### **Education-to-Workforce Indicator Framework**

SUPPLEMENTAL RESOURCE

## Indicators at a Glance





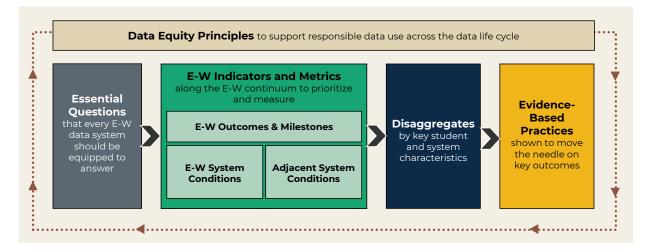






The **Education-to-Workforce Indicator Framework (E-W Framework)** is designed to promote data collection and use to advance educational and economic opportunity for all. The framework offers guidance for ethical and effective data use, essential questions and data that matter most, ways to disaggregate data to inform action, and evidence-based practices to drive positive change.

This **at-a-glance resource** offers a look into how **indicators** were selected, what information you can find about each indicator in the E-W Framework, and how they can be used by those working to improve outcomes.





### Why do indicators matter?

Policymakers, system leaders, and community members need actionable and meaningful data that empower them to **effect systems change** and **promote equitable outcomes**. To drive lasting impact, communities need to know how students are progressing and whether the right conditions are in place to help students succeed.

E-W Framework indicators encompass **individual- and system-level data** that, together, offer insights into the role education and workforce systems play in shaping outcomes, assessing and addressing disparities, and supporting educational opportunity and economic security for all.

### What are the E-W Framework indicator profiles?

Indicator profiles offer key information about **99 indicators** of outcomes, milestones, and system conditions that matter most to help every student succeed as they progress from early education through their career (see <u>page 4</u> for an overview of the 99 indicators).

Each profile includes an indicator definition, evidence about its connection to economic mobility and security, recommended metrics, and measurement guidance.

Indicators are organized by type, domain, and sector:



### **Type**

Three types of indicators account for individual performance and system-level factors.



#### **Outcomes and milestones**

Key outcomes and milestones along the E-W continuum strongly associated with people achieving economic mobility and security





#### **E-W system conditions**

Key institutional or systemic environments, policies, and practices within and across E-W systems that support positive E-W outcomes







### Adjacent system conditions

Key experiences, situations, and circumstances outside of E-W systems that support positive E-W outcomes

#### **Domain**

Three interrelated domains affect people's journeys toward economic mobility and security:

- · Academic progress and completion
- · Physical, mental, and social well-being
- · Career readiness and economic success

#### **Sector**

Four sectors of the E-W system shape people's experience as they progress from early education through their career: pre-K, K-12, postsecondary, and workforce. Each indicator profile lists the relevant sector or sectors.









The 99 indicators in the framework are not meant to be exhaustive, nor will every state or community collect every indicator, or use them all at once. You can adapt your use of indicators based on local policy priorities though it's important to examine all three types of indicators together. This is because data on system conditions, both within and adjacent to E-W systems, are essential to understand and act on student level data. The reverse is also true: data on student outcomes and milestones shed light on the performance of systems.

### How to read an indicator profile

### **Example E-W Framework indicator profile**

### High school graduation

**Indicator name** and **relevant sector(s)** (Pre-K, K-12, postsecondary, workforce)



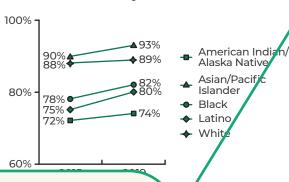






**Definition:** Students graduate from high school with a regular diploma within four, five, and six years of entering high school.

# Adjusted cohort graduation rates by race/ethnicity in 2015 and 2019



Why it matters summarizes the evidence of an indicator's predictive value and opportunities to address known disparities among priority groups.

r Education Statistics

Why it matters: High school graduation is a critical milestone along the pathway to a multitude of better life outcomes, including the likelihood of attending college. 275, 276, 277, 278, 279 In contrast, individuals who leave school before earning a high school diploma face bleak economic, social, and health prospects.<sup>280, 281, 282</sup> There are narrowing but persistent gaps in graduation rates for students from low-income households; Black, Latino, and Indigenous students; and emerging multilingual students.<sup>283</sup> For example, in 2019, 93 percent of a Asian/ Pacific Islander students and 89 percent of White students graduated on time, compared to 82 percent of Latino students, 80 percent of Black students, and 74 percent of Indigenous students.<sup>284</sup>

Recommended metric(s): Adjusted cohort

e of first-time 9th graders who graduate with a regular diploma within four, ag high school, regardless of whether they transferred schools)

Data source(s): Administrative data

What to know about measurement: High school completion is regularly reported in administ systems, and the metric definition (adjusted cohort graduation rate) has been adopted across However, states (and in some cases, districts) have leeway to set graduation requirements. For states specify non-course requirements in addition to course requirements, which also vary.<sup>285</sup> Concreases in graduation rates over time and their use for school accountability, there has been some localities are incentivized to "lower the bar" or "game" the calculation of the adjusted cohort rates.

Recommended metric(s) and data sources provide guidance on how to measure the construct.

increases in graduation rates over time and their use for school accountability, there has been some concern that localities are incentivized to "lower the bar" or "game" the calculation of the adjusted cohort rates (for example, by removing certain students from the cohort count). Although some instances of problematic practices have been documented, research suggests standards for graduations have not been lowered and the observed improvements in the data are largely substantiated.<sup>286, 287</sup>

On-time graduation in four years is most commonly reported, as it is should aim to achieve. As such, it is important to ensure equitable examining four-year graduation rates only can mask the achievem graduate (for example, special education students), so we recomme rates as well. Data systems should also collect information on wheth equivalency credential.

includes considerations about the feasibility, comparability, and risks for unintended consequences. We also note when there is

limited consensus on measurement and opportunities to advance the field.

What to know about measurement

**Source frameworks:** This indicator appeared in 13 source frameworks reviewed for this report. Our proposed measure aligns with the CORE Districts' Improvement Measures, which include four-, five-, and six-year cohort graduation rates.<sup>288</sup>

**Source frameworks** include the sources consulted that discuss the indicator or a version of it. We also note frameworks that we closely followed to develop the indicator's recommended definition and metrics to apply best practices from the field.

### How were E-W Framework indicators selected?

Indicators were selected based on guidance from leading experts and research about their power to inform local, state, and federal policy and to advance practices that promote equitable outcomes and economic mobility and security. Selection procedures included review of over 40 existing frameworks, creation of indicator review criteria with community partners, and evaluation of over 250 candidate indicators against the review criteria. To learn more visit Chapter 2 of the report.

### Indicator review criteria:

- · Is it actionable for addressing inequities?
- · Is it predictive of later education or workforce success?
- · Is it meaningful to parents, students, educators, and others working to improve outcomes?
- · Is it feasible to measure?
- · Is it comparable across contexts?
- · Is it valid for disaggregation?
- · Does it minimize unintended consequences?

	Key positive	education-to-workforce		and milestones ones strongly associated	d with economic mobility	and security	
Enrollment in quality public pre-K	Kindergarten readiness language and literacy	Kindergarten readiness cognition	Early grades on track	Consistent attendance	Positive behavior	Math and reading proficiency in grade 3	6th grade on track
8th grade on track	Math and reading proficiency in grade 8	Successful completion o Algebra 1 by 9th grade	f 9th grade on track	Grade point average	Math and reading proficiency in high school	College preparatory coursework completion	Early college coursework completion
SAT/ACT participation and performance	FAFSA completion	College applications	High school graduatio	Selection of a well- matched postsecondary institution	Senior summer on track	Postsecondary enrollment directly after high school graduation	First-year credit accumulation
First-year program of study concentration	Gateway course completion	Postsecondary persistence	Transfer (if applicable)	Postsecondary certificate or degree completion	Enrollment in graduate education	Graduate degree completion	Kindergarten readiness: social-emotional development
Kindergarten readines approaches to learning		Self-management	Growth mindset	Self-efficacy	Social awareness	Cultural competency	Civic engagement
Social capital	Mental and emotional well-being	Physical development and well-being	Successful career transition after high school	CTE pathway concentration	Industry-recognized credential	Participation in work- based learning	Digital skills
Communication skills	Higher-order thinking skills	Minimum economic return	Student loan repayment	Employment in a quality job	Economic mobility	Economic security	
<b>E-W system conditions</b> Key institutional or system environments, policies, and practices that help or hinder education-to-workforce outcomes						Adjacent system conditions Key experiences, situations, and circumstances	
ccess to quality public pre-K	Access to full-day pre-K	Access to child care subsidies	School-family engagement	Equitable discipline practices	Access to full-day kindergarten	outside of E-W systems that help or hinder education-to-workforce outcomes	
iglish learner progress	Teacher credentials	Teacher experience	Educator retention	Classroom observations of instructional practice	Student perceptions of teaching	Childhood experience:	Health insurance coverage
eachers' contributions to student learning growth	Effective program and school leadership	Institutions' contributions to student outcomes	Access to college preparatory coursework	Access to early college coursework	Equitable placement in rigorous coursework	Food security	Access to affordable housing
Access to quality, culturally responsive curricula	Expenditures per student	Access to early intervention screening	School safety	Inclusive environments	Representational racial and ethnic diversity of educators	Access to technology	Access to transportation
chool and workplace racial and ethnic diversity	School and workplace socioeconomic diversity	Access to health, mental health, and social supports	Access to college and career advising	Access to in-demand CTE pathways	Unmet financial need	Exposure to neighborhood crime	Neighborhood economic diversity
Cumulative student debt	Expenditures on workforce development programs	Access to jobs paying a living wage	Access to ongoing career skills development			Neighborhood racial diversity	Neighborhood juveni arrests

### Measuring what matters

E-W Framework indicators can inform data collection, linking, and reporting policies and practices; support place-based initiatives driven by local leaders, community organizations, and parents and guardians close to the work; or be used to advocate for improvements to E-W systems. Read on for two examples of indicators in action.

#### **Indicators in Action:** The CORE Districts' SEL indicators

The CORE Districts—a collaborative of eight school districts in California—are driven by a shared, unwavering belief in equity and access for all students. In 2013, the CORE Districts were granted a No Child Left Behind waiver, permitting them to use a rigorous accountability system developed by the districts themselves rather than adhere to the state of California's requirements. "Non-academic indicators," including social-emotional learning (SEL) indicators, comprise 40 percent of the index used to assess school quality in the CORE Districts' accountability system. CORE Districts engaged school administrators, educators, and data leads, as well as experts from outside the CORE Districts, to help determine what competencies should be included in the index. Competencies were also evaluated against the research base to determine whether they were meaningful, measurable, and malleable (that is, could be influenced by school systems). The districts developed student surveys for the four selected competencies—growth mindset, self-efficacy, self-management, and social awareness. The surveys were tested for quality and validated, and are currently administered annually to students in grades 5–12.

The E-W Framework includes the CORE Districts' SEL indicators (growth mindset, self-efficacy, self-management, and social awareness) and related indicators, such as social awareness, that have been shown to influence education and workforce success.

These indicators could be used in a variety of ways:

- · To understand the effectiveness of SEL programming
- To improve the tracking and reporting of competencies reflective of the whole child experience
- · To investigate the connection between contextual factors and outcomes



### Indicators in Action: ImpactTulsa's Child Equity Index

ImpactTulsa is a collective impact organization in the StriveTogether Cradle to Career Network that works with local partners in the Tulsa, Oklahoma area to overcome barriers to student success and build a more equitable future for Tulsa-area children.

The <u>Child Equity Index</u>, a data tool developed by ImpactTulsa in partnership with Tulsa Public Schools, aims to help partners better understand student needs and the landscape of opportunity in the Tulsa area. The index uses more than 40 indicators to measure student factors and environmental conditions across six domains of influence: (1) student-level factors, (2) neighborhood health, (3) neighborhood socioeconomic status, (4) neighborhood safety, (5) neighborhood pride and custodianship, and (6) neighborhood access. The index also uses a Neighborhood Model to measure the relationship between environmental conditions and student outcomes. With this information, ImpactTulsa and others in the community can better understand the geographic landscape of access and opportunity, and better identify the types of interventions needed.

Findings from the index have sparked conversation about inequities in Tulsa and have sparked action for students and families. For example, when internet access maps by census tract revealed inequities in access for low-income communities and communities of color, local school districts adjusted their remote learning strategies, and their partners launched a City of Tulsa Internet Access Taskforce.

