



Everything!!



"Because, Students Cannot Benefit from Interventions They do not Receive!"

Implementation Research:
A Synthesis of the Literature



Implementation Types

- Paper Implementation Paper Plan for EBP
 - 80-90% people dependent IVs end here (Rogers, 2002)
- Process Implementation Train to EBP
 - Workshops, conferences....
- Performance Implementation Demonstrate EBP
 - Implemented with fidelity and to good effect





What We Know!

"Knowing-Doing Gap!"

What We Do!



Closing the Gap

In 2011, The U.S. Department of Education reported that 7.8% of prevention programs were found to be evidence-based (i.e., verified by HQ research).

Less than half (44.3%) of prevention programs met fidelity standards (i.e., implemented as intended).

In total, 3.5% of prevention programs were both evidence-based and met minimal fidelity standards (Crosse, et al., 2011).

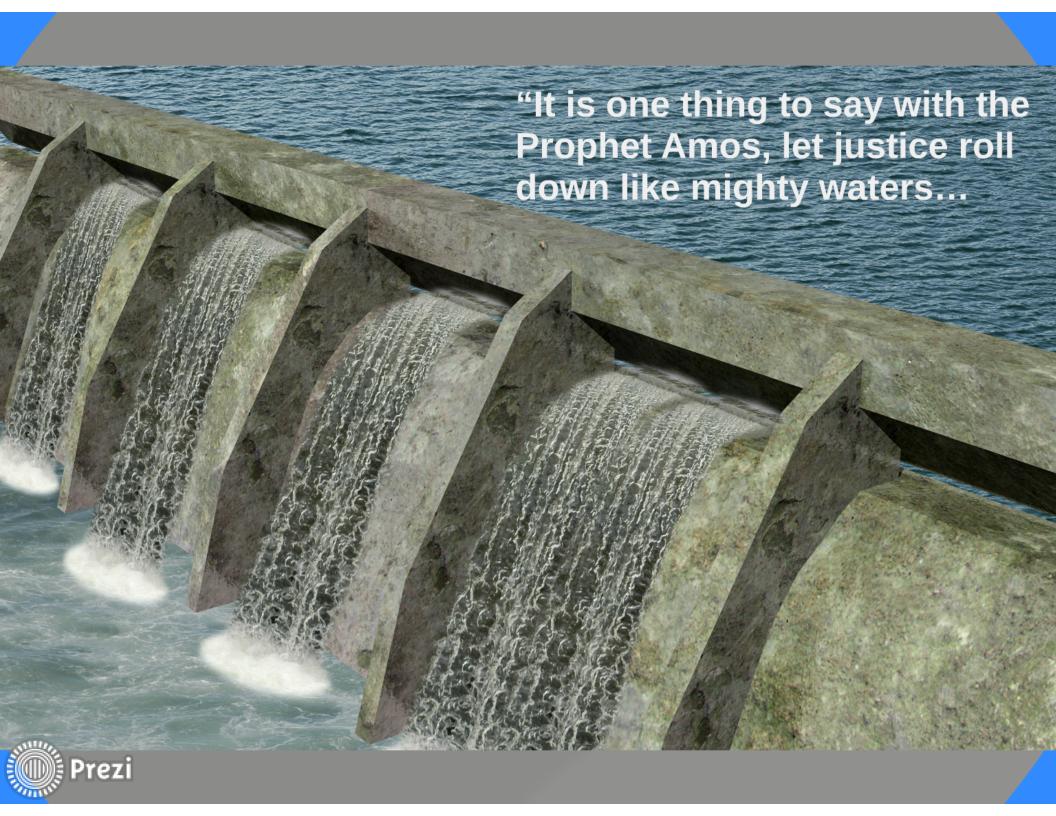


Closing the Gap

Strong interest in seeing a "good return" on the investment in identifying evidence-based practices, and moving beyond "paper implementation," or policy changes, to "performance implementation."

Need for verifiable changes in practice that result in improved student performance and outcomes.







Passion + Knowledge + Skills + Execution



Implementation Problems

"I have concluded that most educational reform takes place in our literature, and on the pages of Education Week, not in schools and classrooms...lt seemed to me that all of this talk about waves and waves of reforms really refers to the trends in the reform literature, not changes that are really taking place in real schools. Of course, that is true of waves. They tend to be highly visible at the surface, but do not affect what's going on down in the lower depths."

- Cooley (1997) -



These trainings are presented jointly by the Utah State Office of Education (USOE), the Utah Professional Development Network (UPDN), and the Utah Multi-Tiered System of Supports (UMTSS).







There is a significant need to move from "allowing" the implementation of evidence-based practices (EBP) to happen to "making" the implementation of evidence-based practices happen.

Effectively implementing EBPs is difficult. It has been said, "It is one thing to say with the Prophet Amos, let justice roll down like mighty waters...and quite another to work out the irrigation system." -William Sloane Coffin

These courses will provide participants with the knowledge and tools needed to design the "irrigation" or implementation system.

Implementation Science

Utah instructional leaders, including state, regional, district, and building level leaders who have completed Implementation Science: Foundations, or by special invitation may participate.



These courses will be offered in an online format. Participants will access course related material on a Canvas course management website, and will participate in a weekly, online Adobe Connect classroom. Each course consists of four 1.5 hour sessions, with some time required outside of class to prepare for, and maximize the productivity of in class discussions. Participants should plan to participate in all three courses.

There will be ongoing support through a virtual community of practice (V-CoP).

Participants will receive 1 USOE credit for participation in the Implementation Science Advanced course.

Please register on PD-RIO http://pd.spedsis.com/public

For more information, please contact Leslie Buchanan at the UPDN (leslie.buchanan@usu.edu).









Implementation Science Foundations February 25 – March 18, 2015

Day: Wednesdays **Time:** 3:30 – 5:00 P.M.

Classroom: Adobe Connect: https://connect.usu.edu/is

Course Website: Current or former USU students go to https://usu.instructure.com

All others go to https://elearn.usu.edu/canvas

Credits: 1 USOE Credit

Core Instructors: Leslie Buchanan, leslie.buchanan@usu.edu

David Forbush, <u>david.forbush@usu.edu</u>
Mary Gudgel, <u>mary.gudgel@usu.edu</u>

Devin Healey, Devin.Healey@schools.utah.gov

Learning Scientist: John Jeon, john.jeon@usu.edu

Problem Statement

"Remember, students do not benefit from interventions they do not remember." (SISEP 2014). In recent years, development and verification of evidence-based programs and practices benefitting the achievement of student learning has increased. Unfortunately, effective implementation of evidence-based programs and practices in educational settings is rare. Recent comments regarding the "knowing-doing gap" and the challenges of effective, sustained and impactful implementation include:

- "The distance in the knowing-doing gap is more chasm than gap..." (Cook & Odom 2013)
- "Choosing an evidence-based practice is one thing, implementation of that practice is another thing altogether..." (Fixsen, Blasé, Horner & Sugai - 2009)
- "Implementation is where good ideas go to die!" (Keyworthy 2013)
- "Implementation problems are wicked problems they fight back to keep the status quo" (Fixsen, Blasé, Duda, Naomi & Van Dyke – 2009)
- "We are faced with the non-evidenced based implementation of an evidence-based practice" (Drake, Gorman & Torrey – 2005)
- "Education is rich in data and poor in instructional decisions and rich in in-service and poor in implementation" (Forbush – 2013)





Virtual Community of Practice (v-CoP)

The virtual community of practice promote the followings:

- Curating content
- Consistent formatting
- On-going moderation
- Continued community of practice using face-to-face and virtual meetings between members
- Extending local community to a national community network
- Creating a toolkit for teachers to use computer science principles
- Gathering common data from the various CoP activities
- On-going communication

Benefits of Sharing Expertise

There are many different types of expertise at many different levels around state in teaching students with disabilities. It takes a long time to build expertise for teaching kids in a classroom setting. Kids are different and they grow up in different environments and situations, developing their own cultures in learning. Expert teachers learn how to teach kids in their own context and culture. Generalizing their expertise to other contexts and cultures is challenging; however, sharing and practicing expertise with teachers from different contexts and cultures can help teachers understand and solve their own problems.

Networking with Other Experts

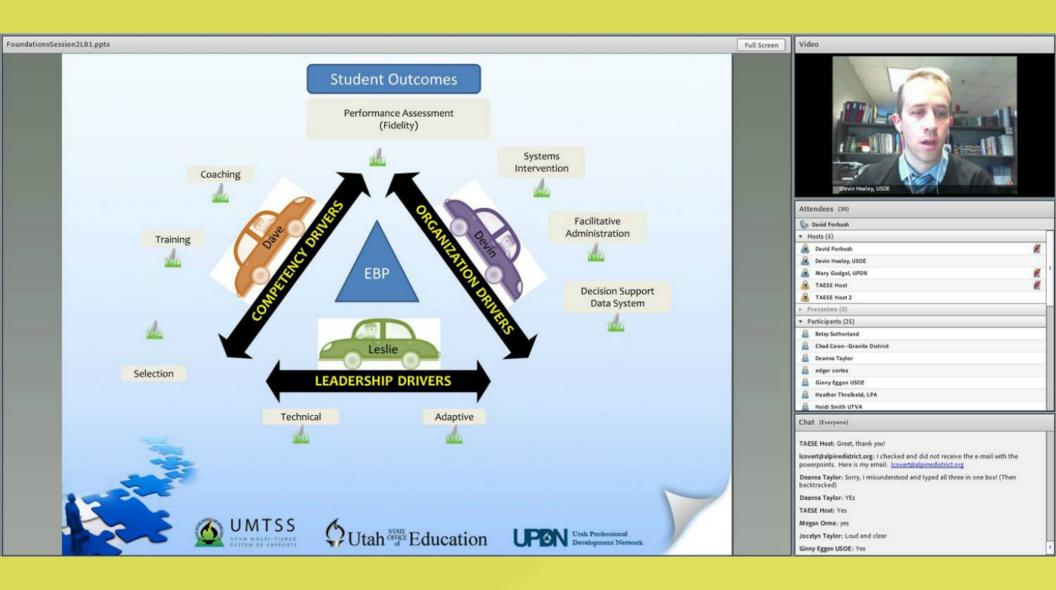
Special educators are sometimes isolated, and must practice their own teaching without much assistance from the same professional community, even though many communities exist in the same area. Finding experts in the same sorts of situations is not easy, and sharing and understanding the practices and problems in different situations is similarly difficult. Finding the right expert is hard, even in the same area of expertise.



Course Format

This course will be offered in an online format. Participants will access course related material on the Canvas course management website, and will access a live, online Adobe Connect classroom weekly. To maximize the learning of class participants, and including increase the likelihood of participants' application of implementation science in their respective settings, a "story-based instruction" model will be introduced in course two. Participants will be introduced to Ms. Jeon, the principal of Sequoia Middle School. Ms. Jeon, and select members of her staff are interested in implementing a school wide positive behavior support program. Learning of the Utah Professional Development Network, and the option to submit a "need assistance request," Ms. Jeon requests assistance with implementation of Sequoia's SWPBS. For this course, all participants will be working fictitiously as implementation specialists, and will apply implementation science principles in their consultative work with Ms. Jeon and her staff. As noted in course organization, the first course is focused on steeping participants in knowledge of implementation science principles and tools.







FoundationsSession3-Adobe.pptx Full Screen

The Hexagon Tool **Exploring Context**

The Hexagon Tool can be used as a planning tool to evaluate evidencebased programs and practices during the Exploration Stage of Implementation.

See the Al Modules Resource Library http://implementation.fpg.unc.edu

EBP:/Student Need

5 Point Rating Scale: High = 5; Medium = 3; Low = 1.

	High	Med	Low
Need			
Fit			
Resource Availability			
Evidence			
Readiness for Replication			
Capacity to Implement			
Total Score			

Need in school, district, state

- · Academic & socially significant Issues
- · Parent & community perceptions of need
- · Data indicating need

Capacity to Implement

- Staff meet minimum qualifications
- Sustainability
 - Staff Competencies
 - Organization
 - Leadership
- Financial
- Buy-in process operationalized
 - Practitioners
 - Families

NEED

Fit with current Initiatives

· School, district, state priorities

Resources and supports for:

. Technology supports (IT dept.)

Curricula & Classroom

Coaching & Supervision

· Administration & system

· Staffing

Training

Data Systems

· Organizational structures Community values

FIT

RESOURCES

READINESS

CAPACITY

Readiness for Replication

- Qualified purveyor Expert or TA available
- Mature sites to observe
- Several replications
- Operational definitions of essential functions
- · Implementation components operationalized:
 - Staff Competency
 - · Org. Support
 - Leadership

EVIDENCE

Evidence

- . Outcomes Is it worth it?
- · Fidelity data
- · Cost effectiveness data
- · Number of studies
- Population similarities
- · Diverse cultural groups
- Efficacy or Effectiveness

© Dean Fixsen and Karen Blase 2013

Adapted from work by Laurel J. Kiser, Michelle Zabel, Albert A. Zachik, and Joan Smith at the University of Maryland



Video



Attendees (21)

🔝 David Forbush, Leslie Buchanan, Mary Gudgel, Deanna Taylor, Emily Wilson,

▼ Hosts (4)

B	David Forbush			
2	John Jeon			

Leslie Buchanan Mary Gudgel

Presenters (0) ▼ Participants (17)

Chad Coon--Granite District

-	
11	Chantel Cowan

(0)	Deanna Taylor

- edgar cortes
- Emily Wilson, UPDN
- A Heidi
- Jessie Dalton
- A John Copenhaver

Chat (Everyone)

Naomi Whitmore UTVA: I teach a very small group of self-contained students and so our targeted area is always reading. I then use the CORE phonics survey to determine which skill to focus on.

edgar cortes: SAGE Science test data for working in improving core content-students knowledge

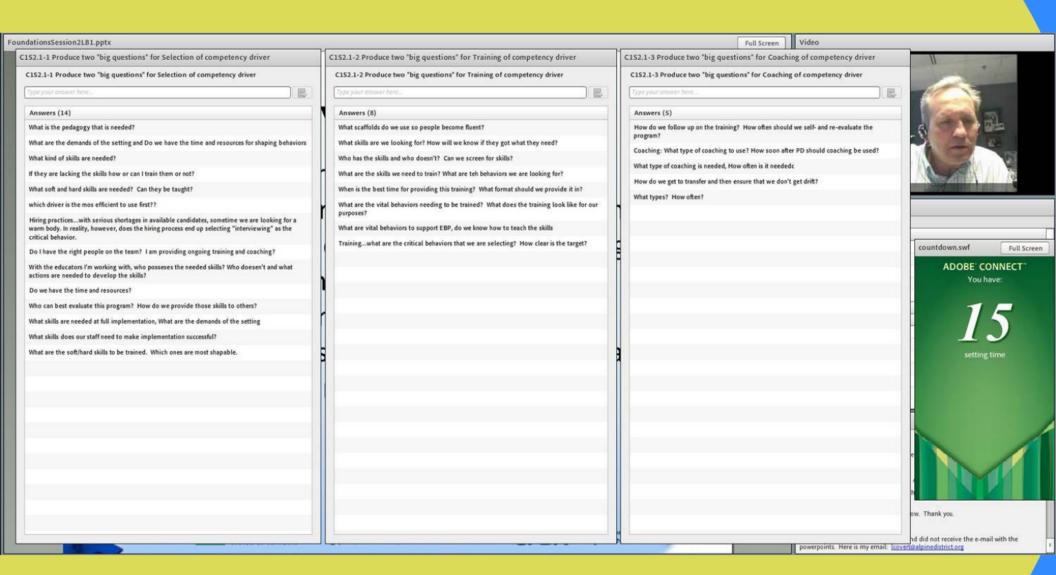
John Copenhaver: "whenever to say "yes" to someone or something you say "no" to someone or something"

Mary Gudgel: Another good quote regarding prioritizing needs, "If no is not an option, then the power of yes diminishes."

John Copenhaver: nice Mary!

Emily Wilson, UPDN: I like those quotes John and Mary!







Scope and Sequence

- Knowledge/Skill Element 1: Implementation
 Frameworks: Usable Interventions, Implementation
 Drivers, Implementation Teams, Improvement Cycle
- Knowledge/Skill Element 2: Implementation Stages: Exploration, Installation, Initial Implementation, Full Implementation, Innovation
- Knowledge/Skill Element 3: Competency Drivers: Selection, Training, Coaching



Terminal Behavior(s): Participants will be able to establish selection criteria, and employ them in staff selection (soft and hard skills), develop targeted and sufficiently sustained training of core evidencebased practice components, and develop a robust coaching program to sustain staff members' efforts to implement EBPs with fidelity. Participants will recognize the need to increase the strength of training and coaching if existing staff do not meet staff selection criteria, and overall, recognize the fluid nature of competency drivers, and the need for strengthening of other competency drivers when one is weak.



Scope and Sequence

 Knowledge/Skill Element 4: Organization Drivers: Systems Intervention, Facilitative Admin., Decision Support Data System

 Knowledge/Skill Element 5: Leadership Drivers: Technical, Adaptive

Knowledge/Skill Element 6: Implementation Teams



Terminal Behavior(s): Participants will be able to articulate the importance of larger system level implementation of EBPs, and contrast them against the limitations of narrow scope implementations (e.g., single classroom, single grade level...). Participants will be skilled in articulating steps to organize larger scale systemic implementations, and will recognize, articulate, and be skilled in employing administrative policies, practices, and dispositions nurturing a culture supportive of EBP implementation. Participants will be skilled in articulating, organizing and employing multi-level data systems, including monitoring progress through implementation stages, degrees of implementation fidelity, and fidelity of behaviors associated with EBPs, and their impacts on student achievement. Participants will recognize the fluid nature of organization drivers, and the need for strengthening of other organization drivers when another is weak.



Scope and Sequence

- Knowledge/Skill Element 7: Identifying Needs
- Knowledge/Skill Element 8: Prioritizing Needs
- Knowledge/Skill Element 9: Targeting Needs & Reach



Terminal Behavior(s): Participants will be skilled in systematically organizing processes to draw from multiple sources (e.g., data, and stake holders) student needs. Additionally, participants will be able describe the hypothesized influence of each need in relationship to student achievement. Finally, using data, guiding questions, and the NIRN hexagon tool, participants will select an appropriate number of student needs and corresponding well matched EBPs for implementation.



Scope and Sequence

- Knowledge/Skill Element 10: Identifying Potential EBPs
- Knowledge/Skill Element 11: Selecting Targeted EBPs
- Knowledge/Skill Element 12: Monitoring
- Knowledge/Skill Element 13: Scaling Up



Terminal Behavior(s): Participants will be skilled in taking a targeted student need, and identify potential EBPs and promising practices (i.e., those which have produced practice-based evidence [PBE]) which align to the need. Additionally, participants will select EBPs and PBEs viewed as powerful in addressing the student need if implemented with fidelity, and with appropriate dose, and period of time. Participants will effectively use the Hexagon Tool to inform their selections.





Driving Deep Implementation of Evidence-Based Practices

Problem – Knowledge to Implementation Gap

Over the past decade, researchers have identified practices and innovations shown to leverage student achievement.

Unfortunately, there is often a gap between what has been identified through research as effective practice, what a school system adopts and supports, and what is implemented in classrooms. The use of implementation science's drivers helps schools close the gap between what they know and do.



Implementation drivers do just that—drive implementation—and they are the *engine of change*. They are the system's components that bridge the gap between knowledge and implementation.

Let's take a drive around the implementation drivers. Buckle up!

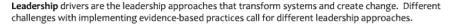


Deep implementation of evidence-based practices (EBPs) starts with **Competency** drivers: *getting the right people* on the team, and then actively working to develop, improve, and sustain team members with skills *training* and *coaching*.

- Selection: Effective staffing requires identifying the skills necessary for the work ahead. These skills are the criteria for selecting staff; they also direct training and coaching for new and existing staff.
- Training: Teachers, leaders, and staff need training on the theory, values, and actions of a practice or innovation, and should be provided with time to practice needed skills.
- Coaching: Skills can be introduced in training, but they must be practiced and mastered, with high levels of accuracy and fluency in the classroom and school. Coaching is key to supporting the transfer of skills from training to school and classroom settings.

Organization drivers are the systemic components that are essential in creating an educational environment ready for, and supportive of, change. Key organization components that **drive** successful and deep implementation include:

- Systems Interventions, which reduce or eliminate institutional barriers while enhancing elements in a system that support and sustain change.
- Facilitative Administration creates and maintains a hospitable environment, supporting intentional change and new ways to work.
- Decision Supporting Data Systems gather performance data and analyze processes and outcomes.

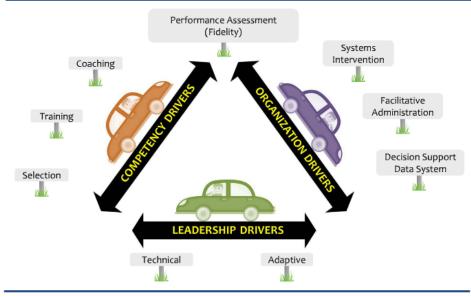


- Adaptive Leadership skills are needed to clarify the institutional vision, bring people together, and champion change.
- Technical Leadership skills are needed to manage continuing implementation supports. These skills represent the managerial side of leadership.



Sometimes, adaptive and technical skills are embodied in the same leader. In other cases, leadership responsibilities must be spread more widely to achieve the skills that drive implementation.

Performance Assessment monitors the strengths in a change system and the elements needing improvement. It identifies the extent to which the practice or innovation is being implemented with fidelity, and identifies needed corrections to improve fidelity.



Effectively using implementation drivers encourages educational systems to let go of "business as usual" and replace ineffective practices with effective ones, producing desired outcomes. Implementation drivers put your system in the *driver's seat* of active implementation of evidence-based practices, moving your system ambitiously toward improved outcomes for students, families, and communities.

Students cannot benefit from interventions they do not receive!

Please contact Audrey Ward (audrey.ward@usu.edu) at the UPDN with questions.





Closing Thought!

"Unlike other economic goods, information is enhanced with use, not depleted!"

Winter and Szulanski, 2001



Closing Thought!

"Replace Diamond Hard Inertia with Thoughtful, Skillful, and Systematic Action!"



