The Elementary and Secondary Education Act (ESEA) was finally reauthorized as the Every Student Succeeds Act (ESSA) this past December. The reauthorization was long overdue and with its passage comes much hype and some misinformation about what the law permits and does not permit. The Assessment and Accountability Demonstration Authority written into ESSA was based closely on what has been learned in New Hampshire with the Performance Assessment of Competency Education (PACE) pilot, a key feature of New Hampshire’s assessment and accountability landscape. There is little doubt that NH will apply for and likely will be awarded an opportunity to continue the PACE work through the Demonstration Authority. Therefore, it is important that any school accountability system designed for all schools in NH must be coherent and support the inclusion of the PACE system. The purpose of this brief is to outline some of the key accountability provisions of ESSA and offer some considerations for New Hampshire as it moves to meet the accountability requirements of the law.

ESSA Accountability Overview

The ESSA-required accountability system must be **operational in the 2017-2018 school year**, which likely necessitates a pilot in the 2016-2017 school year. Therefore, states are now in a position of preparing for a pilot in less than nine months. This requires a fairly quick design and development process. There are two main components of the ESSA accountability system:

1. **Reporting requirements**: States must continue to report by all required subgroups specified under NCLB.
2. **School accountability determinations**:
   a. School accountability categorizations must be based on state-determined goals and methodology with some constraints, which are discussed below.
   b. Goal setting is an important aspect of ESSA. Under NCLB, the goal of 100% proficiency by 2014 was established for all states statutorily, with a limited number of alternative approaches allowed under NCLB waivers. Under ESSA states are required to determine status (point in time) and improvement goals for:
      - Academic achievement (status or improvement)
• Graduation rate
• Sub-groups that are behind

**Accountability Indicators**

It is important to keep in mind that while ESSA outlines the basic structure of state accountability systems, the specifics of the accountability design will need to be worked out in the rule making process. However, it is important to begin planning for the accountability system now because, as noted, the timeline for implementing the new system is quite short. The goal setting requirements described above are a key aspect of the accountability design. Additionally, the law describes five types of indicators to be included in a school accountability system:

1. **Academic achievement** is also referred to as status or point-in-time indicators. Under NCLB, achievement was reported as the percentage of students scoring at the proficient level or higher. Percent above cut (e.g., proficient) has been criticized for many measurement (e.g., reduction of information) and consequential (e.g., focusing on “bubble kids”) reasons, but it does have the advantage of familiarity and relative ease of understanding. While states are still required to report percent proficient, ESSA may allow for approaches that rely on information throughout the achievement distribution such as an index system (something familiar in NH) or average (i.e., mean) scale scores.

2. **Another valid and reliable academic indicator** must be included in the accountability system. The law offers student growth and achievement gap closure as two potential examples, but it is not limited to those examples. That said, measuring achievement gaps is one of the trickiest things to do well in educational measurement. Simple approaches such as computing the differences in percent proficient are almost always wrong, while more technically correct approaches such as computing the area between two performance distributions or even effect sizes are a bit more challenging to explain. As difficult as it is to measure achievement gaps at any point in time, the measurement challenges associated with measuring changes in achievement gaps are enormous. On the other hand, there are well-established methods for documenting student growth such as student growth percentiles (SGP), currently being used in NH.

3. **Graduation rate** must be part of the accountability system for high schools. Further, extended graduation rates such as five and six year rates can be included at the state’s discretion.

4. **English language proficiency** rates and progress is a new accountability requirement under ESSA, at least under Title I accountability. This is largely because Title III accountability has now been rolled into Title I. This is one of the aspects of ESSA that will need rules to help us better understand the requirements. For example, one of the key tenets of accountability design is that the results of applying the accountability rules should not privilege or reward schools based on the demographic characteristics of the school. Given that English language proficiency is a relevant indicator in only a handful
of schools in NH, we are going to have to do some thoughtful design work to ensure that schools that are responsible for developing English language proficiency in their students are held accountable, but that the presence of this indicator does not automatically disadvantage the school in accountability determinations.

5. ESSA also requires the use of an indicator of school quality or success that meaningfully differentiates and is valid, reliable, and comparable. My colleague, Chris Domaleski, has termed this the “unicorn indicator” because it is something we have all heard about but never really seen. It is clear that the authors of ESSA wanted to broaden notions of school quality by including indicators in the system other than those based on test scores. I discuss some ideas for this fifth indicator in more detail below.

The Fifth Indicator

Most of the indicators required under ESSA are at least familiar, even if the specific metrics proposed may be new under ESSA. However, the types of metrics and indicators suggested for the fifth indicator are relatively new and generally have not been used in accountability systems. The specific passage from the law defining this indicator follows:

(v)(I) For all public schools in the State, not less than one indicator of school quality or student success that—

(aa) allows for meaningful differentiation in school performance;

(bb) is valid, reliable, comparable, and statewide (with the same indicator or indicators used for each grade span, as such term is determined by the State); and

(cc) may include one or more of the measures described in subclause (II).

(II) For purposes of subclause (I), the State may include measures of—

(III) student engagement;

(IV) educator engagement;

(V) student access to and completion of advanced coursework;

(VI) postsecondary readiness;

(VII) school climate and safety; and

(VIII) any other indicator the State chooses that meets the requirements of this clause.

As can be seen above, there are several psychometric characteristics required of the indicator—valid, reliable, and must differentiate performance—but, in general, the options for what can be used as an indicator are fairly wide open. That said, it will be important to consider each of these technical requirements as we think about potential indicators. While reliability is easily defined, the validity of an indicator (within a system context) is less clear but needs to be based on a well-
articulated theory of action. Our current thinking about “differentiate” is that the law intends for indicators to have a fair amount of true variability among schools compared with indicators such as elementary school attendance that essentially acts as a constant in the system.

We need to be thoughtful about this additional indicator regarding how it fits with our conceptions of educational accountability and school quality. Do we think this additional indicator will broaden the “construct” of school quality because previous test-based accountability systems have missed important aspects of school effectiveness? On the other hand, some might consider these indicators useful for accountability systems because they serve as precursors to the achievement and growth academic indicators. For example, some might want to include an indicator of student engagement because they think it is a precursor to higher levels of student achievement, while certain social-emotional learning indicators help broaden our characterizations of school quality. Obviously, there can be considerable overlap among these conceptions.

These distinctions are important, because it highlights how one approaches the development and validation of the indicator. If the indicator represents something distinct from traditional test-based academic achievement, then we would not necessarily expect a strong relationship between assessment performance and favorable performance on this indicator. For example, one might think of a school engagement initiative that encourages students to participate in community service or other applied projects. Such engagement may be thought to help students hone leadership skills and other characteristics associated with being responsible global citizens, which are not measured well on tests. It stands to reason, then, that validating the indicator with assessment data would be misplaced. Rather, we would seek other data thought to affirm our understanding of the construct. On the other hand, one might operate from a perspective that encouraging students to be engaged in community service or other applied projects increases motivation and hones critical thinking skills essential to academic success. With this view, one expects students who are more engaged to perform better on academic assessments. If not, our understanding of the construct is less certain.

There is no question that the indicators listed as examples in the statute could provide rich information to schools and districts beyond test scores. However, many of the potential indicators such as school climate, student or teacher engagement, or other social-emotional indicators are often based on self-reported information through surveys or other similar approaches. We must carefully consider “Campbell’s Law” when using any indicator, but especially those easily corruptible if they are used as part of a high stakes (or at least publicly reported) accountability systems. This “law” is drawn from a paper written by experimental psychologist, Donald Campbell and presented at Dartmouth College in 1976.
The more any quantitative social indicator is used for social decision-making, the more subject it will be to corruption pressures and the more apt it will be to distort and corrupt the social processes it is intended to monitor\(^1\).

While over 40 years old, this “law” has been well documented many times over since 1976, but especially in the past 15 years. The double-edge sword described by Campbell is that not only will the indicator be potentially corrupted, but the underlying trait or quality we are trying to measure will be distorted as well. In other words, we need to be really thoughtful and careful in our accountability system design and especially in the design of this fifth indicator.

One of the ways we may minimize the corruption pressures is to consider multiple indicators for this category. For example, if this indicator was worth 15-20\% of the overall rating, by using 3-4 indicators, each one would be worth only 5\% of the overall score, which would lessen the risk of corruption because the potential reward is so small. Another way would be to consider indicators that required clear demonstrations of evidence where corruption may be minimized.

We, at the Center for Assessment, have been advocating for quite some time, that accountability systems need to be designed according to a well-articulated theory of action that clearly lays out the intended goals and outcomes as well as proximal and intermediate indicators and the mechanisms and processes necessary to realize these goals. This is a critical first step in designing the system, but it is especially critical when selecting/creating an indicator or indicators in this category. If we agree that accountability systems should incentivize the types of behaviors we want to see and disincentivize the behaviors we do not want to see, then we need to think about this fifth indicator in this light.

Part of the thinking about the theory of action for an accountability system is that it is both constrained and informed by the political, educational, and financial context in which the accountability system sits. The Performance Assessment of Competency Education (PACE) is a key feature of New Hampshire’s assessment and accountability landscape. The state has a commitment to support and enhance districts’ readiness to participate in PACE with a goal of having all districts, based on individual district choice, ready to participate effectively in PACE (for more information about PACE, see: http://education.nh.gov/assessment-systems/documents/overview.pdf). One of the key needs to support PACE readiness is for district educators to develop a deep understanding of assessment design and use, particularly in terms of complex, performance-based assessment. The state currently supports several professional development opportunities to help develop such capacity in districts, but it is limited to districts that affirmatively express an interesting in joining PACE in the near future. As important as it is for educators to learn the mechanics of performance assessment design, it is

even more important that they understand what it means for students to learn subject matter deeply as well as understanding how to facilitate and evaluate deeper learning on the part of students. Therefore, the state should consider using the ESSA accountability system to support behaviors aligned with the PACE goals.

Several of the indicators provided as examples, such as student and educator engagement, may be related to these PACE goals, but they are likely too indirect to incentivize the increased productive use of deeper learning assessments that we hope to see on a large scale. Before considering potential indicators or types of indicators that may support PACE goals, it is important to remember the ESSA requirements related to this indicator. In particular, the statute requires “the same indicator or indicators [to be] used for each grade span,” which limits the flexibility a state has in tailoring different indicators to different school districts depending on need. A narrow reading of the law suggests that the same measures (e.g., school climate survey, assessment of student engagement) must be used at least for each grade span. However, a more flexible reading would suggest as long as the same indicator is used (e.g., student engagement), schools/districts may be able to use different specific measures of the same indicator. While this may be addressed in the rules, we can make a case for this latter position if we can document some degree of comparability across schools.

The statute provides an opening for considering potential indicators that would support the deeper learning that we want to incentivize for PACE. ESSA provides the example of “student access to and completion of advanced coursework” as a potential fifth indicator. While there is certain merit to such an indicator because, in part, it can be comparably measured by counting the number of students in a school participating and succeeding in IB, AP, and concurrent enrollment courses. However, such indicators do not necessarily provide evidence that teachers are improving their skills at promoting and measuring deeper learning.

So how would we fairly evaluate something as the measurement of deeper learning? As part of the PACE project we have demonstrated that we can credibly and comparably evaluate the quality of assessments being used. We have also demonstrated that teachers can reliably judge the quality of student work generated by performance assessments and can do so across districts with different student work samples. I can envision a process whereby school districts are expected to audit the rigor and quality of the student work generated within its classrooms according to state-defined rubrics. Districts would report the results of such analyses to the state. The state can create a peer review process to conduct a Queensland-type audit\(^2\) of the district

\[\text{Queensland’s School-Based Assessment program relies on audits at various levels of the system—school, district, region, and state—to evaluate and ensure comparability among different assessments used by schools throughout the state to serve important student accountability purposes.}\]
For this to work, districts would be expected to keep samples of student work (electronically) from a variety of grades and subjects and then the state would announce, relatively late in the school year, the grades and subjects from which the audit samples would be drawn. The point of the relatively late notice is an attempt to minimize corruption of having districts steer all their efforts into a limited number of grades and subjects. The state/peer review audit would be used to both provide feedback to districts on their local rating and would also be used to adjust the local ratings similar to the Kentucky writing portfolios more than 20 years ago. We have good evidence that this type of feedback on local scoring had a tremendous influence on the quality and accuracy of local scoring in Kentucky.

If evaluating the depth of learning reflected in student work appears too ambitious at this time, we can start with evaluating samples of assessments that have been administered to students. Again, we have well-vetted tools to support such evaluations, so focusing on the assessments used rather than the student work, at least at this time, is a sensible first step and also may be more politically appealing. The general process outlined above for student work analysis could be used to evaluate the quality of local assessments. A process focusing on evaluating and improving the quality of performance assessments used in schools would lay important groundwork for full participation in PACE.

NH DOE has also been supporting approaches for providing students more meaningful opportunities to develop “work-study practices.” This term, unique to New Hampshire, is called non-cognitive skills and/or social emotional learning in most other places. Indicators of social-emotional learning have received a lot of positive attention recently because such measures are a feature of the California CORE districts’ new accountability system. There is a developing body of research associated with these measures led by Boston’s Transforming Education. The constellation of the social-emotional measures in the CORE districts includes some traditional quantitative indicators such as chronic absenteeism, suspension/expulsion rates, and English language learner “re-designation” rates, but also includes survey-based measures such as school climate and student self-reports of social-emotional skills. As noted above, these surveys are at risk for their susceptibility to corruption pressures, but at least in the CORE districts, they use multiple measures to construct this indicator.

These three examples of potential fifth indicators in NH are tied to supporting the goals of the PACE initiative. The important point is that we should view this fifth indicator as an opportunity to further important state policy goals rather than as a burden of “just one more thing” to include in the accountability system. Further, states should use the time prior to 2017-2018 to try out a variety of indicators to evaluate the quality of data received and the burden associated with collecting such data.
School Accountability Determinations

School accountability categorizations must be based on state-determined goals and methodology, but like much of ESSA, there are certain federal requirements and constraints, particularly in terms of reporting. There are fewer requirements about goal setting and combining the multiple indicators. We suspect that more details will be forthcoming through the rule-making process.

Goal setting is an important aspect of ESSA. Under NCLB, the goal of 100% proficiency by 2014 was established for all states statutorily, with a limited number of alternative approaches allowed under NCLB waivers. Under ESSA states are required to determine status (point in time) and improvement goals for at least three sets of indicators:

- Academic achievement (status or improvement),
- Graduation rate, and
- Sub-groups that are behind.

The law makes reference to ambitious goals so we doubt that goals with a 25 year timeframe would pass muster. That said, states have an opportunity to be thoughtful in setting ambitious, but reasonable goals. What is not clear is the degree to which accountability determinations need to be based separately (conjunctively) on these three set of goals or whether reporting on these goals will satisfy the law. ESSA is explicit, however, that states must continue to report by all required subgroups specified under NCLB, but we are not yet sure regarding how the results of individual subgroups need to factor into accountability determinations.

ESSA offers little guidance regarding how the various accountability indicators should be combined to produce an overall accountability determination other than to require that the first four indicators in the aggregate must have “much greater” weight in the overall determination compared to the fifth indicator. Interestingly, this requirement shifted from “greater” to “much greater” in one of the last iterations of the law. We know that the rules and guidance will provide more specificity on overall determinations.

However, states need to consider the ways in which they combine indicators (or not) to be coherent with the specific goals and the overall system theory of action. For instance, not all indicators need to factor into an accountability determination as long as the required indicators are included. This means that the state can have a rich reporting system to help support accountability decisions, which may allow for the state to try out indicators that may be easily corrupted if used for accountability, but when used in a low-stakes reporting system, may provide information useful for improvement.

Compared to NCLB’s very prescriptive conjunctive approach for arriving at overall determinations for schools, ESSA appears to allow for more varied approaches for states to use to produce overall ratings. States must, starting in 2017-18 and at least once every three years
thereafter, produce a statewide category of schools for comprehensive support and improvement for schools in the following categories:

- lowest performing 5% of Title I schools,
- HS with graduation rate less than 67%, and
- schools with low performing subgroups.

State systems can produce determinations more frequently or include more performance categories.

**Educator Evaluation**

While not required, ESSA authorizes states to use funding to implement teacher and leader evaluation systems, reform teacher and school leader certification systems, improve equitable access to effective teachers and leaders for all students, and develop mechanisms for effectively recruiting and retaining teachers. Further, states are still required to disclose the steps they’re taking to evaluate and publicly report on the inequitable distribution of teachers and the qualifications of their teachers and school leaders, spelled out by high- and low- income schools and schools with high and low concentrations of students of color. Finally, ESSA enshrines into law, the Teacher and School Leader Incentive Fund Grants (TIF), with the goal of expanding performance-based compensation systems and human capital management systems for both teachers and principals.

While the absence of federally-required teacher evaluation systems under ESSA received a lot of press when the law was passed, it is clear that states can continue their efforts, with federal support, to improve the quality of state and district educator and leader effectiveness systems. Further, it is not clear how states could report on the “inequitable distribution of teachers” without some sort of systemic evaluation data. The Center for Assessment and others are currently working on some educator evaluation 2.0 approaches that may fit more coherently with a progressive school accountability system.

Finally, given ESSA’s relative silence on educator evaluation, a state could choose to include something like the “quality of educator evaluation decisions” as the fifth indicator as long as we can come to agreement about how to operationalize this indicator.
The New Hampshire Design Process

As noted above, the ESSA accountability system is required to produce operational results for the 2017-2018 school year, but must be piloted during the 2016-2017 school year. In other words, time is of the essence! It is important to get started on this work quickly, but since accountability systems are designed to instantiate stakeholder values, it is critical to avoid shortcutting opportunities for key stakeholders to provide meaningful input. However, accountability systems cannot be designed by hundreds of people, so what follows is a very high-level sketch of a process designed to both include all relevant stakeholders, but to do so efficiently.

1. There must be an internal DOE group, operating on behalf of the Commissioner (could also include the Commissioner), that can make critical policy decisions. Similarly, there must be a DOE person who is the responsible point person for this work. The technical consultant will work directly with this point person and the internal leadership group.

2. Early meetings should be convened with leaders of key stakeholder groups, such as the various associations, state board members, gubernatorial representation, and legislative leadership. These meetings will be designed to ensure that representatives understand the constraints, requirements, and opportunities available under ESSA and to ensure that the representatives understand and, to the extent possible, buy into the proposed design process. This document will serve as the foundation for these meetings. These groups should be informed of the progress on a regular basis (e.g., 2-3 months), with groups such as the district superintendents informed more regularly.

3. The DOE leadership and key stakeholders should be clear regarding the degree to which it wants to build on an existing accountability system in the state or start with a blank slate.

4. A working group—likely the accountability task force—should be charged with serving as advisors to the system designers. The membership of this group may need to be expanded to ensure that key stakeholders are appropriately represented. This group will need to meet monthly, at a minimum, to reflect on design work and to help weigh in on key value and practical decisions. This group should be convened as soon as possible because of the need to get to work. There is no need to wait for all of the meetings described in #2 to begin working with the task force.

5. The technical consultant, along with the lead DOE representative(s), will be responsible for bringing design proposals to the advisory group and reflecting the advisory group’s input in subsequent meetings.

6. The advisory group, along with other key stakeholders, will first have to explicitly articulate goals for the system. This foundation will be an important touchstone for creating a theory of action to guide the design of the full system.

7. Once the goals are agreed upon, the advisory group will turn to identifying appropriate indicators and approaches for measuring the indicators that fit with the theory of action.
8. The technical consultant and the DOE will model the various indicators and work with the advisory group to determine how best to aggregate and combine (or not) the various measures to make overall determinations.

9. The goal will be to have a system design produced by September 2016 that can be piloted through the 2016-2017 school year.

10. After the 2016-2017 pilot period, the technical consultant and the DOE representative will work with the advisory group to analyze the pilot results and propose a final design for 2017-2018.