

# How Does NIA Tx Fit into the NIDA Research Program?

**Wilson M. Compton, M.D., M.P.E.**

**Director, Division of Epidemiology, Services and Prevention Research**

**National Institute on Drug Abuse**

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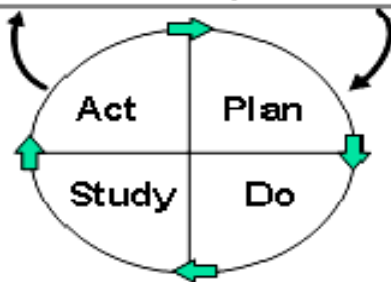
San Antonio, Texas



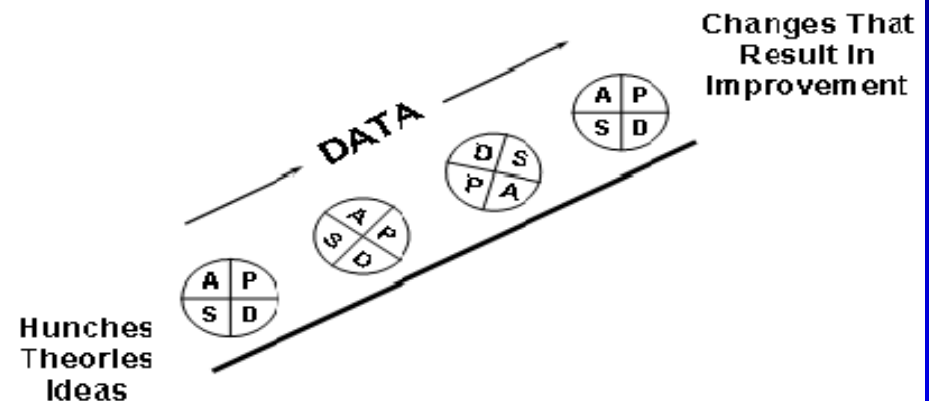
# NIATx Process Improvement Model

## Model for Improvement

1. What are we trying to accomplish?
2. How will we know that a change is an improvement?
3. What changes can we test that will result in an improvement?



## Repeated Use of Cycle



# NIATx & STAR

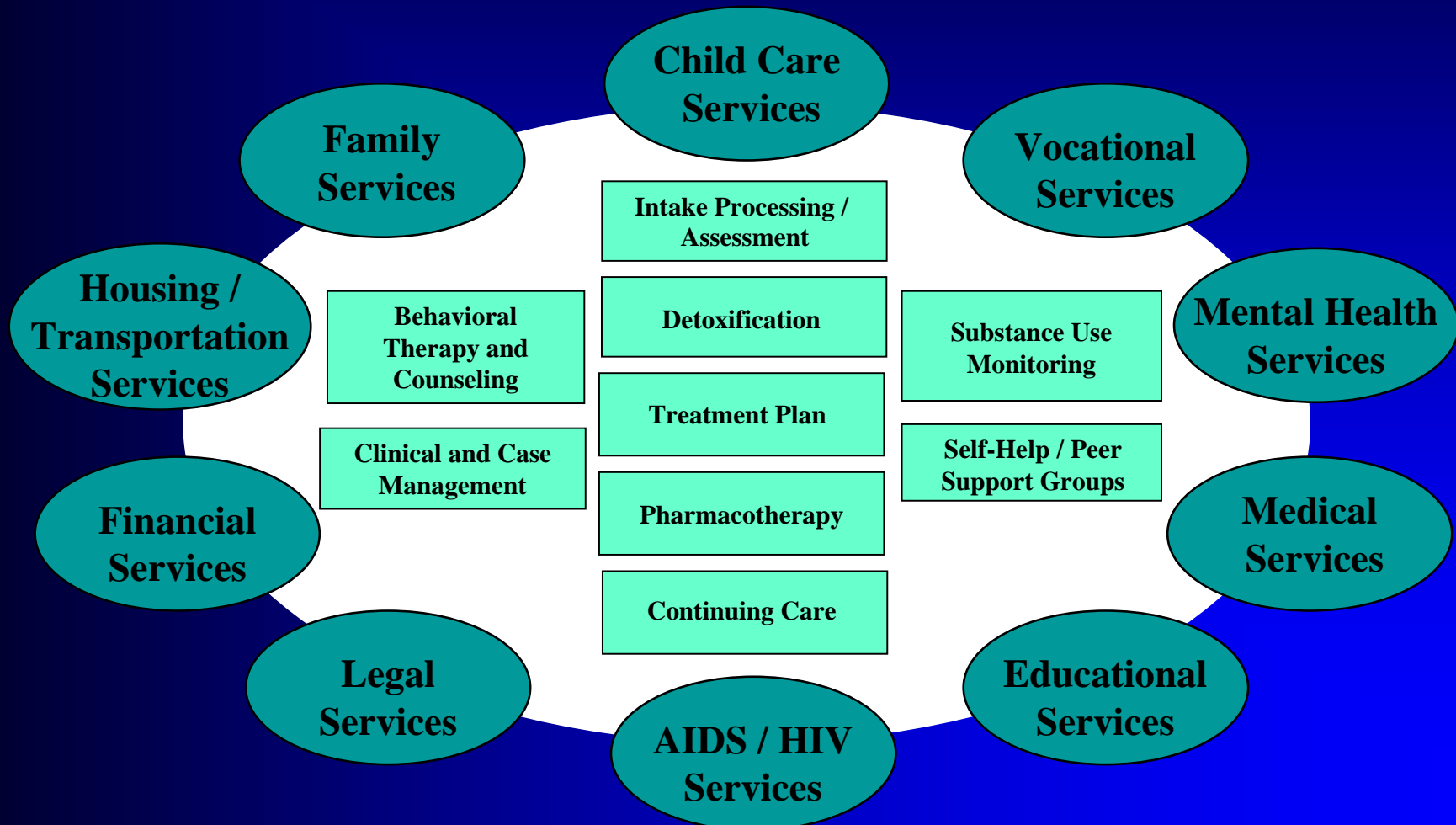
- Goal: adopting data-driven process improvement as a public health business practice to increase access and retention in care.
- 23 agencies using *Plan, Do, Study, Act* change cycle.
- First 15 months data showed 37% reduction in waiting days; 18% improvement in retention; 17% increase in treatment completion.

# **In which research program does NIATx fit?**

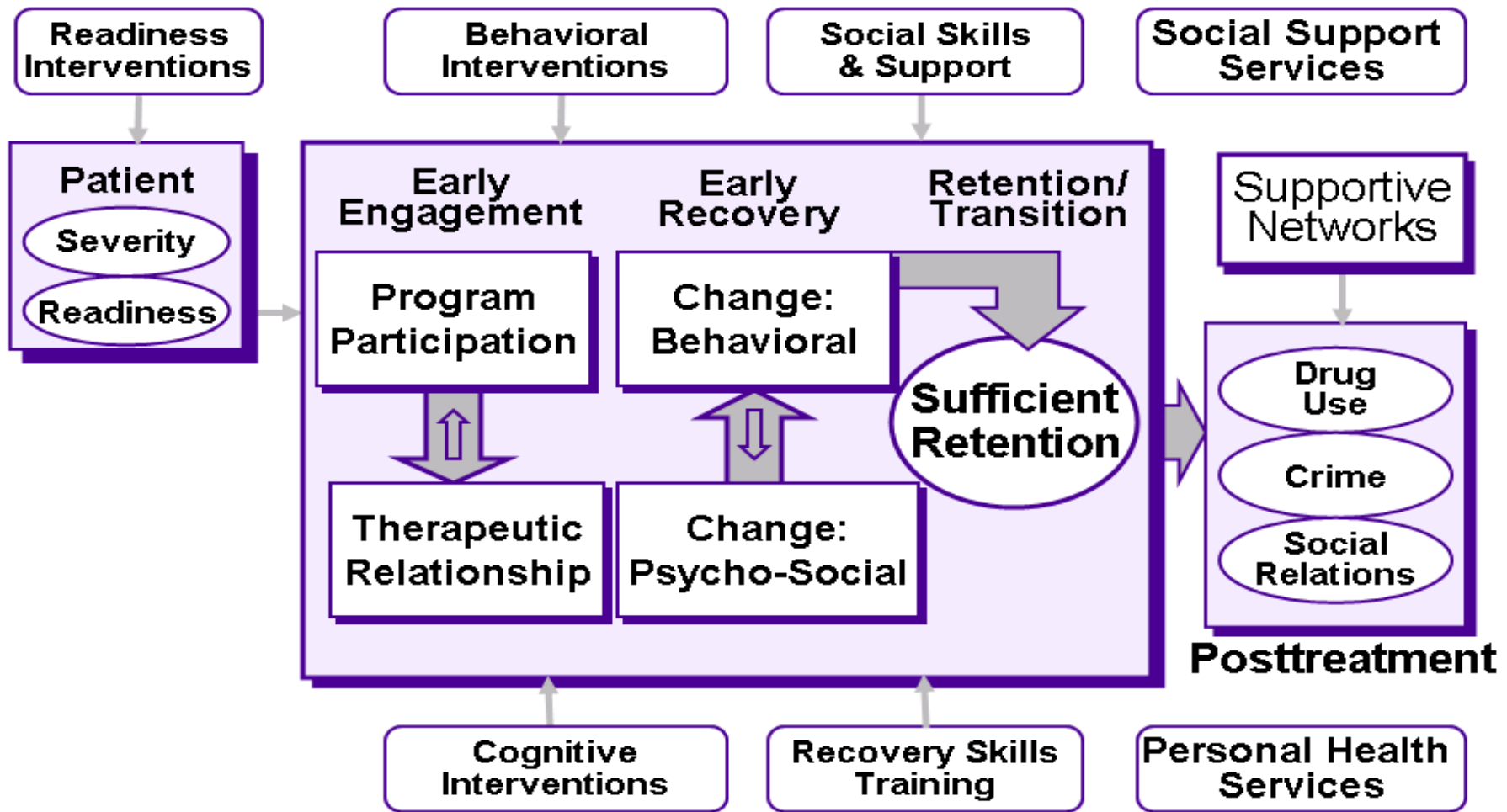
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- **Treatment Effectiveness Research?**

# Multiple Components Are Key to Key to Drug Treatment Effectiveness



# TCU Treatment Model



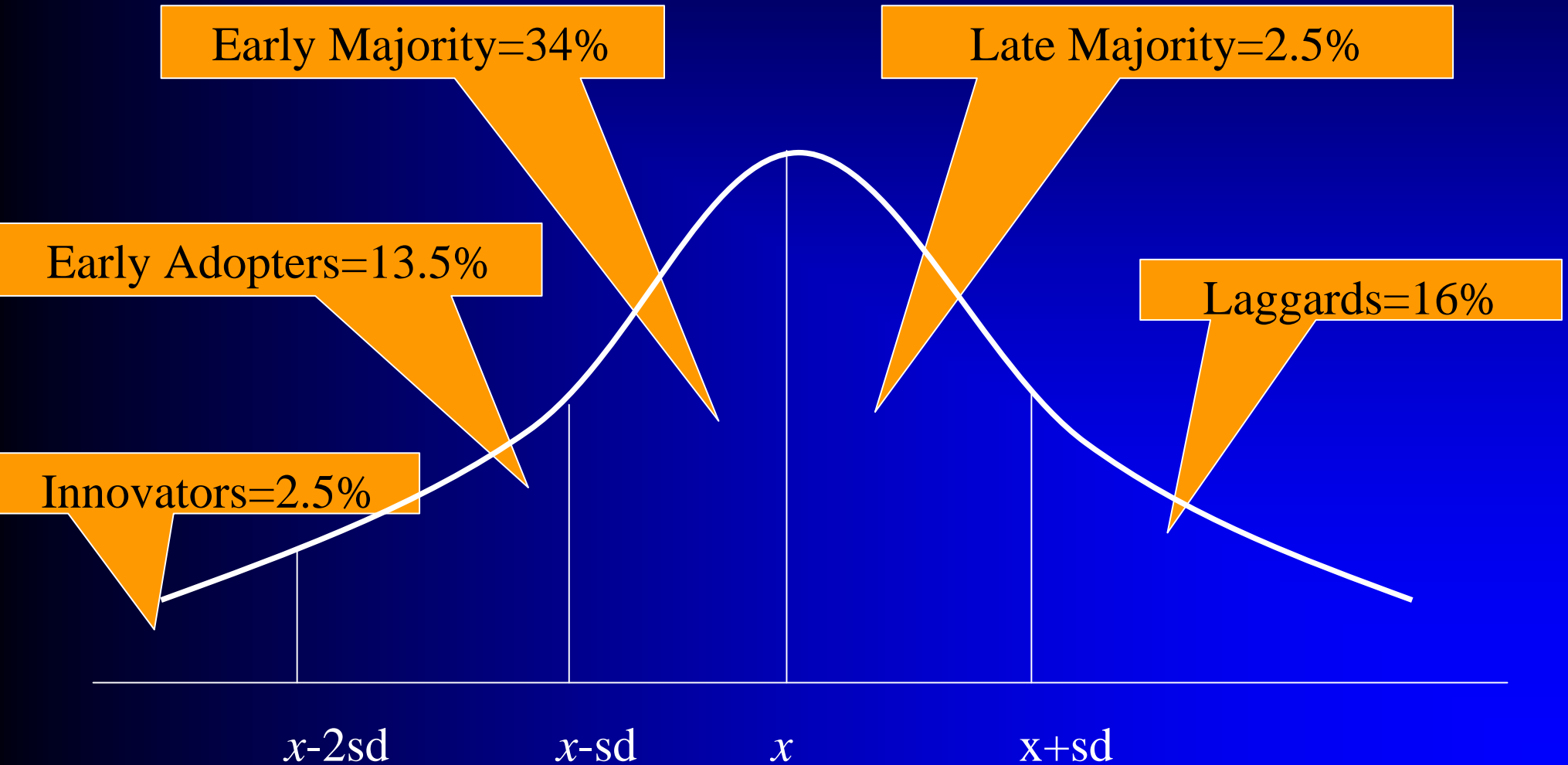
Simpson (2004). *Journal of Substance Abuse Treatment*. 27; 99-121.

# In which research program does NIATx fit?

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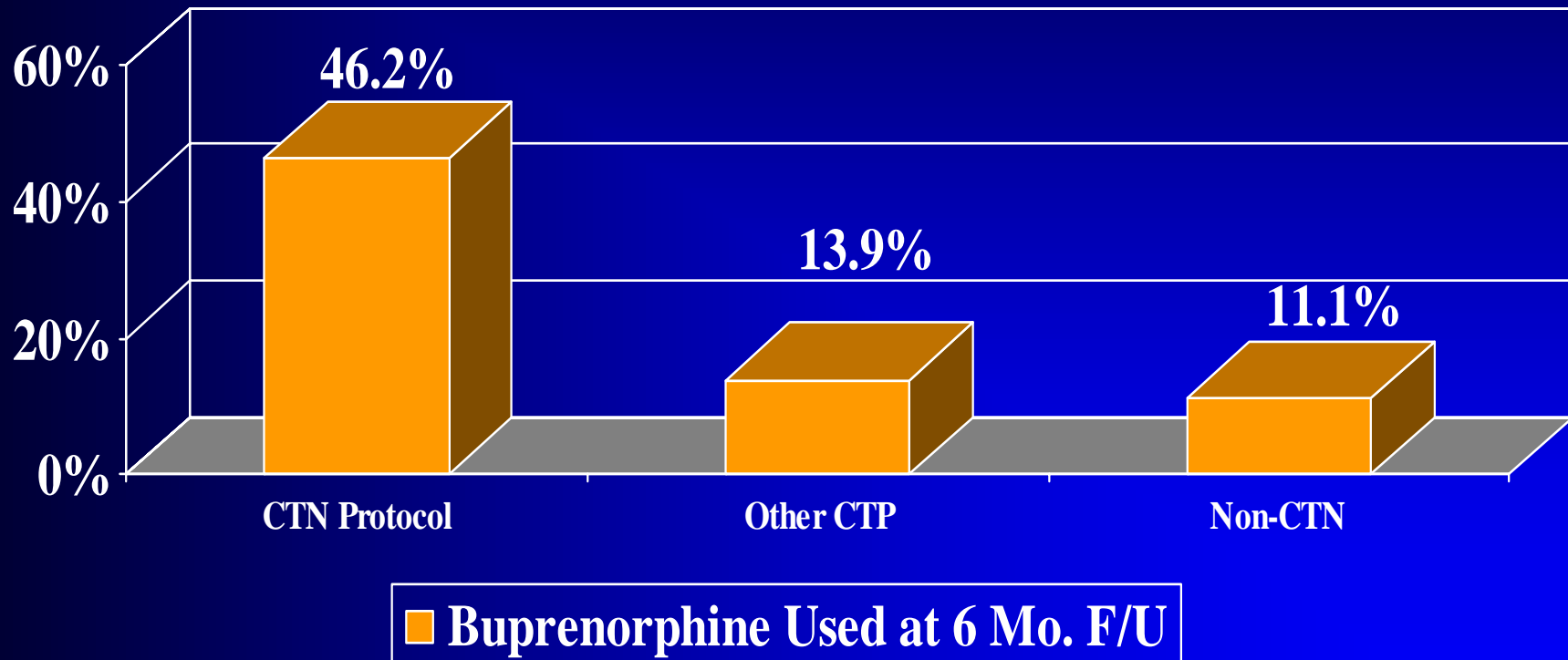
- Treatment Effectiveness Research?
- Diffusion of Innovation?

# Rogers' Diffusion Theory: *Adoption as a Process*





# Trialability: CTN Exposure Appears to Increase Use of Medications (N=871)



# Key Elements for Diffusion of an Innovation

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- Relative advantage
- Compatibility
- Complexity
- Trialability
- Observability

Rogers (2005)

# In which research program does NIATx fit?

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- Treatment Effectiveness Research?
- Diffusion of Innovation?
- **Type 2 Translation/Implementation?**

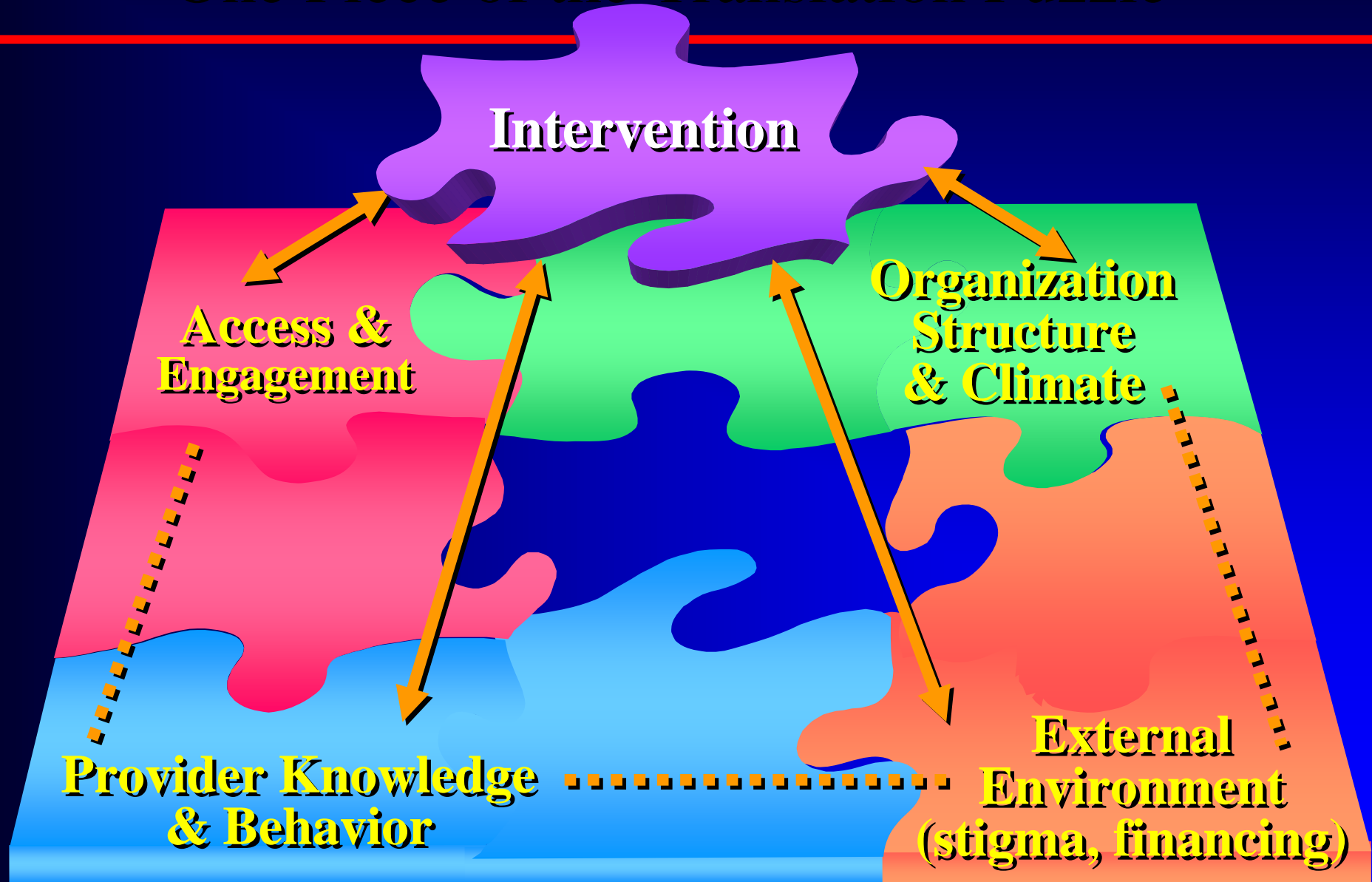
# Translational Research is NOT Unidirectional: There are *Feedback Loops*



Type 1

Type 2

# Developing an Evidence-Based-Practice is Only One Piece of the Translation Puzzle



# Successful Implementation of EBPs

**Effective  
Intervention  
Practices**

+

**Effective  
Implementation  
Strategies**

=

**Adoption  
of EBPs**



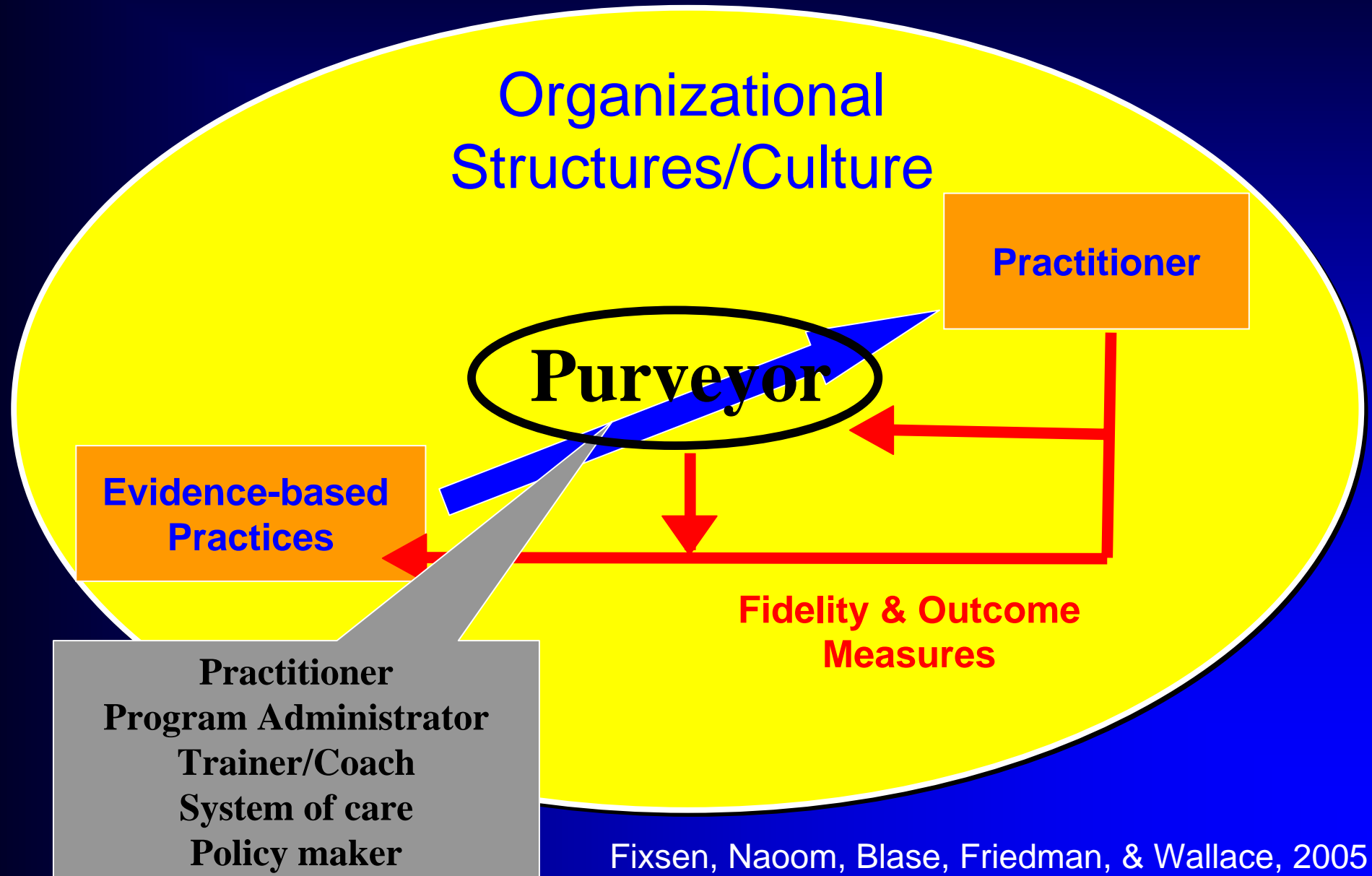
**Enhanced  
Patient  
Outcomes**



Fixsen, Naoom, Blasé et al. 2005

<http://nirn.fmhi.usf.edu>

# Implementation Framework



# In which research program does NIATx fit?

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- Treatment Effectiveness Research?
- Diffusion of Innovation?
- Type 2 Translation/Implementation?
- ???



# Improving the *Business* of Addiction Treatment

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“... the time appears to be right for serious research on the structure and dynamics of the industry aimed at improving its efficiency and, ultimately, its effectiveness.”

A. Thomas McLellan (2006).  
*Editor, Journal of Substance Abuse  
Treatment.*

# Washington Circle Performance Measures

Domain	Measure
Prevention/Education	Educating patient about AOD disorders
Recognition	* <u>Identification rates</u>
Treatment	* <u>Initiation of AOD plan services</u> Linkage of detox and services * <u>Treatment engagement</u> Interventions for family/significant others
Maintenance	Maintenance of treatment effects

# Changing Public Health Business Practices Means Changing Organizational Culture

Culture: Commonly-held attitudes, beliefs, and practices of incumbents.\*

- Perceived common sense/the tried & true way we do things
- Socially reinforced (Resistant to change; but once changed is durable).

**Process improvement provides tools to  
keep the culture from stagnating.**

*E. H. Schein (1991). What is Culture? In Frost, et. Al (Eds). Reframing organizational culture; Sage*

# Priority Areas for NIDA

- Prevention Research
  - Children and Adolescents
  - Genetics
  - Comorbidity
  - Development

- Treatment Interventions  
(New Targets & New Strategies)

- HIV/AIDS Research

**DRUG ABUSE**

**HIV/AIDS**



# Division of Epidemiology, Services and Prevention Research (DESPR) Organization and Mission

EPIDEMIOLOGY RESEARCH BRANCH

DESPR seeks to improve the nation's public health by promoting integrated approaches to understand and address interactions between individuals and environments that contribute to the continuum of problems related to drug use.

*Our goal is to develop scientific knowledge with clear application to practice and public policy.*

PREVENTION RESEARCH BRANCH

SERVICES RESEARCH BRANCH

# DESPR: Major Research Questions

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1. What new theoretical approaches can inform our research?
2. What intrapersonal and environmental factors interact with each other and with genetic factors across development?
3. How can we blend science and services to measurably impact public health outcomes?

# **New Research Program at NIDA: Improvement Strategies for Addiction Tx (NIATx study)**

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*Grant:* DA020832, \$7.5million over 5 years

*Principal Investigator:* David Gustafson

*Primary Question:* How much support is needed to implement NIATx effectively?

# **New Research Program at NIDA: Improvement Strategies for Addiction Tx (NIATx study)**

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*Design:* Approximately 200 agencies in 5 States randomized to different levels of support (materials alone, web-based interest circles, coaching calls and visits, etc.)

*Outcomes:* Treatment no-show rates, ongoing retention in treatment, sustainability of effects, employee turnover



**Summary: NIATx is a new paradigm for improving clinical care.**

**NIATx fits into treatment services research as part of a growing emphasis on organization and management research by testing and adopting public health business models within drug treatment.**

Improvement of Addiction Treatment

# Division of Epidemiology, Services and Prevention Research



*Creating Extraordinary Public Health  
Drug Abuse Research*