\$9,542	-5.53	3	\$9,410	\$132	1	\$9,865	\$92,829,650	(\$2,252)	\$9,154	NE	1	\$13,752
\$9,679	60.94	30	\$11,486	(\$1,807)	0	\$10,283	\$118,110,538	(\$2,820)	\$9,490	SW	1	\$9,033
\$9,914	-9.69	19	\$13,511	(\$3,597)	1	\$11,693	\$157,984,123	(\$4,034)	\$9,363	SE	1	\$8,979
\$9,530		$\sqrt{7^2}$										\$8,810
\$10,166	ПОТ	46		1 AIX			EQUA	56				\$10,684
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\$15,776	20.11	<b>D</b> 2								NW	0	\$9,007
\$11,970	30.52	29	\$10,468	\$1,501	1	\$14,237	\$149,032,916	\$6	\$12,866	SE	1	\$9,266
\$31,860	-5.53	45	\$19,314	ΔFT		ЕАСН С	onference	562)	\$14,384	SW	1	\$9,411
\$28,288	-6.45	13	\$25,055				101	,038	\$17,382	SW	1	\$9,824
\$7,644	-0.97	18	\$9,408				JZI	\$804	\$11,480	NE	1	\$10,196
\$7,889	-5.53	1	\$13,589	(\$5,700)	1	\$10,478	\$142,385,542	(\$282)	\$11,146	NW	1	\$7,300
\$8,494	1.89	11	\$15,449	(\$6,955)	0	\$12,167	\$187,967,983	(\$1,968)	\$11,342	SE	0	\$7,009
\$8.546	-6.51	20	\$19,764	\$8.228	1	\$16.295	\$322.054.380	(\$4,947)	\$11.449	NE	0	\$7.824



#### Bruce D. Baker Rutgers University Graduate School of Education

### Introduction to the SFID

- \$92,829,030
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   \$118,110,538
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   \$8,810
- The School Finance Indicators Database (SFID) is a public collection of resources on K-12 school funding
- In this presentation, we will use SFID data to summarize the state of school finance in the U.S. and help you get started using our data and resources in your own work

THREE PRINCIPLES OF THE SFID PROJECT									
Money matters	Adequate and equitable funding is a necessary condition for educational success								
<b>Context matters</b>	Resources should be targeted at the students who need them most								
Policy matters	Good finance policy can improve outcomes, and bad policy makes them worse								
	(In <b>SCHOOL</b> = b <sub>0</sub> + b <sub>1</sub> State <sub>i</sub> + b <sub>2</sub> LaborMarket <sub>e</sub>								



# 

- We will be looking at some aggregate results, but the defining feature of school finance in the U.S. is <u>heterogeneity</u>
  - There are essentially 51 different finance systems in the U.S.
  - Relatively few are uniformly bad and none is uniformly good
  - We offer multiple tools for you to examine your individual state (or district)
- Our measures are designed for easy interpretation, but underneath that virtually all of them control for factors that affect the "value of the education dollar"
  - For example, Census poverty and labor market costs
  - Better comparisons within and between states
- Due to lag, our latest year of data is 2018 (2017-18 school year)



### PART ONE

# Summarizing the adequacy and fairness of state school finance systems in the U.S.



### **Describing state finance systems**

• Our three "core indicators" provide a concise (though necessarily partial!) summary of the equity and fairness of each state's school finance system:

Fiscal effort	How much does your state spend on K-12 education as a percentage of its total "economic pie?"							
Progressivity	Do higher-poverty districts in your state receive more resources than lower-poverty districts?							
Adequacy	Is education spending in your state sufficient to meet common outcome goals?							

 As we'll discuss later, all of the data we'll be looking at (and much more) are available to download, and presented in reports, profiles, and visualizations at the SFID website:

schoolfinancedata.org/









- GSP-based effort ranges from 2.4 percent in AZ and HI to 4.5 percent in NJ (and even seemingly smaller differences can represent billions of dollars!)
- But <u>remember</u> that states with large economies can put forth less effort and still produce the same amount of resources as states with smaller economies



# Increasing inequality of education spending

Adjusted state education spending (10% dist. poverty), 1993-2018



As states recovered from the 2007-09 recession, some reinvested in schools (effort!) and others did not, exacerbating interstate inequality.



## Two decades of non-progressive funding



- In general, states must ensure that higherpoverty districts have more resources to meet their higher costs
- Yet, on average, the highest- and lowestpoverty districts in each state receive roughly the same amounts of (state and local) revenue

**Figure note**: Ratio of labor market-centered state and local revenue between highest- and lowestpoverty district quintiles (defined state by state)







**Figure note**: Percentage difference in predicted state and local revenue between high-poverty (30%) and zero-poverty district in each state (controlling for labor market costs, population density, and size).

n SCHOOL = b<sub>0</sub> + b<sub>1</sub>State<sub>1</sub> + b<sub>2</sub>LaborMarket<sub>8</sub> + b<sub>2</sub>CWI<sub>4</sub> + b<sub>4</sub>FINANCE<sub>4</sub> + b<sub>5</sub>PopulationDensity<sub>4</sub> + b<sub>5</sub>Enrollment<sub>4</sub> + b<sub>1</sub>INDICATORS<sub>4</sub> + b<sub>5</sub>Scale<sub>3</sub> + b<sub>5</sub>Poverty<sub>4</sub> + b<sub>10</sub>SchlType<sub>4</sub> + b<sub>11</sub>DATABASE<sub>4</sub> + e



## **Adequacy and equal opportunity**

- Adequacy measures help us gauge equal educational opportunity
- In the SFID, we assess adequacy by comparing:
  - Actual spending per-pupil
  - Spending per-pupil required to achieve national average test scores (this is a modest goal)
- Our system allows for these comparisons for each state (by district poverty level) and for over 12,000 individual districts



Figure 1. Education Cost Model Components







- Our three "core indicators" are interrelated
- Even if resources are high overall (high effort), how they are distributed can have serious implications for equal opportunity (adequacy)







Child Poverty Rate

 In general, progressive funding is consistent with equal opportunity, since costs (adequate funding levels) tend to increase with poverty

 States, however, can maintain equal opportunity even if funding is inadequate (or the "bar" is set higher)







These are illustrative U.S. averages, which show that lowerpoverty districts receive funding above our adequate levels, and higherpoverty districts receive less.







The lowest-poverty districts in each state tend to be funded adequately and score above the U.S. average

### The opposite situation is found in the highest-poverty districts









Inadequate funding is a national problem. Even in states where most districts spend above our adequate levels, there are districts that slip through the cracks







Note the correspondence between **below-adequate** funding and **below-average** scores. Funding matters.

n]**SCHOOL** = b<sub>0</sub> + b<sub>1</sub>State<sub>1</sub> + b<sub>2</sub>LaborMarket<sub>6</sub> + b<sub>3</sub>CWI<sub>4</sub> + b<sub>4</sub>**FINANCE** + b<sub>5</sub>PopulationDensity<sub>4</sub> + b<sub>5</sub>Enrollment<sub>4</sub> + b<sub>7</sub>**INDICATORS** + b<sub>8</sub>Scale<sub>4</sub> + b<sub>5</sub>Poverty<sub>4</sub> + b<sub>10</sub>SchlType<sub>4</sub> + b<sub>11</sub>**DATABASE** + e





Note: marker size weighted by enrollment

40

Percent child poverty

60

-30,000

n

20

Spending above adequate

Spending below adequate



association between

district child poverty and

funding gaps.



# \$9,542 -5.53 3 \$9,410 \$152 1 \$9,865 \$92,829,650 (\$2,252) \$9,154 NE 1 \$15,752 \$679 60,94 30 \$11,486 (\$1,807) 0 \$10,283 \$118,110,538 (\$2,820) \$9,490 SW 1 \$9,033 Summary ConclusionS 693 \$157,984,123 (\$4,034) \$9,363 SE 1 \$8,979 \$9,530 8.96 92 \$14,239 (\$4,709) 0 \$13,992 \$199,232,088 (\$4,772) \$9,554 NW 0 \$8,810

- Bearing in mind the caveat that states vary widely, three big picture findings:
  - The typical state devotes a smaller share of its economy to K-12 schools than it did 20 years ago
  - In most states, high- and low-poverty districts receive similar funding, or high-poverty districts receive less
  - Low-poverty districts in most states receive adequate funding and high-poverty districts receive inadequate funding (and test scores to match)
- There are a small handful of states in which funding is adequate and equitable, but even in these states, there are districts that slip through the cracks
- **Important**: Although some states deal with challenging situations (e.g., highpoverty students and small economies from which to raise revenue), poor funding is due in large part to policy choices. It is not an accident.



### PART TWO

### Getting started with our finance data and resources



## Using our data and resources

- The purpose of this project is to inform and improve school finance debates and policymaking in the U.S.
- All our resources are designed to be used by all stakeholders, regardless of their finance or research backgrounds
- Our state and district datasets are free to download for yourself, along with user-friendly documentation
  - These datasets (and accompanying documentation) include many measures not discussed in this presentation, such as teacher salary competitiveness, staffing ratios, etc.
- But we also have many resources that you can use without analyzing the data yourself, and everything is available at the SFID website:







## **Resources: getting started guide**

ALBERT SHANKER INSTITUT

schoolfinancedata.org

May 2021

#### GETTING STARTED WITH THE SCHOOL FINANCE INDICATORS DATABASE

The **School Finance Indicators Database** (SFID) is a collection of resources on K-12 school funding compiled and published by researchers at the Albert Shanker Institute and Rutgers University Graduate School of Education. SFID products are specifically designed to be easy to use for policymakers, educators, journalists, advocates, parents, and other stakeholders.

This short guide will help you get started.

#### A quick introduction to the SFID

School finance is incredibly important. But finance research can be a challenge. Every year, federal, state, and local governments collect reams of finance data, which feed an endless supply of papers and reports from academics and organizations, often reaching conflicting conclusions. The purpose of the SFID is to cut through this clutter by giving you what you need

to evaluate and compare state and district finance systems with rigorous but accessible measures.

#### Our 3 guiding principles

But the SFID isn't just a compilation of simple data all thrown into a spreadsheet. Our measures, while easy to understand and interpret, are calculated using sophisticated methods and over a dozen different data sources.

The key idea behind our approach is the fact that comparing funding measures within and between states requires accounting for differences in context. For instance, comparing raw per-pupil spending between Massachusetts and Alabama doesn't tell you much about whether spending is "high" or "low"

- 1. Proper funding is a necessary condition for educational success (money matters).
- 2. The cost of education varies by context, and resources should be targeted at students who need them most (equity).
- The adequacy and fairness of school funding are largely a result of policy choices (good policy → good outcomes).

in either place, since these are two very different states serving two very different student populations. And the same point applies for comparisons *within states*: you can't compare spending in New York City with spending in suburban or rural upstate New York districts without accounting for the differences between these districts.

#### **NEW!** Check out our short "**Getting Started with the SFID**" guide, which includes:

- Descriptions of the datasets and resources, including many variables not discussed today
- A catalog of all data visualizations
- Walk-through example of how to download and use our datasets (in Excel)

This guide was uploaded to this session's resources and is also available on the SFID website









## **Resources: annual report and research briefs**

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THIRD EDITION JANUARY 2021

### ANNUAL REPORT

Summarizes the latest findings on the three "core indicators"



#### ABSTRACT

We present an overview of spending adequacy among individual K-12 school districts in the U.S. Our results are from a new resource, the District Cost Database (DCD), which allows users to compare districts' actual per-pupil spending levels to estimates of the levels required to achieve a common "benchmark" goal (national average test scores) for roughly 12,000 U.S. public school districts in 2018. Predictably, we find substantial heterogeneity, with many districts spending well above our estimated adequacy targets and many others spending well below, in some cases quite shockingly below. Districts with negative (i.e., inadequate) funding gaps are especially prevalent in the southeast and southwest, but they are also found throughout the entire U.S., including in states, such as Massachusetts and Connecticut, which include generally high-spending districts. Conversely, even in states where inadequate funding is the norm, there are districts in which resources exceed our cost estimates. Finally, we show that the size of negative funding gaps increases with district child poverty rates and with the proportion of Black and especially Hispanic students served by the districts. These results illustrate that most states are failing in their job of filling the holes between districts' costs and their capacity to pay those costs, as well as how, even in states that are more successful, many districts slip through the cracks. The sum of these negative gaps across all U.S. districts (ignoring districts with positive gaps) is \$104 billion. An effort to rectify these discrepancies could consist of a strategic expansion of the federal role in education finance, as well as a recalibration of how states fund their schools. Our district adequacy measures can help guide this process by identifying where resources are needed most.



RESEARCH BRIEFS

Occasional analyses of different measures not included in the annual report or profiles.





## **Resources: one-page state profiles**



The profiles summarize, visualize, and describe in clear language the key results for each state (and D.C.)

- Focus on the "core indicators" of effort, adequacy, and progressivity
- Comparisons with U.S. averages
- Trends over time
- Updated annually with latest data





n)**SCHOOL** = b<sub>0</sub> + b<sub>1</sub>State<sub>1</sub> + b<sub>2</sub>LaborMarket<sub>6</sub> + b<sub>2</sub>CWI<sub>4</sub> + b<sub>4</sub>**FINANCE**<sub>2</sub> + b<sub>6</sub>PopulationDensity<sub>4</sub> + b<sub>8</sub>Enrollment<sub>4</sub> + b<sub>1</sub>**INDICATORS**<sub>4</sub> + b<sub>5</sub>Scale<sub>6</sub> + b<sub>9</sub>Poverty<sub>6</sub> + b<sub>10</sub>SchlType<sub>4</sub> + b<sub>11</sub>**DATABASE**<sub>4</sub> + e





district and national average test scores

(horizontal line) and between actual and

required spending (vertical line).

Test scores in this district (the

orange dot) are 0.772 standard

deviations below the national

Spending is \$5,615 per-pupil

below our spending adequacy

average.

targets.

The blue lines that intersect in the middle of the plot represent zero differences between this district and national average test scores (horizontal line) and between actual and required spending (vertical line).

Test scores in this district (the orange dot) are 0.797 standard deviations above the national average.

Spending is \$12,856 per-pupil above our spending adequacy targets.





#### District adequacy profiles for two Missouri districts



\$0,679	60.94	30	\$11,486					
Ina		<b>/Ol</b>	513,511					
\$9,530	8.96	32	\$14,239					

We are very happy to answer questions and would love to hear your feedback as to how we can improve our resources

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