

This tool is intended to help teacher preparation program leaders facilitate conversations about data use, creating a common language within organizations and calibrating understanding across team members.

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Deans for Impact Data Diagnostic Tool

Purpose of the diagnostic tool

This tool outlines a developmental journey of a teacher preparation program to become more data-informed. Using this tool provides a structured method to review and describe a program's current use of data, where its areas of strength are, and where areas for growth exist. It illustrates what effective data use for continuous program improvement could look like, providing a roadmap for programs looking to improve their use of data. Because teacher preparation programs are different and operate in different contexts, the development of a program's capacity to use data will not look the same in every place, nor follow this outline perfectly, nor should it. This tool is not intended to suggest that there is a single way to approach data use for continuous improvement within teacher preparation programs, but rather to help deconstruct a complex process into specific checkpoints that our work with teacher preparation programs suggest are important in developing a program's capacity to use data for continuous program improvement.

The tool is divided into four focus sections that our work with teacher preparation programs across the country suggest are important for creating the conditions to use data for continuous program improvement:

- developing shared understanding
- collecting, organizing, and analyzing data
- organizing people to learn
- using data for program improvement

The tool is intended to help teacher preparation program leaders facilitate conversations about data use, creating a common language within organizations and calibrating understanding across team members. This tool is NOT intended for evaluative purposes.

Not Yet Started	Emerging	Developing	Sustaining
 The majority of program personnel view formal data use activities as something they have to do for compliance purposes (e.g., state reporting requirements, accreditation). 	 Some program personnel view formal data use activities as valuable for informing program improvement. 	 Most program personnel view formal data use activities as valuable for informing program improvement. 	 Most program personnel view forma data use activities as valuable for informing program improvement.
 The majority of program personnel do not consistently engage with and use data to inform program improvement. 	 Some program personnel engage with and use data to inform program improvement though these efforts are often isolated and inconsistent. 	 Most program personnel engage with and use data to inform program improvement and these efforts occur somewhat regularly. 	 Most program personnel engage with and use data to inform prograi improvement and these efforts occur regularly.
 Program leadership does not prioritize or model the use of data for program improvement. 	 Program leadership sometimes prioritizes or models the use of data for program improvement but it is inconsistent or infrequent. 	 Program leadership often prioritizes or models the use of data for continuous program improvement. 	 Program leadership consistently prioritizes and models the use of data for continuous program improvement.
		 Data use activities to inform program improvement sometimes encourage collaboration across different program personnel. 	 Data use activities to inform program improvement consistently encourage collaboration across different program personnel.

B. COMMON UNDERSTANDING AND INTERPRETATION OF TEACHER PREPARATION COMPETENCIES

Not Yet Started	Emerging	Developing	Sustaining
 Coursework faculty, supervisors, mentor teachers, and school district partners each have their own understanding of competencies important for beginning teachers based on their individual values, beliefs, and priorities. 	 There is agreement among and between some coursework faculty, supervisors, mentor teachers, and school district partners on important competencies for beginning teachers, but there may be disagreement about the level of mastery expected for beginning teachers and/or what these competencies look like in practice. 	 There is agreement among and between most coursework faculty, supervisors, mentor teachers, and school district partners on important competencies for beginning teachers, but there may be disagreement about the level of mastery expected for beginning teachers and/or what these competencies look like in practice. 	 There is agreement among and between coursework faculty, supervisors, mentor teachers, and school district partners on important competencies for beginning teachers, the level of mastery expected for beginning teachers, and what these competencies look like in practice. The competencies and level of mastery expected are regularly revisited.
 Candidates each have their own understanding of competencies important for beginning teachers and the level of mastery expected. 	 These important competencies and the level of mastery expected for beginning teachers are communicated to candidates, but may only be communicated a few times. 	 These important competencies and the level of mastery expected for beginning teachers are communicated consistently to candidates. 	 These important competencies and the level of mastery expected for beginning teachers are known and can be articulated by all candidates.
EVIDENCE			

C. OBSERVATIONS TO INFORM COMMON UNDERSTANDING

Not Yet Started	Emerging	Developing	Sustaining
 Program leadership does not communicate to program personnel that observations of candidates are an important way to develop and sustain common understanding and interpretation of effective candidate practice across faculty and staff. 	 Program leadership team communicates to program personnel that observation of candidate practice is an important way to develop and sustain common understanding and interpretation of effective candidate practice. 	 Program leadership team communicates to program personnel that observation of candidate practice is an important way to develop and sustain common understanding and interpretation of effective candidate practice. 	 Program leadership team communicates to program personnel that observation of candidate practice is an important way to develop and sustain common understanding and interpretation of effective candidate practice.
 Program personnel that teach coursework focus on candidate performance solely in the courses that they teach. 	 Few program personnel outside of those responsible for directly supervising student teaching observe candidate practice either in classroom settings or by reviewing video. 	 Some program personnel outside of those responsible for directly supervising student teaching observe candidate practice either in classroom settings or by reviewing video. 	 Most program personnel outside of those responsible for directly supervising student teaching observe candidate practice either in classroom settings or by reviewing video.
EVIDENCE			

	D. STRUCTURES TO ENSURE COMMON UNDERSTANDING IN PRACTICE			
7	Not Yet Started	Emerging	Developing	Sustaining
	 Teacher educators use various rubrics to measure candidate instructional skill across the program. 	 A common rubric to measure candidate instructional skill is used, but may not reflect the agreed- upon competencies. 	 A common rubric to measure candidate instructional skill is used, and the rubric reflects the agreed- upon competencies. 	 A common rubric to measure candidate instructional skill is used, and the rubric reflects the agreed- upon competencies. The common rubric is used consistently by all who support candidates in the field.
	 Teacher educators do not discuss expectations for candidates and trends in candidate performance. 	 Teacher educators rarely discuss expectations for candidates and trends in candidate performance. When conversations do occur, they may focus on logistics or on issues of particular candidates. 	 Teacher educators regularly discuss expectations for candidates and trends in candidate performance, but this happens informally. 	 There are formal structures in place for teacher educators to regularly discuss expectations for candidates and trends in candidate performance.
			 Program leadership makes time to develop and sustain common understanding and interpretation of teacher preparation competencies between coursework faculty, supervisors, mentor teachers, and school district partners, though this is inconsistent or infrequent. 	 Program leadership consistently makes time to develop and sustain common understanding and interpretation of teacher preparation competencies between coursework faculty, supervisors, mentor teachers, and school district partners.
	EVIDENCE			

Not Yet Started	Emerging	Developing	Sustaining
 Only those responsible for data collection know the data collection procedures and these may vary year to year. 	 Some of the program's data collection procedures are standardized and well- documented, mapping out what data is being collected, by whom, and when. 	 Program's data collection procedures are standardized and well-documented, mapping out what data is being collected, by whom, and when. 	 Program's data collection procedures are standardized and well-documented, mapping out what data is being collected, by whom, and when, and are routinely revisited.
 Data may be collected due to historical needs (e.g., previous research, grant-funded activities, etc.), rather than the current needs of the program. 	 Rationale for collection of each data source has not been clearly articulated. 	 Rationale for collection of each data source has been clearly articulated. 	 Rationale for collection of each data source has been clearly articulated, and is routinely revisited.
 Program is primarily collecting data for compliance purposes such as accreditation, program approval, or mandated federal, state, or institutional reporting. 	 Program is collecting data to answer ad hoc questions only. 	 Program is collecting data aligned to defined inquiry questions. 	 Program is collecting data aligned to defined inquiry questions, and these inquiry questions and the aligned data are routinely revisited
EVIDENCE			

data

<u> </u>	B. HIGH-QUALITY DATA F	ROM MULTIPLE SOURCES		
$ \bigcirc $	Not Yet Started	Emerging	Developing	Sustaining
ollecting	 Program collects information for program monitoring using internally developed tools that may not have evidence of validity or reliability. 	Program collects and uses few sources of high quality data, relying on data of inconsistent quality to monitor ongoing performance.	 Program collects and uses multiple sources of data, including measures of program impact, most of which are high quality, to monitor ongoing performance. 	 Program collects and uses multiple sources of high-quality data including measures of program impact to monitor ongoing performance.
, organizing, and a	 Program does not train and calibrate observers of candidate performance to ensure reliability and validity of observer scores and/or does not use multiple observers/observations. 	 Program trains, but does not calibrate observers of candidate performance to ensure reliability and validity of observer scores, and/or does not use multiple observers/observations. 	 Program trains and occasionally calibrates observers of candidate performance to ensure reliability and validity of observer scores and uses multiple observers/ observations, but this happens only informally. 	 Program regularly trains and calibrates observers of candidate performance through formal structures to ensure reliability and validity of observer scores and uses multiple observers/observations.
	EVIDENCE			
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$\left(\begin{array}{c} \\ 0 \end{array} \right)$	Not Yet Started	Emerging	Developing
llecting,	 Programs rely solely on program personnel with other competing commitments to oversee the collection, organization, and analysis of data. 	Program leadership has invested in dedicated personnel time to oversee the collection, organization, and analysis of data, but this may not be sufficient to meet the needs of the organization.	 Program leadership has invested sufficiently in dedicated personnel time to oversee the collection, organization, and analysis of data
organizin		 Due to limited capacity, individuals responsible for overseeing data collection and analysis are primarily reactive in ensuring data systems and reports are responsive to changing program needs over time. 	 Individuals responsible for overseeing data collection and analysis sometimes have the capacity to be proactive in ensuring data systems and reports are responsive to changing program needs over time.
g, and and		 Individuals responsible for overseeing data collection and analysis rarely have capacity to support program personnel with understanding, interpreting, and making use of available data for program improvement. 	 Individuals responsible for overseeing data collection and analysis sometimes have the capacity to support program personnel with understanding, interpreting, and making use of available data for program improvement.
alyz	EVIDENCE		'

	capacity to be proactive about ensuring data systems and reports are responsive to changing program needs over time.
•	Individuals responsible for overseeing data collection and analysis consistently have the capacity to support program

Sustaining

Program leadership has invested sufficiently in dedicated personnel

time to oversee the collection,

Individuals responsible for

overseeing data collection

and analysis regularly have the

organization, and analysis of data.

capacity to support program personnel with understanding, interpreting, and making use of available data for program improvement.

D. DATA AVAILABLE AND ACCESSIBLE TO MANAGE PROGRAMS*			
Not Yet Started	Emerging	Developing	Sustaining
 Program data reside mostly on paper or on individual spreadsheets. 	 Some data is housed centrally, but much of the data resides in disparate systems and is rarely linked together. 	 Data reside in a few different places, but can be linked by systems or staff members. 	 Majority of program data are collected, stored, and reported through a centralized system.
 Only a few people are responsible for data collection and have access to these data. 	 Access to program data are granted to some individuals, but not in a timely manner. 	 Data systems provide appropriate access to program data to program personnel. Program data are generally available in a timely manner. 	 Data systems consistently provide appropriate access to program data to program personnel. Program data are available in real time, with tools to easily disaggregate and manipulate data.
		 Informed by Strategic 	Data Project "The Strategic Use of Data Rubric"
EVIDENCE			

E. DATA PRESENTED EFFE	CTIVELY		
Not Yet Started	Emerging	Developing	Sustaining
 Program data are not displayed or presented publicly. 	 Program data are displayed in ways that are visually over- complicated or incomplete, making the work of interpreting the data onerous for program personnel. 	 Program data are sometimes displayed in ways that are visually effective, making the work of interpreting the data more manageable for program personnel. 	 Program data are consistently displayed in ways that are visually effective, making the work of interpreting the data more manageable for program personnel.
	 Data presentation does not include preliminary disaggregation and analysis, making it difficult to identify trends and areas for improvement. 	 Data presentation sometimes includes preliminary disaggregation and analysis, making it easy to identify trends and areas for improvement. 	 Data presentation consistently includes preliminary disaggregation and analysis, making it easy to identify trends and areas for improvement.
EVIDENCE			

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A. DEFINED ROLES AND EX	XPECTATIONS FOR DATA US	E	
Not Yet Started	Emerging	Developing	Sustaining
The use of data is viewed as the purview of only a few individuals in the program.	 There are clear definitions for roles and expectations in using data for program improvement, but these may be limited to a few program personnel who have primary responsibility for this work. There is little clarity around roles and expectations for how others across roles and levels should use data for program improvement. 	 There are clear definitions for roles and expectations in using data for program improvement across a range of program personnel and across a range of levels of the institution, but they may not be incorporated into job descriptions. 	 There are clear definitions for roles and expectations in using data for program improvement across a range of program personnel and across a range of levels of the institution, and they are incorporated into job descriptions. These roles and expectations are regularly revisited.
 Program leadership has not explicitly prioritized using data for program improvement. 	 Program leadership makes clear that using data for program improvement is a priority, but has not made tradeoffs to free up program personnel time to learn from data. 	 Program leadership makes clear that using data for program improvement is a priority, and makes explicit the tradeoffs that have been made to free up program personnel time to learn from data. The work of using data for program 	 Program leadership makes clear that using data for program improvement is a priority, and makes explicit the tradeoffs that have been made to free up program personnel time to learn from data. The work of using data for program
		improvement is occasionally rewarded and recognized.	Improvement is consistently recognized and discussed in meetings with all program personnel.
			 Program leadership consistently rewards those using data for program improvement via resource allocation and through performance and promotion procedures.
EVIDENCE	1	1	1

0	Not Yet Started	Emerging
rganizinç	 Faculty meetings primarily focus on administrative topics. 	 Program personnel have occasional, scheduled time review program data and o program improvement.
g people		 This time often gets used for purposes.
to		
learn		

. PROTECTED TIME PROVIDED TO COLLABORATIVELY REVIEW DATA AND WORK ON PROGRAM IMPROVEMENT

jing	Developing	Sustaining
l have uled time to uta and discuss nent.	 Program personnel have regular, scheduled time to review program data and discuss program improvement. 	 Program personnel have regular, scheduled time to review program data and discuss program improvement in program and course- alike teams, including discussion of specific courses, assignments, and assessments.
ts used for other	 This time sometimes gets used for other purposes, but is largely focused on reviewing data for program improvement. 	This time is protected by program leadership from other uses and leaders make clear this is a priority by attending meetings to discuss data and work on program improvement.

EVIDENCE

C. PLANNED AND STRUCTURED COLLABORATIVE REVIEWS				
Not Yet Started	Emerging	Developing	Sustaining	
 Meetings to discuss program data are held, but there is no clear ownership for the agenda and process. 	 Meetings to discuss program data are not carefully planned, with weak facilitation. 	 Meetings to discuss program data sometimes have clear purpose, well-planned agenda, and strong facilitation. 	 Meetings to discuss program data consistently have clear purpose, well-planned agenda, and strong facilitation. 	
	 Discussion protocols and norms are not consistently used when looking at data collectively. 	 Discussion protocols and norms are established and sometimes used when looking at data to encourage collaborative investigation, to reduce power dynamics among program personnel and ensure the expertise of each participant is respected, to focus on evidence, and ensure an articulation of next steps based on data. 	 Discussion protocols and norms are established and consistently used when looking at data to encourage collaborative investigation, to reduce power dynamics among program personnel and ensure the expertise of each participant is respected, to focus on evidence, and ensure an articulation of next steps based on data. Protocols and norms are regularly revisited and revised. 	
		 Program leadership occasionally models how to build trust and draw on the expertise of all program personnel, how to focus on data and evidence to support claims, and how to move past reflection based on data to think about action steps. 	 Program leadership consistently models how to build trust and draw on the expertise of all program personnel, how to focus on data and evidence to support claims, and how to move past reflection based on data to think about action steps. 	
EVIDENCE				

D. EXTERNAL STAKEHOLDERS INVOLVED					
Not Yet Started	Emerging	Developing	Sustaining		
 Program data is looked at internally. 	 Appropriate external stakeholders are occasionally provided data on the program, but not included in discussions to analyze or interpret the data. 	 Appropriate external stakeholders are regularly provided data on the program, and included in collaborative discussions to analyze or interpret the data. 	 Appropriate external stakeholders are regularly provided data on the program, and included in discussions to analyze or interpret the data. The purpose, structure, and content of these discussions are routinely revisited by the included stakeholders. 		
		 Program leadership occasionally reminds program personnel of the importance of engaging external stakeholders in discussions of candidate data and models this behavior through conversations with external stakeholders grounded in data. 	 Program leadership consistently reminds program personnel of the importance of engaging external stakeholders in discussions of candidate data and models this behavior through conversations with external stakeholders grounded in data. 		
EVIDENCE					

A. MONITOR OVERALL PROGRAM PERFORMANCE				
Not Yet Started	Emerging	Developing	Sustaining	
 There is no formal program evaluation or review process. 	 Program review process is loosely defined. 	 Program review process is clearly defined. 	 Program review process is clearly defined and this process is routinely revisited. 	
	 Evaluations of program performance lack clearly defined expectations and measurable outcomes. 	 Evaluations of program performance are based on clearly defined expectations and measurable outcomes. 	 Evaluations of program performance are based on clearly defined expectations and measurable outcomes, and these expectations and outcomes are routinely revisited. 	
	 Reviews of program progress are conducted ad hoc. 	 Reviews of program progress are conducted on a recurring basis, but this happens infrequently. 	 Reviews of program progress are conducted on a regular and recurring basis. 	
EVIDENCE				

Not Yet Started Emerging Developing Focus areas for improvement Data are looked at by select Program data are looked are determined based on the program personnel to identify at by designated teams to areas of strenaths and identify areas of strengths and opinions of individual program personnel or program leadership. weaknesses in the program. weaknesses in the program. Focus area(s) for improvement Focus area(s) for improvement are selected, but few program are intentionally selected: some personnel pay attention to the program personnel pay attention focus area(s). to the focus area(s).

Interventions are selected

improvement.

are not selected.

to address focus area(s) for

Goals for improvement are set

area(s) for improvement, and

but they are not aligned to focus

assessments to measure progress

Reviews of progress toward goals

are conducted infrequently.

The improvement cycle (from

focus areas and interventions.

implementation and monitoring.

and review of progress) happens

data review, selection of

occasionally.

B. REPEATED CYCLES FOR CONTINUOUS IMPROVEMENT

- Interventions are strategically selected to address focus area(s) for improvement.
- Goals for improvement are set and they are aligned to focus area(s) for improvement; asssessments to measure progress are selected, but not intentionally.
- Reviews of progress towards goals are conducted regularly and consistently.
- The improvement cycle (from data review, selection of focus areas and interventions, implementation and monitoring, and review of progress) happens regularly, with at least two improvement cycles occurring within an academic year.

Sustaining

- Program data are reviewed by designated teams to identify areas of strengths and weaknesses in the program related to the focus area(s) for improvement. Focus area(s) for improvement are intentionally selected; all program personnel pay attention to the focus area(s).
- Interventions are strategically selected based on data and research to address focus area(s) for improvement.
- Goals for improvement are set and they are aligned to focus area(s) for improvement; assessments to measure progress are intentionally selected.
- Reviews of progress towards goals are conducted regularly and consistently, and learnings are used to inform future improvement cycles.
- This improvement cycle (data review, selection of focus areas and interventions, implementation and monitoring, and review of progress) happens regularly, with three or more improvement cycles occurring within a year.
- The work is distributed across leaders at different levels, broadening the group of people involved in learning from data, and drawing on the interests and expertise of program personnel.

EVIDENCE

Interventions are undertaken on

Goals for improvement are not

progress are not selected.

Results are not tracked or

reviewed

set, and assessments to measure

an ad hoc basis.

Appendix A.

Suggested use of the tool

- Share a copy of this tool with each individual you want to participate in the diagnostic process.
- Have each person read through the entire diagnostic tool below. In each row, highlight the Stage of Development (Not Yet Started, Emerging, Developing, Sustaining) that best describes the organization at this moment in time. They may choose to highlight words or phrases from more than one stage in a row. Use the Evidence box to record evidence and rationale.
- As a group, convene to share each person's diagnosis, discussing areas where people in the group marked different stages to understand different perspectives. Identify areas of strength, and areas for growth particularly areas where the organization wants to make specific progress in the next 3-6 months.

Appendix B.

The development of the tool

As we have worked with leaders of educator-preparation programs, one question comes up again and again: "How does a program build the culture, process, systems and structures to make improvements to programs?"

We set out to investigate this question, visiting 17 programs across the country over the last two years, speaking with candidates, program leaders, faculty, staff, and district partners, and observing program work in action. At the same time, we examined existing research and tools, both within educator preparation and beyond. In particular, we learned from the work of Strategic Data Project, Datawise, and TPI-US. The site visits and our research surfaced several themes that seemed important to programs that had begun to see improvement in this area:

- developing shared understanding
- collecting, organizing, and analyzing data
- organizing people to learn
- using data for program improvement

We drafted this tool as a way to describe a continuum of organizational development around each of these themes. We have gotten feedback from 50+ program leaders who have engaged with this tool. This feedback was carefully considered and, when appropriate, incorporated into new iterations of the tool. We are continuing to refine the tool based on ongoing feedback from users.

Glossary of Terms

The data diagnostic tool assumes that those using the tool have shared understanding related to several key terms. Below we provide definitions for these terms based on insights generated from our work with educator-preparation programs across the country. Definitions for some of these terms may need to be refined to ensure they are relevant in your context -- those terms are denoted with an *.

- Teacher educators* A teacher educator may be anyone within the program that has teaching or supervisory responsibilities for teacher candidates (e.g., coursework instructors, supervisors, cooperating teachers).
- Inquiry question An inquiry question is the question that helps focus and guide improvement efforts, providing a lens for data collection, interpretation, and action. An inquiry question is: 1) focused on candidate learning, performance, and/or outcomes; 2) relevant and important to teacher education stakeholders; 3) answerable with programmatic data that can reasonably be collected; 4) defined by specific parameters (e.g., population, timeframe); 5) clearly defined using terms to ensure common understanding across teacher education stakeholders; 6) intended to shed light on an issue for which the answer is not already known.
- High quality data High quality data are data generated using instruments and/or methods that are considered valid, reliable, and useful for the intended purpose.
- Program impact measures* Program impact measures may include P-12 student learning outcomes, teacher evaluations, observations of teaching effectiveness, employer and completer satisfaction, and retention.
- Program data Program data include relevant quantitative and qualitative data collected from current and former teacher candidates at enrollment, while progressing through the program, and following graduation from the program that may be used to better understand teacher candidate knowledge and skills or program performance for the purpose of informing continuous improvement. This might include data on teacher candidate academic performance (i.e., GPA, edTPA scores, licensure assessment scores) and demographics (i.e., gender, race/ ethnicity, age), key program assessments, observations of student teaching, program impact measures or other relevant data sources.
- Program improvement A continuous, ongoing effort to achieve measurable improvements in teacher candidate readiness and performance through systematic changes in program design, delivery, and content. This includes a continuous process of gathering program data, analyzing this information to identify areas of strength and areas for growth, making adjustments to generate improvements, and assessing the efficacy of those adjustments for improving teacher candidate readiness and program performance.
- Program personnel Program personnel includes all faculty, program staff, teacher educators including supervisors and program leadership.
- Program leadership* Program leadership may include deans, associate/assistant deans, department chairs, program directors, directors of clinical and field experience, directors of data and assessment, and/or other faculty and staff involved in program leadership.
- External stakeholders* External stakeholders may include school district partners, alumni, and other non-program personnel or organizations with whom the program has a relationship with related to the initial training and/or ongoing development of current and former teacher candidates.

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While not an exhaustive list, these are the resources that most directly informed the development of the Deans for Impact Data Diagnostic Tool ©.

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