Growing Michigan Together Commission Pre-K - 12 Workgroup

Aug 16, 2023









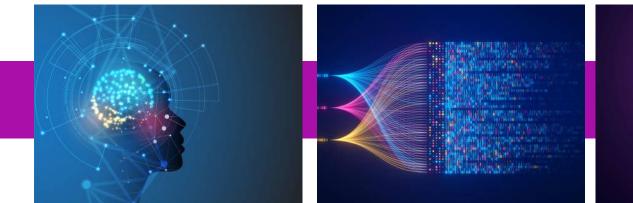
Non-profit based in D.C.

At the intersection of education & economy

35+ years connecting global research with national, state, & district policy & practice

What We Do







Study the highestperforming, fastimproving, most equitable education systems globally and in the U.S. **Distill** insights and **identify** what is common across them

Use this **analysis** to inform our partnership work with states and districts

NCEE's Global Focus

Why look globally?

- As the world globalizes, we compete with the world, not just our neighbors
- We face **common challenges** across the globe climate, political division, advancing technology
- Global leaders inform us about how they **adapt to a changing future**
- We **translate insights** from leading global systems to our states, rather than copy them

NCEE's Global Focus

What is common to those high-performing systems?

- Tight connection between **economy and education**, linked to the kind of society they want to create
- **Designed as systems** parts fit together and reinforce each other
- **Future-focused** proactive rather than reactive; look around corners

Why PISA?

- Assessment of how well 15-year-olds in 79 countries can apply what they know in
 - Reading literacy (core domain)
 - Mathematics literacy
 - Science literacy
 - Global competence (in some countries)
- Paired with survey of social and emotional factors such as student self-efficacy, life satisfaction, and school culture — **not just a test score**



What Does PISA Look Like?

- **Computer-based** tests were used in most countries
- Assessments lasting a total of two hours
- Multi-stage adaptive approach
- Mixture of multiple-choice questions and questions requiring students to construct their own responses



Who Are PISA Leaders?



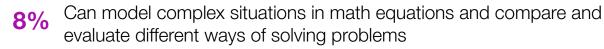
How Do US Students Perform on PISA?

U.S. students have basic skills **80%** Can recognize a main idea, cause and effect, and if conclusions are warranted

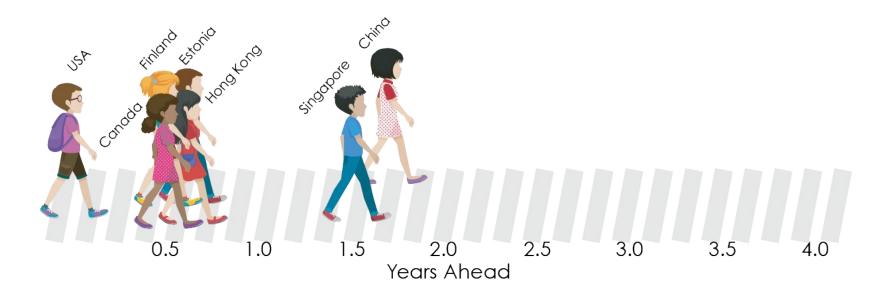
60% Can compare the distance across two different routes on a road, or convert currency

But they struggle to apply them.

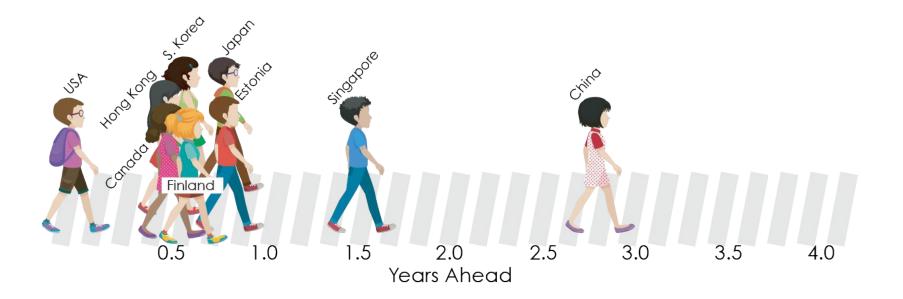
- **14%** Can distinguish fact from fiction
 - 9% Can apply scientific knowledge to an unfamiliar situation



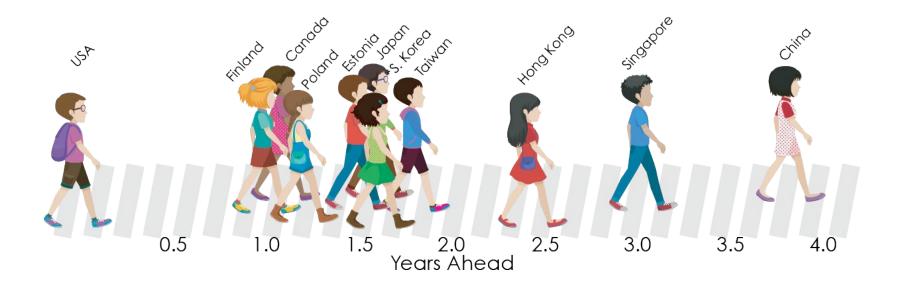
US Average Student Performance on PISA: Reading



US Average Student Performance on PISA: Science



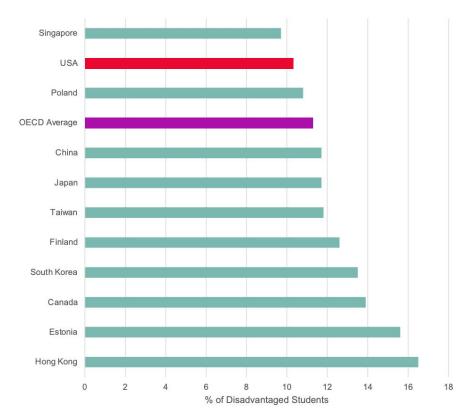
US Average Student Performance on PISA: Math



Equity on PISA: Resilient Students

This chart shows the percentage of students from the bottom quartile of socioeconomic status who perform at the top quartile of achievement — those who are **"beating the odds."**

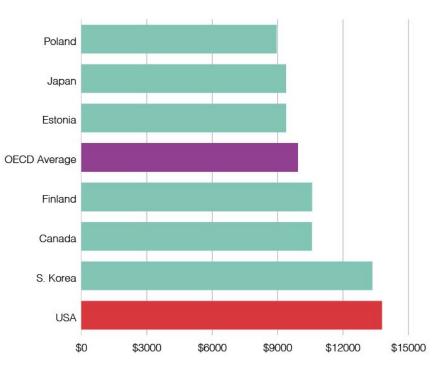
Percent of Disadvantaged Students Who Perform at the Highest Levels: PISA 2018



US Performance on PISA: **Spending**

US spends more per student than the countries that outperform us on PISA

Annual Spending per Primary Student



Benchmarking In the US: NAEP

- Assessment of 4th and 8th graders nationwide and in each state; 12th graders nationwide
- Subjects: **math and reading** every two years, broader range of subjects less frequently
- Measures how well students have mastered a consensus curriculum



NAEP Performance in Michigan



MI is **about the US average in 8th grade**, and slightly below average in 4th grade, over the long term



Black, Hispanic, low income students trail White students

White students trail **national peers**

Proficiency

Less than 1/3 of students in MI are proficient in Math or reading in 4th or 8th grade.

Detroit:

Trails urban district average in 4th grade but average in 8th grade, similar to the state compared to the nation.

NAEP Performance in Michigan

High Performers on NAEP



NCEE's Blueprint

To graduate students future ready, high performing systems have:



Proficiency-based learning system based on future-ready performance standards, with supports for all students



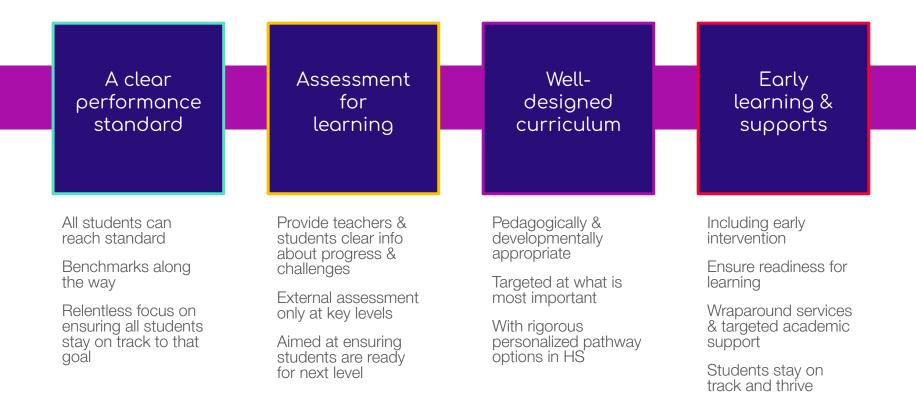


World-class **teaching and learning** to develop confident and engaged self-directed learners Aligned and coherent governance focused on accountability for system goals and continuous improvement

Proficiency-based learning system based on future-ready standard

Students

- Work towards a clear performance standards
- Move on when ready
- Graduate ready for next step



Global Benchmarks

Focus on literacy and numeracy

Big ideas and concepts at each grade level

British Columbia

More focused HS exams

Provincial framework with room for districts to adapt and innovate

Estonia

Performance standards

Student-centered & future-focused teaching & learning

Data informs whole-of-system continuous improvement

Emerging US Examples

Aligned curriculum, standards, assessment in Louisiana

Graduate profile in Madera, CA

Portfolio assessment in New Hampshire

Empirically-based college and career ready standard in Maryland

Defined career pathways in Indiana



Building lifelong learning systems, aligned from preschool to upskilling for adults, with access for all

Singapore: Skills Future

Finland: Lifelong Learning



Future Focus



Teaching & Learning to Enable Student to Achieve World-class Standards

Teachers

- Are professionals who work together to improve their practice & develop expertise
- Focus on improving student learning across schools & districts
- Create learning environments that develop engaged, self-directed, future-ready learners

Rigorous teacher preparation	A continuu of leadersh roles		Schools organized for teacher collaboration	Well-trained school leaders	
Deep content knowledge	Incentives to supp & reward	port	Central goal of improving student learning	Create and lead schools where:	
Ongoing professional learning	development of expertise			learning is engaging, personalized, & self-directed	
Pedagogical expertise Focus on practice	Aligned leadership development & professional learn			students have a variety of experiences outside the classroom	
Mentorship from expert teachers				students prepare for the world in which they will liv	/e



Emerging US Examples

Teacher career ladder in Maryland and McComb, MS

Cooperative Innovative High Schools in North Carolina

MadTECH Career exploration in Madera, CA



How to enhance teaching and teacher roles with new technologies

Estonia: New platforms for designing lessons

Singapore: Digital grading of writing with immediate feedback to students

South Korea: Learning assistants for students to keep students motivated and on task



Future Focus



Coherent & Aligned Governance Focused on Continuous Improvement

Feature:

- Governance coherent & aligned
- Financing of schools focused on accountability for results and continuous improvement of the system

Equitable & stable funding

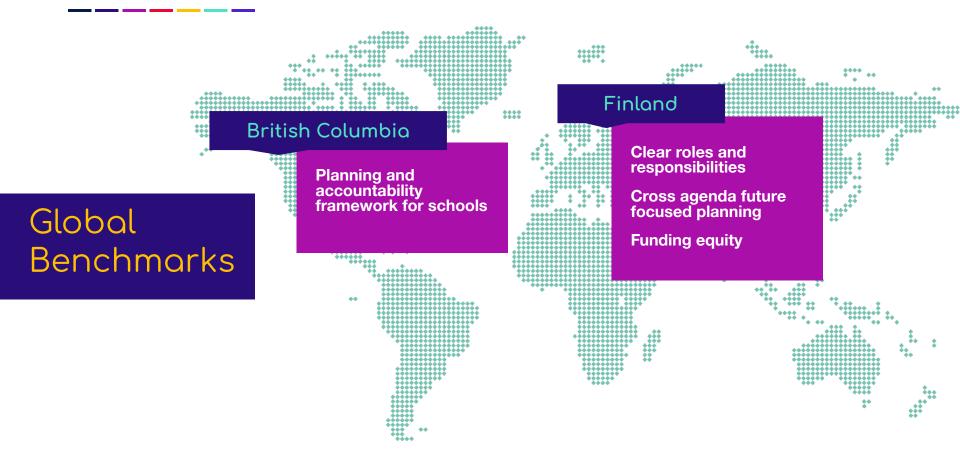
Clear & aligned roles & responsibilities Accountability systems

Provides all students with the resources and opportunities to succeed

Tied to effective policies and practices for improving student learning For leaders throughout the system

Long term strategic vision

Deep system capacity to support schools Incentives & supports to reach system goals & to innovate to continue to improve

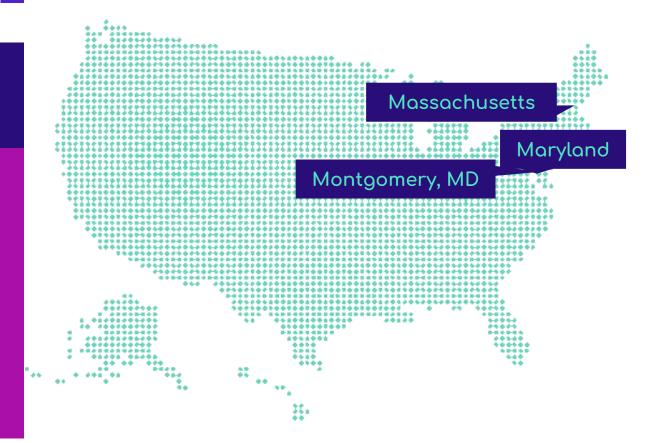


Emerging US Examples

Coordinated governance of P-12 learning in Massachusetts

Education funding tied to policy goals in Maryland

Peer assisted teacher support in Montgomery County, MD



Rethinking accountability systems to look at broader measures and to focus on future readiness

Vicksburg, MS: Community wide accountability

Singapore: Assessment of co-curricular and out of school learning

Estonia: Requiring collaborative cross disciplinary project for graduation



Future Focus

Redesigning Michigan's System



Michigan's education systems designed for a different era and a different economy Many high-performing systems were designed **much more recently** High performing systems are continuing to pivot and adapt

to emerging challenges

Next meetings will analyze Michigan's system in the three goal areas to identify areas for

to identify areas for redesign and consider promising work to build on