Unlocking the Power of Data for Continuous School Improvement

Victoria L. Bernhardt vbernhardt@csuchico.edu http://eff.csuchico.edu

WELCOME!

UNLOCKING THE POWER OF DATA FOR CONTINUOUS SCHOOL IMPROVEMENT

COSA August 7, 2015

Victoria L. Bernhardt vbernhardt@csuchico.edu

http://eff.csuchico.edu

OUTCOMES

Everyone understands—

- The Continuous School Improvement (CSI) Framework.
- What and how data are important for continuous school improvement planning.

WHAT IS THE HARDEST PART FROM YOUR PERSPECTIVE?

- Beliefs that all children can learn.
- Schools honestly reviewing their data.
- One vision.
- One plan to implement the vision.
- Curriculum, instructional strategies, and assessments *clear and aligned to standards*.
- Staff *collaboration* and *use* of *data* related to standards implementation.
- Staff professional learning to work differently.
- Rethinking current structures to avoid add-ons.

THINGS WE KNOW ABOUT IMPROVING STUDENT LEARNING

- Quality of classroom instruction is the single greatest predictor of student learning and achievement.
- Principal leadership is second . . .

Robert J. Marzano

THINGS WE KNOW ABOUT DATA USE

For data to be used to impact classroom instruction, there must be structures in place, to—

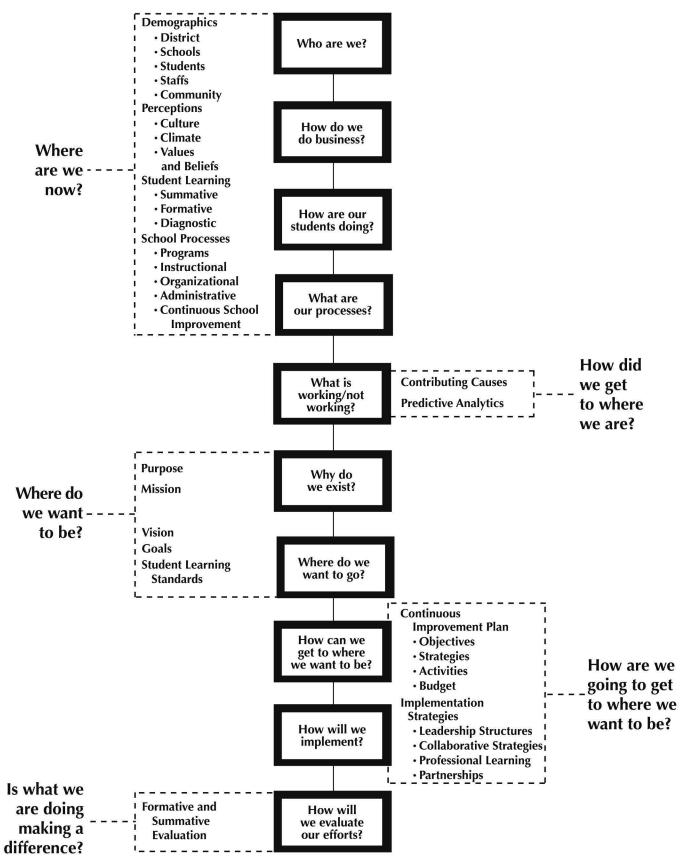
- Implement a shared schoolwide vision.
- Help staffs review data and discuss improving processes.
- Have regular, honest collaborations that cause learning.

LEARNING DEFINITION

Learning is the process through which experience causes permanent change in knowledge or behavior.

Cognitive Psychology

CONTINUOUS SCHOOL IMPROVEMENT FRAMEWORK



Bernhardt, V.L. (2013). Data Analysis for Continuous School Improvement. Third Edition. New York, NY: Routledge. Page 14. Reproducible.

DIFFERENCES IN ACTIONS BETWEEN SCHOOL FOCUSED ON COMPLIANCE AND COMMITTED TO CONTINUOUS IMPROVEMENT

Key Components	Schools Focused on Compliance	Schools Committed to Continuous School Improvement
Data Analysis	Blame students for poor results (e.g., our results are not very good because our population lives in poverty). Use student learning data, only, to close gaps. Focus on "Bubble Kids."	 Embrace whom they have as students, learn how to meet their needs, and ensure that all achieve. Have all staff use demographic, perceptions, student learning, and school processes data to understand how to— meet the needs of students, understand what is working and what is not working, use what is working to serve all students, and predict and prevent failures, and optimize successes.
Problem Solving	Use problem solving in a reactive fashion. They tend to add fixes when problems occur.	Prepare staff to know how to problem solve together to get to and eliminate contributing causes, in a proactive fashion.
Vision	Focus only on meeting compliance. Add programs and interventions to what they are already doing when change is needed.	Have a vision about doing whatever it takes to improve teaching and learning. Use data to inform the schoolwide vision that is created, embraced, and implemented by all staff members. The vision clarifies what teachers will teach, how teachers will teach and assess, and how everyone in the organization will treat each other, related to student learning standards. The vision provides the means for strategic, fast action-the scenarios have been played through.
Planning	Write school improvement plans to close gaps related to compliance. School goals are limited to improving test scores versus improving student learning. Reactive to compliance reports, these plans are usually about "fixing the kids" by prescribing add- on interventions.	Proactively write continuous school improvement plans to implement a vision that improves learning for all students and prepares them for college and careers. The plan interweaves the leadership structure, professional learning, and partnerships needed to implement the vision.
Leadership	Have top-down leadership that requires a focus on compliance and closing gaps. Areas of emphasis change as leaders change.	Create shared decision-making structures that support each other as they implement the vision, and improve learning for all students.
Professional Learning	Use professional learning as a carrot and a stick. "If we are failing in this area, everyone has to go to this workshop." Without new information, teachers do the same things over and over and hope for different results.	Understand that collaboration is required to improve teaching and learning. They build structures for all staff to collaborate and learn together. Time is dedicated for collaborative teams to review and make meaning of classroom and schoolwide data, and to discuss and apply options for improving student learning.
Partnerships	Create one-way partnerships with parents, community, and businesses to raise money and get stuff.	Embrace and plan for win-win partnerships as a means of implementing the vision and creating college and career-ready graduates.
Evaluation	Use evaluation when required for external accountability.	Use data to continuously improve all aspects of the learning organization.
Compliance	Focus on what is being measured for compliance purposes only, and are expert at gap analysis. Are content with the status quo as long as it meets compliance requirements.	Focus on creating and improving the learning organization to ensure learning for all students in all subject areas, so all students can be college and career ready. Accountability and compliance are a part of the process, but not the sole focus.

DATA-INFORMED DECISION MAKING

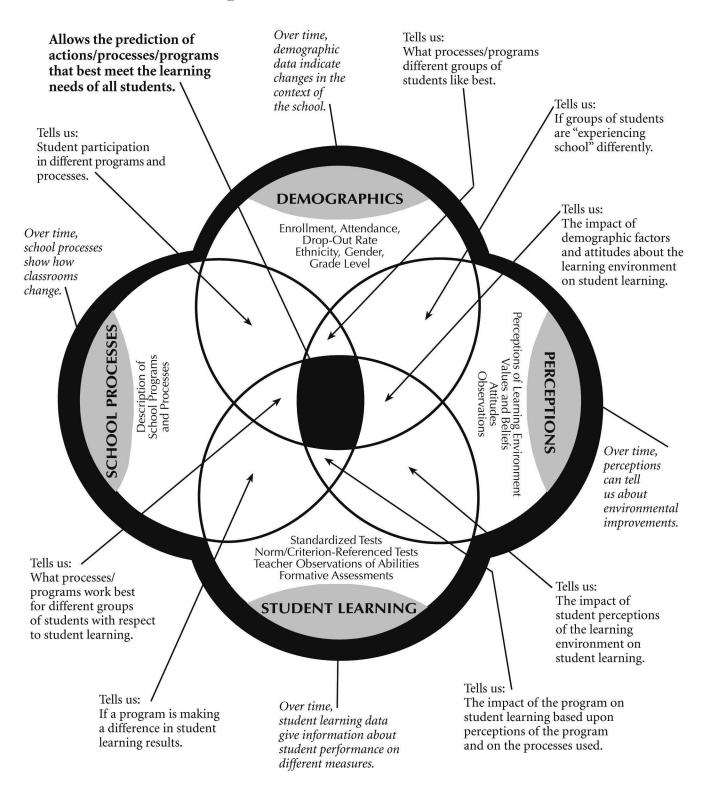
Reasons to Collect and Use Data—

- Find out where you are
- To understand how you got there
- Plan
- Evaluate
- Predict
- Clean up your system

"Our future will be shaped by the assumptions we make about who we are and what we can be."

- Rosabeth Moss Kanter

Multiple Measures of Data



Bernhardt, V.L. (2013). Data Analysis for Continuous School Improvement. Third Edition. New York, NY: Routledge. Page 17. Reproducible.

DEMOGRAPHICS ARE IMPORTANT DATA

- Describe the context of the school and school district.
- Help us understand all other numbers.
- Are used for disaggregating other types of data.
- Describe our system and leadership.

WHAT STUDENT DEMOGRAPHIC DATA ELEMENTS CHANGE WHEN LEADERSHIP CHANGES?

 Enrollment 	 Language Proficiency
 Enrollment 	 Language Proficience

- Gender
 Indicators of Poverty
- •Ethnicity/Race •Special Needs/ Exceptionality
- -Attendance
- (Absences) IEP (Yes/No)
- Expulsions
 Drop-Out / Graduation Rates
- Suspensions
 Program Enrollment

STUDY	DEMOGRAPHIC DATA 1. What say the school's demographic strengths and challenges? Strengths Challenges				
31001	Strengths	Challenges			
QUESTIONS					
Demographic					
Data	2. What are some implications for the continuous school improvement plant				
	Implications for the				
	continuous school				
	improvement plan.				
	3. Looking at the data presented, what other demographic data would you want to answer the question. Who are we?				
	Other data				



DEFINITIONS

- STRENGTHS: Something positive that can be seen in the data. Often leverage for improving a challenge.
- CHALLENGES: Data that imply something might need attention, a potential undesirable result, or something out of a school's control.

EXAMPLE STRENGTHS

- The school is small.
- Our teacher-student ratio is small.
- Students are diverse.

EXAMPLE CHALLENGES

- Students are diverse.
- The number and percentage of students living in poverty has doubled in the past 3 years.
- We have a large percentage of students identified for special education services.

DEFINITIONS

 IMPLICATIONS FOR THE SCHOOL IMPROVEMENT PLAN are placeholders until all the data are analyzed. Implications are thoughts to not forget to address in the school improvement plan. Implications most often result from CHALLENGES.

EXAMPLE CHALLENGES

- Students are diverse.
- The number and percentage of students living in poverty has doubled in the past 3 years.
- We have a large percentage of students identified for special education services.

EXAMPLE IMPLICATIONS FOR THE SCHOOL IMPROVEMENT PLAN

- Do staff have the professional learning they need to best teach students who live in poverty, are at-risk, and diverse?
- Staff needs to make sure all processes provide equal access to learning, regardless of background (i.e., homework, assignments that require money, same expectations.)

PERCEPTIONS ARE IMPORTANT DATA

- Help us understand what students, staff, and parents are perceiving about the learning environment.
- We cannot act different from what we value, believe, perceive.

PERCEPTIONS INCLUDE

- Student, Staff, Parent, Alumni Questionnaires
- Observations
- Focus Groups

SCHOOL PROCESSES

Schools are perfectly designed to get the results they are getting now. If schools want different results, they must measure and then change their processes to create the results they really want.

SCHOOL PROCESSES ARE IMPORTANT DATA

- Tell us about the way we work.
- Tell us how we get the results we are getting.
- Help us know if we have instructional coherence.

STUDENT LEARNING ARE IMPORTANT DATA

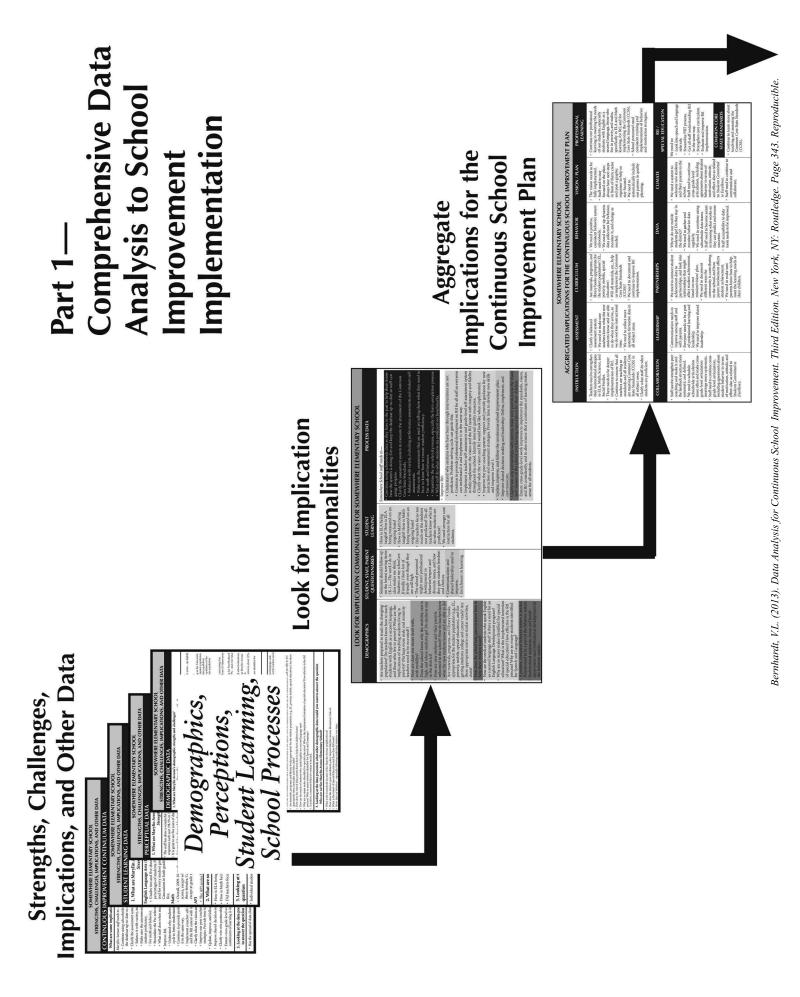
- Know what students are learning.
- Understand what we are teaching.
- Determine which students need extra help.

	SCHOOL PR	SCHOOL PROCESSES EXAMPLES	ES	
Instructional Processes	Organizational Processes	Administrative Processes	Continuous School Improvement Processes	Programs
Academic conversations with	• Data Teams	 Attendance program 	Continuous school	9th Grade Academy
students	• Data use	 Class sizes 	improvement planning	• A+
Classroom assignments (types	 Inquiry process 	Data collection	 Contributing cause 	 Accelerated
of tasks, choices, projects,	Instructional coaching	 Dropout prevention 	analysis	Reader/Math
collaboration)	Leadership structure	Discipline strategies	• Data analysis and use	 Advanced
Classroom discussions	(Leadership teams)	• Effective	• Evaluation	Placement
(teacher talk, student-to-	• Mentoring	communication	• Leadership	After School
student talk, student-to-	Mission	• Enrollment in different	Mission	• AVID
teacher talk)	Parent involvement	courses/	Professional learning	 At-Risk
Differentiated instruction	 Policies and procedures 	programs/program	 Partnership 	 Bilingual
Direct instruction	Professional discussions and	offerings	Self-assessment	 Counseling
Flipped classrooms	support	 Graduation strategies 	• Vision	 Dropout Prevention
Grading	Professional Learning	Leadership turnover		English as a Second
 Homework 	Communities	rates		Language
• Immersion	Professional reflection	• Number and use of		Gifted and Talented
• Inclusion	Response to Intervention	support personnel		 International
 Inquiry process 	(RtI)	 Policies and procedures 		Baccalaureate
Standards implementation	Teaching assignments	Retentions		 Interventions
Student reflection and self-	Teacher collaboration	Scheduling of classes		• PBIS
assessment	• Teacher evaluation	 Student groupings 		Science Fairs
Technology integration	• Teacher hiring	 Teacher assignments 		Service Learning
• Tutoring	Teacher observations	• Teacher certification		Special Education
	Teacher renewal	Teacher hiring		
	(professional learning)	Teacher turnover		
Implications for the Continuous School Improvem	School Improvement Plan			

	GOAL: What we expect	students to know and be able to do.				
e Post- It Assessment	Who are they?	Who are they?	What concepts do they not understand?	What skills do students need?	topics?	Processes altered
e Formative nt Assessment	Who are they? Wh	Who are they? Wh	What concepts Wh do they not do understand? ur	What skills V do students do need?	Nhat concepts/topics?	Processes I altered
ive Formative ent Assessment	Who are they? WI	Who are they?	What concepts Wl do they not d understand? u	What skills V do students d need?	ing required?	Processes altered
Pre- Formative Assessment Assessment	Who are they? V	Who are they?	What concepts V do they not understand?	What skills do students need?	ا Professional learning required?	Processes altered
Pr Asses:	Processes Used Students on target to goal What do the	students know?	Students needing additional support			Processes Used

Data-Driven Decision Making Model

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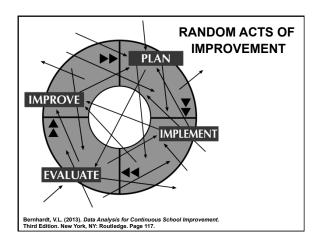
THE *FUTURE*

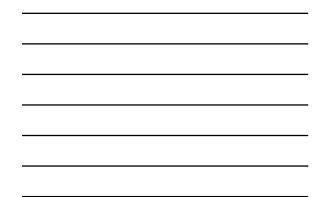
The *FUTURE* is not some place we are going to, but one we are creating. The paths are not to be found, but made, and the activity of making them, changes both the maker and the destination.

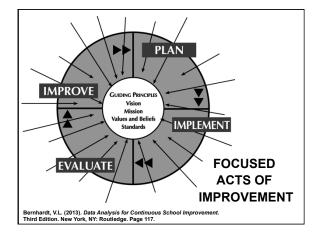
> John Schaar Professor and Political Theorist

PRECONDITIONS FOR SCHOOL IMPROVEMENT

- Instructional Coherence.
- A Shared Vision for School Improvement.
- Data-Informed Decision Making.









CREATING	PLAN	
A VISION AND	GOALS/OBJECTIVES	
MISSION		
Comprehensive Data Analysis	Mission	
Best Practices	PURPOSE	
Learning		
Bernhardt, V.L. (2013). Data Analysis for Continuous School Improvement. Third Edition. New York, NY: Routledge. Page 359.		

LEADERSHIP

"Leadership is the capacity to translate

vision into reality."

Warren G. Bennis

LEADERSHIP

- Assists everyone in the organization in implementing the vision.
- Structures in alignment with the vision.
- Roles and responsibilities.
- Effective meetings.

ELEMENTS OF EFFECTIVE LEADERSHIP STRUCTURES

Important elements of *effective leadership structures* include:

- Partitioning of all school staff in a manner that makes sense for supporting the implementation of the vision.
- Clarifying purposes and roles and responsibilities of all teams.
- Identifying times to meet and keeping them sacred.

STRUCTURES FOR COLLABORATION

"Collaboration is vital to sustain what we call profound or really deep change, because without it, organizations are just overwhelmed by the forces of the status quo." Peter Senge

STRATEGIES FOR TEACHERS

- Using data to improve teaching and learning will not happen on its own.
- We must build the collaborative structures, inspire the vision of effective teaching and data use, and encourage strategies to make it all happen.

STRATEGIES THAT LEAD TO EFFECTIVE DATA USE

Five preconditions for effective use of student learning data:

- 1. The use of appropriate data;
- 2. A shared vision;
- 3. Leadership encouragement and support;
- 4. Structures for collaboration; and
- 5. Strategies to support each other in the attainment of new teaching skills.

QUALITY PLANNING

"Vision without action is merely a dream. Action without vision just passes the time. Vision with action can change the world."

Joel A. Barker

SCHOOL IMPROVEMENT PLANS

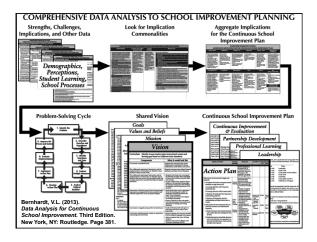
What are the components of an excellent continuous improvement plan?

SCHOOL IMPROVEMENT PLANS

- Implement Shared Vision.
- Include all staff from where they are . . .
- Support staff in implementing the vision.
- Bring all staff forward.

SCHOOL IMPROVEMENT PLANS

- Grounded on standards
 implementation.
- Focused on teacher administrator actions, not student actions.
- Monitor vision implementation.





"You've got to think about big things while you're doing small things, so that all the small things go in the right direction."

- Alvin Toffler

"However beautiful the strategy, you should occasionally look at the results."

Winston Churchill Former British Prime Minister As quoted at INSEAD Knowledge CONTINUOUS IMPROVEMENT AND EVALUATION "Continuous improvement causes us to think about upstream process improvement; not downstream damage control." *Teams & Tools*

CONTINUOUS IMPROVEMENT AND EVALUATION

- Evaluate all parts of the system.
- Align elements to vision.
- Systems thinking.
- Next steps.

MONITORING SCHOOL PROGRAMS AND PROCESSES

If you are not monitoring

- and measuring program
 - implementation, the
 - program probably

does not exist.

EVALUATING SCHOOL PROGRAMS AND PROCESSES

You cannot evaluate

a program that you

cannot describe.

MONITORING AND EVALUATING PROGRAM IMPLEMENTATION

If you can describe what a program will look like when implemented, you can monitor its implementation, and evaluate its impact.

Thank You! Enjoy your Conference!

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