

The Data Capacity of State-Funded Pre-K Programs Across the United States

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Agenda



- Introduction
- State-funded Pre-K Data Survey methods and findings
- Additional resources
- Action steps
- Questions

Introduction

Early Childhood Data Collaborative

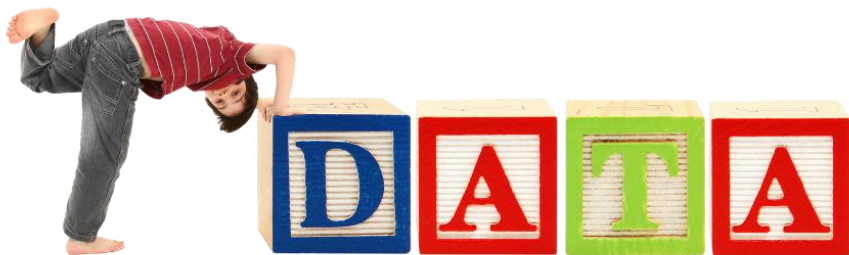
The **Early Childhood Data Collaborative (ECDC)** promotes policies and practices to support policymakers' development and use of coordinated state early care and education (ECE) data systems.

Effective use of data systems will help policymakers improve:

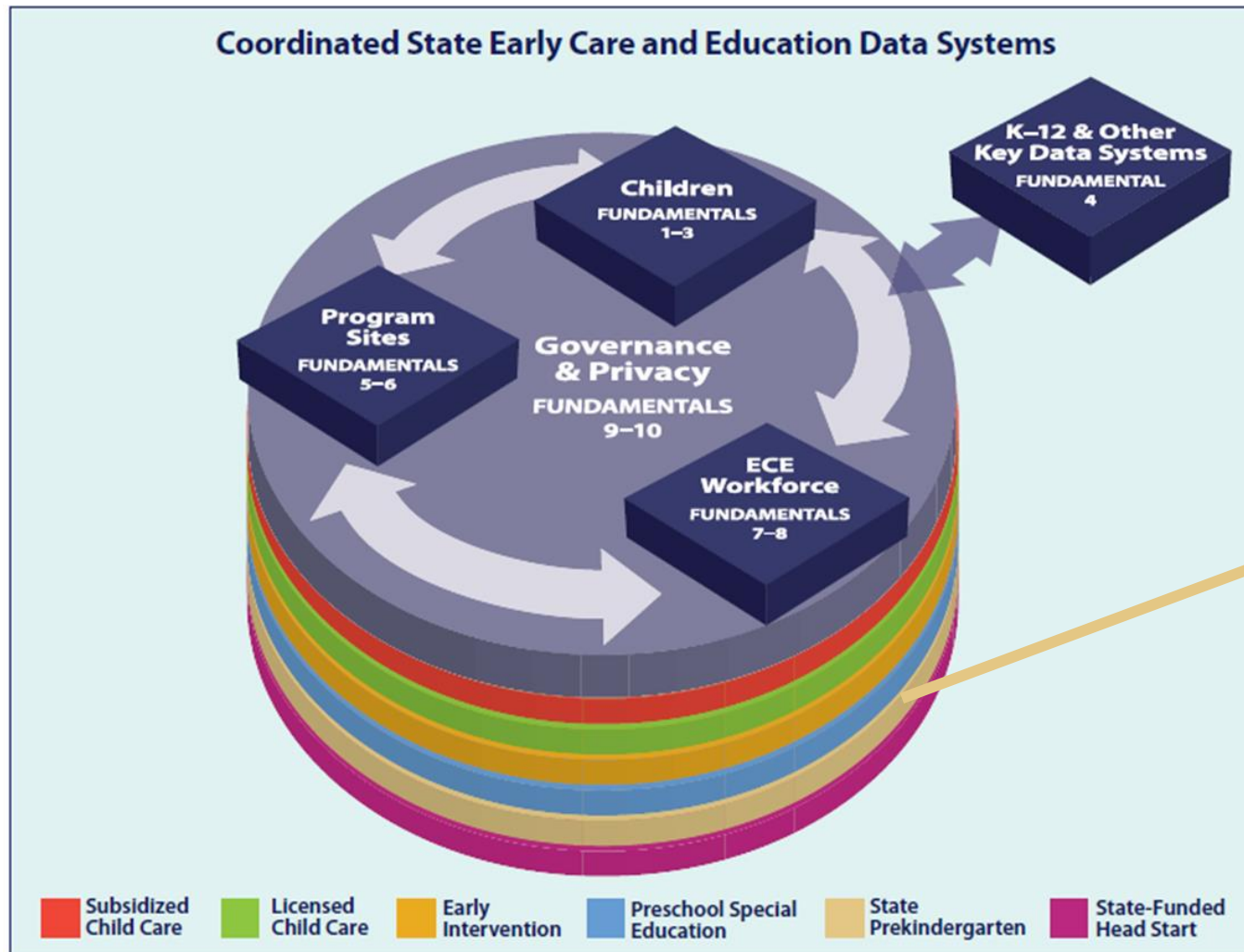
- Access to high-quality programs
- Program quality
- ECE workforce quality
- Child outcomes

Equity Policy concerns:

- Equal access to high quality early childhood programs
- Preschool expulsion
- Equity for early learning professionals



Early Childhood Data Landscape



Pre-K
State-funded
Pre-K
Locally-
funded Pre-K

Why are preschool data accessibility and infrastructures important?

Early care and education are fragmented, with multiple agencies at different levels (state and local) serving preschool-aged children in various settings (center-based, home-based, pre-K, etc.).



SCHOOL



CHILD CARE CENTER



FAMILY CHILD CARE HOME



HOME WITH CAREGIVER



FAMILY, FRIEND, NEIGHBOR

State-funded Pre-K Data Survey Methods

Survey Design

Understand states' data capacity, infrastructure, and ability to use data



Data access and quality



Data uses and users



Data infrastructure and linking



Data storage

Developed in tandem with the STEP Forward with Data Framework

Distribution and Sample



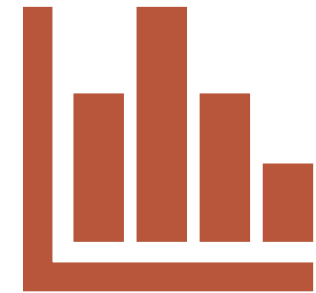
Survey fielded:
December 2022 -
March 2023



Sent to
multiple pre-K contacts
within the 45 states



Received
39 survey responses
from 35 states



Final sample:
43 states (35 survey
responses + 8 states
using public data)

Key Findings



Data access and quality



Data uses and users



Data infrastructure
and linking



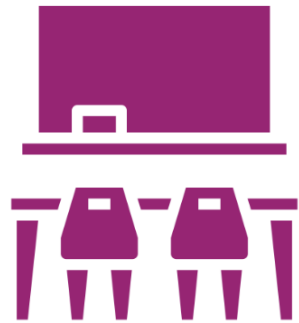
Data storage

Data Access

Data Access and Quality



93% of states
had access to
child-level data



93% of states
had access to
program-level
data



74% of states
had access to
workforce-level
data



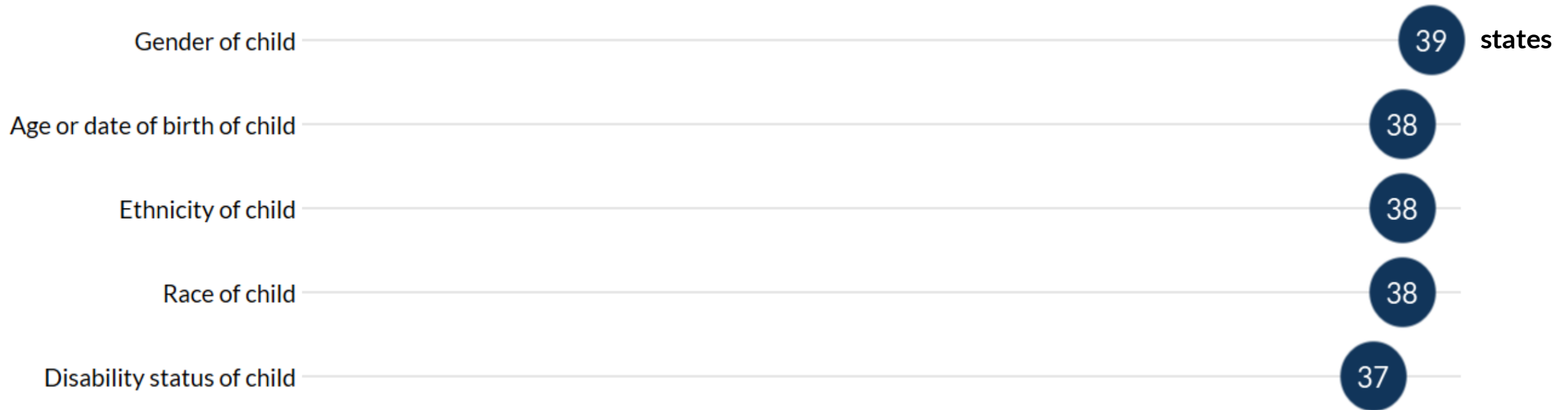
84% of states
could report
on system-level
data



Data quality
concerns were
raised across all
data collected

What were the most accessible child-level data elements? (n=40)

93% of states had access to child-level data.



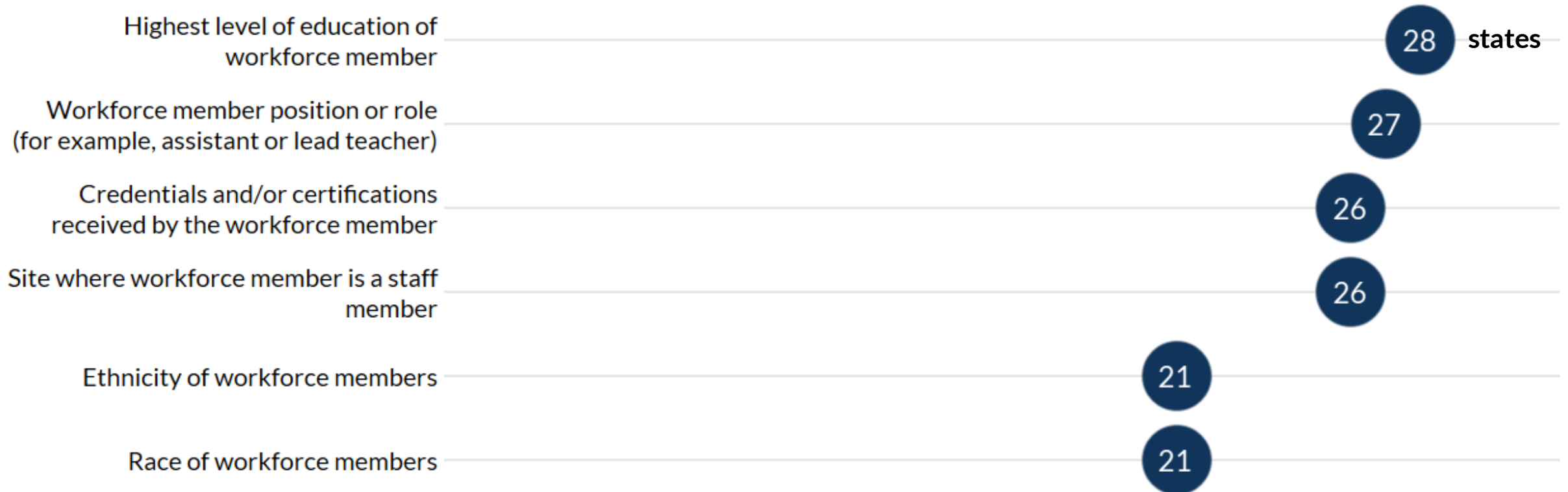
What were the most accessible program-level data elements? (n=40)

93% of states had access to program-level data.



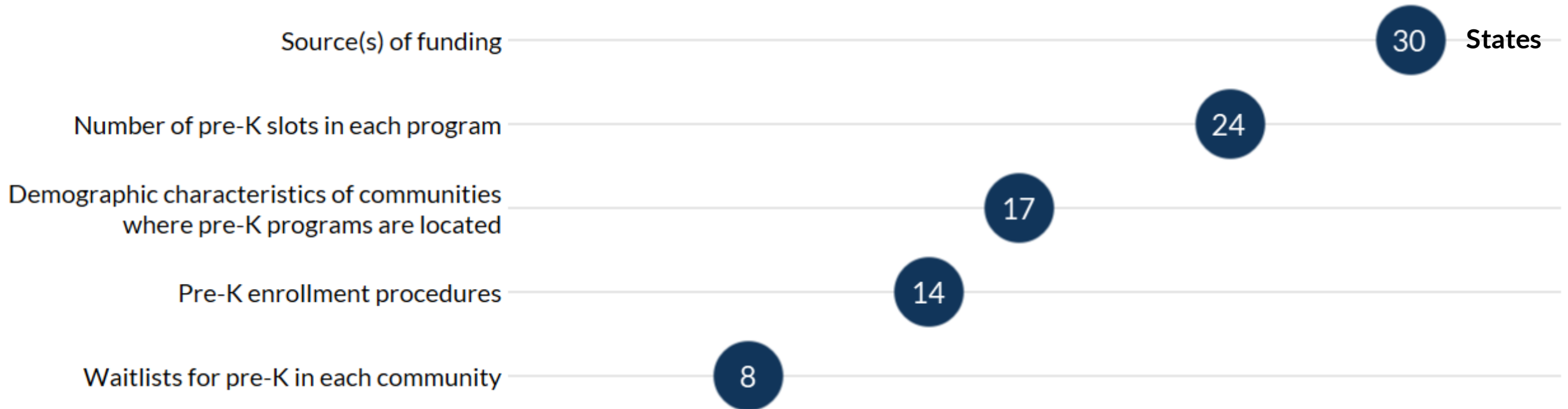
What were the most accessible workforce-level data elements? (n=32)

74% of states had access to child-level data.

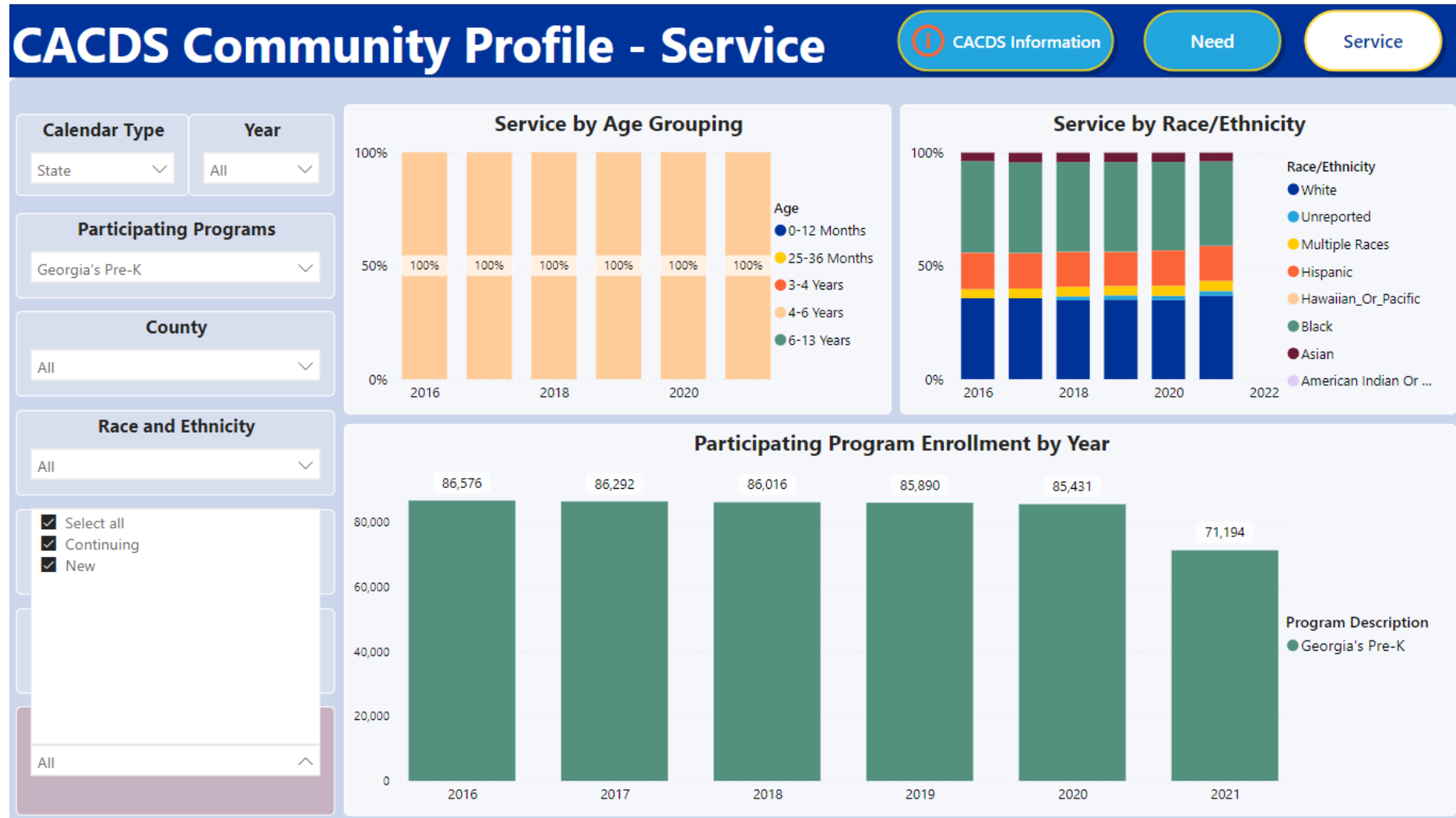


What were the most accessible system-level data elements? (n=36)

84% of states had access to system-level data.



Georgia's Cross Agency Child Data System (CACDS)

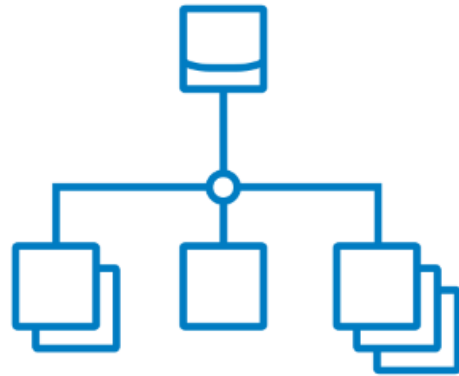


Data Uses and Users

Data Disaggregation



83% of states can disaggregate data by child and family characteristics



Less than half of states can disaggregate by income, tribal affiliation, and country of birth

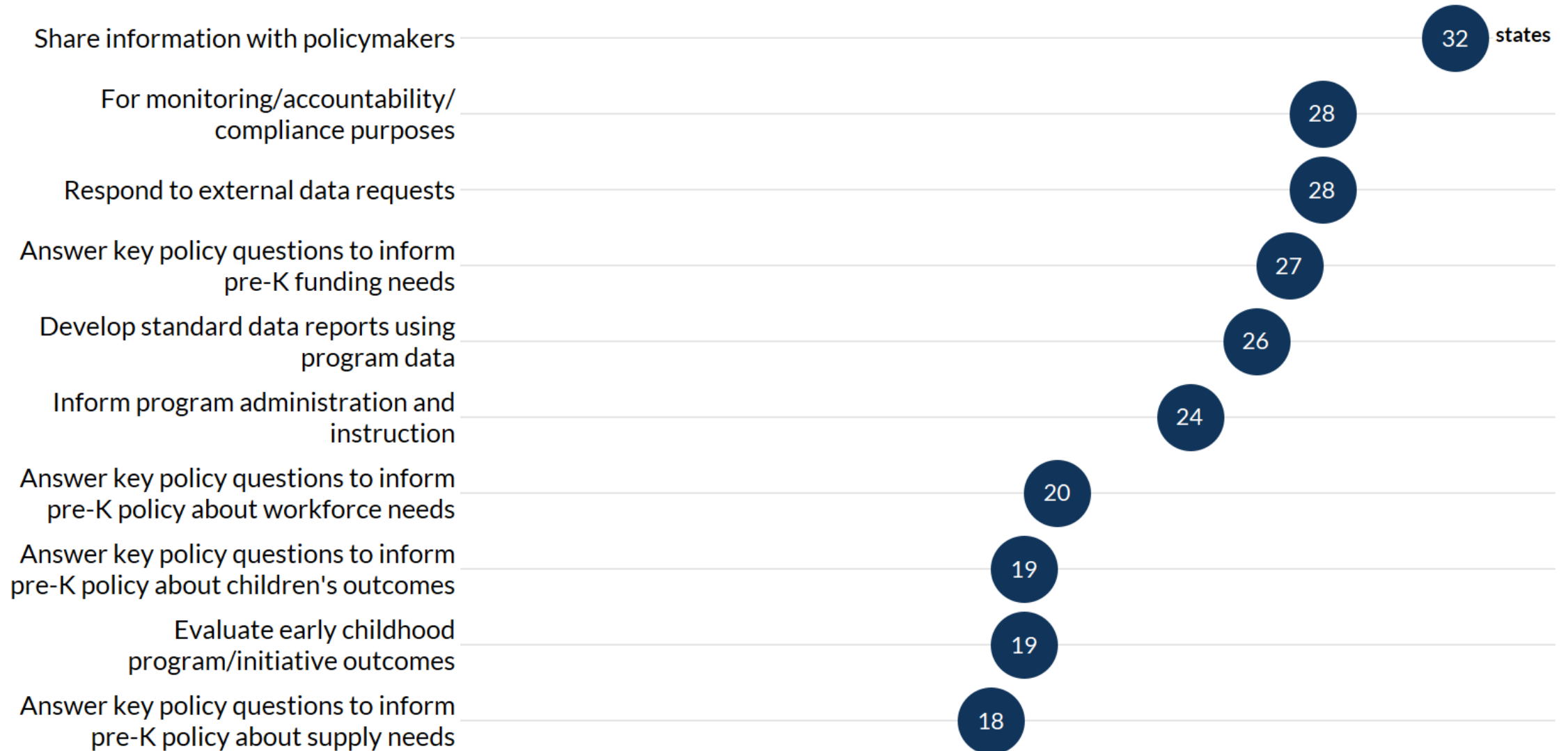


47% of states can report on their community demographics; 17% can report on families' needs.

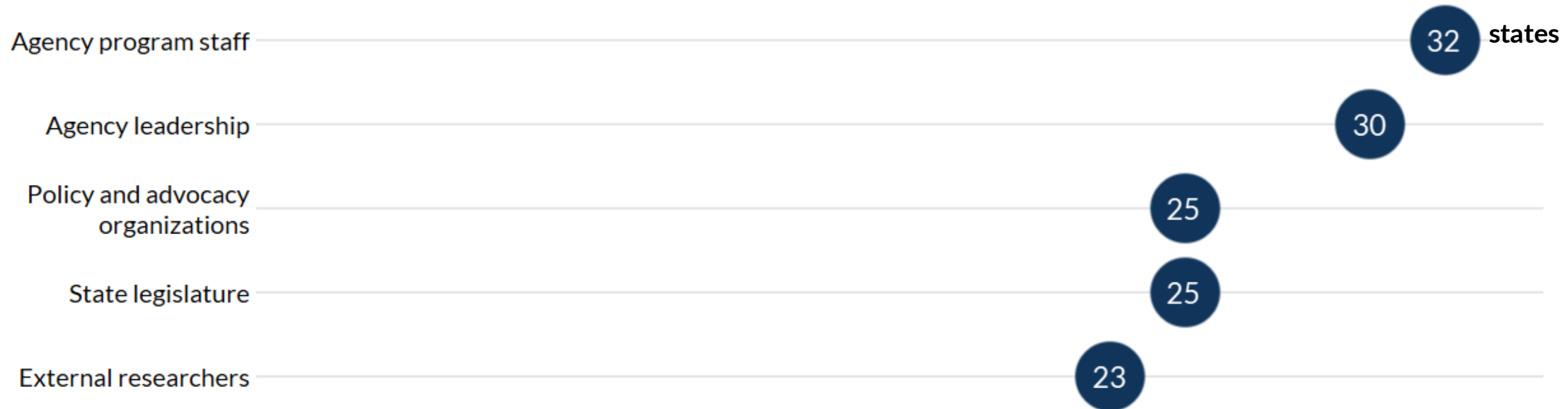
Can states disaggregate data by child and family characteristics? (n=35)



How do respondents use pre-K data? (n=35)



Who uses pre-K data? (n=35)



North Carolina Early Childhood Integrated Data System (NC ECIDS)

Select Filters ▾

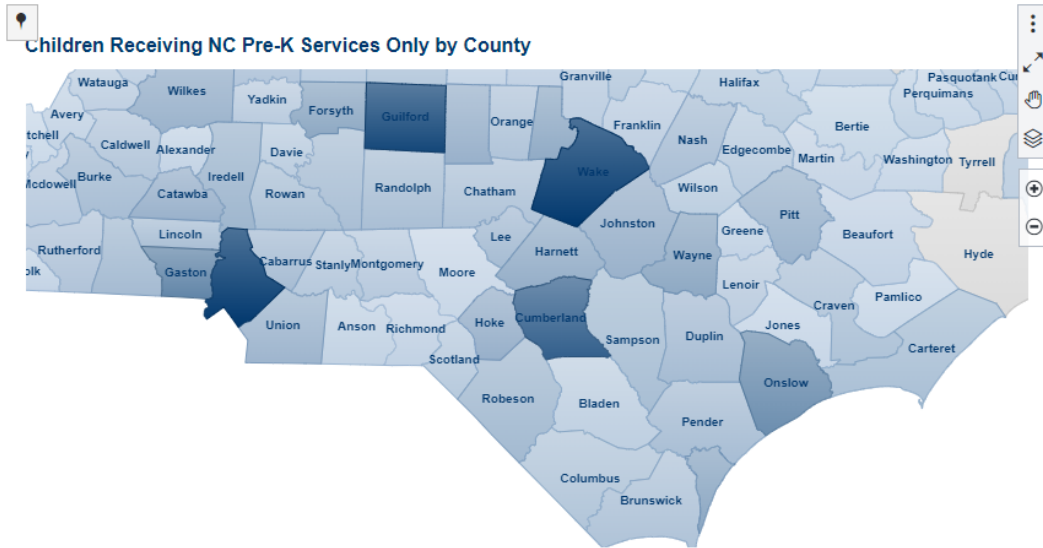
Children Receiving NC Pre-K Services

28,417

Children Receiving NC Pre-K Services Only

12,436

Selected Filters: Fiscal Year: 2019-2020, Gender: <No item selected>, Race Ethnicity: <No item selected>, County: <No item selected>



Children Receiving NC Pre-K Services Only by Race Ethnicity and Gender

< NC Pre-K Services Only by Race Ethnicity | NC Pre-K Services Only by Gender >

Race Ethnicity	Number of Children	Percentage of Children
American Indian or Alaska Native	161	1.29%
Asian	456	3.67%
Black/African American	2,908	23.38%
Hawaiian or Pacific Islander	*	*
Hispanic/Latino	3,872	31.13%
White/Caucasian	4,476	35.99%
Multiple Races	551	4.43%
Unreported	*	*

Alabama Data Dashboard



Source: Alabama Department of Early Childhood Education.

Data Infrastructure and Linking

Data Infrastructure



**Over 2/3 of states
can link pre-K and
K-12 data**

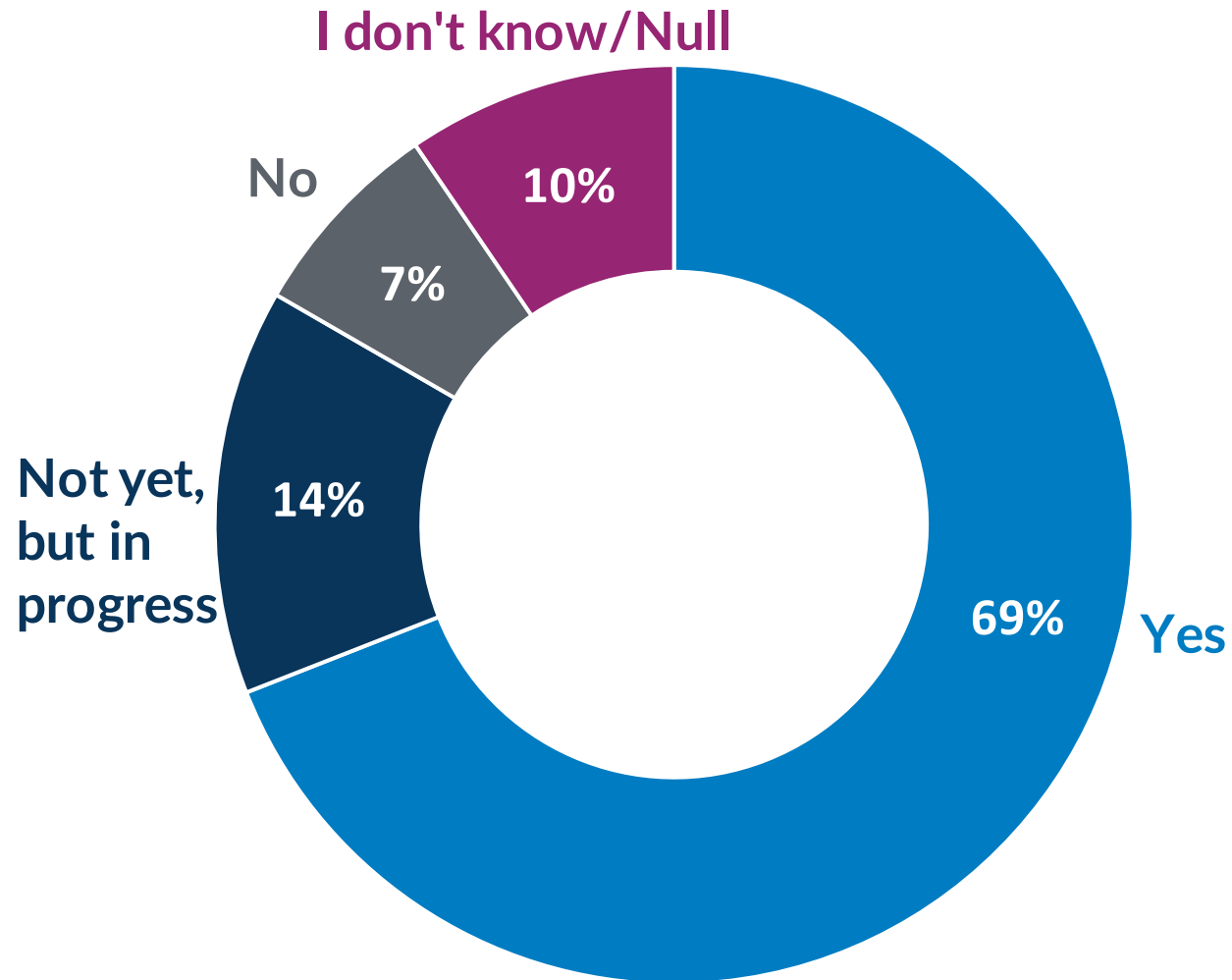


**Unique identifiers were
frequently identified as
facilitators to access,
link, and use data**

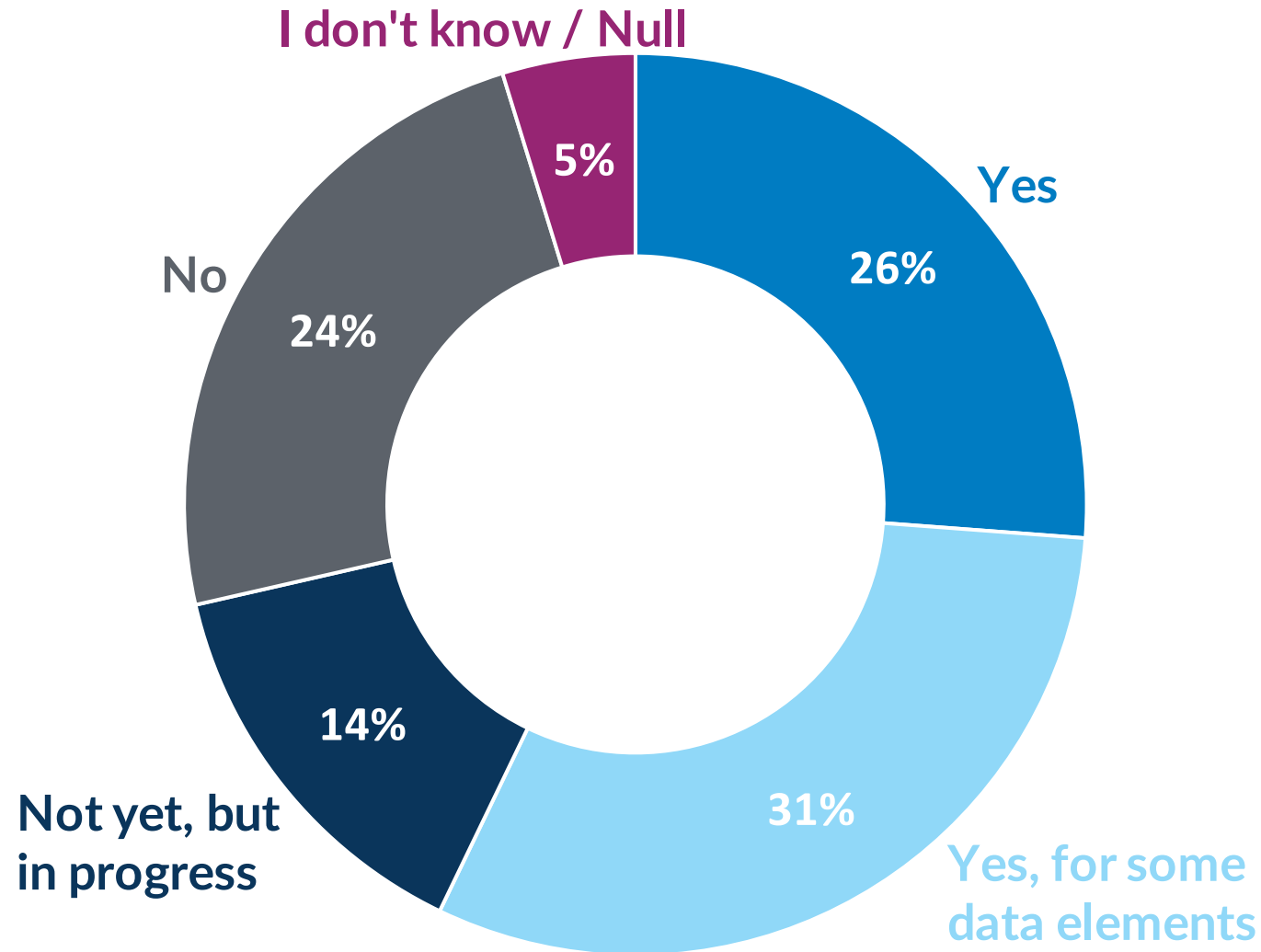


**Most states
reported data being
siloed across
database systems**

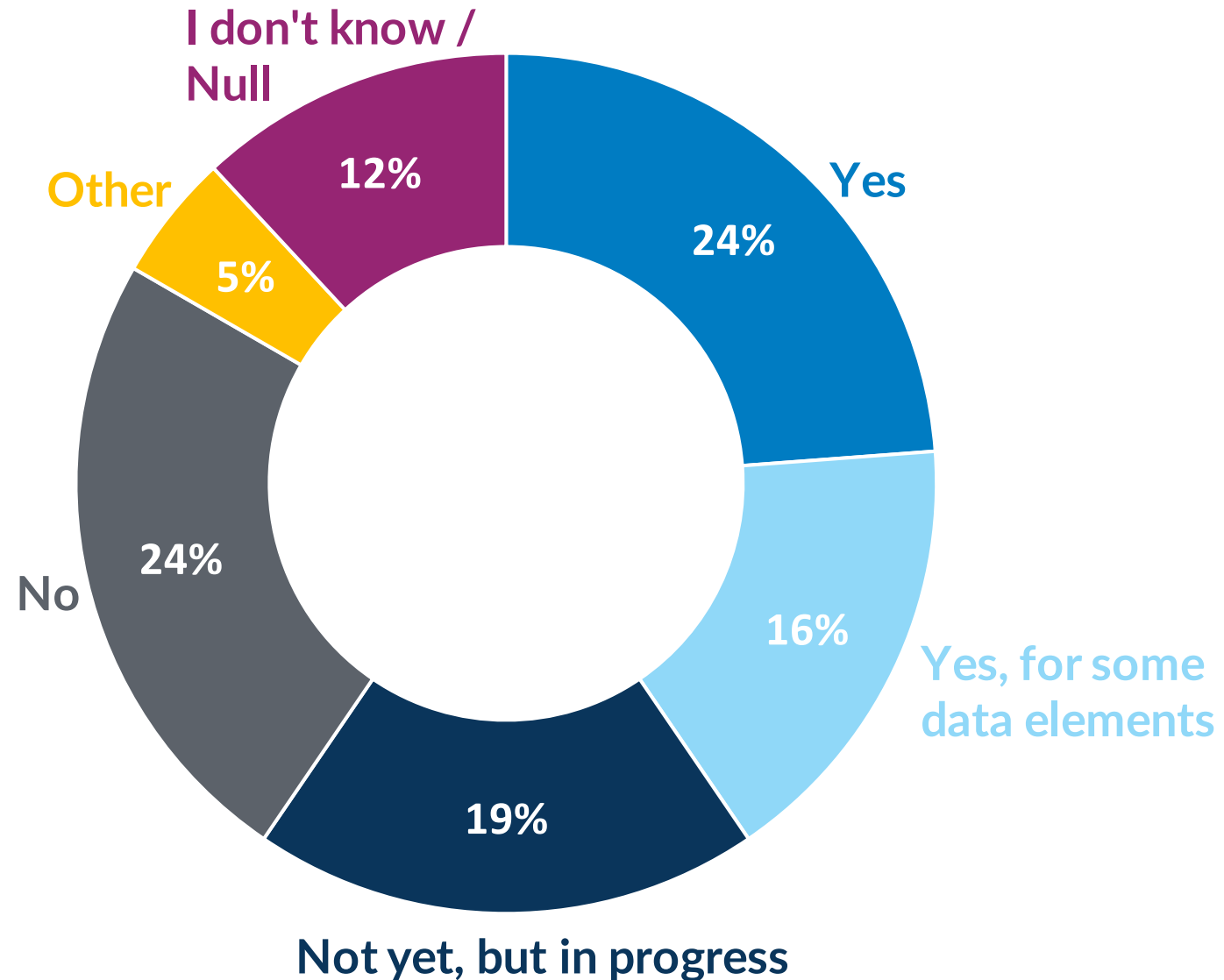
Do state agencies link state-funded pre-K program data to K-12 data? (n=42)




Can child, program, workforce, or system-level data be linked together? (n=42)



Can pre-K data be linked across other pre-K programs, such as Head Start? (n=42)



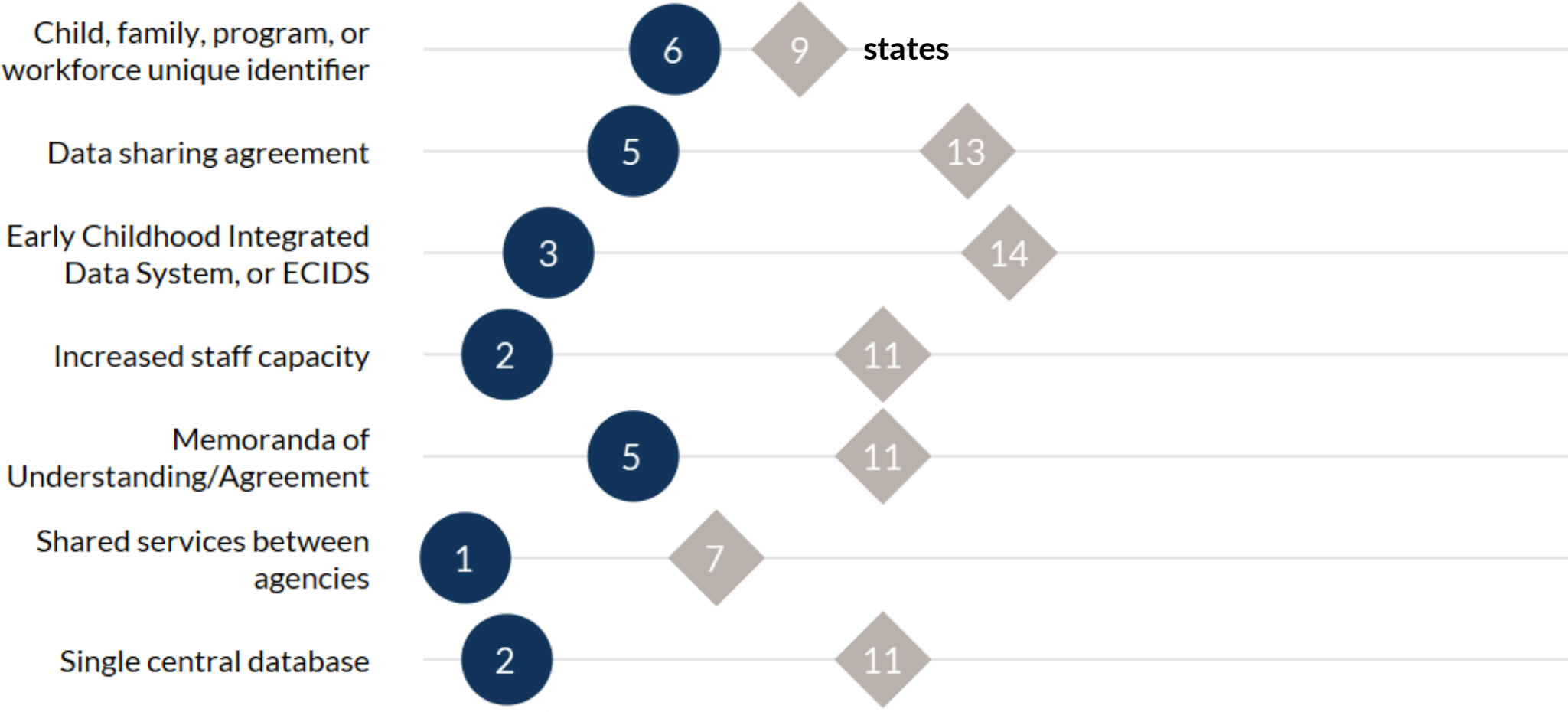
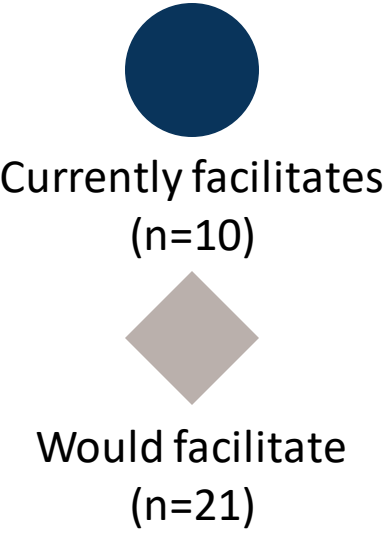
What facilitates the state agency's ability to coordinate or link data across programs?

 Currently facilitates (n=10)



Source: Child Trends' State-funded Pre-K Data Survey.

What does or would facilitate the state agency's ability to coordinate or link data across programs?



Source: Child Trends' State-funded Pre-K Data Survey.

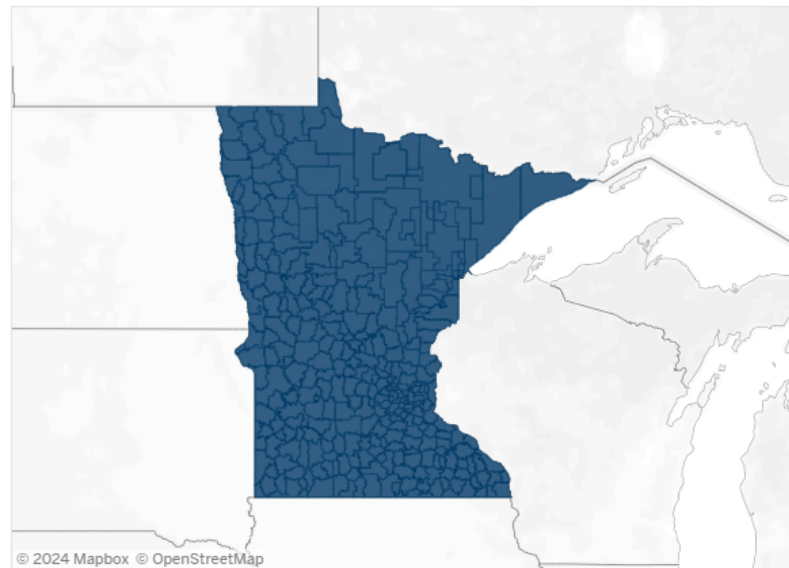
Minnesota Early Childhood Longitudinal Data System



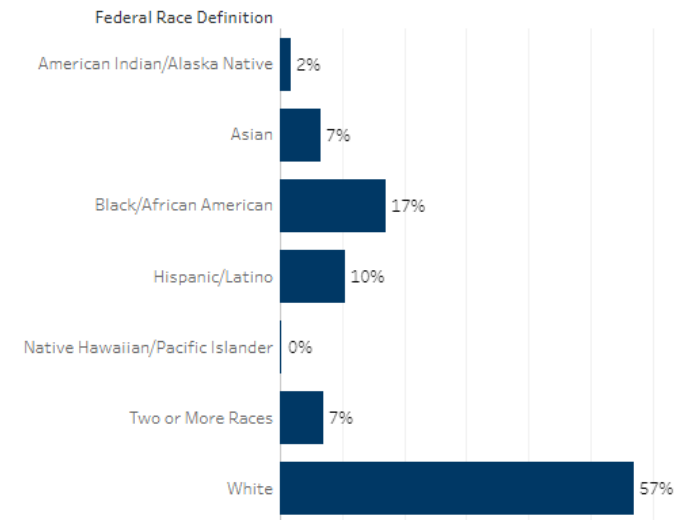
Minnesota Children Participating in Public Early Care and Education

Fiscal Year: 2021 |
 Select Map: School Districts |
 County Name: (All) |
 District Name: (All) |
 Federal Race Definition: (All)

MN Public Kindergartners	Count with Public ECE Participation	% with Public ECE Participation
63,646	32,330	50.8%



Known ECE Participation by Race

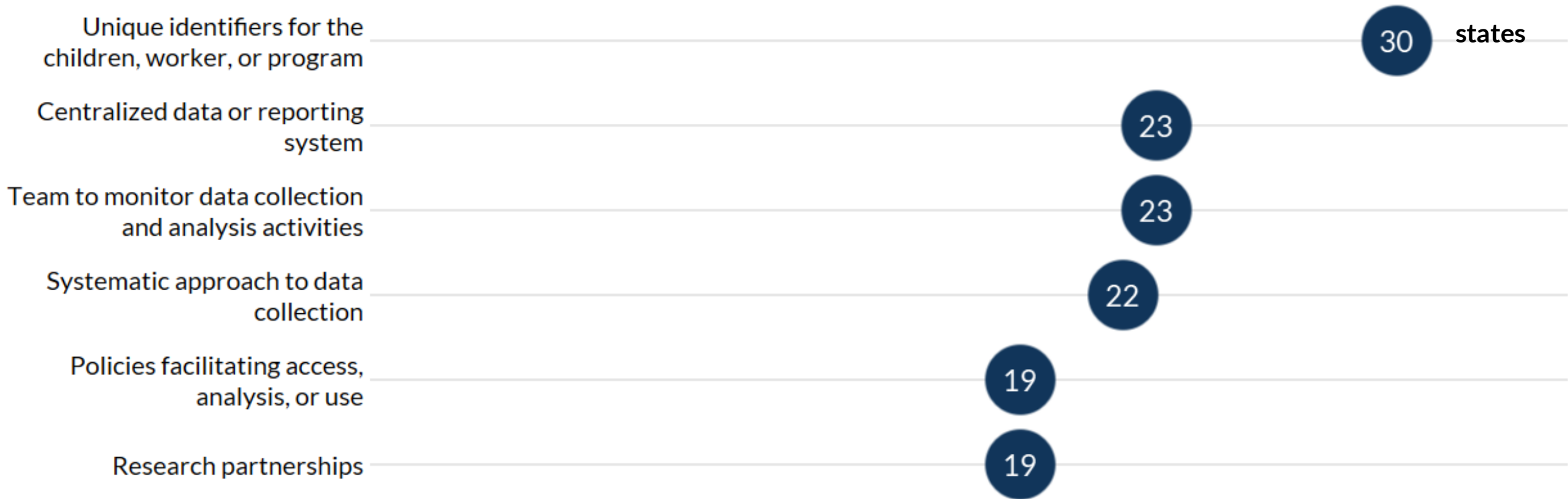


Economic and Food Assistance Participation by ECE Program

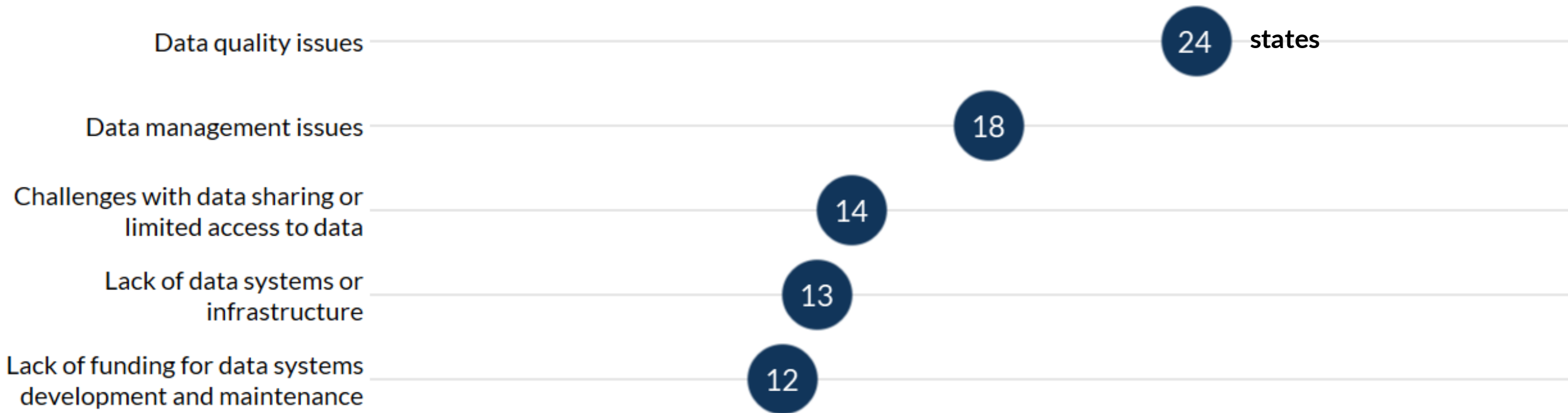
Food Assistance Populations	CCAP	ECFE	ECSE	District Pre-K
Food Assistance Only (No MFIP/DWP)	3,895	1,564	3,639	6,492
MFIP/DWP	1,990	209	804	1,341
No MFIP/DWP or Food Assistance	1,053	5,456	5,887	10,636

Data Storage and Usage

Supports that strengthen respondents' ability to access, analyze, or use pre-K data (n=35)



Barriers that respondents face in their ability to access, analyze, or use pre-K data (n=35)



Additional Resources

Interactive Maps and State Profiles

Map 1: Accessibility Status of State Pre-K Child, Program, and Workforce Data



Access to Data About Children, Programs, Workforce, and Preschool Systems

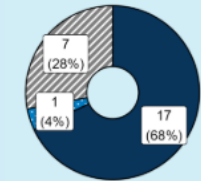
State administrators were first asked if they had access to any child, program, workforce, or system-level data related to their state-funded pre-K program that could be used to inform decision making. Respondents with access then indicated the status of accessibility of specific data elements.

Status of child-level data elements

The following section outlines the reported accessibility of 32 child-level data elements. Child-level data describe specific characteristics of a child, such as their gender, race, or age.

Child-Level Data

- District of Columbia Office of the State Superintendent of Education was able to access **17 out of 32** child-level data elements.*
- On average, state respondents reported being able to access **17 out of 32** child-level data elements.



■ Accessible for use
 ■ Collected, but not accessible
 ■ In process/Not collected

Table A. Accessibility status of child-level data elements, by subcategory.

Subcategory	Accessible	Collected, but not accessible	In process/Not collected
Child Characteristics 	<ul style="list-style-type: none"> Age Disability status Ethnicity Foster care status Gender Race 		<ul style="list-style-type: none"> Country of origin Multilingual learner status
Family Characteristics 	<ul style="list-style-type: none"> Address Family eligibility for financial assistance programs Family housing status Family income level Family migrant status Home language(s) 		<ul style="list-style-type: none"> Family military status Parent education level
Enrollment & Attendance 	<ul style="list-style-type: none"> Attendance Class Kindergarten school 		<ul style="list-style-type: none"> Reasons for attending program Reasons for exiting program
Early Intervention & Assessment Data 	<ul style="list-style-type: none"> Assessment results Assessments conducted 	<ul style="list-style-type: none"> Referrals to additional services 	<ul style="list-style-type: none"> Meeting developmental milestones

State-Level Accessibility of Head Start Data



State-Level Accessibility of Head Start Data Across the United States

Jing Tang, Kara Ulmen, Sara Amadon, Katie Richards, Gabriella Guerra, Ja'Chelle Ball, Carlise King, and Dale Richards

*This research was funded by the Bill & Melinda Gates Foundation. The findings and conclusions within are those of the authors and do not necessarily reflect the positions or policies of the Bill & Melinda Gates Foundation.

January 2024

The Early Childhood
DATA
Collaborative

ChildTrends.

Key Findings

Responses from the 32 HSCOs, representing 32 states, reveal strong data-related capabilities and areas for growth.

HSCOs reported greater access to program- and system-level data than to child- and workforce-level data.

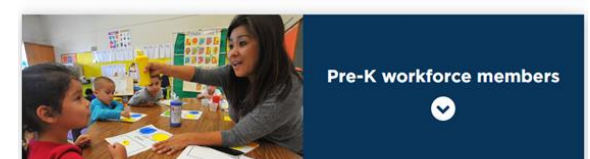
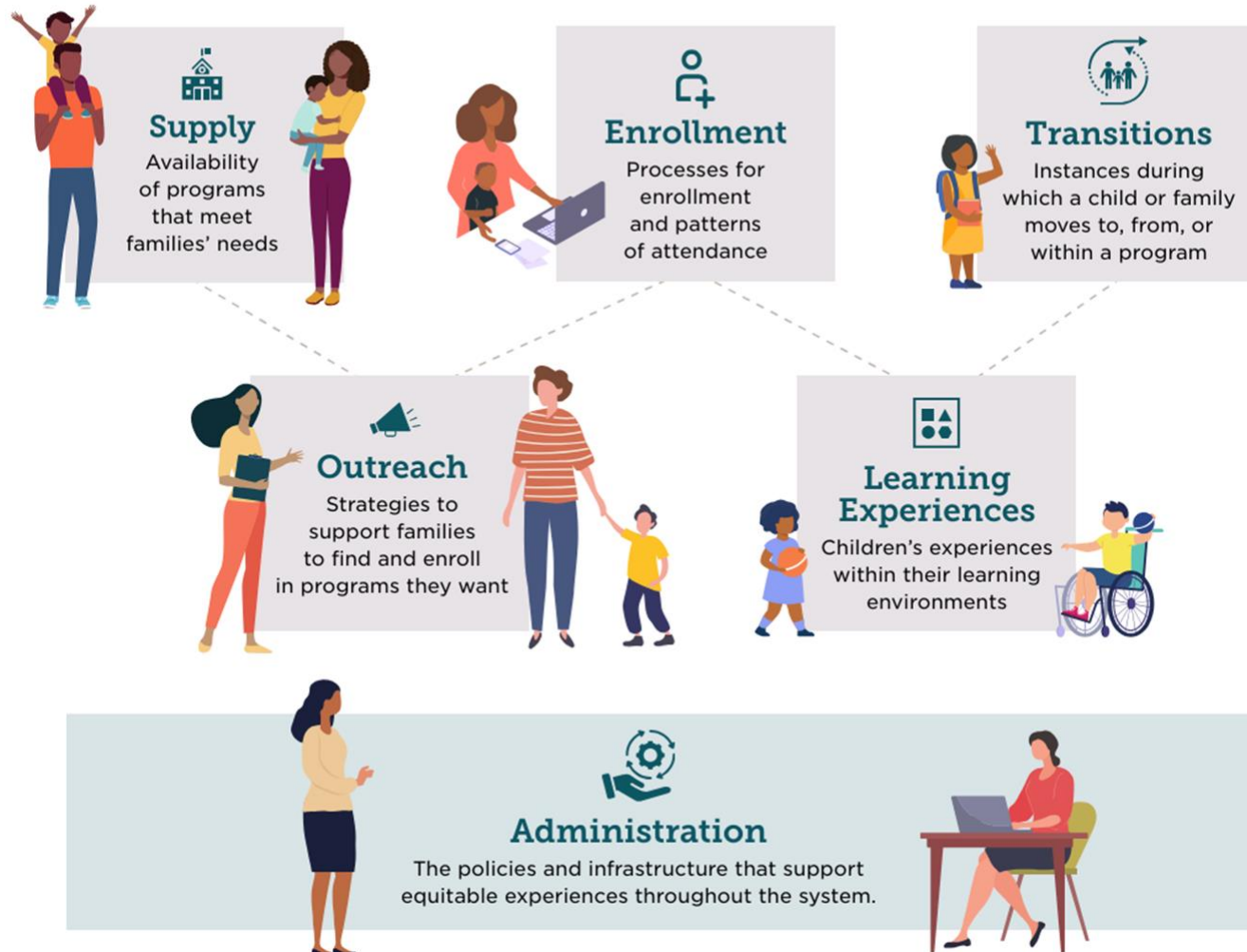
- **Most HSCOs had access to program-level data beyond what is collected in the Program Information Report.** The most frequently reported data element that HSCOs had access to was programs' participation in quality initiatives (e.g., accreditation or QRIS, [n = 22]). Program-level data elements that HSCOs were less likely to have access to included professional development provided to staff (n = 14), classroom observations of instructional practice (n = 12), participation in cultural competency or multicultural trainings for staff at that site (n = 10), and provision of services in specific languages or languages other than English (n = 9).
- **Over two thirds of respondents could report on system-level data.** Among them, most respondents had the ability to report on the number of Head Start slots in each program (n = 22), sources of funding (n = 17), and the demographic characteristics of communities where Head Start programs are located (n = 15). System-level data elements that HSCOs were less likely to have the ability to report on were staff benefits (e.g., staff health care policies, paid vacation policies, and retirement benefit policies, [n = 5]) and funding to support equity-focused activities (n=5).
- **Almost one third of HSCOs indicated access to child-level data elements at the state level.** Among them, HSCOs' most frequently accessible data elements were children's demographics (i.e., age [n = 10], gender [n = 10], disability status [n = 10], ethnicity and race [n = 9]), and name and address of site where child is enrolled (n = 9). Data elements less likely to be accessible by respondents were attendance of child (n = 6), family migrant status (i.e., whether the family moves to follow seasonal work, [n = 6]), family reason for attending the program (n = 6), and family reason for exiting program (n = 6).
- **One half of HSCOs had access to workforce-level data elements.** Among them, the most frequently reported data elements they could access included information about workforce members' roles (n = 16), work sites (n = 15), credentials received (n = 15), and the demographic characteristics of workforce members (i.e., ethnicity [n = 15], race [n = 15], language(s) spoken [n = 15], and age [n = 10]). Data elements that were less accessible to HSCOs included presence of a professional development plan for the workforce member (n = 6), whether the workforce member has health insurance (n = 6), and enrollment in financial assistance programs (n = 5).

The capacity to disaggregate data by child, family, and community characteristics varied across respondents.

- **Almost half of HSCOs were able to disaggregate data by child and family characteristics.** Respondents reported that data could be disaggregated by some child and family characteristics including child race/ethnicity (n = 11), child disability status (n = 9), and family languages spoken (n = 8).
- **In addition, almost half of HSCOs were able to disaggregate data by community demographic characteristics.** Commonly reported community characteristics included community race/ethnicity (n = 11), community rates of child disability status (n = 11), and median family income in the community (n = 11).

STEP Forward with Data Framework

Preschool System Steps



Action Steps

Action Steps

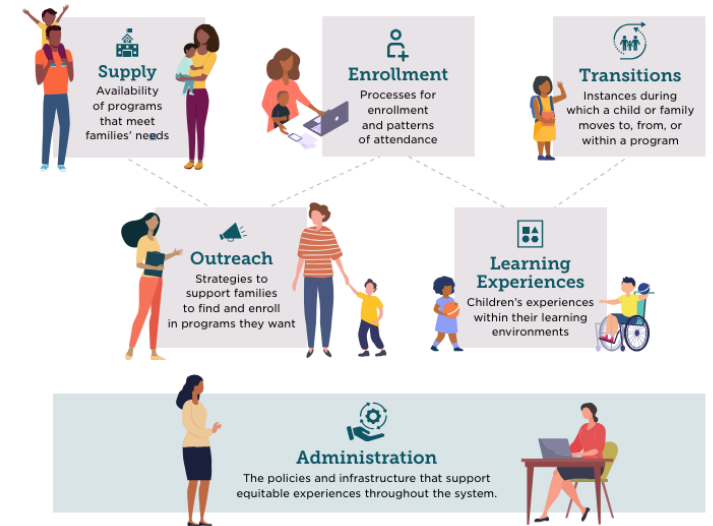


- Identify data collection gaps
- Explore support avenues for data system development



- Consider using federal, state, or foundation funding to strengthen data infrastructure and data capacity

Preschool System Steps



- Use STEP Forward with Data Framework to build and enhance an equitable preschool system

Questions?

Ways to stay connected

Join our listserv to get updates
to upcoming webinars, products
and guides:



Access resources at www.ecedata.org

Contact us at: prekdata@childtrends.org



Thank you!

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