


National PBIS Leadership Forum
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D1 – Building District Capacity for Data Integration: Current Practices and Future Directions

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Key Words: Alignment, Applied Evaluation, Systems Alignment, Teams

Session D1 Purpose & Objectives

Purpose

- Disparate data collection systems, disconnected decision-making groups, and divergent priorities can impede PBIS implementation efforts. Integrating data systems and aligning resources is necessary to build capacity for more effective and efficient decision making. Tools, resources, and examples of current integration efforts from the PBIS Applications group will be shared.

Objectives

- Identify the purpose and current practices of school teams.
- Identify what data teams need for decision making.
- Identify tools that support efficient and effective team practices.

Maximizing Your Session Participation

When Working In Your Team

Consider 4 questions:

- Where are we in our implementation?
- What do I hope to learn?
- What did I learn?
- What will I do with what I learned?

Where are you in the implementation process?

Adapted from Fixsen & Blase, 2005

Exploration & Adoption

- We think we know what we need so we are planning to move forward (evidence-based)

Installation

- Let's make sure we're ready to implement (capacity infrastructure)

Initial Implementation

- Let's give it a try & evaluate (demonstration)

Full Implementation

- That worked, let's do it for real and implement all tiers across all schools (investment)
- Let's make it our way of doing business & sustain implementation (institutionalized use)

Leadership Team Action Planning Worksheets: **Steps**

Self-Assessment: Accomplishments & Priorities

Leadership Team Action Planning Worksheet

Session Assignments & Notes: High Priorities

Team Member Note-Taking Worksheet

Action Planning: Enhancements & Improvements

Leadership Team Action Planning Worksheet

Educational and Community Supports

Educational and Community Supports (ECS) is a research unit within the College of Education at the University of Oregon.

- ECS focuses on the development and implementation of practices that result in positive, durable, and scientifically substantiated change in the lives of individuals.
- Federal and state funded projects support research, teaching, dissemination, and technical assistance.

PBIS Applications (PBISApps) is a series of educational tools created within ECS and related to the implementation of multi-tiered systems of support (MTSS).

- The PBIS Application tools have been utilized in 25,000+ schools both domestically and internationally.

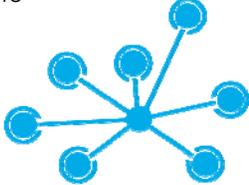


Introduction



What is Data Integration?

Data integration is used to share or combine **data** from disparate sources into meaningful and valuable information.



A complete **data integration** solution delivers trusted **data** from a variety of sources.



From This



To This



Why Data Integration?

Most districts use multiple programs to store data:

- Student Information System
- Assessment and Progress Monitoring
- Special Education / Individual Education Plan (IEP) services
- Student Health Records
- Transportation Management
- Student Lunch Program
- SWIS Suite



Benefits of Data Integration

- Take advantage of specialized applications
- Efficiency
- Data integrity
- Make data more available
- Easy data collaboration
- Make your data live
- Understanding data means smarter decisions



Framing the Discussion

The Hexagon Tool



Hexagon Tool

- Helps a site systematically evaluate new and existing interventions across six broad factors

Need How well it might meet identified needs	Fit With current initiatives, priorities, supports, values	Resource availability Training, staffing, curricula, data systems, administration
Evidence What outcomes might be expected if implemented well	Readiness for Replication Expert assistance, exemplars for observation, operationalized	Capacity to Implement Sustain and improve implementation over time

- Exploration process and decision for moving forward
- Communicating with stakeholders
- Identify gaps, strengths, and needs

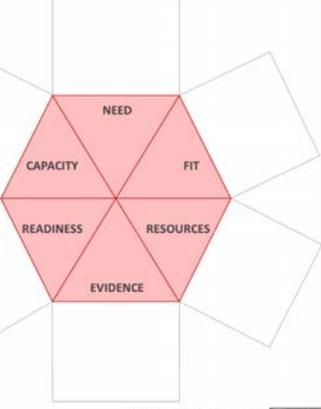


The Hexagon Tool Exploring Context

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

See the Active Implementation Hub Resource Library <http://implementation.fpg.unc.edu>

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



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Adapted from work by Laurel Eber, Michael Egan, Albert A. Jacobs, and Jean Smith (2005)




Need

How well does this strategy meet identified needs?



Key Questions/Considerations

Do you have specialized applications that would benefit from data integration?

- Which applications?

Do you have competing initiatives or priorities with specific data requirements?

- What are they?

Who are the stakeholders involved?

- How can we communicate the purpose/need?

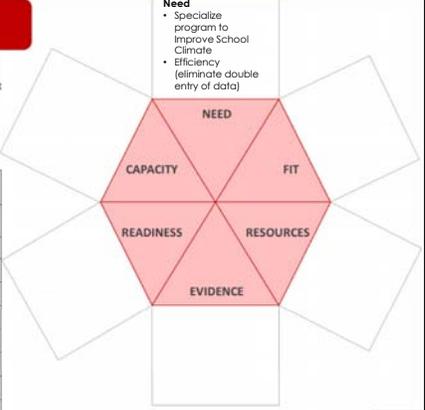



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EBP:	High	Med	Low
Need			
Fit			
Resource Availability			
Evidence			
Readiness for Replication			
Capacity to Implement			
Total Score			



Need

- Specialize program to improve School Climate
- Efficiency (eliminate double entry of data)

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Adapted from work by Laurel Eber, Michael Egan, Albert A. Jacobs, and Jean Smith (2005)





Fit

How does this strategy fit current initiatives, priorities, supports, values?



Key Questions/Considerations

What's the purpose or intent of the information you are collecting?

- Reporting or decision making?
- District-level or school-level?

Which information are you concerned about integrating?

- Demographic info vs. information

How often do you need to collect data for differing systems?

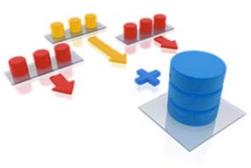
- Daily, weekly, monthly, annually?




Data Collection vs Data Analysis

Data Collection

Systematic gathering of required information.



Data Analysis

Examination of data such that relationships, patterns, trends, etc. emerge and foster hypotheses and decision making.





Different Tools for Different Tasks

District Student Information System (SIS)	School-wide Information System (SWIS)
Annual decision cycles	Daily, weekly, monthly decision cycles
Decisions affecting multiple schools	Decisions affecting the school, sub-groups, & individuals
Summarized for prior year(s)	Data must be current (within 48 hours)
Legal accountability	Informs intervention
Accountability	Improve School Climate

Both Are Important!



Flow of Information

Data integration, in its simplest form, is the capture and movement of data from one database on a **source system** to another database on a **target system**.




Flow Considerations

Which way should the information flow between systems?

- Identify which application is the source and which is the target
- In some cases, the information can flow both ways

What information is needed?

- Does the source currently contain all the information required by the target?





Resource Availability

What resources are needed to make this strategy work? (e.g. training, staffing, curricula, data systems, administration)



Key Questions/Considerations

Can you get the key people to the table?

Does the group have the ability to make a change?

What are the potential costs?




Right People at the Table

Who should be involved in the integration discussion?

- District Admin
- School Admin
- Key users of the two systems
- IT Department representative
- Others?
 - Teacher representatives
 - Vendor representative




Costs

Economic	Personnel	Data
<ul style="list-style-type: none"> Vendor costs Integration hardware/software 	<ul style="list-style-type: none"> Staff FTE (IT, Facilitator/Coordinator, Admin, etc.) Training for staff in data entry routines & procedures 	<ul style="list-style-type: none"> Data integrity Data loss

Are these one-time costs or ongoing?




Capacity

How can we install, sustain and improve implementation over time?



Key Questions/Considerations

Technical Expertise/Support

Internal	External
<ul style="list-style-type: none"> District or school-level IT Application support personnel Training and user support 	<ul style="list-style-type: none"> Vendor or consultant

Data Systems Capability

- Are the systems capable of being changed?
- Do we have the technical expertise to modify systems?

Sustainability

- Financial
- Developing organizational capacity to

to continually si






Evidence

How does this look in practice? Are there successful applications of this?



School-wide Information System (SWIS)

The **SWIS Suite** is a reliable, confidential, web-based information system to collect, summarize, and use student behavior data for decision making.

The three SWIS Suite applications (SWIS, CICO, I-SWIS) align with the PBIS framework and provide needed data for a multi-tiered system of support (MTSS) including universal screening and progress monitoring.



SWIS Data Integration Options

Current Reality

- Import Student and Staff Data – School Level
- Export Referral Data – School Level
- Export Referral Data – District Level

Future Directions

- Import Student and Staff Data – District Level
- Import Referral Data – District Level
 - Barriers: Data Integrity

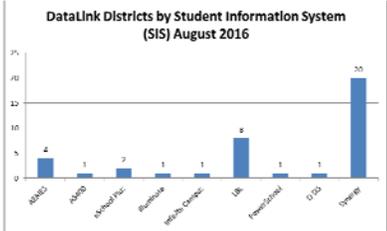


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Evidence

DataLink Districts by Student Information System (SIS) August 2016



District	Percentage
ASISD	4%
ASPS	1%
Ashton Park	2%
Bullwinkle	1%
WPA-Central	1%
Life	8%
Forest Grove	1%
USDA	1%
Overlapping	20%

As of August 2016, there are 39 districts with 616 schools using DataLink to upload staff, students and referrals into SWIS. Uploads are usually on a nightly basis.




Readiness for Replication

Expert assistance, exemplars for observation, operationalized



Key Questions/Considerations

Can the practices/steps be operationalized for easy replication (scalability)?

Who has done this already? What are the lessons learned?

Where can we access and support?




How can schools/districts using SWIS prepare for referral import?

- Clean up data integrity in SWIS
- Create a district-wide referral form
 - By level (elementary, middle, high)
- Contact IT and/or SIS vendor and request that fields in SIS match SWIS required fields
- Create a referral category map
- Sign up for Data Integration Updates by emailing support@pbisapps.org

Exemplar/Demonstrations




Data Integration in California

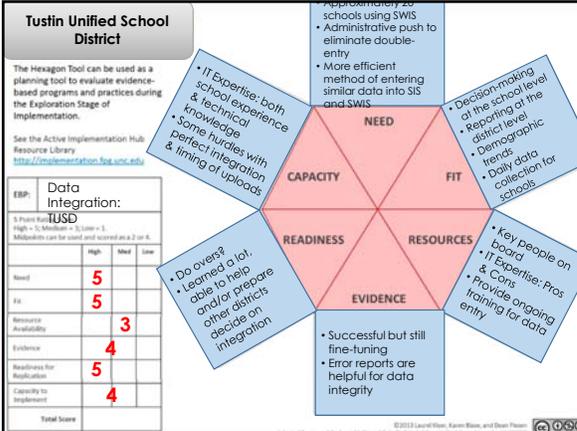


Tustin Unified School District

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See the Active Implementation Hub Resource Library: <http://implementation.hq.usc.edu>

EBP:	Data Integration:		
	High	Mid	Low
Need	5		
Fit	5		
Resource Availability			3
Evidence		4	
Readiness for Modification	5		
Capacity to Implement		4	
Total Score			



Data Integration in Michigan



Hexagon: Evidence

Michigan's Integrated Behavior & Learning Support Initiative (MIBLSI)

- An Integrated MTSS Model
- District partners use SWIS as a student outcome measure
- Data is used to allocate resources to improve student learning and social-emotional skills

State level perspective for data integration

Hexagon: Need



MIBLSI currently partners with:

- 24 Intermediate School Districts (ISDs)
- 73 Districts
- 276 Schools

As part of the partnership, schools collect and analyze the following data:

- Curriculum Based Measure (CBM) for reading
- SWIS
- Student Risk Screening Scale (SRSS)
- Early Warning Indicator (EWI)
- Fidelity: SWPBIS TFI & Reading TFI



Hexagon: Need...continued



Michigan is a Local Control State

- Districts choose own School Information System (SIS) vendor and Data Warehouse vendor
 - 6 different SIS vendors used by districts across the state
 - eSchoolPlus, Infinite Campus, MISTAR/Zangle, Powerschool, Skyward, Synergy

Increase efficiency with the use of data systems for data collection, analysis, and data-based decision making



Hexagon: Fit



SWIS data is:

- Collected daily by schools for data-based decision making
- Analyzed at least monthly at a School Leadership Team meeting to determine school-wide supports and to determine students for group & individual behavioral supports
- Analyzed quarterly at a Data Review session with other data sources (CBM, EWI, SRSS, & Fidelity) within a continuous school improvement framework in order to create an action plan to improve MTSS implementation efforts and student outcomes
- Analyzed at the School, District, & ISD levels to allocate resources based on identified system & student needs



Hexagon: Resources



Early Installation Stage

- Set up infrastructure to support data integration of SWIS with School Information Systems
 - Both state and district levels

Establish who should be part of the installation conversation and work tasks

- SWIS Facilitator, District Technology Department, MTSS Coordinator, District Administrator, School Administrator
- Technology Department typically leads the work with support from SWIS Facilitator



Hexagon: Costs



Vendor cost

- For most schools, there have not been any additional costs
- However, 1 district had been told by their SIS vendor they would need to purchase a different package for the behavior data integration

Staff cost

- The FTE time for Technology Department to install and maintain data integration, train staff on system, and clean data to ensure accuracy
- The FTE time for SWIS Facilitator to support the process

Data cost

- Possible loss of data during integration



Hexagon: Capacity



Initially train Certified SWIS Facilitators at the ISD and/or District levels

MIBLSI provides annual SWIS Facilitator refresher webinars with updated information on data integration pilot work with SWIS

Communication with:

- ISD / District Technology Departments, Facilitators, and PBIS Coordinators SWIS
 - Phone, email, newsletters with data integration updates, Q&A
- PBISApps



Hexagon: Readiness



Early Installation Stage at State Level

- Piloting in a few school districts
- Not ready for scale-up

Early Installation District and School

- Use SWIS Data Integrity tool to clean up data
- Create a district-wide SWIS compatible referral form
- Ensure the right district and school staff are involved in the data integration conversations
- Establish understanding that this is a complicated process that will include several conversations over time to set up the right infrastructure for installation




Putting It All Together



Generate a Plan

Complete the Hexagon tool

It can support/provide context for your conversations and future directions




Summary Questions/ Considerations

Do the benefits outweigh the costs?

- Economic costs
- Data costs

What's the simplest strategy that can yield the biggest impact/results?

- Start small
- Person import can be a great start alleviate much of the burden




Contact Information

PBIS Applications Contacts

- www.pbisapps.org
- support@pbisapps.org
 - Put "Integration" in the subject line

District Exemplar Contacts

- Jennifer Rollenhagen – MIBLSI
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PBIS Applications



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