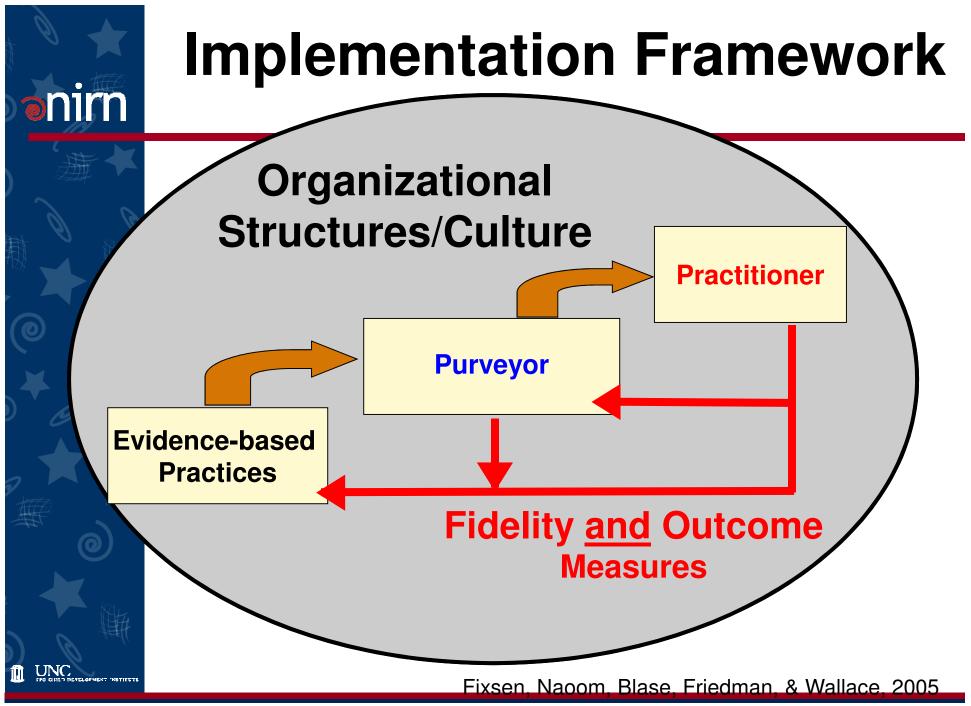
- Higher Fidelity is correlated with better outcomes across a wide range of programs and practices
 - School-Based MH Prevention Programs -PATHS
 - Children's Services FFT, MST, Wraparound, TFM
 - Adult Mental Health ACT, IDDT, Motivational Interviewing
 - Medicine DOTS, Texas Algorithm, OMAP
 - Education HiPlaces, SWPBS, STEP

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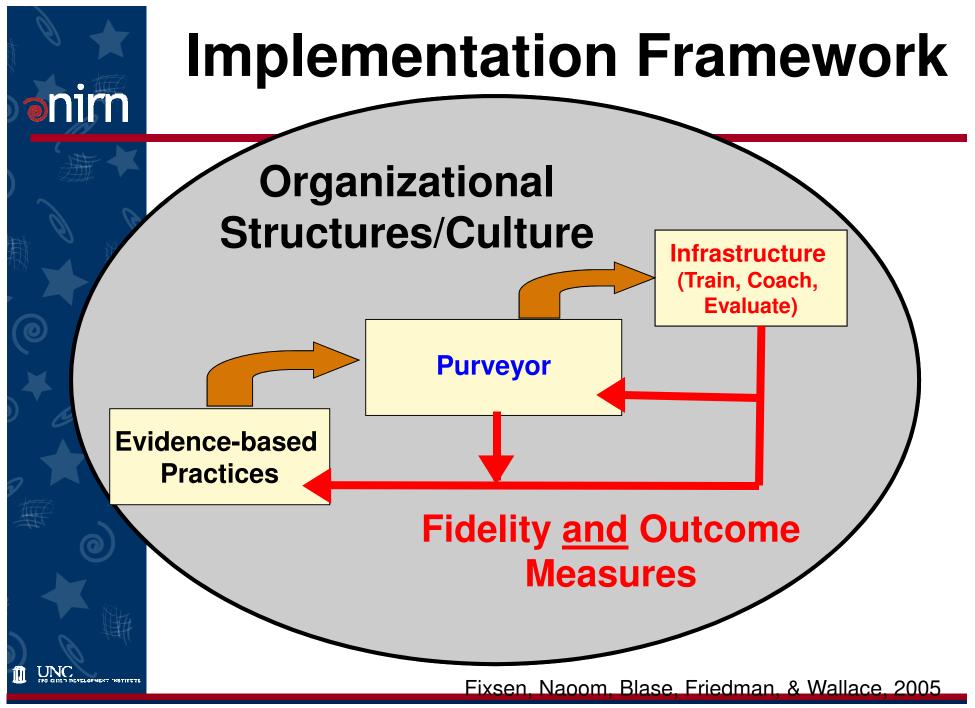
What works...

Successful implementation on a useful scale requires a purveyor

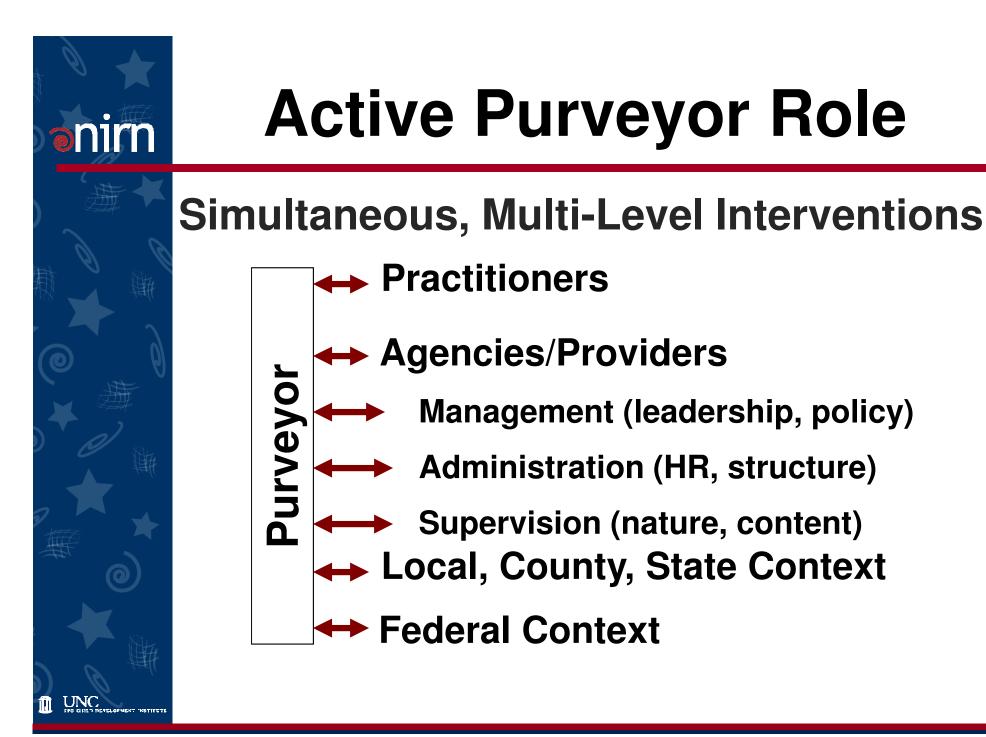
- An individual or group of individuals representing a program or practice who actively work to implement that practice or program with fidelity and good effect
- Purveyors accumulate data & experiential knowledge, & become more effective and efficient over time
- Purveyors differ in what they offer and how they help

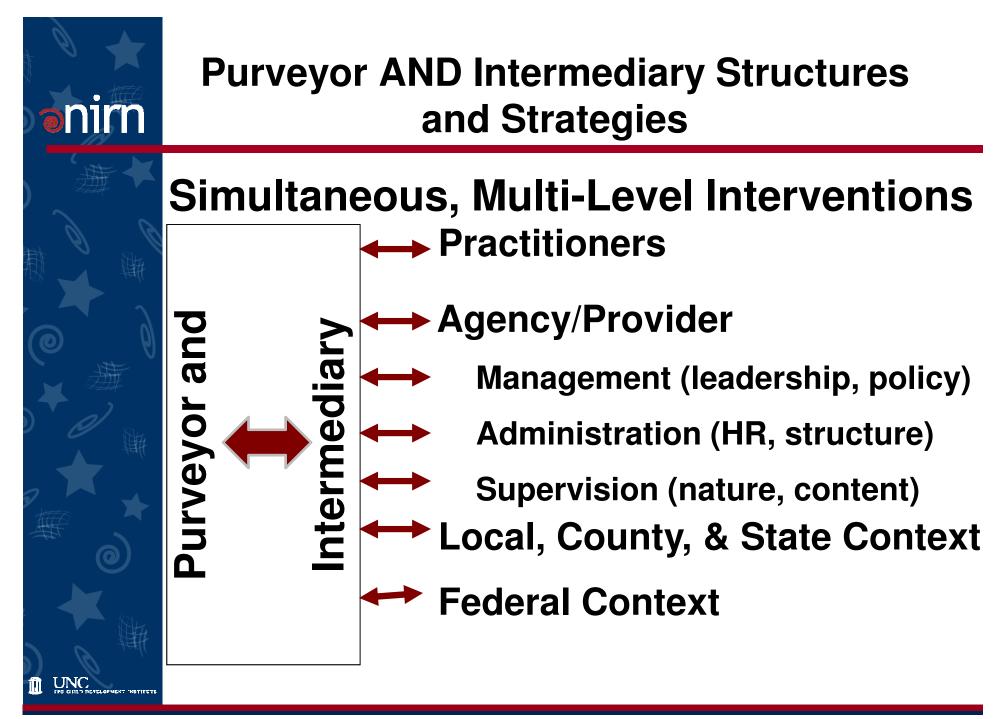


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Sustainable Infrastructure

Intermediary Organizations (IO):

A state-based or statewide infrastructure to facilitate the adoption, implementation and sustainability of a number of evidence-based programs by:

- Broadly educating
- Assessing need, stimulating interest
- Assessing the "science"
- Connecting purveyors with organizations
- Helping adopters manage risk
- Ensuring implementation and fidelity
- Accumulating knowledge
 - Building capacity
- Integrating efforts
- Managing 'scale-up shifts'
 - Assisting with alignment



Implementation Frameworks

Multi-dimensional, Fully integrated

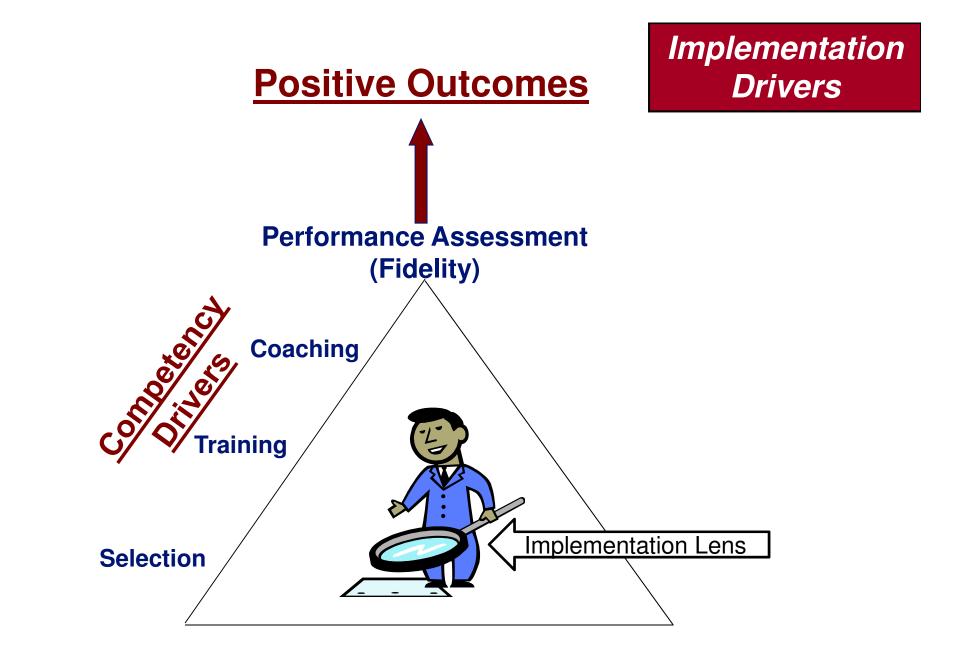
- Implementation Drivers
- Implementation Stages
- Implementation Teams
- Market Service And America Improvement Cycles

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Implementation Frameworks

Multi-dimensional, Fully integrated

- Implementation Drivers
- Implementation Stages
- **Implementation Teams**
- Market Ma



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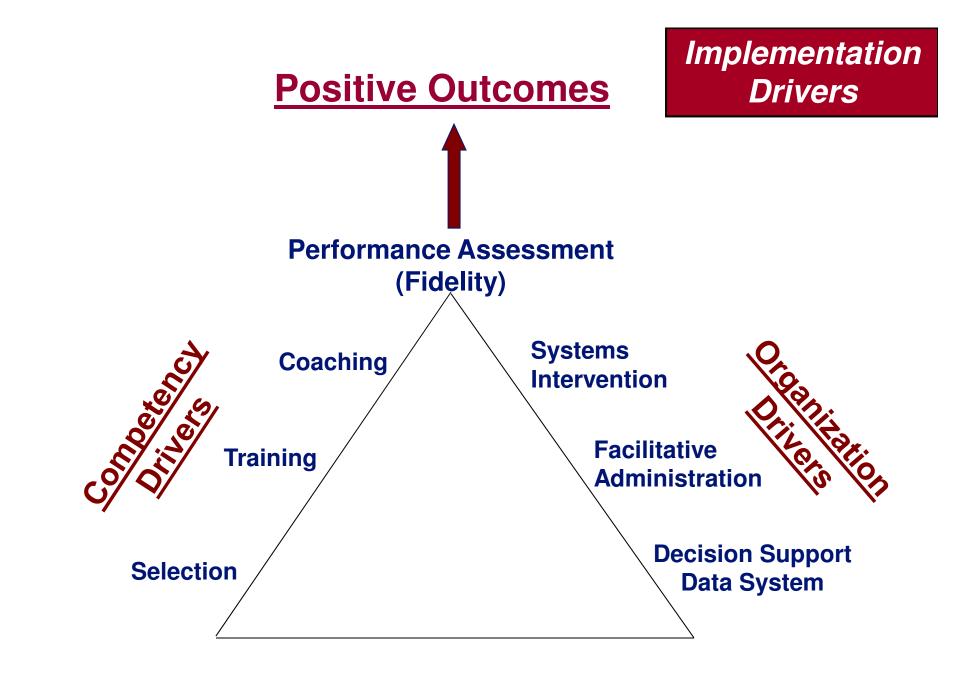
Sobering Observations

"All organizations [and systems] are designed, intentionally or unwittingly, to achieve precisely the results they get." R. Spencer Darling Business Expert

"**The tyranny of the status quo.**" Fritz Oser Educator

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System Stability

EXISTING SYSTEM



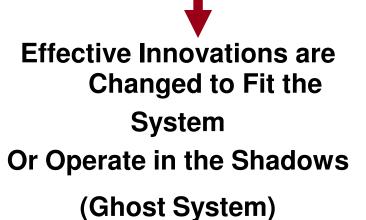
Effective Innovations are Changed to Fit the System

Or Operate in the Shadows

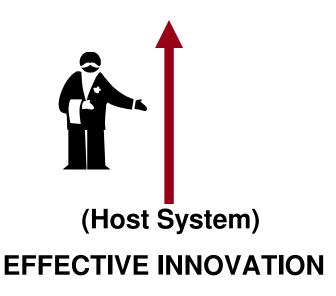
(The Ghost System)

Effective System Change

EXISTING SYSTEM

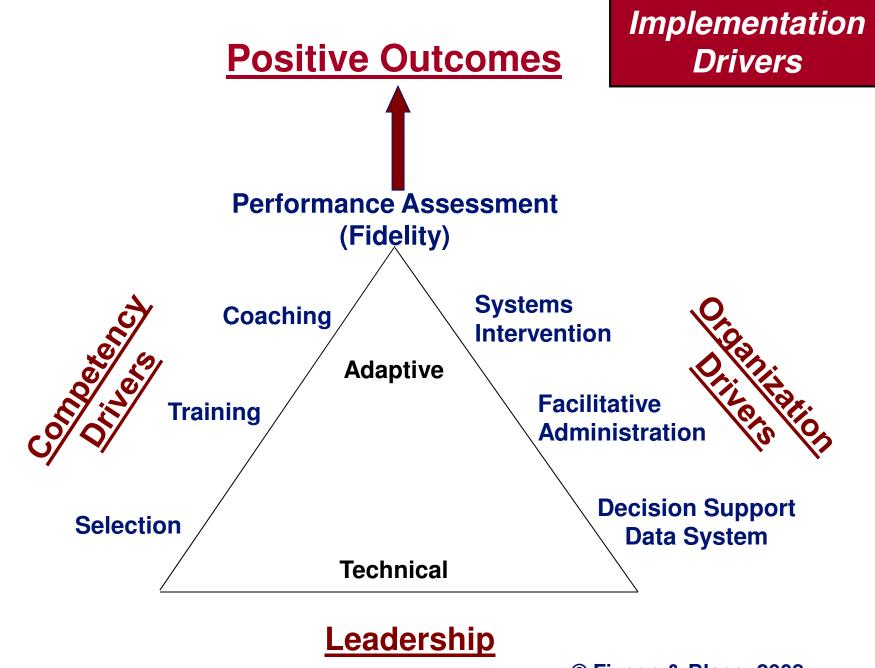


EXISTING SYSTEM IS CHANGED TO SUPPORT THE EFFECTIVENESS OF THE INNOVATION

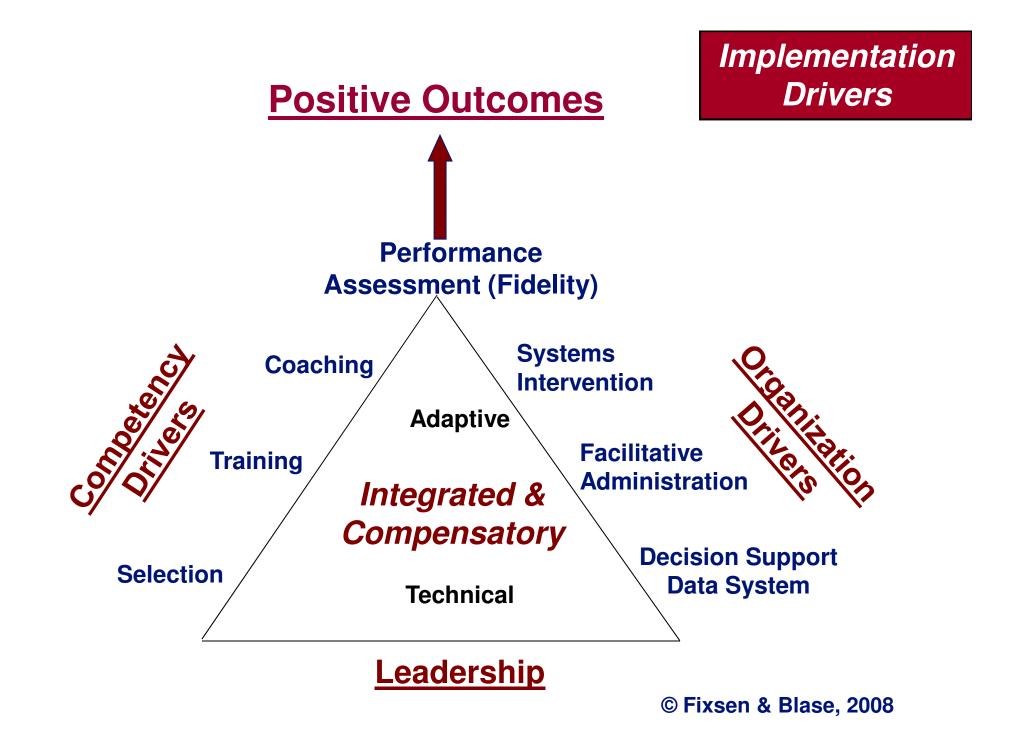


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Implementation Frameworks

Multi-dimensional, Fully integrated

Implementation Drivers

Implementation Stages

Implementation Teams

Main Improvement Cycles

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Stages of Implementation

Major Implementation Initiatives occur in stages:

- Exploration
 Installation
 Initial Implementation
 Full Implementation
 Innovation
- 📂 Sustainability

Fixsen, Naoom, Blase, Friedman, & Wallace, 2005

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Implementation Frameworks



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Multi-dimensional, Fully integrated

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Implementation Stages

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A group that <u>knows the innovation</u> very well (formal and practice knowledge)

A group that <u>knows</u> <u>implementation</u> very well (formal and practice knowledge)

A group that knows improvement cycles to make intervention and implementation methods more effective and efficient over time



Implementation Teams

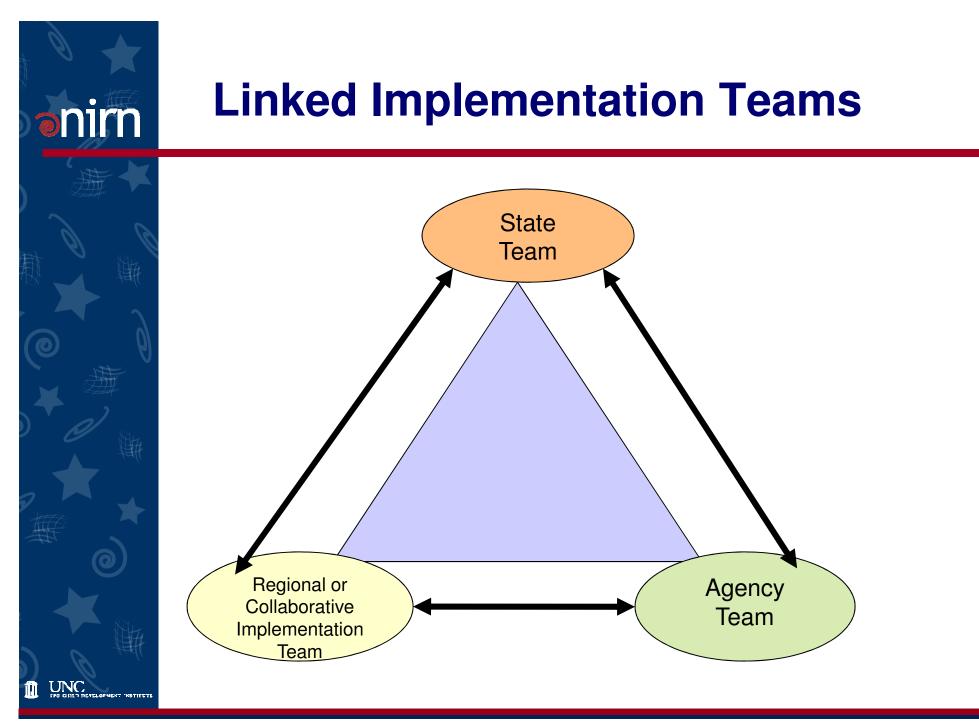
At multiple levels

Integrated and Interlocking

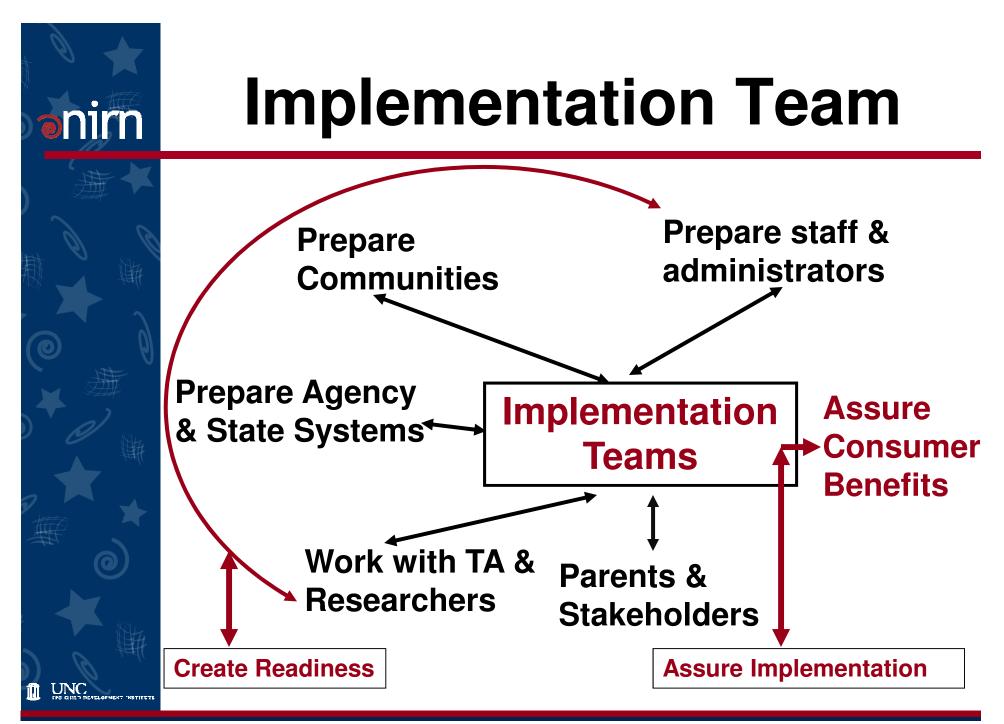
- Agency Teams
- Community Teams
- 📂 State Team

🔎 Focus is on

- Fidelity & outcomes,
- Alignment (funding and policy)
- Problem-Solving and Sustainability
- Capacity building



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Improvement Cycles

Transformation Zones Policy to Practice to Policy Cycles Rapid Cycle Teams Problem-solving Practice Improvement 🔎 Usability Testing

What Do They Have In Common?



PDSA Cycles

- Shewhart (1924); Deming (1948); Six-Sigma (1990)
 - Plan Develop specific things to do
 - Do Do them (make sure)
 - Study See what happens
 - Act Make adjustments
 - Cycle Do over and over again until the goal is reached or the problem is clear (again)



Improvement Cycle Uses

Fransformation Zones

Policy-Practice Feedback Cycles



System Change

- Demonstrations or "pilots" are a place to start for innovations ("it's possible!")
- Don't usually lead to sustainable service and system change
 - Random acts of innovation
 - Person and passion dependent
 - Can "ghost" system its way to success
 - Executed by the "extraordinary"
 - Mo replicable implementation infrastructure



Transformation Zone

A representative but manageable "service zone" to focus on

Adopting and installing the innovation

- And implementation infrastructure development
- Maintoin States And Organizational change
- Maintoing set the set of the set

Current Systems/Process

Transition Systems/Process Vision of Future Systems/Process

Transformation Zone

Install Innovations

•Develop Implementation Infrastructure

Change System

Transformation Zone

- A "vertical slice" of the service system (from the front-line to the Capitol)
 - The "slice" is small enough to be manageable
 - The "slice" is large enough to include all aspects of the system (providers, partners, service system, urban, rural, frontier, diverse communities)
 - The "slice" is large enough to "disturb the system" – a "ghost" system won't work.



Transformation Zone

Transformation Zones provide opportunities to...

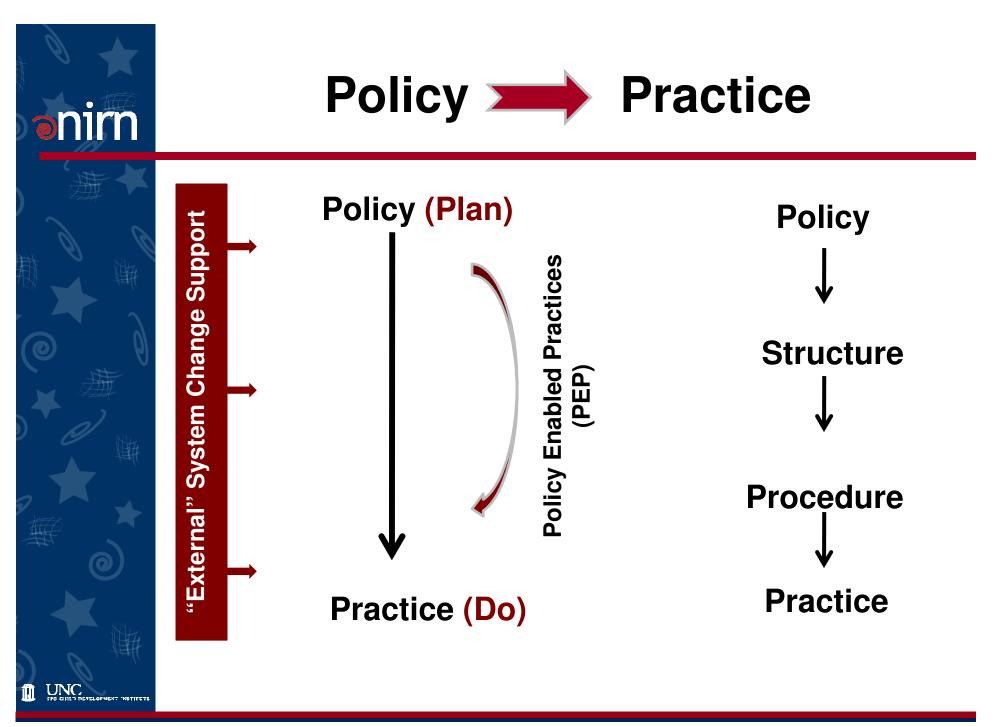
- Manage the risks (most innovations don't work at first) and experience intended and unintended outcomes
- Limit the damage (quick detection, recovery, repair)
- Document "what works"
- Consider the implications of scaling-up

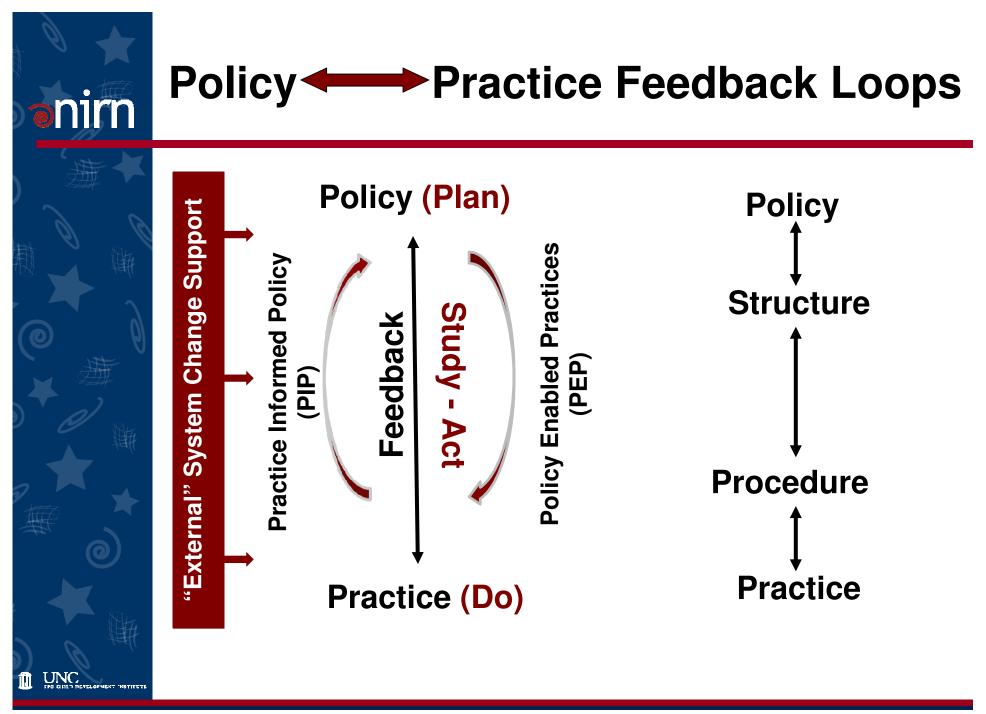


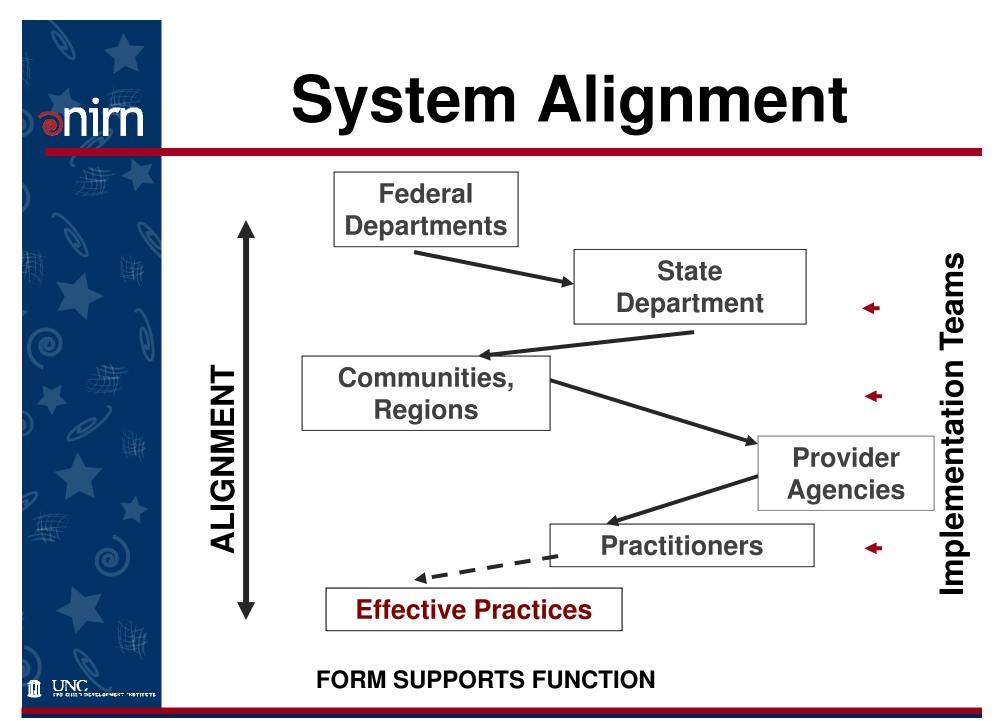
Improvement Cycle Uses

Transformation Zones

Policy-Practice Feedback Cycles







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Implementation Frameworks



Multi-dimensional, Fully integrated

Implementation Drivers
Implementation Stages
Implementation Teams

Scalability

- Mhat do we mean by "going to scale"
- NIRN definition: An evidence-based intervention that reaches 60% of the population that could benefit

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Implementation and Scale -Up

- First we implement successfully then we scale-upsuccessful scale-up requires attention to the science and practice of implementation
- Need to start with "demonstrations" but within a plan to scale-up

Requires change at the

- Practice Level (Front Line Staff)
- Organization Level (Supervisor, Agency Administrators, Collaborative Groups)
- System Level (Funders, Government, Regulatory Bodies)

...Can we go to scale?

EBPs now are "boutique" operations

- Now have convincing demonstrations that EBPs can be implemented in the real world
- Wonderful! But they need to be used and sustained on a <u>scale</u> sufficient to <u>solve</u> <u>social problems</u>
- Current estimates of some "best" usage data = 10% of the population who could benefit



Scalability Challenges



- It's a long and winding road
- The infrastructure costs to build the road are not understood or accepted
- Requires *aligned* changes at many levels
- We aren't always good at recognizing when it's time for a "scale-up shift"
- Each "link" in the scale-up chain requires resources, rigor, and research



What Will It Take to Give Us A Sporting Chance!



- Science Related to....
 - Interventions and Programs
 - Implementation, Organization and Systems Change
- Funded Infrastructure (Drivers)
- Informed Communities
- Skillful Purveyors & Intermediaries
- Competent Providers
- Supportive Organizations
- Hospitable & Aligned Systems
- Leadership at All Levels

Implementation Science

Global Implementation Conference 2011

www.implementationconference.org

Integrate the science, practice, policy of implementation, organization change, and system transformation

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www.scalingup.org <u>http://nirn.fpg.unc.edu/</u> <u>http://www.fpg.unc.edu/~nirn/resources/publications/Monograph/</u>

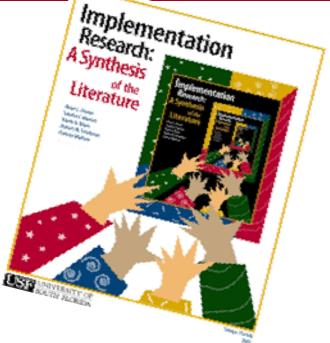
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For More Information

Implementation Research: A Synthesis of the Literature



Fixsen, D. L., Naoom, S. F., Blase, K. A., Friedman, R. M. & Wallace, F. (2005). *Implementation Research: A Synthesis of the Literature.* Tampa, FL: University of South Florida, Louis de la Parte Florida Mental Health Institute, The National Implementation Research Network (FMHI Publication #231).

Download all or part of the monograph at:

http://www.fpg.unc.edu/~nirn/resources/detail.cfm?resourceID=31

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