

NIRN NATIONAL IMPLEMENTATION RESEARCH NETWORK

FRANK PORTER GRAHAM CHILD DEVELOPMENT INSTITUTE

Implementation Drivers Overview

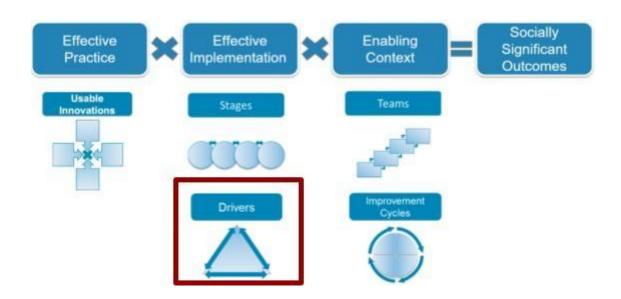


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Introduction

This overview of the Implementation Drivers is designed to help you think about developing and sustaining the infrastructure you need to improve and sustain new instructional practices and behavior supports to improve student outcomes.

Key Takeaways:

- Identify the 2 types of Implementation Drivers and their components
- Understand the key functions of Implementation Drivers
- Identify Leadership activities that support implementation
- Describe how Implementation Drivers are *integrated and compensatory*
- Identify Implementation Drivers tools and resources to support effective implementation

Terminology:

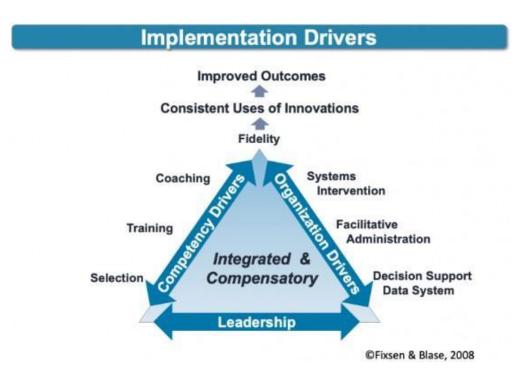
- **EBP -** Evidence-based Program (or Practice)
- DSDA Decision Support Data Systems

Implementation Drivers are the components of effective implementation needed to develop, improve and sustain the ability of teachers and staff to implement a practice or program as intended as well as create an Enabling Context for the new ways of work. In short, Drivers are the common features of successful supports needed to make full and effective use of practices and programs that will benefit students and their families.

There are 2 categories of Implementation Drivers:

- 1. *Competency Drivers*—mechanisms to develop, improve and sustain educator and administrator ability to implement an evidence-based program or practice (EBP) as intended in order to benefit students.
- Organization Drivers-mechanisms to create and sustain hospitable organizational and system environments for effective educational services – that 'Enabling Context' to support building infrastructure for implementation

Leadership—focus on providing the right leadership strategies for different types of leadership challenges. These leadership challenges often emerge as part of the change management process needed to make decisions, provide guidance, and support organization functioning.



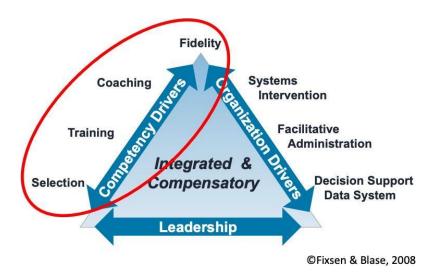
Implementation Drivers represent the infrastructure needed to make use of effective and well-defined practices.

Developing supports for Effective Implementation, it is important to start with the end in mind. If we look at the Active Implementation Formula (page 1), Social Significant Outcomes for students represent the "why" in the equation. We want to improve instructional practices and behavioral supports to improve student outcomes. The "what" in the equation is Effective Practices. We need to know "what" it is we're going to be implementing so that we can ensure Effective Implementation, the "how" in the equation. With Effective Implementation, we create the infrastructure to ensure the practice or program is in place, being used as intended, and producing outcomes. The "who" in the equation are Implementation Teams, a part of the Enabling Context who are linked across the system, responsible for developing capacity using data to support implementation.

Implementation Drivers are a part of Effective Implementation, the "how" component of our equation. Competency and Organization Drivers with Leadership activities are in service to fidelity to achieve Socially Significant Outcomes. In the next sections we will focus on the 2 types of Drivers and their ties to fidelity. We will consider them through an Active Implementation lens. An Active Implementation lens helps us focus on best practices for these components based on the best research and evaluation evidence from Implementation Science.

Topic 1: Competency Drivers

First, let's look at Competency Drivers. Competency Drivers are the activities to develop, improve, and sustain educator and administrator ability to put programs and practices into practice, so students benefit. The Competency Drivers are: Selection, Training, Coaching and Fidelity Assessment.



Topic 1A: Fidelity Assessments

Definition

Let's start at the top of the triangle with the first Competency Driver, <u>Fidelity</u>. Fidelity Assessment refers to measuring the degree to which teachers or staff are able to use the instructional practice as intended. Fidelity Assessment measures the extent to which a practice or program is implemented as intended. Did we do what we said we would do?

Assessing fidelity at the teacher/practitioner level is imperative to interpreting outcomes. If we don't assess fidelity, then we cannot:

- a. be sure an innovation was actually used,
- b. attribute outcomes to the use of the program or practice, or
- c. know what to focus on to improve.

If outcomes are not what we'd hoped for, but we have no fidelity data, it's difficult to develop an improvement plan. Are results poor because we chose the wrong program or practice or because the practice is not yet being used as intended? We need to know the answers to these questions in order to create a functional improvement plan.

Assessing fidelity also provides direct feedback regarding how well the other Implementation Drivers are functioning. Fidelity data and information, as well as program or practice outcomes, are a direct reflection of how well the Competency and Organization Drivers and Leadership are working together to support teachers and staff as they attempt to use the program or practice.

Rationale

In 2011, a fidelity study from the U.S. Department of Education found less than half (44.3%) of research-based prevention programs examined met minimal fidelity standards. Also, because only 7.8% of the prevention programs were found to be research-based, it was estimated that only 3.5% of all curriculum programs were both research-based and met fidelity. As the study notes:

"This information suggests that a tremendous amount of resources, in classroom time for prevention programming alone, is being allocated to school-based prevention efforts that either lack empirical support for their effectiveness or are implemented in ways that diminish the desired effects" (US Department of Education, 2011, p. 58).

We have to do better. We can do better by developing organizations that support effective practice and use performance assessment as a positive tool to connect infrastructure supports to outcomes.

Key Functions

Fidelity Assessment, through an Active Implementation lens focuses on how well the program or practice is being implemented and is not only about the fidelity of the educator, but also is about the quality of the <u>Selection</u>, Training and <u>Coaching</u> systems.

Fidelity data also are impacted by the Organization Drivers. How well is the administration at the building level supporting the new program or practice? What broader educational system supports are in place? Are any of these supports hindering implementation? And how are data, fidelity and outcome, being used to make decisions that can improve fidelity?

Many studies indicate higher fidelity is positively correlated with better outcomes. In addition to providing feedback to teachers, measures of fidelity also provide useful feedback to principals, district superintendents, evaluators, coaches, and purveyors regarding implementation progress. For example, fidelity measures provide instructional coaches with information to improve professional learning, a superintendent or principal may use the information to review selection processes or ways to further support staff, and teachers can use the data to create consistency among classrooms.

What impacts high fidelity? How do we support it?

Fidelity is not the burden a teacher bears, but rather a product of a thoughtful recruitment and selection process, effective training, and supervision and coaching systems that focus on strengths and build competence and confidence.

This means that Fidelity Assessment processes and fidelity data help to inform and engage everyone from district staff, to instructional coaches, to building administrators and teachers as new skills are implemented and refined. Results can be strengths-based, reinforcing the progress that has been made. Likewise, results can help responsively guide a staff and organizational development plan for improved practices and skills.

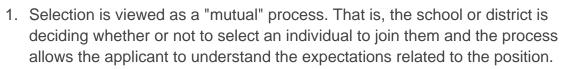
Topic 1B: Selection

Definition

Now, let's look at the Competency Driver, Selection, through an Active Implementation lens. <u>Selection</u> refers to the purposeful process of recruiting, interviewing, and hiring 'with the end in mind'. Selection through an Active Implementation lens includes identifying skills and abilities that are prerequisites and/or specific to the program or practice, as well as attributes that are difficult to train and coach. Let's look at how recruitment, interviewing, and selection processes support high quality implementation that leads to better fidelity and improved outcomes.

Rationale

From an Active Implementation perspective, the selection process is critical to program success. Selection from an Active Implementation perspective is different from selection as usual in two important ways:



Selection includes "role play" or "behavior rehearsal" processes. These
processes allow interviewers to observe how applicants respond to feedback and
how able and willing they are to learn new practices. This process provides
insight into how an applicant might respond to feedback and data. A desire and
ability to learn and grow are critical for ongoing improvement.

Key Functions

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<u>Selection</u> provides an important opportunity that allows new hires and reassigned staff to clearly understand the job requirements and ways of work and to make their own decision about whether the programs, practices and continuous improvement processes are a good fit for them. A detailed and realistic overview of the position helps the applicant decide if they are up for the challenge. The process also provides the opportunity to select for specific traits or characteristics – ones that may be challenging to support through training and coaching. For example, characteristics such as seeing parents as partners in the education process or willingly being accountable for outcomes. Information gathered through the selection process can be fed forward to trainers and coaches to help them understand the strengths of the person and more quickly focus on areas that may need attention.

Topic 1C: Training Definition

Now let's consider Training from an implementation perspective. Training through an Active Implementation lens is defined as purposeful, skill-based, and adult-learning informed processes designed to support teachers and staff in acquiring the skills and information needed to begin using a new program or practice.

Rationale

We know from implementation research that training alone does not result in changes in instructional practices and improved outcomes. But, training is still an important process to provide background information, introduce skills and major concepts, theory and values of the program and practices. In short, training is necessary for building teacher competency, but it is not sufficient if used alone.



Key Functions

Training does continue to bolster the buy-in process. During Training, teachers are introduced to new concepts and strategies before they are expected to use them in their classrooms. They are also introduced to the reasons the practices have been selected and how they benefit students. Training is also a safe space for "trying-out" new skills before using them with students.

Topic 1D: Coaching

Definition

<u>Coaching</u> is a necessary component for promoting teacher confidence and ensuring competence. Coaching is defined as regular, embedded professional development designed to help teachers and staff use the program or practices as intended.

Rationale

A 2002 meta-analysis by Joyce and Showers makes a compelling case for the need for skillful coaching. The authors noted that even very good training that included demonstration, practice, and feedback resulted in only 5% of teachers using the new skills in the classroom. Only when Training was accompanied by Coachingin the classroom was there substantial use in the practice setting.

These findings move supervision, monitoring and support to active coaching processes that are embedded in the learning environment and that support adherence to effective practices and quality instruction. This coaching approach also supports the development of judgment needed to differentiate instruction, use data for decision-making, and engage in evidence-based and evidence-informed instructional and program practices. Quality coaching offers critical support for trying out new approaches during that "awkward stage" just after initial exposure through training, and helps teachers and staff persist in developing skill, judgment, and the artful and individualized use of the new programs or practices.

Key Functions

Most skills needed by successful educators can be introduced in training sessions, but really are learned on the job with the help of a qualified and skilled coach who passes on wisdom and knowledge related to the implementation of the program or practices. A good coach assists the teacher in general ways (e.g., student engagement, lesson

planning, teaching to concepts, individualized and differentiated instruction), and actively helps educators acquire new skills and abilities related to the evidence-based practices.

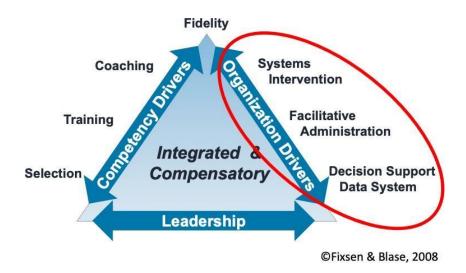
<u>Coaching</u> ensures that the fragile, uncomfortable new skills are actually tried in practice. As new educators get better and better at using their new skills, they become more artful and confident. The goal is to help new teachers, or teachers who are new to the practices. Coaching is related to fidelity because in many ways, fidelity is one of the important outcomes of quality coaching. Supervision and coaching are integrated with Selection and Training because the educator will continue to build on what was described in the interview process and what was covered during training. Coaching helps to compensate for the skills and abilities that were not present at the point of hire or that were not mastered in training.

Topic 2: Organization Drivers

Definition

Now we will look at the other side of the triangle – the Organization Drivers. These are the organizational, administrative and systems components that are necessary to create hospitable community, school, district, and state environments for new ways of work for teachers and school staff. Organization Drivers include:

- Decision Support Data Systems
- Facilitative Administration
- Systems Intervention



Topic 2A: Decision Support Data Systems

Definition

<u>The Decision Support Data System</u> (DSDS) is a system for identifying, collecting, and analyzing data that are useful to the teacher, school, district and other implementing environments. The system itself needs to live up to its name. It must be a data system that provides timely, reliable data for decision-making.



Key Functions

Decision Support Data Systems (DSDSs) gather process data, outcome data (e.g., student assessment) and fidelity data. To be useful, data need to be collected, analyzed, and reported over time and across actionable levels. That is, data need to be available from the classroom, grade, school, and district levels so progress can be celebrated, needs identified, and improvement plans generated. In addition to process, fidelity and outcome data, data also can be captured related to the effectiveness of the other Implementation Drivers. Again, all DSDS data and information need to be reliable, valid, and timely, as well as provide measures at actionable units (e.g. classroom, grade level).

DSDS reports and access can be made available at multiple levels throughout an educational system. For example, teachers can access data to monitor student progress, make educational decisions, and to see how their own practices are improving through the Fidelity Assessment lens. A school principal or a building leadership team can look across a grade level or curriculum area data to detect systemic issues that need to be broadly addressed. District teams can identify masterful teachers who can support their colleagues by demonstrating excellence in instructional practices.

Celebrating success through data is critical to the adoption, use and sustainability of a DSDS. A DSDS is more quickly embraced when the information readily highlights improvements and supports the work of educators at all levels.

Topic 2B: Facilitative Administration

Definition

The Facilitative Administration Driver focuses on the internal processes, policies, regulations, and structures over which a school, district or implementing organization has some control. Building or District Leadership and <u>Implementation Teams</u> are often responsible for activating this Driver.

Key Functions

The primary function of Facilitative Administration is to create and maintain <u>Hospitable</u> <u>Environments</u> to support new ways of work. Administrative systems are accountable for creating an organizational context that is supportive, engaged in learning, and continuously improving based on best practices and the use of data. This Driver takes the lead in identifying and addressing barriers related to internal processes (e.g., scheduling, reporting processes, internal policies), as well as identifying and highlighting external barriers and raising issues with others in the education system who can address such barriers. Above all, the Facilitative Administration Driver uses data and proactively solicits feedback to look for ways to make the day to day work of teachers, school staff and administrators more effective and less burdensome.

Topic 2C: Systems Intervention

Definition

The Systems Intervention Driver is focused on the external variables, policies, environments, systems or structures that influence or have impact on an implementing organization. Building and district leaders and teams identify barriers that are beyond their level of authority and work to bring issues to the attention of those who can address such barriers.

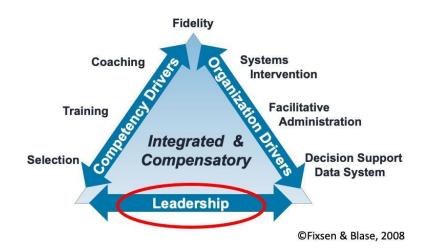
Key Functions

The goal of Systems Intervention is to identify and eliminate or reduce policies, procedures, and regulations that serve as barriers, or to enhance and sustain those that facilitate the work at hand. The purpose is to create and sustain an environment and conditions that support the new way of work. Schools and districts within a state that are all implementing the same program or practices, can pool their knowledge and recommendations and develop collaborative approaches to identifying and addressing barriers as well as sharing facilitative practices and procedures.



Topic 3: Leadership

We will next focus on the bottom of the Triangle – <u>Leadership</u>. Volumes have been written about the importance of leadership and the many traits needed by leaders to make change, support staff, and sustain outcomes. The use of Leadership in the context of Active Implementation focuses on leadership approaches related to transforming systems and creating change.



Different Challenges Call for Different Strategies

Ron Heifetz and his colleagues at Harvard's Kennedy School of Government (2009, 1997) identify the importance of technical and adaptive leadership strategies. He says that one of the biggest mistakes leaders make is incorrectly identifying the type of challenge they are facing.

Technical Challenges

Technical challenges are those characterized by pretty clear agreement on a definition of the dimensions of the problem at hand. And there is agreement that the problem would be defined similarly by the groups impacted by it and engaged in addressing it. Technical problems also have clearer pathways to solutions. That is, we can be reasonably certain that given the agreed upon problem and the dimension of the problem, if we engage in a relevant set of activities we will arrive at a solution – not necessarily quickly or easily but the challenge and path to a solution are largely known. Technical challenges can be managed. The leader can form a team, make a plan, make decisions, hold people accountable and execute the solution. This does not mean that technical challenges are easy nor does it mean that there won't be adjustments to the plan.

Technical Strategies

Technical challenges respond well to a more traditional management approach where problems are defined, solutions are generated, resources are garnered and tasks are assigned, managed, and monitored. A leader guides the overall process and is more "in charge."

Adaptive Challenges

Adaptive challenges aren't "solved" through traditional management approaches. Multiple attempts may have been used to address the challenge using technical strategies, but as an adaptive challenge, the challenge will continue to persist.

Adaptive challenges involve legitimate, yet competing, perspectives - different views of the problem and different perspectives on what might constitute a viable solution. In this case, the definition of the problem is much less clear, and the perspectives on the "issue" at hand differ among individuals or groups with interest.

Viable solutions and implementation pathways are unclear and defining a pathway for the solution requires learning by all. This "all" means that the primary locus of responsibility is not a single entity or person.

These types of challenges require a different type of leadership and often require leadership at many levels.

Adaptive Strategies

Ron Heifetz (2009, 1997) identifies six broad strategies for addressing adaptive challenges.

- 1. Getting on the balcony Stepping out of the fray to see the key patterns and the bigger picture. Leaders also need to recognize the patterns of work avoidance and the potential for conflict.
- Identifying the adaptive challenge Putting the unspoken issues out on the table. It also involves recognizing the challenges to and uncomfortable changes that may be required in values, practices and relationships.

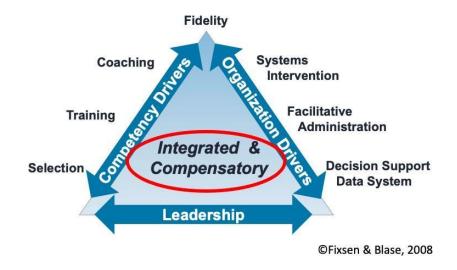
- 3. Regulating distress Creating a safe environment for challenges to be discussed, and creating a space for diversity of opinion, experiences, and values as well as the opportunity to challenge assumptions. Stress is accepted, tolerated, and regulated by the leader.
- 4. Maintaining disciplined attention Being aware of patterns of behavior that indicate that there is a purposeful or unconscious attempt to avoid disturbing or difficult issues. These patterns and behaviors can show up as scapegoating or blaming others; denying that the problem exists or is truly problematic; or diverting attention by focusing on technical issues.
- 5. Giving the work world back Creating conditions that help people take greater responsibility for the work of change, including defining and solving the problems. The leader supports staff rather than directing or controlling them. Giving the work back to the people also requires instilling and expressing confidence in others so that they will take risks, and backing them up when they make mistakes.
- 6. Protecting all voices Relying on others to raise questions about adaptive challenges and provide support and protection for employees who identify internal conflicts in the organization. This includes providing a legitimate space for those who constructively disagree.

Topic 4: Integrated and Compensatory

Definition

A key feature of Implementation Drivers is their integrated and compensatory nature.

- Integration means that the philosophy, goals, knowledge and skills related to the program or practices are consistently and thoughtfully expressed in each of the Implementation Drivers.
- Compensatory means that the skills and abilities not acquired or supported through one driver can be compensated for by the use of another driver.



Rationale

In too many human service programs, typical selection, training, supervision and Fidelity Assessment processes are not integrated. That is, selection processes may not tap into the skills and attributes needed for a particular position or practice, training and professional development opportunities may or may not be related to on the job expectations and actual skills needed to improve student outcomes. In addition, supervision may occur, but not coaching. Likewise, supervision is more likely to be focused on timeliness of reports, general work ethic and general professionalism than on adherence to effective practices.

While Fidelity Assessment protocols often address a generic set of work requirements such as punctuality, ability to get along, lesson planning, attention to curriculum, etc., such processes often do not include direct measures or indicators of teachers'

adherence to best instructional or program practices. Have teachers been given enough support, training, coaching and time to gain the competence and confidence to use evidence-based programs or practices (EBPs)? We can't answer this question unless we have measures of fidelity.

Overall, the staff development process may unintentionally be quite disintegrated. Such disintegration makes it extraordinarily difficult to facilitate the development of a skillful workforce focused on mastering evidence-based and effective processes. Rather, each person hired brings what they can to the educational environment and is offered modest support.

Even when the use of the Implementation Drivers starts out as highly integrated, it can get "off track" and become disintegrated quite easily. That is, if the Drivers become silos, then practitioners will not benefit. For example, one time professional development events place an undue burden on teachers and staff to make changes in their classrooms and schools in the absence of coaching, student data systems, and fidelity feedback. Administrators and leadership teams need to ensure that each Implementation Driver is playing a role in supporting the implementation of EBPs that can improve student outcomes. When used in an integrated and compensatory manner with an eye toward Active Implementation, the Implementation Drivers can ensure that educators become increasingly competent and confident, have a supportive administrative environment, access to functional data systems, and the support of transformative leadership.



Summary

In summary, infrastructure is needed to improve and sustain programs or practices to improve student outcomes. Implementation Drivers are the components of effective implementation needed to develop, improve and sustain the ability of teachers and staff to implement a program or practice as intended as well as create an Enabling Context to effectively implement to benefit students and families.

Key Takeaways

Two categories of Implementation Drivers:

- Competency Drivers
- Organizational Drivers

Competency Drivers are activities to develop, improve, and sustain educators' ability to put evidence-based programs or practices (EBPs) into practice. Competency Drivers include: Fidelity Assessments, Selection, Training, and Coaching.

Organizational Drivers are components necessary to create environments to implement new programs or practices. Organizational Drivers include: Decision Support Data Systems, Facilitated Administration, and Systems Interventions.

Leadership activities are needed to transform systems and create change. Technical Strategies are used to address well defined challenges, whereas challenges that involve competing perspectives of the problem or what might constitute a solution require Adaptive Strategies.

Drivers are integrated and compensatory, representing the infrastructure needed to make use of effective and well-defined EBPs.

We have shared a lot of information that can take time to digest and reflect upon. As you think about your past work, you can probably now recognize why some of those hard won successes occurred. Likewise, you might recognize what you might have done to improve your school or district's track record in using best practices effectively. You may also experience feelings of grief, loss, disappointment and/or disloyalty. These thoughts and feelings are all legitimate. We frequently hear similar reactions as people acquire this new knowledge related to effective implementation. (e.g., "Why didn't you

have this available for me before now?"; "Look at all the time and resources we wasted!"; "This is just too difficult, but now we know better so I guess that means we can do better, but it's not easy is it?").

The bottom line is, when you begin to think about letting go of entrenched ways of work, where the implementation math is not adding up for students, families and communities, you are leading yourself and your organization toward Active Implementation and improved outcomes.

Resources

Read

- <u>Handout: An Overview of the DCA</u> A one-page overview of the District Capacity Assessment.
- What is Fidelity?

Fidelity is a complex concept and utilizing fidelity measurements and data at all levels of the teaming cascade is needed to support staff with implementation. This brief provides a deep dive into this concept, with real-world examples.

Watch

- <u>Voices from the Field Video Series (Intro to Implementation</u> <u>Drivers)</u> Voices from the Field Video Series: Intro to Implementation Drivers
- <u>Voices from the Field Video Series (Integrated & Compensatory)</u> Voices from the Field Video Series: Integrated and Compensatory

Listen

- Implementation Science for Educators Podcast (Fidelity)
 Implementation Science for Educators Podcast: Fidelity
- Implementation Science for Educators Podcast (Competency Drivers)
 Implementation Science for Educators Podcast: Competency Drivers
- Implementation Science for Educators Podcast (Leadership) Implementation Science for Educators Podcast: Leadership

Reflect

- <u>Activity: Getting started with Implementation Drivers</u>
 - How could you leverage the Implementation Drivers framework in your work? Discuss these questions with your team and/or to record your responses. Thinking about a specific instructional practice or behavioral innovation may make this exercise meaningful for you.

• Activity: Locus of Responsibility

To what degree do you have control and responsibility over Implementation Driver resources, personnel, or processes? This activity will help you quickly assess locus of responsibility in your system.

Apply

• Drivers Ed Short Series

This short series of lessons provides a quick booster on each Implementation Driver, then an opportunity to practice and apply the driver concepts. The resource offers a one-stop shop for your basic Implementation Driver needs and provides a chance to review, reflect, and apply.

• Tool: Drivers Best Practices Assessment (DBPA)

The purpose of the Drivers Best Practices Assessment (DBPA) is to assist organizations in assessing their current supports and resources for quality use of selected programs or practices.

• District Capacity Assessment (DCA)

The DCA is an action assessment designed to help educational district leaders and staff better align resources with intended outcomes and develop action plans to support the use of effective innovations. Both the training and tool are available online.

For additional resources, visit: https://implementation.fpg.unc.edu/resources/

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