



ATTC Addition Technology Transfer Center Network
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Why is Implementation of Evidence-based Practices So Challenging?

Highlighting the Technology Transfer Model

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Focus of Presentation

- Participants thoughts on Implementation
- What is Technology Transfer?
 - A Brief History of the Field
 - The ATTC Technology Transfer Conceptual Model
- Using the ATTC Model
 - Example: Motivational Interviewing
- What causes implementation or technology transfer to fail?
- Strategies, Tips and ATTC Network Resources





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What is technology transfer?



A Brief History of the Field

The story of technology transfer starts with **diffusion of innovations** work in agriculture in the 1930s.

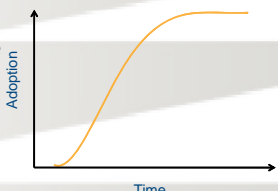
- Ryan and Gross at Iowa State University studied the diffusion or use of **hybrid seed corn** throughout rural Iowa.
- It took **12 years to diffuse**, even though it increased yields by 20% and was hardier to drought.
- They found that the hybrid corn **diffused more quickly** to farmers who had larger farms, higher income, more education, and made more trips to Des Moines.

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A Brief History of the Field

Everett M. Rogers - *Diffusion of Innovations*

- First published, 1962; 5th edition 2003
- Popularized adoption curve
- Focused on diffusion up to decision to adopt
- Identified attributes of innovation that affected adoption

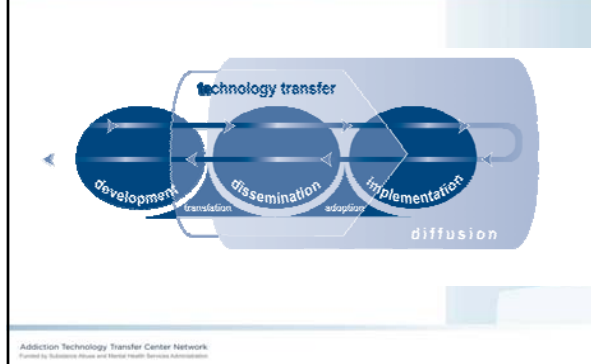


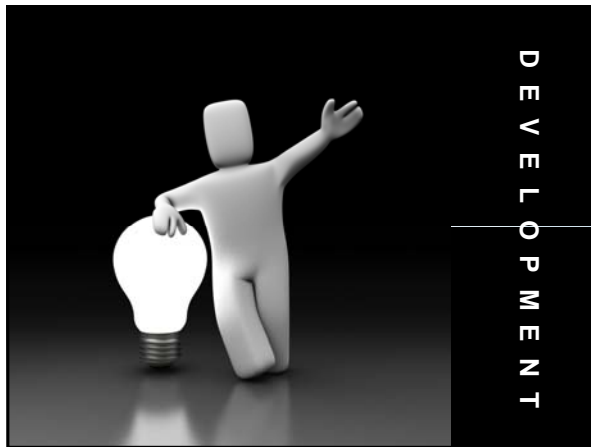
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Where are we now?

- numerous terms with conflicting definitions
- multiple, overlapping models
- popular interest books
- 2003 ~ over 5,000 publications on innovations
- evolving concept of "innovation"

ATTC Network Model of Technology Transfer in the Innovation Process



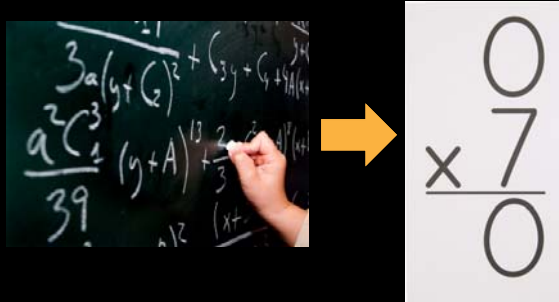


Development

Creating and initially evaluating an innovation.

*An innovation can be an idea, technology, treatment or method, including evidence-based practices. The innovations in our field are evidence-based practices such as psychosocial treatments and medications for substance use disorders.

TRANSLATION



Translation



Explaining the essential elements and relevance of an innovation, then packaging it to facilitate dissemination.

*Examples include lay-language newsletters or articles describing the innovation or training curricula.

DISSEMINATION



Dissemination



Promoting awareness of an innovation with the goal of encouraging adoption and implementation. Dissemination strategies include raising awareness, building knowledge, and distributing materials.



ADOPTION

Adoption



The process of deciding whether to use an innovation. Adoption may or may not lead to implementation.



Implementation

Incorporating an innovation into routine practice. Implementation ideally includes a range of strategies designed to address individual, organizational, and systemic characteristics (e.g., skills training, administrative buy-in, and policy changes).

4 Things About Implementation that You Didn't Learn in School

- 1. Dissemination is not implementation*
- 2. Successful implementation of complex clinical practice takes 2-4 years*
- 3. Training alone is never enough*
- 4. Fidelity to evidence-based practices affects client outcomes*



Diffusion

The planned or spontaneous spread of an innovation.

* Diffusion is an overarching process that picks up after an innovation has been developed.



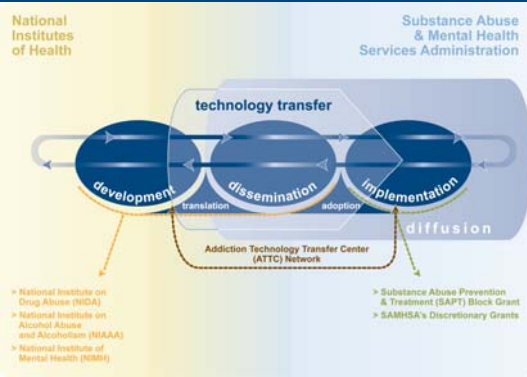
Technology Transfer



A multidimensional process that intentionally promotes the use of an innovation.

- Begins during the development of an innovation, continues through its dissemination, and extends into its early implementation.
- Requires multiple stakeholders and resources, and involves activities related to the translation and adoption of an innovation.
- Accelerates the diffusion of an innovation.

Where does the ATTC Network fit in the model?



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INFORMATION

WHAT TO DO WITH IT

Technology Transfer:

What does it really do and why should we care?

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So What?

The ATTC Technology Transfer Model Promotes:

- Standardized language
- Contextualized process
 - Helps partners to better understand and prepare for a multi-tiered **process** of change
- High fidelity change
- Greater satisfaction with the process
- Focused purchasing power
 - Helps ATTC staff to plan activities with SSAs and other stakeholders





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So What?

- Technology transfer promotes high fidelity change:
 - A study of clients with co-occurring disorders who received Assertive Community Treatment (ACT) shows that those treated by ACT teams implemented with high fidelity to the original model have much better treatment outcomes.

	High Fidelity ACT team	Low Fidelity ACT team
Treatment Drop-outs	15%	30%
Substance Use in Remission	55%	13%
Hospital Admissions	2.87	4.69

McHugo, 1999



Actions that Accelerate Technology Transfer

development → transition → dissemination → adoption → implementation

States and Systems

Suggested actions for States and Systems


- Provide ongoing information about current practices within the addiction field that can be used to inform which practices should be implemented, or to be used as a point of comparison for testing new clinical practices.
- Encourage organizations, practitioners and providers to share information and best practices to foster innovation and practice the use of evidence-based addiction services.
- Have a current and thorough understanding of the implementation of the interventions that are utilized and being advanced.


<ul style="list-style-type: none"> • The focused use of systematic approach to monitor practice evidence and developmental progress of practitioners and providers, and other agencies, as appropriate. • Increase knowledge and effective implementation strategies. • Encourage state practitioners with programs or practice evidence based practices to continue. 	<ul style="list-style-type: none"> • Review practice and other information that helps understand to adopt new practices. • Identify and connect relevant resources that can help in using evidence-based practices. • Create learning community cultures, or skills, regular and cross teams. • Support providers, either in person or by providing funds, resources and the best practices who need to adopt new practices. 	<ul style="list-style-type: none"> • For state committed providers, set local centers or to provide reinforcement for clinical supervision service teams. • Offer financial incentives for state committed providers use of evidence-based practices, or support a similar reinforcement for community with the best of work to help to implement new interventions. • Train the utilization of specific practice among service providers. • Provide cross state settings on EBP or practice. • Assist providers with implementation and facility changes for testing state evidence based practices.
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> The ATTC Matrix shows suggested actions that different groups can take to encourage the use of innovations.

> This sample page shows actions that states and systems can take to foster use of innovations at different points in the model.

So What? The Matrix





**Innovation Example:
Motivational Interviewing**

This example shows how the ATTC Network's work fits into the process of developing, disseminating, and implementing an evidence-based practice (treatment innovation).



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Development

Development of Motivational Interviewing (MI)

- MI is an evidence-based counseling practice developed by William Miller and Stephen Rollnick (1991)
- Research shows that MI has a positive effect on retention in care (Carroll et al., 2006)*

Carroll, K. M., ET.al., (2006). Motivational interviewing to improve treatment engagement and outcome in individuals seeking treatment for substance abuse: A multisite effectiveness study., *Drug and Alcohol Dependence*, 81, 301-312

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Translation

Examples of how the ATTC has **translated** MI

- ATTC Network, in conjunction with the NIDA Clinical Trials Network, develop the Motivational Interviewing Assessment: Supervisory Tools for Enhancing Proficiency product (MIA:STEP)
- Develop newsletters or articles that provide information about MI and the benefits of its use


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 **ATTC** Addiction Technology Transfer Center Networks
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Examples of how the ATTC has **disseminated** MI


- ATTC Regional Centers conduct awareness and/or skill-building trainings with clinical staff around MI
 - From 2006 to 2010 there were a total of 538 events relating to MIA:STEP Blending Product
 - ✓ **538 Pre-MIA:STEP, motivational interviewing events**





 **ATTC** Addiction Technology Transfer Center Networks
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During the **adoption** process, the ATTC Network supports organizations to make sure they have the information necessary to “try on” MI so that they can authentically decide whether or not to implement the innovation.





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Examples of how the ATTC supports **early implementation** of Motivational Interviewing


- ATTC Regional Centers can provide:
 - Training on the MIA:STEP product with clinical supervisors to sustain the use of MI in clinical settings
 - Ongoing technical assistance to program administrators around implementation
 - Periodic coaching sessions with clinical staff to enhance and refresh their MI skills




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Implementation

Technology Transfer



Later implementation of MI

- Full implementation is beyond the scope of Technology Transfer.
- Once the ATTC Regional Center is no longer in the picture, it is up to the organization to ensure long term sustainability and fidelity to achieve full implementation.




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So, why does innovation and diffusion of technology fail?

- “Expert Authority”
- Ignoring the psychological fact of resistance
- Denial of organizational psychodynamics of change
- Ignoring the culture of the organization’s Receptiveness & Resistance
- The concept of “organizational resilience”

Innovation and Diffusion of Technology: A Human Process
 Michael A Diamond-University of Missouri




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Strategies & Tips




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Design a *Transitional Space*

- An environment where organizational members can work through their feelings and thoughts
- Involve employees in the designing (framing and naming)
- Employees participate in selection of and reasoning behind the idea

Source: *Innovation and Diffusion of Technology: A Human Process*, Michael A. Diamond






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Bottom-up Adoption

- Foster staff commitment
- Cascading Impact of positive leadership
- Climate setting


Innovation adoption as facilitated by a change-oriented workplace
 Becan J.E., Knight D.K., Flynn P.M.
 Texas Christian University
 JSAT: 2012, 42, p.179-190





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Conduct Readiness Assessment


- How did you arrive at decision
- Study previous attempts at implementing a new practice at your organization
- Perceived interest level among all staff
- What currently exists to support the new practice
- What resources are needed to implement
- How will you measure success




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Disseminating the Model

- Interactive section of the ATTC Network
Website: ATTCnetwork.org/technologytransfer
- Matrix of actions that accelerate technology transfer
- Academic journal article
- *The Bridge* article
- Network resources
- Visit www.attcnetwork.org





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Thank You!




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Questions & Answers





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Archive & Handouts

Great Lakes Local Region ID: Search the Network: 300

2013 Behavioral Health Webinar Series Calendar
 January–October 2013
 12:00pm–1:00pm Central Time

A monthly webinar series on research-based integrated health care topics. Current and timely subjects of interest are presented by nationally recognized speakers addressing current issues. State-of-the-art, evidence-based information from the foremost experts in the country is presented on the 4th Wednesday of the month for 60-minutes.

Disclaimer: Funding support for the Behavioral Health Webinar Series is provided by the Wisconsin Department of Health Services, Bureau of Prevention. Treatments, and the are not for

Who should attend: welcome to attend!

Are CEUs available: instructions on how to request CEUs will follow ATTC in a future

How much does the Where's the webinar: the months of November

In 72 hours, the archive recording, PowerPoint, and recommended resources will be uploaded to our Behavioral Health Webinar Series webpage.

You can find it on our homepage at:
www.attcnetwork.org/greatlakes

REMINDER: Evaluations, CEUs & Archived Session

1 hour after the session, an automatic email from *GoToWebinar* will be sent to you with our evaluation link. We appreciate your feedback to help improve your webinar experience.

If you are requesting CEUs - we are offering 1.0 NAADAC CEU. Please complete the SAME evaluation and you will be directed to the CEU request form. Please allow 7-10 business days.

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Next Webinar – June 26, 2013

Juvenile Justice and AODA recovery

Phillip Barbour
TASC, Inc.

Visit our homepage to register at
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