

## Early Development Instrument (EDI)

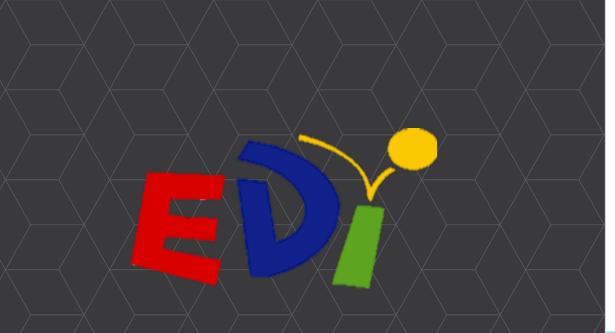
Monitoring kindergarten readiness to improve children's outcomes before they arrive at kindergarten and support them as they progress thru school

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Building a future where all children thrive.



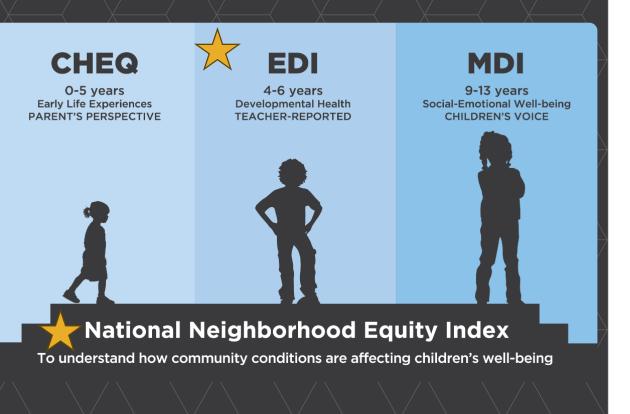


- Fifteen-year initiative
- Over 90 communities in 18 states

Participating communities join the national shared learning network meetings to innovate and scale efforts



## **Components of Measurement System**



Note: UCLA partners with publishers at McMaster University and University of British Columbia on EDI, CHEQ, and MDI. The NNEI was developed by Dr. Charles Bruner and the Child and Family Policy Center.

## 3 Surveys on wellbeing &

### 1 metric of community context

### **Early Development Instrument (EDI)**

 Kindergarten teachers report on developmental outcomes, 4-6-year-olds.

### **Childhood Experiences Questionnaire (CHEQ)**

• Parent-reported at kindergarten entry about children's early experiences 0-5 years.

### Middle Years Development Instrument (MDI)

• Student self-report on well-being, 4<sup>th</sup> to 8<sup>th</sup> grades.

### National Neighborhood Equity Index (NNEI)

- A composite of 11 census indicators reflecting levels of socio-economic adversity at the neighborhood level.
- Overlaid onto survey data to understand how neighbohood conditions influence children's outcomes.





To understand the nuts and bolts of the Early Development Instrument (EDI)

What it is How data are collected How the information is used



# The EDI

### **Early Development Instrument**

- Holistic, population measure of children's developmental outcomes and school readiness.
- Predicts ELA and Math scores 3<sup>rd</sup> 5<sup>th</sup> grade.
- Reflects how well 0-5 systems are supporting children.
- Allows stakeholders to:
  - Look Back: To improve children's outcomes before they arrive at kindergarten.
  - Look forward: To understand incoming kindergarten cohort and support them as they progress thru school.

Developed at the Offord Center for Child Studies at McMaster University



## Nuts and Bolts of the EDI



### What is the EDI?

Holistic population snapshot for NM of children's wellbeing and school readiness in 5 key domains.



### How is it completed?

Teachers watch 30-minute video. Then complete one EDI/student, based on recall, using on-line platform. Takes 10-15 minutes per student.



### Who completes the EDI?

Completed by kindergarten teachers, on all students. This is not a test that students take.



When is it completed? Spring. Done once every 2-3 years.

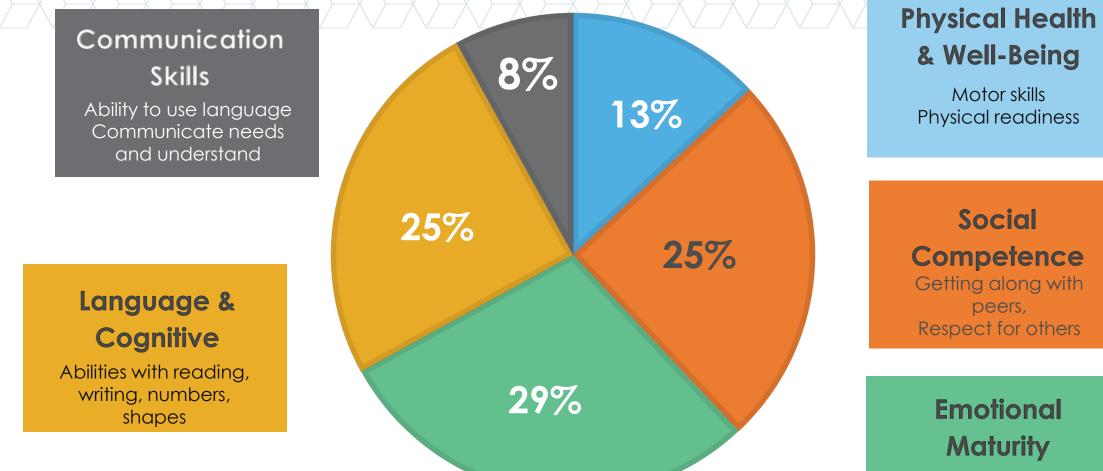
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### What doesn't it do?

Not reported at child level because not designed to screen, diagnose. Not reported at teacher level to assure them EDI is not used to assess performance.



## **5 EDI Developmental Domains** Distribution of survey items by domain



These 5 areas of development are known to impact child well-being and academic performance

Emotional wellbeing, feeling sad, fearful, etc.

## **16 Developmental Subdomains**

- Physical readiness for school day
- Physical independence
- Gross and fine motor skills

- Overall competence with peers
- Respect and responsibility
- Approaches to learning
- Readiness to explore new things

Physical Health and Well-being



Social Competence



- Prosocial and helping behavior
- Anxious and fearful behavior
- Aggressive behavior
- Hyperactive and inattentive behavior

### **Emotional Maturity**



- Basic literacy skills
- Interest in literacy/numeracy and memory
- Advanced literacy skills
- Basic numeracy skills

Language and Cognitive Development



## Sample of EDI Items by Domain

EDI Items by Domain and Sub-domain

#### Section C – Social and Emotional Development

Physical Health and Well-being Domain

A. Sub-domain: Physical readiness for school day

1. Over- or underdressed for school-related activities

2. Too tired/sick to do schoolwork

Late

Hungry

B. Sub-domain: Physical independence

5. Independent in bathroom habits most of the time

6. Shows an established hand preference

7. Well-coordinated

8. Sucks a thumb/finger

C. Sub-domain: Gross and fine motor skills

9. Proficient at holding a pen, crayons, or a paintbrush

10. Ability to manipulate objects

11. Ability to climb stairs

12. Level of energy throughout the school day

13. Overall physical development

#### Social Competence Domain

A. Sub-domain: Overall competence with peers

1. Overall social/emotional development

2. Ability to get along with peers

3. Plays and works cooperatively with other children

4. Able to play with other children

5. Shows self-confidence

B. Sub-domain: Respect and responsibility

6. Follows rules and instructions

7. Respects the property of others

8. Demonstrates self-control

9. Demonstrates respect for adults

How would you rate this child's		Very Good / Good	Average	Poor / Very Poor	Don't Know
1	overall social/emotional development	0	0	0	0
2	ability to get along with peers	0	0	0	0

Below is a list of statements that describe some of the feelings and behaviors of children. For each statement, please fill in the circle that best describes this child now or within the past six months.

Would you say this child		Often or Very True	Sometimes or Somewhat True	Never or Not True	Don't Know
3	plays and works cooperatively with other children at the level appropriate for their age	0	0	0	0
4	is able to play with various children	0	0	0	0
5	follows rules and instructions	0	0	0	0
6	respects the property of others	0	0	0	0
7	demonstrates self-control	0	0	0	0
8	shows self-confidence	0	0	0	0
9	demonstrates respect for adults	0	0	0	0
10	demonstrates respect for other children	0	0	0	0

## **Teacher Time**

## • Estimate 6 hours of teacher time

- 30 minutes of training
- 5.5 hours to complete the EDI. (e.g. 15 minutes per student x 20 students)

## Determine mechanism to use teacher time

- During school time
  - Sub-release day
  - Professional training day
- Outside of school time



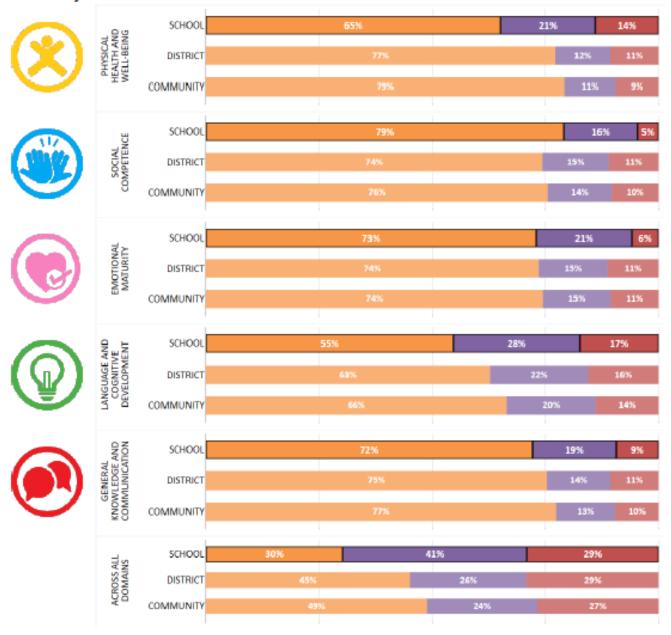
## **EDI Data Products**

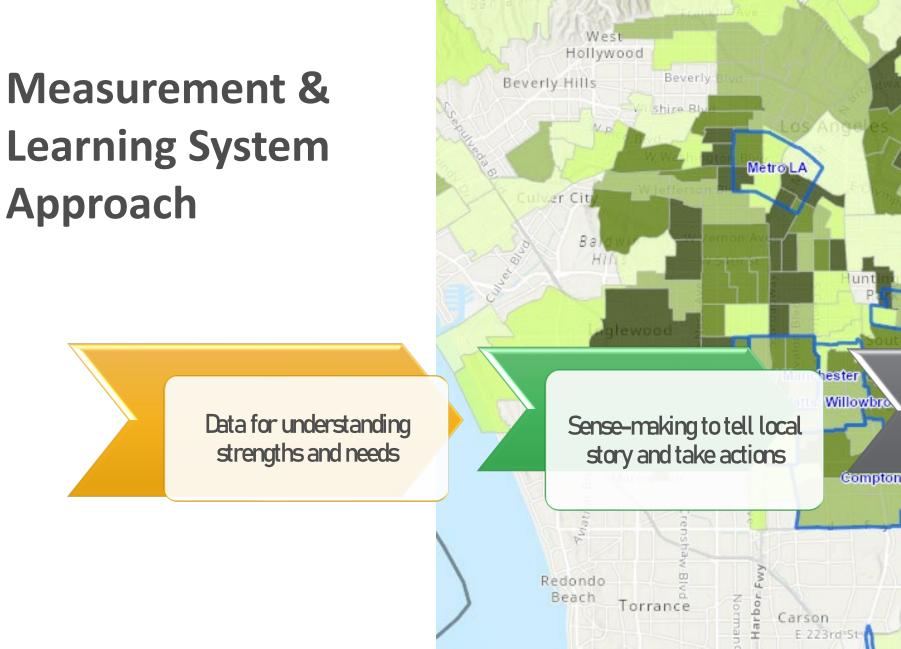
Level of Reporting	Type of Product	Audience
School	Reports & Tables	Confidential to
District/Charter	<ul> <li>Reports &amp; Tables</li> </ul>	Education Sector
Neighborhood	<ul> <li>Story Maps: Interactive, web-based maps with text to describe results.</li> </ul>	Public Access
County		
State		

### **EDI School Report**

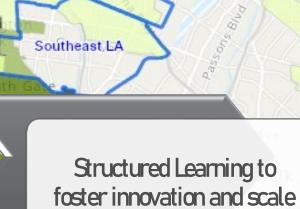
- Percent of children
  - On track (orange)
  - At risk (purple)
  - Vulnerable (red)
- By each of 5 domains
- By school, district, state

Chart 2. Children On Track, At Risk, and Vulnerable by Developmental Domain: Comparison of Individual School to All Participating Schools in the District to All Participating Schools in the Community









Bellflower

Ewv

East LA

Compton

Alhanibraabrie

ark

ontebello

South El Monte/

Cerritos

Malker

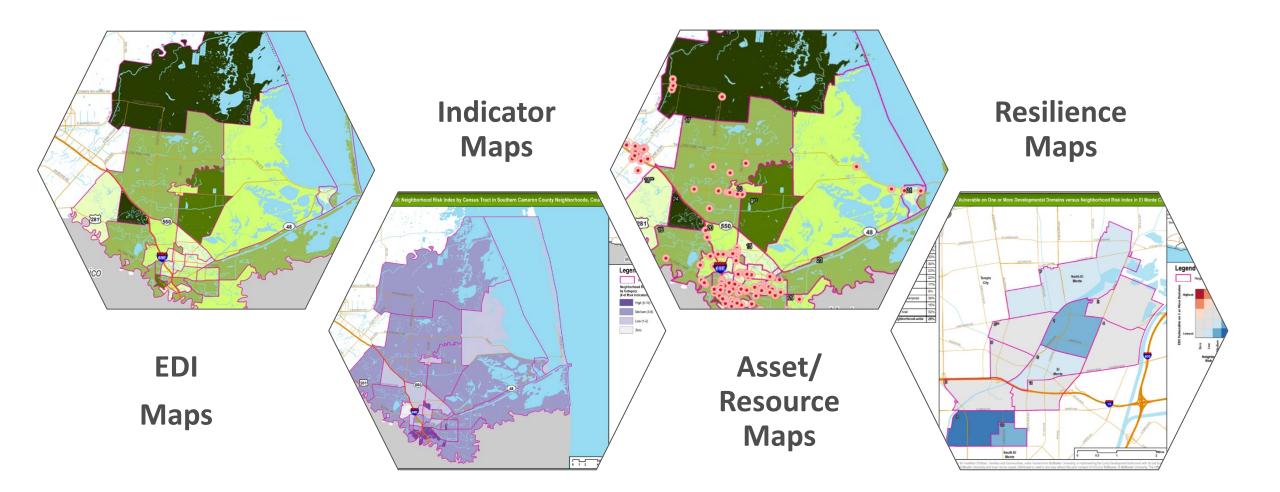
51

Cerrito

Katella Ave

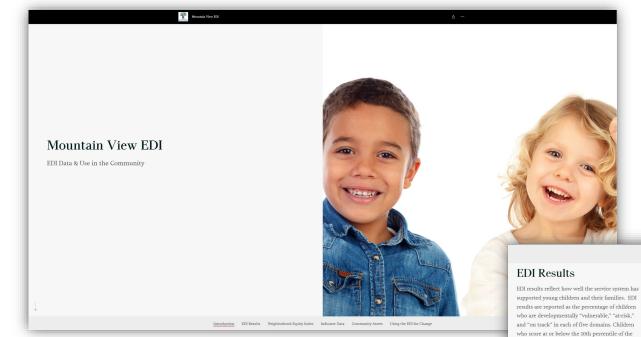
South St

## **StoryMaps: Children's Well-being & Community Conditions**





## **Story**Map



national EDI population are considered

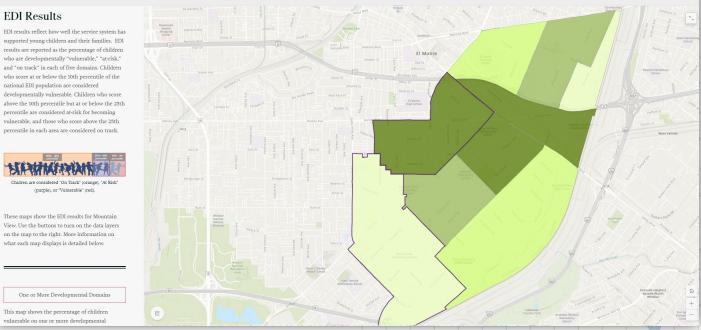
Chidren are considered "On Track" (orange), "At Risk (purple), or "Vulnerable" (red).

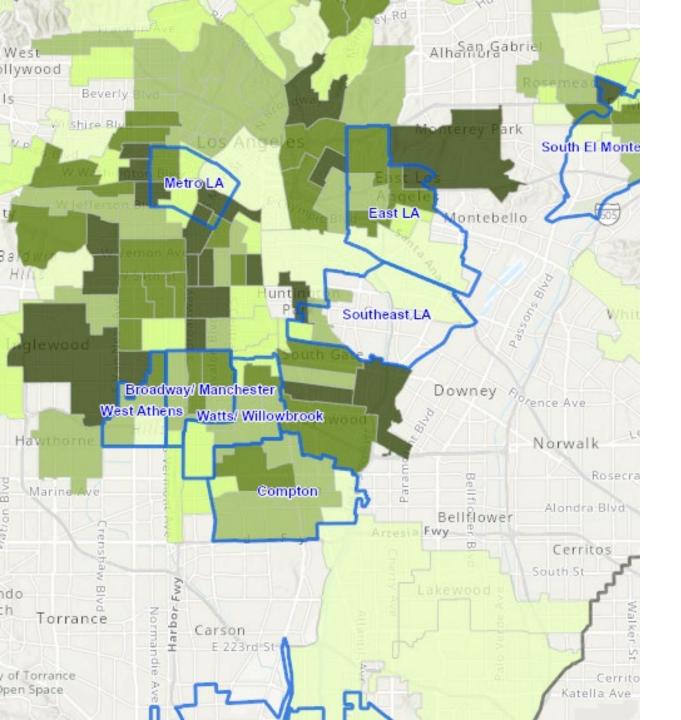
on the map to the right. More information on what each map displays is detailed below.

One or More Developmental Domains This map shows the percentage of children vulnerable on one or more developmental

Allows partners to tell the story alongside interactive maps and other media (e.g. videos, photos, etc.)

#### Introduction EDI Results Neighborhood Equity Index Indicator Data Community Assets Using the EDI for Change





## **EDI Web Maps**

### Story Maps: Public-facing, narrated

• Los Angeles, CA: <u>https://arcg.is/Xb44f</u>

### EDI Web Maps: In-depth analysis

- San Antonio, TX: <u>https://arcg.is/1Xqeqv0</u>
- Spartanburg County, SC: <u>https://arcg.is/HbriO</u>

### **Community EDI Websites**

- San Antonio UW, ReadyKidSA Scorecard: <u>https://embed.clearimpact.com/Scorecard/Embed/235</u> 85
- Spartanburg Academic Movement (SAM): <u>https://learnwithsam.org/the-early-development-instrument</u>

## How is Data Used?



Understand patterns of inequity to build partnerships and shared accountability Conduct data driven, collective planning and action





Guide actions about resources, practices, programs, policies.





## Looking Back: Excel by 8 for Arkansas Communities

# Strategies undertaken by the community partners:

- *Family education*: Promoted CDC milestones tracker with families.
- *Fill resource gaps*: Identified childcare center gaps in certain neighborhoods.
- *Systems improvement*: Brought data to the community college Reviewed the early childhood curriculum for educators to better prepare them.







## Looking Forward: School Districts/Charters Using EDI

- Links school system with larger group of early childhood stakeholders to improve children's readiness for kindergarten.
- Understand needs of incoming cohort.
- District-level planning, grant writing, placement of new school-based services (health clinics, preschools, etc.).
- Informs school transition and alignment efforts from preK-4 to Kindergarten to 1<sup>st</sup> grade.
- Improve professional development, curriculum development.
- Engage parents and parent councils.

## **Cultural Sensitivity**

### **Strengths-Based Approach**

- Reflects how well systems are supporting children.
- Emphasize the positive metrics such as percent of Children "On Track".
- Identifying neighborhood resiliency.
- Engaging families in telling their story and taking leadership in solutions.

### EDI

- 15 years research: Valid and reliable tool across diverse cultural & language groups.
- Appropriate for all children including those with disabilities.
- Teacher training addresses strategies for minimizing bias.
- Teacher guide flags items requiring heightened cultural sensitivity with supplemental information to avoid bias.
- Convened English Language Learner Advisory Group:
  - Critical look to make improvements;
  - Illuminated ELL strengths in data and strengthsbased strategies;
  - Identified additional research needed, now underway.

## **Measuring Children's Language Abilities**

### What languages does the EDI have?

- This is not a test that students take. No direct observation or work-sampling.
- EDI is completed by teachers, based on recall and therefore, it is provided to teachers in English.
- For the small # of items that rely on a child's language abilities, teachers asked to rate these abilities in the language of instruction.
- For dual immersion programs, children's language abilities assessed in the primary language of instruction.

## How does the EDI account for child's home language abilities?

- UCLA collects roster data that identifies child's home language and English Language Learner (ELL) status.
- Can gather or link EDI with supplemental information on children's home language skills by:
  - Linking with existing district information on children's home language skills.
  - Using the EDI's 5 additional and customizable questions.



## **Roles for key partners**

UCLA

- Support data collection.
- Provide mapping consultation to define neighborhood boundaries.
- Prepare data reports, maps.
- Support shared learning network meetings.

## **Roles for key partners**

## **State Leads**

- PED
  - Execute data sharing agreement with UCLA.
  - Provide UCLA with rosters.
- ECECD
  - Engage partners/community in using EDI to improve EC systems
  - Co-host statewide shared learning network.



## **Roles for key partners**

### • District/Charter EDI Coordinator (Doesn't need to be DTC)

- Communicate and coordinate logistics with district/charter and school staff
- Send parent letters home
- Provide teachers with class list that includes both State Student IDs and Student names
- Login to EDI data collection portal to monitor teacher completion

### Teachers

- Complete teacher training asynchronous (30 minutes)
- Complete EDI for each child online (10-15 minutes per child)
- Complete one feedback form online

## **Proposed Timeline**

Implementation Steps	EDI 2023-24
EDI Implementation Webinar with District/Charter EDI Coordinators	March 12: 3:00-4:30 pm March 14: 8:00-9:30 am
PED provides roster to UCLA and class lists to teachers	March
Districts/Charters communicate with principals, teachers	March
District/Charters EDI Coordinators Login to portal to Activate Account	March
Districts/Charters send Parent letter & Teacher-Class Lists	April
Teachers listen to training video	April
Teachers complete EDIs	April-May





## **PED's EDI Webpage**

<u>https://webnew.ped.state.nm.us/bureaus/edi/</u>

## The Futures Team at UCLA

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