



MOVING FROM INSIGHTS TO ACTION ON SCHOOL READINESS IN THE BAY AREA

Christina Branom, ASR

Kim Carpenter, ASR

Chris Hwang, First 5 Alameda

Sarah Crow, First 5 Contra Costa

Theresa Zighera, First 5 San Francisco

Agenda

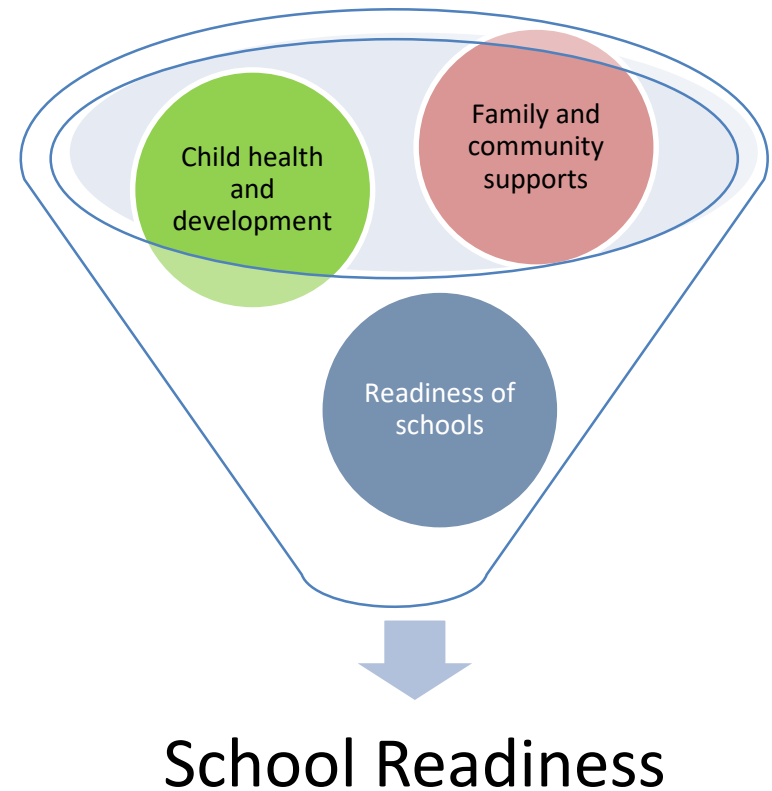
- Introduction to School Readiness
 - What is school readiness and why do we assess it?
 - How do we assess school readiness?
- Bay Area Regional School Readiness Assessment
 - Sample characteristics
 - Readiness levels
 - Factors contributing to readiness, including interventions
- How do we use data to turn the curve on school readiness?
 - How communities have used school readiness data to inform action
 - Group discussion
 - Your main takeaways from the presentation
 - Successful strategies you have seen in your community to improve school readiness
 - Implications for local policy and practice
- Q&A

What is school readiness and why do we measure it?



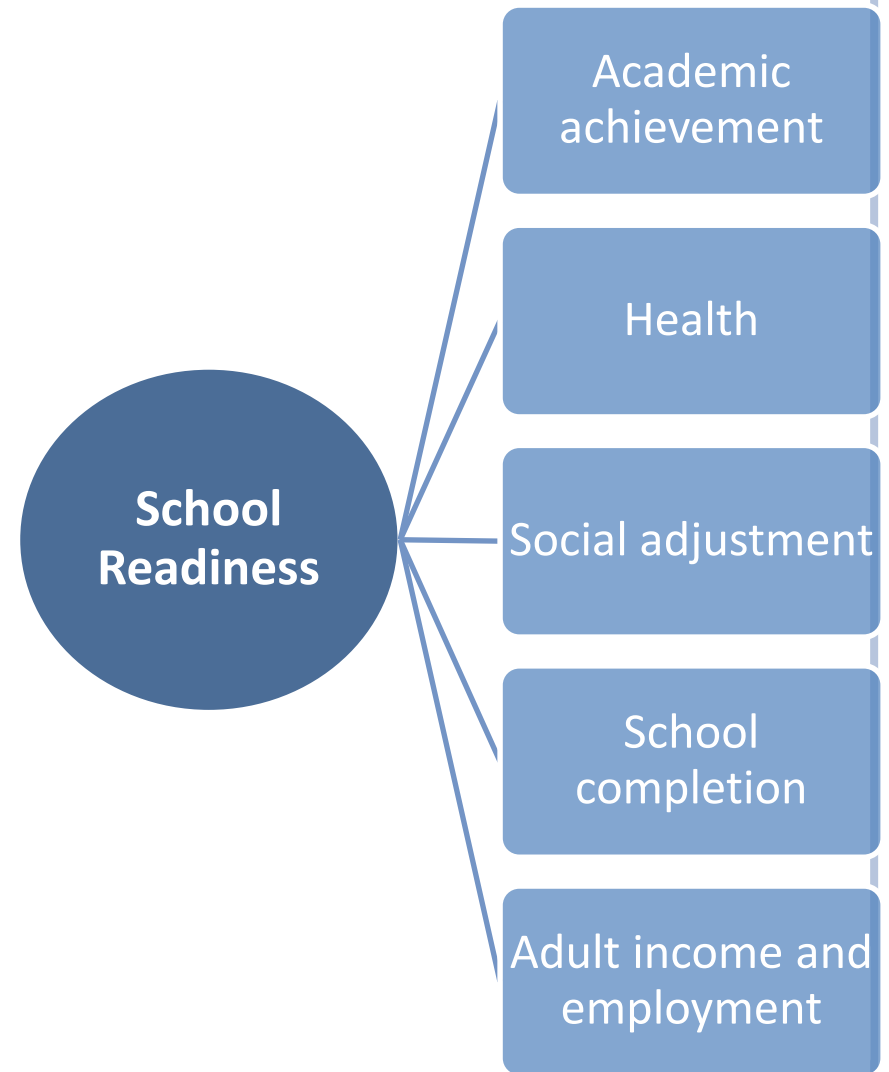
What is school readiness?

- **Child health and development**
 - Physical well-being and motor development
 - Social and emotional development, curiosity and eagerness for learning
 - Language, cognition, and general knowledge
- **Family and community supports for children's readiness**
 - Access to high-quality early childhood education programs
 - Support for parents to help their child learn
 - Children have access to the nutrition, physical activity, and health care they need
- **Readiness of schools**
 - Smooth transition between home and school
 - Continuity between early childhood education and K-12
 - Schools committed to the success of every child



Why does school readiness matter?

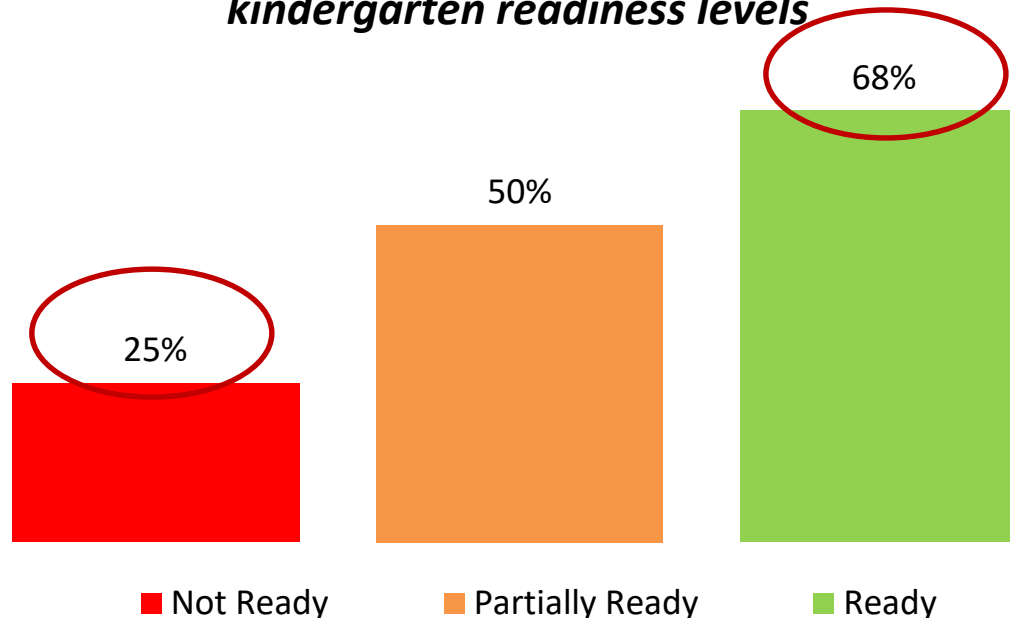
- Comprehensive set of readiness skills predicts
 - 1st grade achievement in math and reading and
 - Teacher and parent assessments of work ethic, social adjustment, and health
- School entry numeracy, literacy, and attention skills predict
 - Reading and math achievement in 3rd grade, 5th grade, and early adolescence
- Poor school readiness is linked to
 - Grade retention
 - Chronic disease rates and disability
 - Engagement in risky behaviors
 - Lower socioeconomic status



Why does school readiness matter?

- Longitudinal studies in the Bay Area have found school readiness to be a strong predictor of 3rd grade achievement
 - In San Francisco for example, close to 70% of children who are ready for kindergarten are proficient in 3rd grade, compared to 25% of children who are not ready

Proportion of students achieving 3rd grade proficiency by kindergarten readiness levels



Why assess school readiness?

- To create a portrait of readiness for a population of children
 - Which children are more ready...and less ready?
 - Which child and family factors are linked to greater readiness?
 - Track trends in readiness over time
- To “look backward” to evaluate interventions for program participants
- To “look forward” to provide formative data to guide K-3 interventions
- To build bridges between ECE and K-12 with common framework and indicators for readiness...a platform for coordinated intervention

How do we measure school readiness?



Child Health and Development

- The Kindergarten Observation Form
 - Holistic view of readiness
 - 20 items based on NEGP framework, with distinct readiness dimensions or “Basic Building Blocks of Readiness”
 - Teacher-generated, researcher-refined
 - Common Core-aligned
 - Validated against standardized measures of child development
 - Predicts 3rd grade test scores
 - Administered by trained K teachers in the first month of school



Family and Community Supports for Children

- Parent Information Form
 - Self-administered parent survey
 - Research-based predictors of readiness, such as:
 - Early education experience of child
 - Transition activities
 - Family activities like reading-aloud, arts/crafts, exercise
 - Protective factors
 - Background and demographic information
 - Provided in languages commonly spoken in the region, including Spanish and Chinese

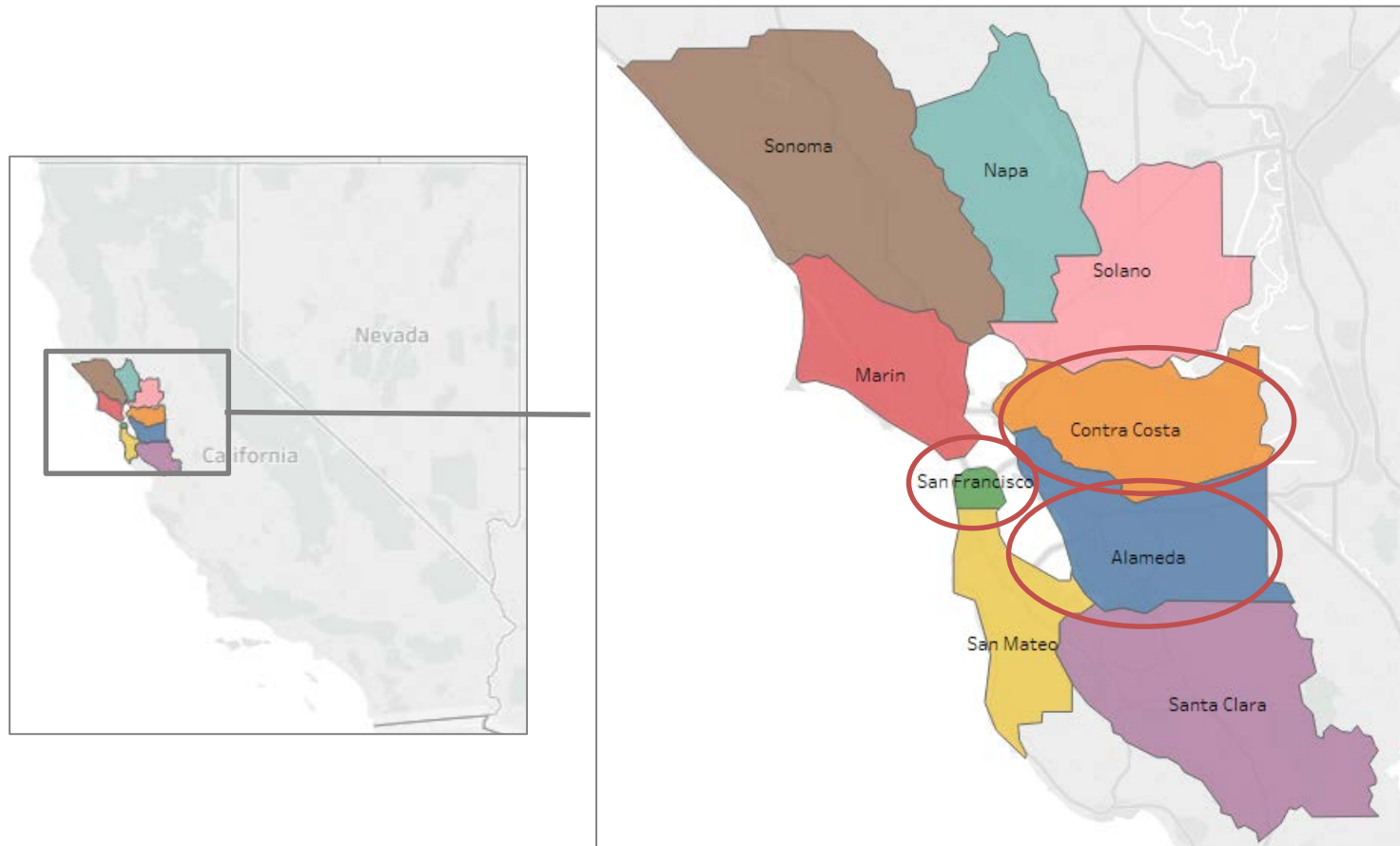
- Secondary program/service data (program or school records)

Bay Area Regional School Readiness Assessment



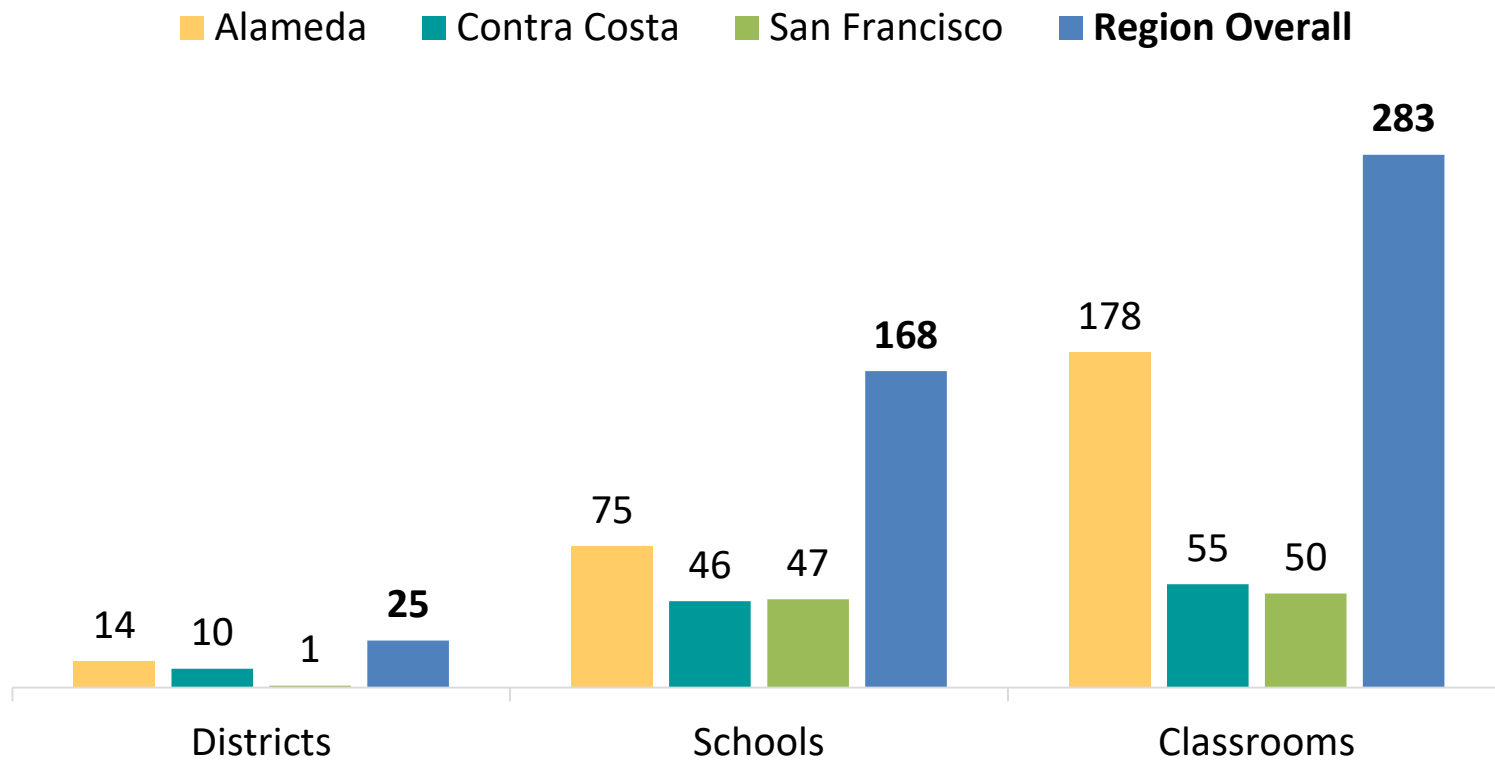
Study Location: San Francisco Bay Area

- 9-county region home to over 500,000 children 0-5
- Large countywide samples drawn from Alameda, Contra Costa, and San Francisco



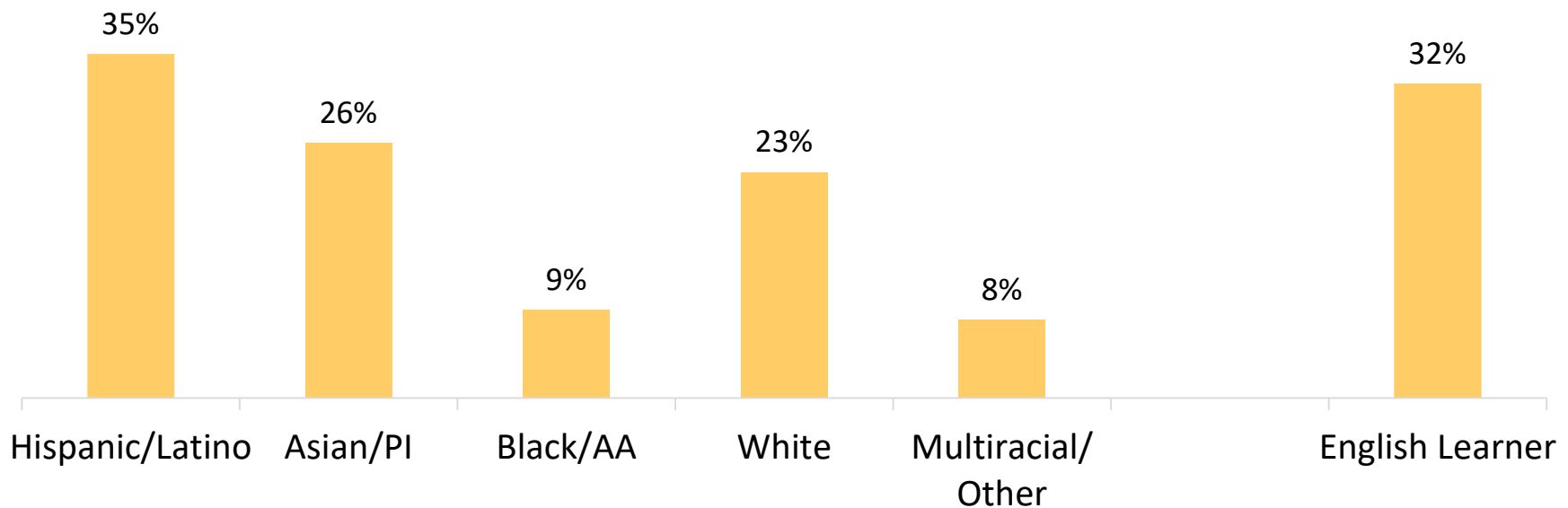
Study Sample

- Assessments were conducted in 283 classrooms in Fall of 2015 (Alameda and SF) and 2017 (Alameda and CC)



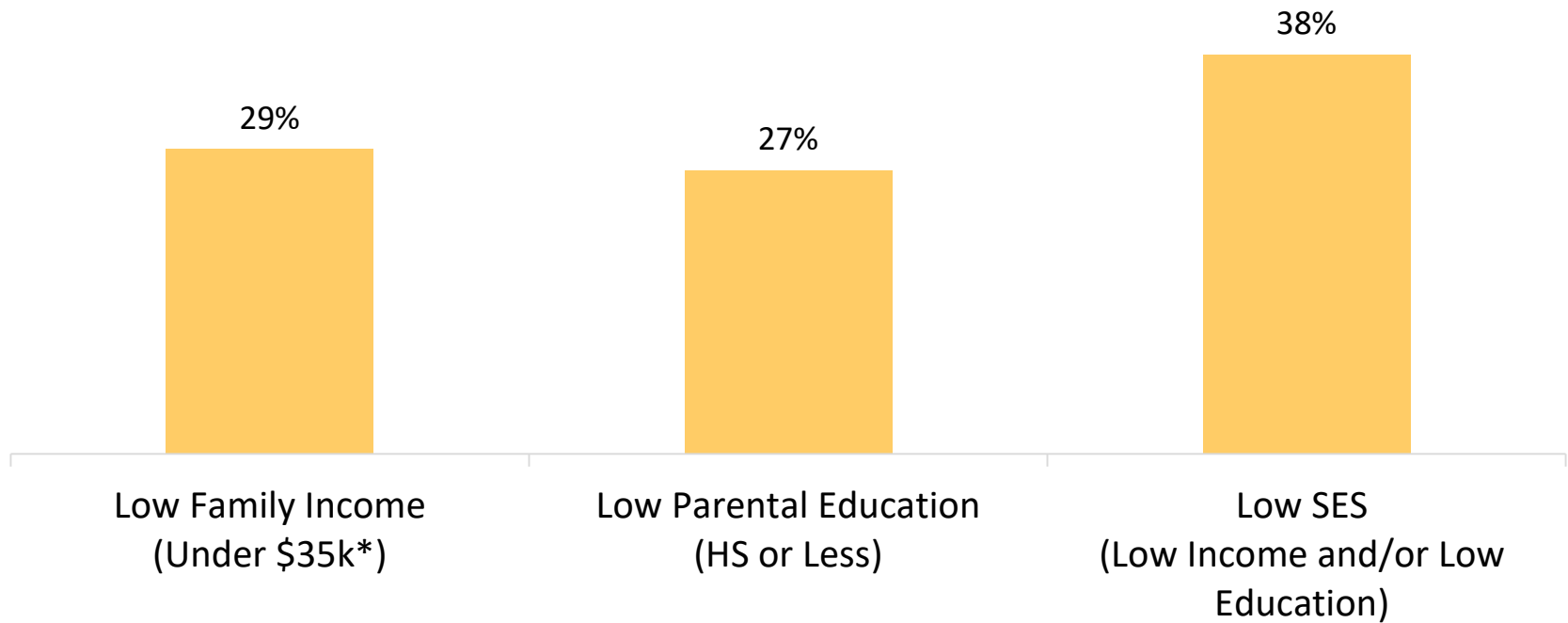
Sample Demographics

- Over 5,000 students were assessed on the KOF
 - 2,974 in Alameda
 - 1,154 in Contra Costa
 - 893 San Francisco
- Statistical weights were applied to the sample so that the results are representative of the region



Socioeconomic Status

- About 30% of families were very low income
 - Median household income in the region is about \$83,000 per year
 - Fair market rent for one-bedroom apartment averages over \$2,000 per month
- 27% of mothers had no more than high school education

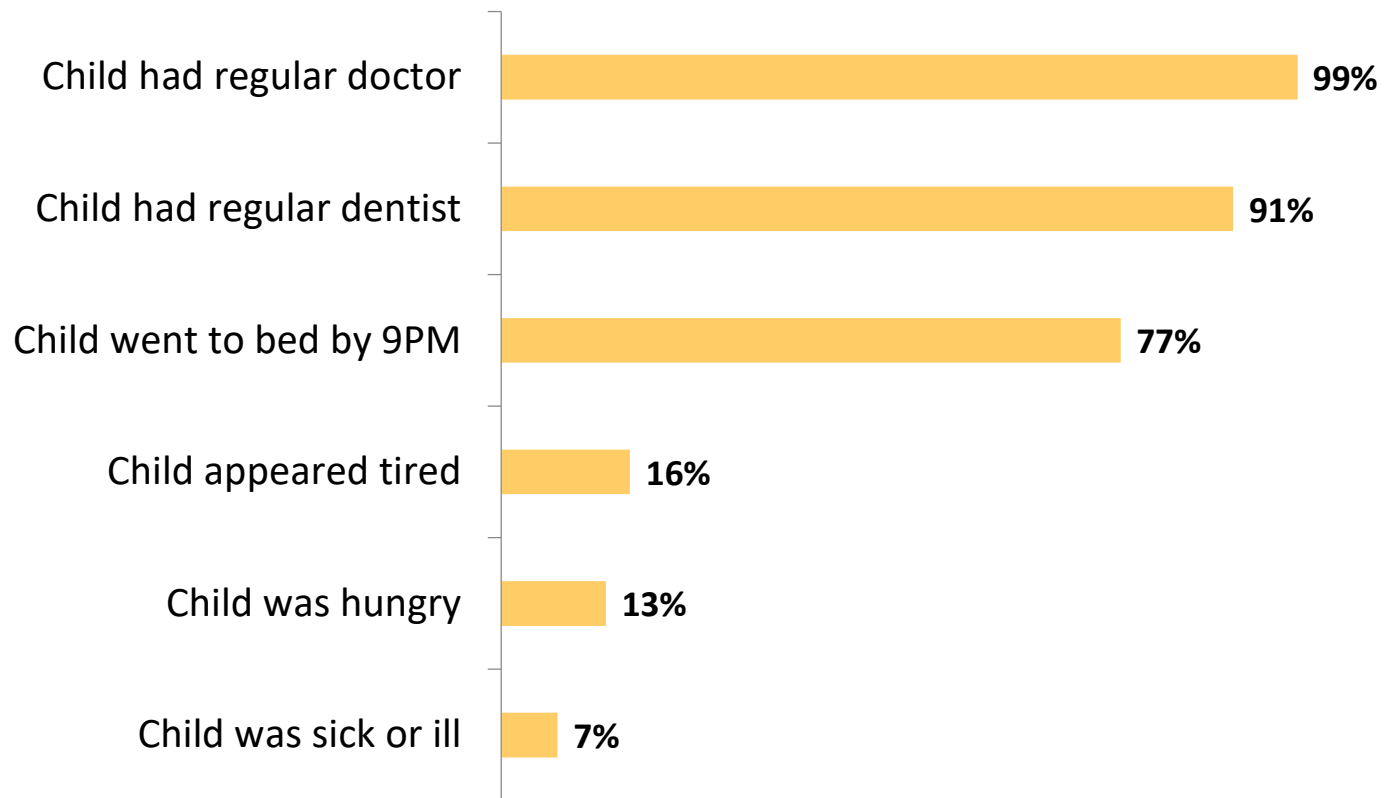


N=4155-4314. Note: Data were weighted to approximate county (kindergartener population), race/ethnicity, and English Learner status of all three counties. *Due to differences in the parent survey question about family income, percentage for San Francisco represents percent earning below \$32,000

Regional economic data from U.S. Census American Community Survey and Department of Housing and Urban Development.

Health and Well-Being

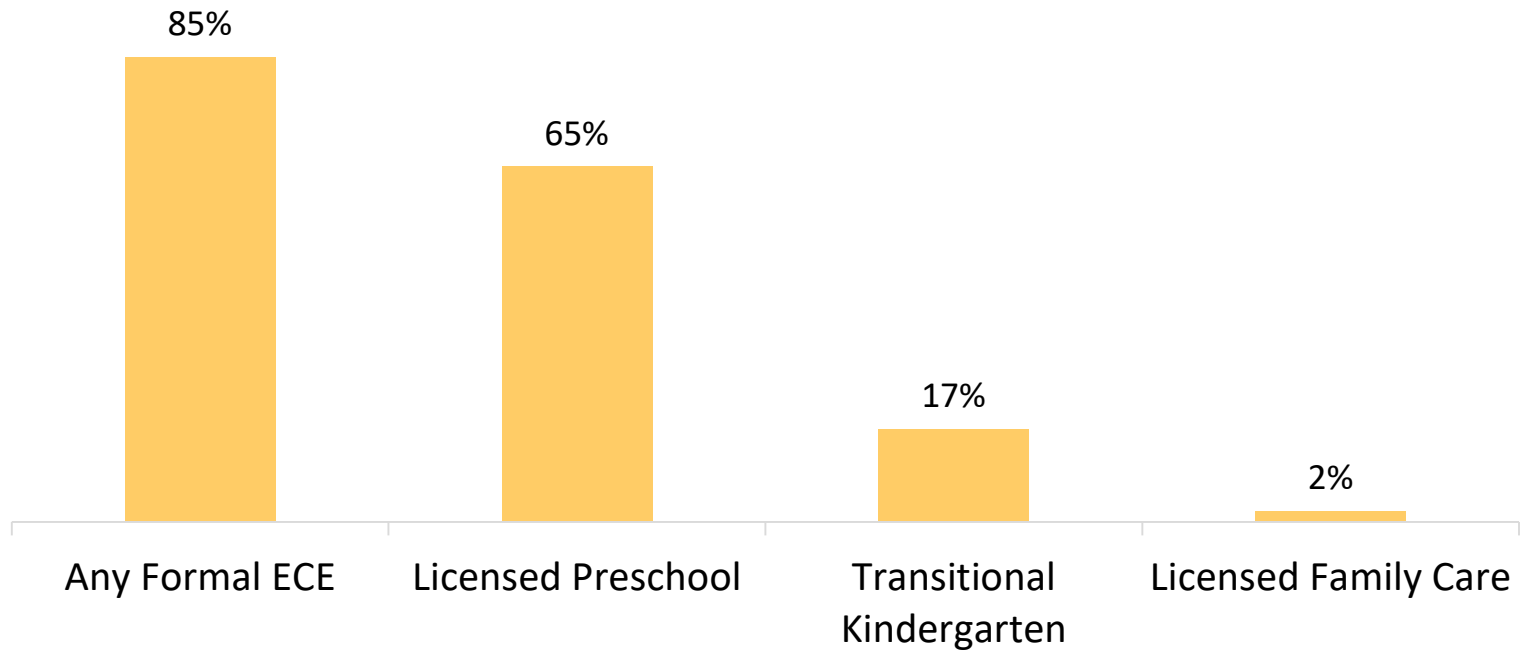
- Most children had access to regular health care, went to bed by 9 PM, and did not show signs of health and well-being concerns



N=4282-4999. Note: Data were weighted to approximate county (kindergartener population), race/ethnicity, and English Learner status of all three counties. Child tired/sick/hungry items reflect percentage of students who “On some days,” “On most days,” or “Just about every day” exhibited these concerns.

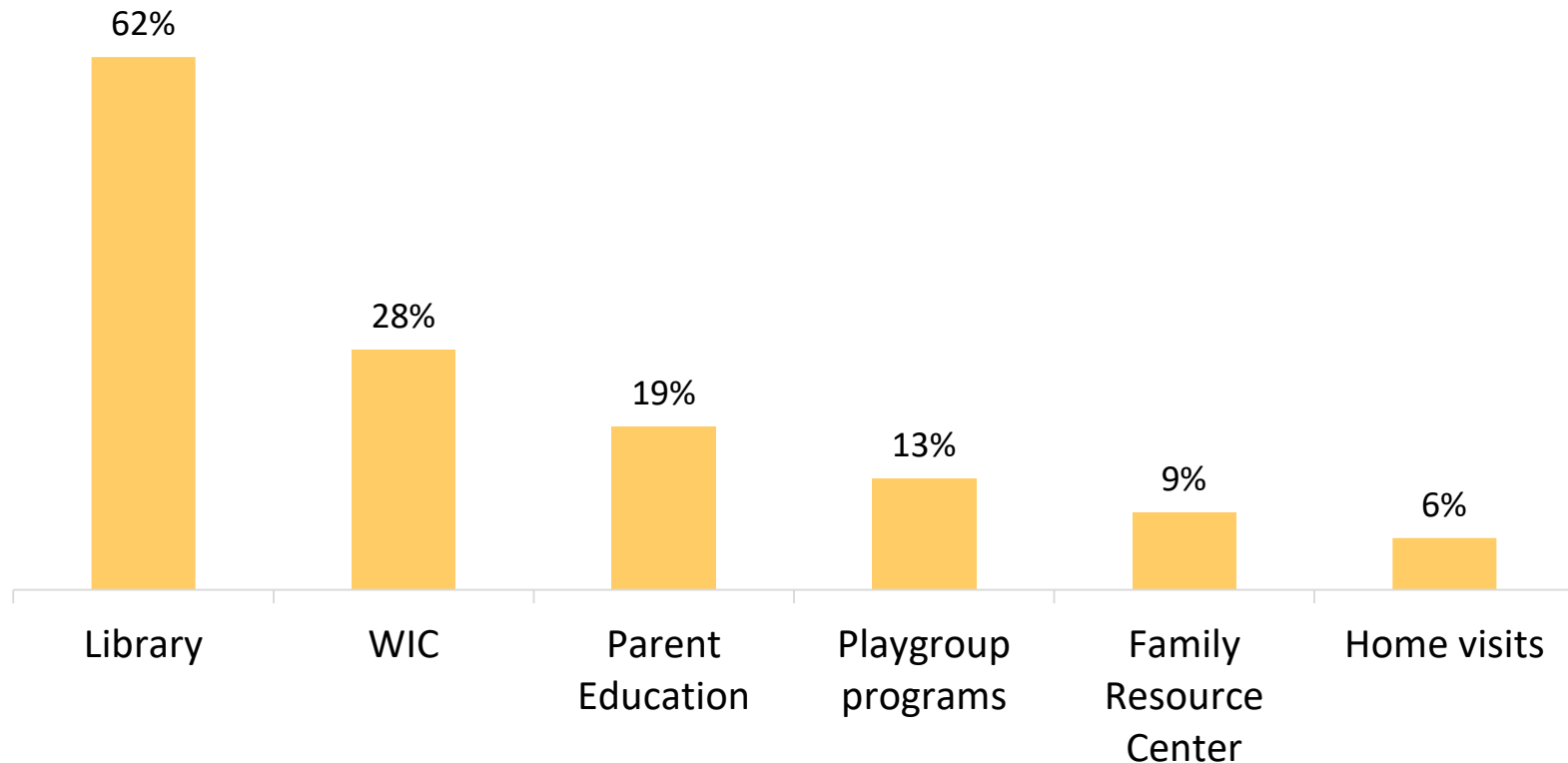
Early Childhood Education

- 85% had formal ECE experience, including licensed preschool (65%), Transitional Kindergarten (17%), or licensed family care (2%)



Family Use of Community Resources

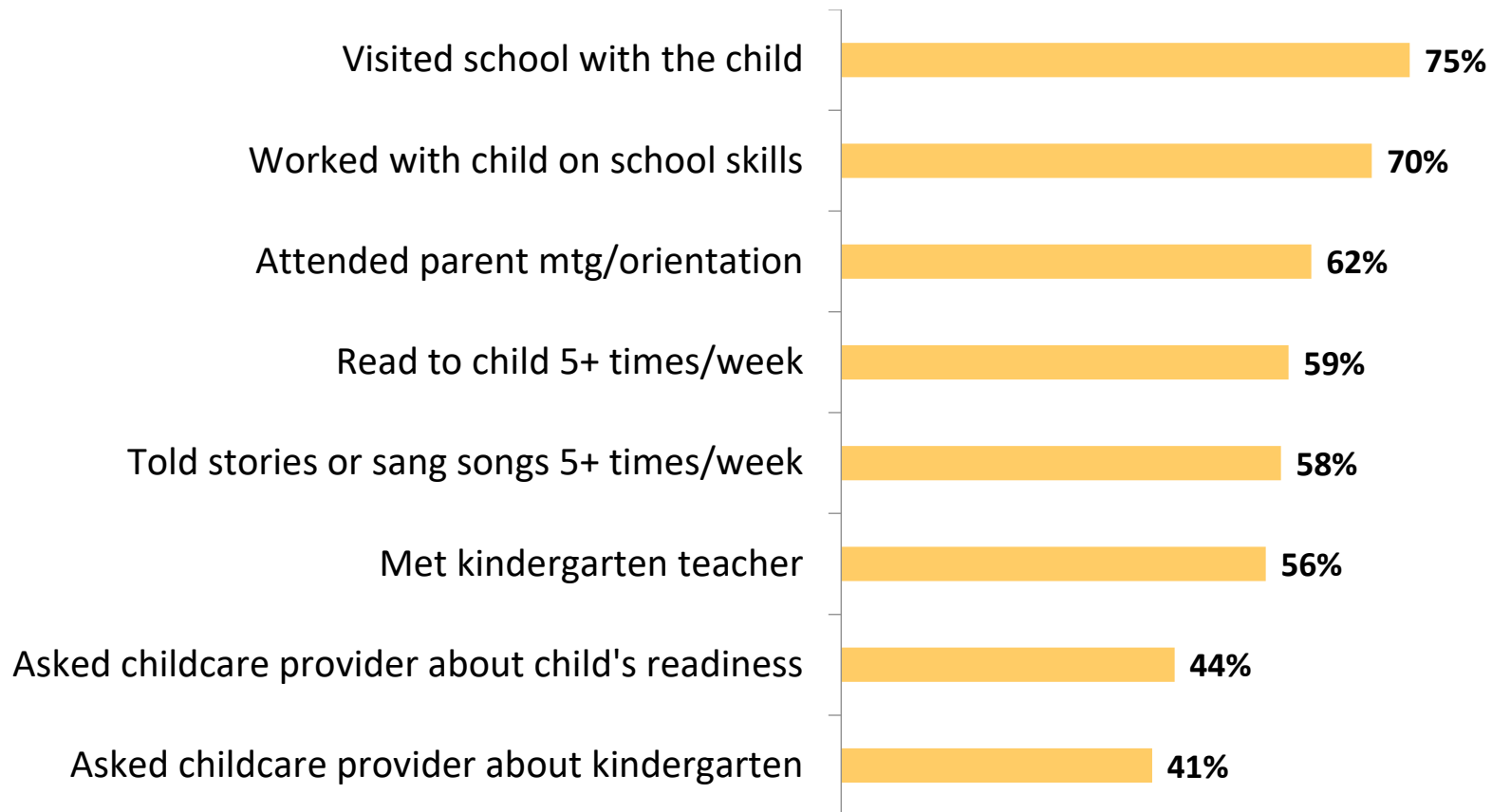
- Most commonly used services included the local library and Women, Infants, and Children (WIC)



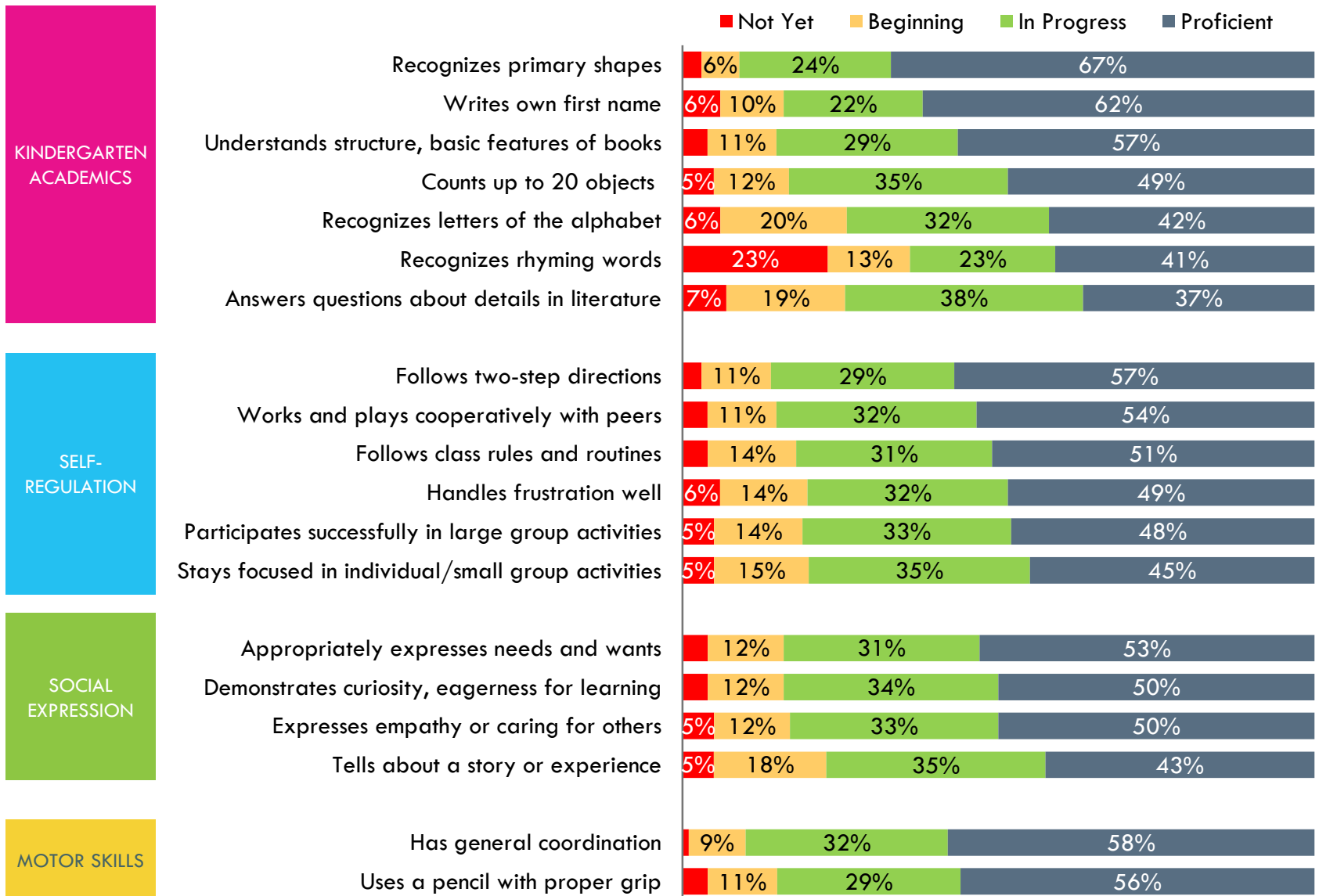
N=3641-4376. Note: Data were weighted to approximate county (kindergartener population), race/ethnicity, and English Learner status of all three counties.

Family Engagement in School Readiness Activities

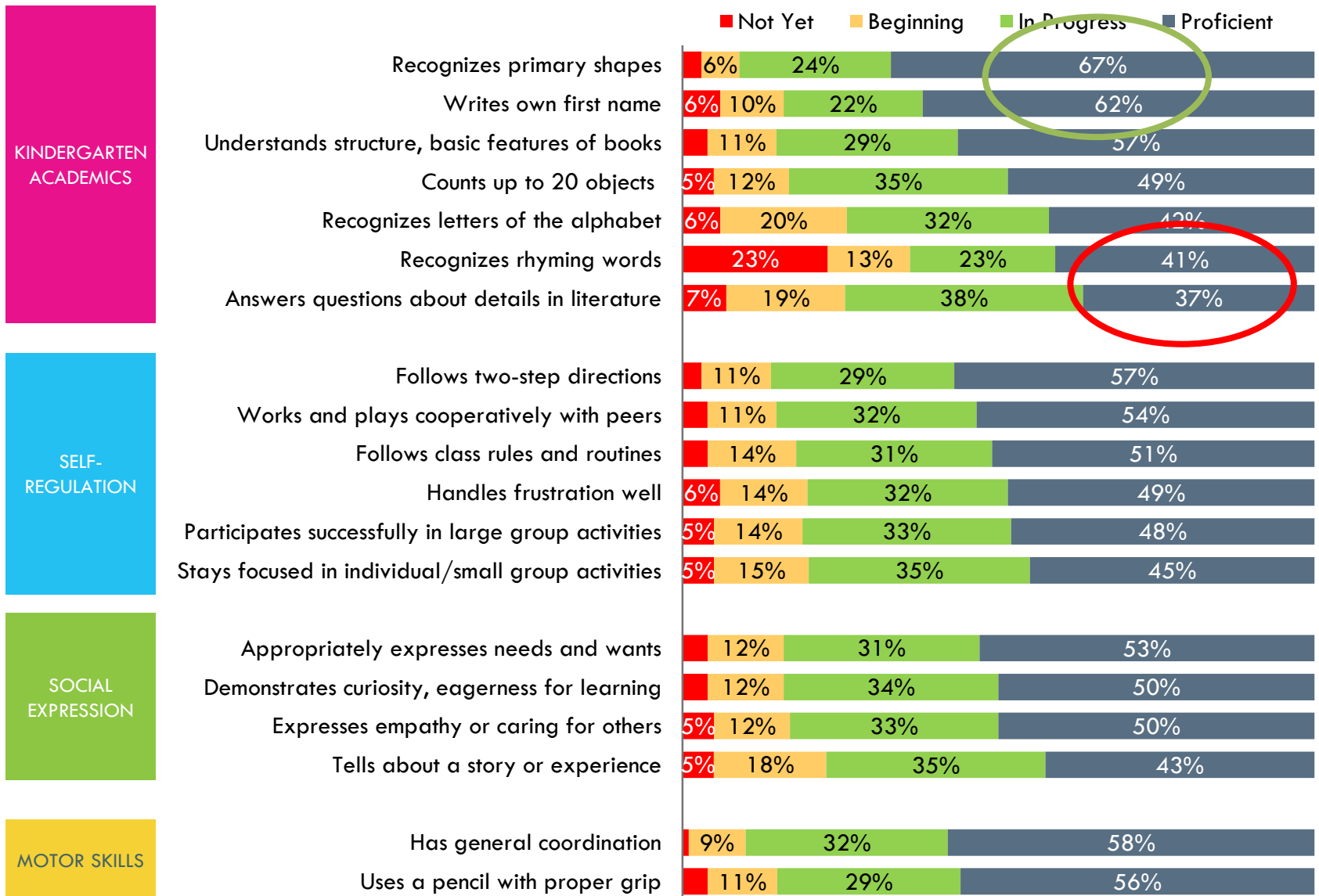
- Most common school readiness activities included visiting the elementary school with the child and working on school skills



Readiness across Individual Skills

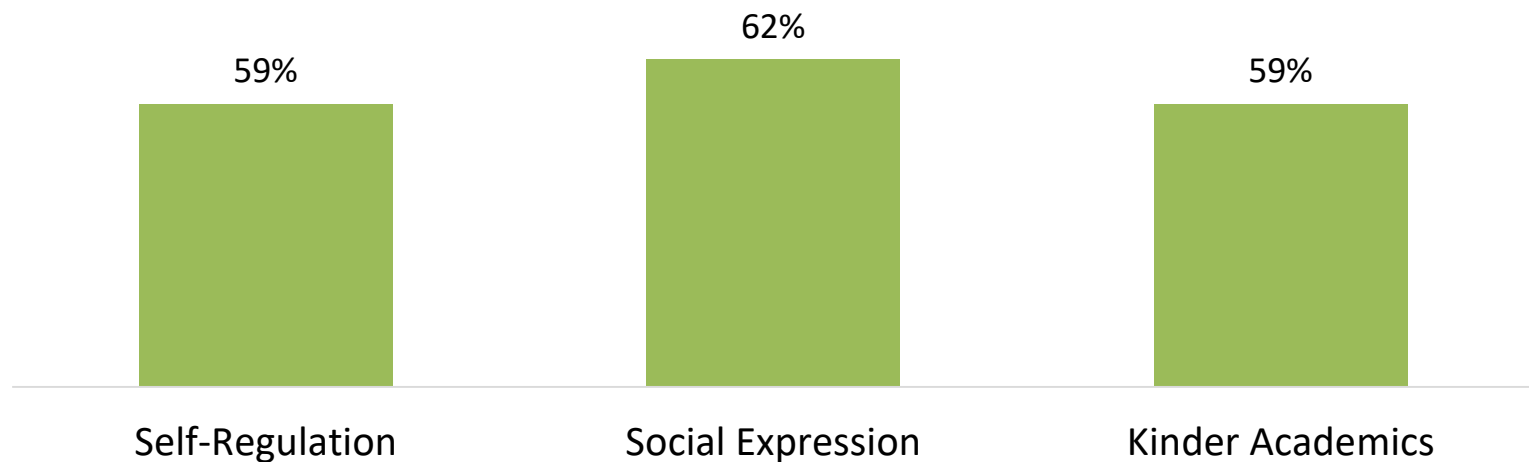


Readiness across Individual Skills



Percentage of Students Ready for School By Building Blocks

- Children most likely to be proficient in social expression abilities (e.g., expressing empathy and demonstrating curiosity and eagerness for learning)

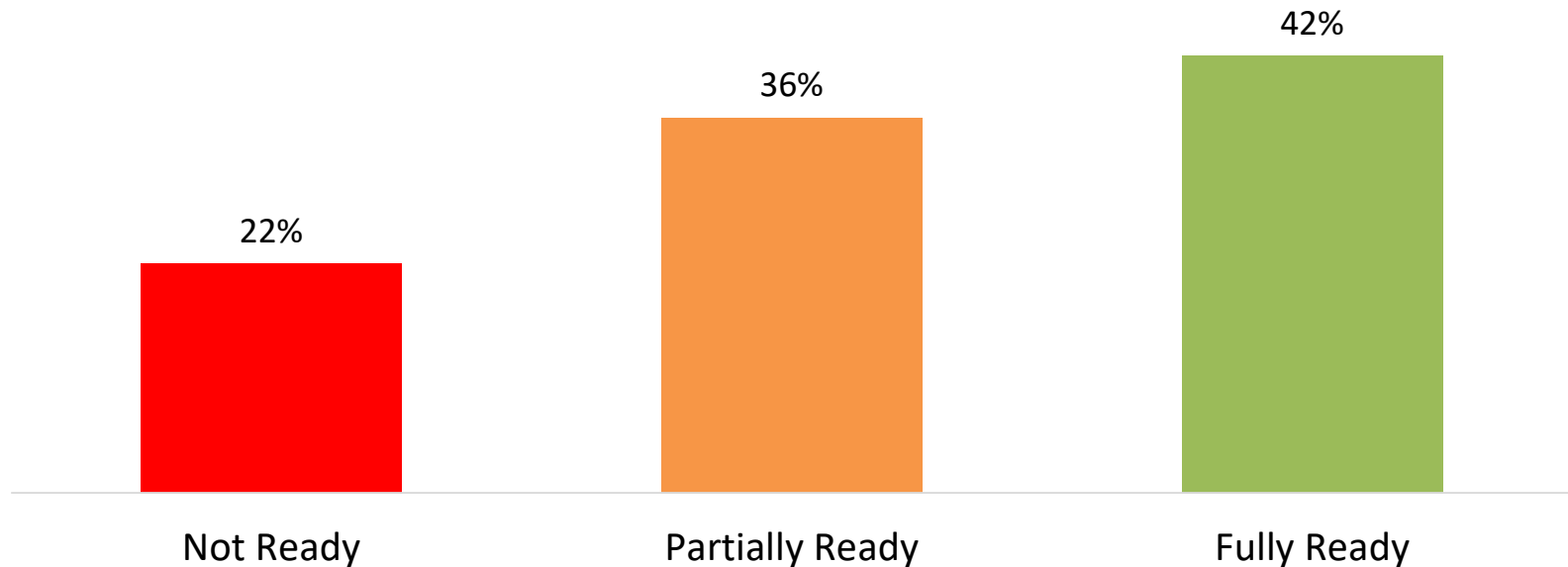


N=4803-5011. Note: Data were weighted to approximate county (kindergartener population), race/ethnicity, and English Learner status of all three counties.

Ready: Mean score of 3.25 or higher

Percentage of Students Ready for School Across Building Blocks

- Just over 40% of children demonstrated proficiency across school readiness domains
- Just over one in five was still developing skills in all readiness domains



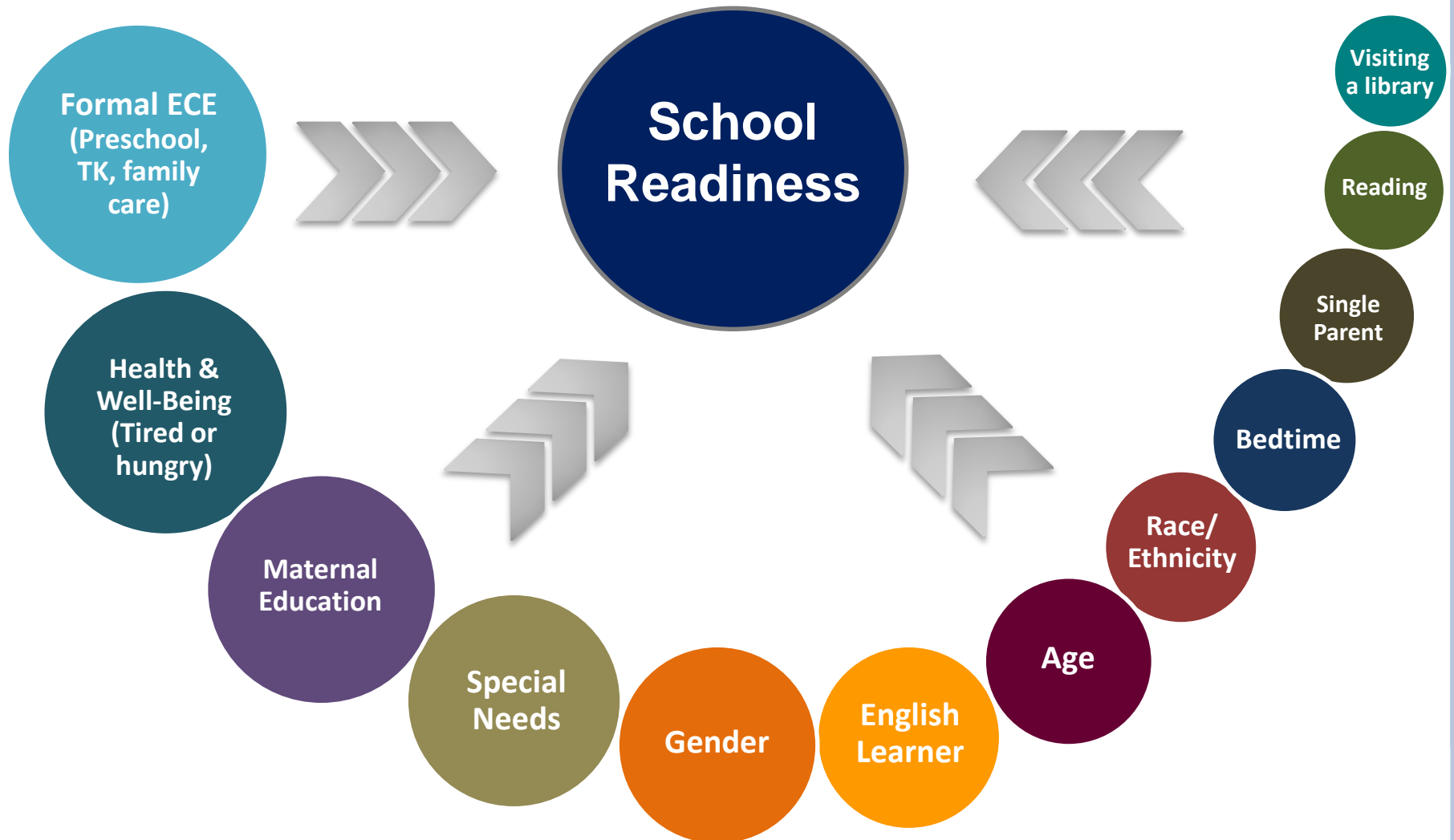
N=4803-5011. Note: Data were weighted to approximate county (kindergartener population), race/ethnicity, and English Learner status of all three counties.

Fully Ready: Mean score of 3.25 or higher in all three domains: Self-Regulation, Social Expression and K. Academics.

Partially Ready: Mean score of 3.25 or higher in one or two domains.

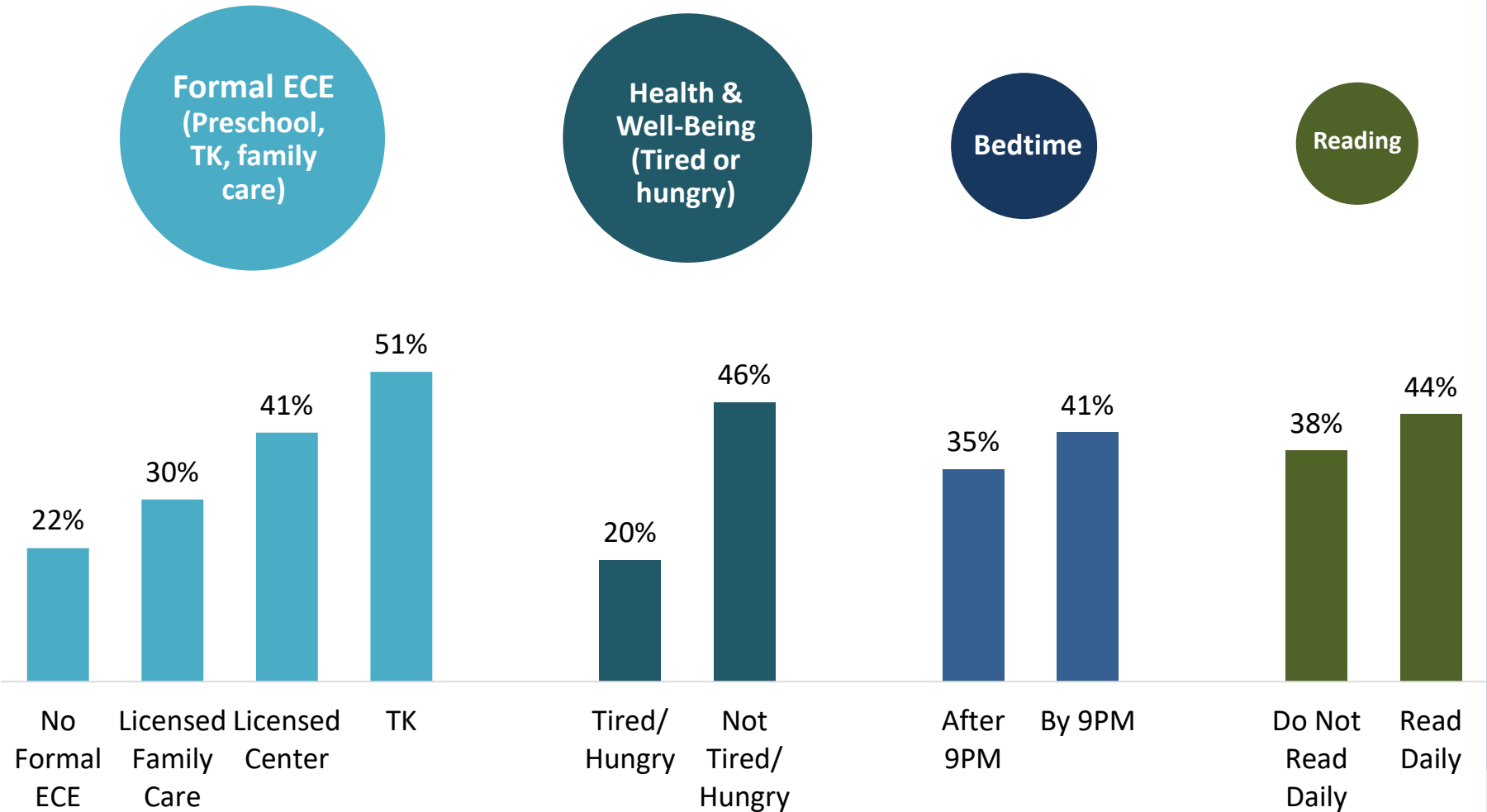
Not Ready: Mean score below 3.25 in all three domains.

What Factors Predict Readiness?



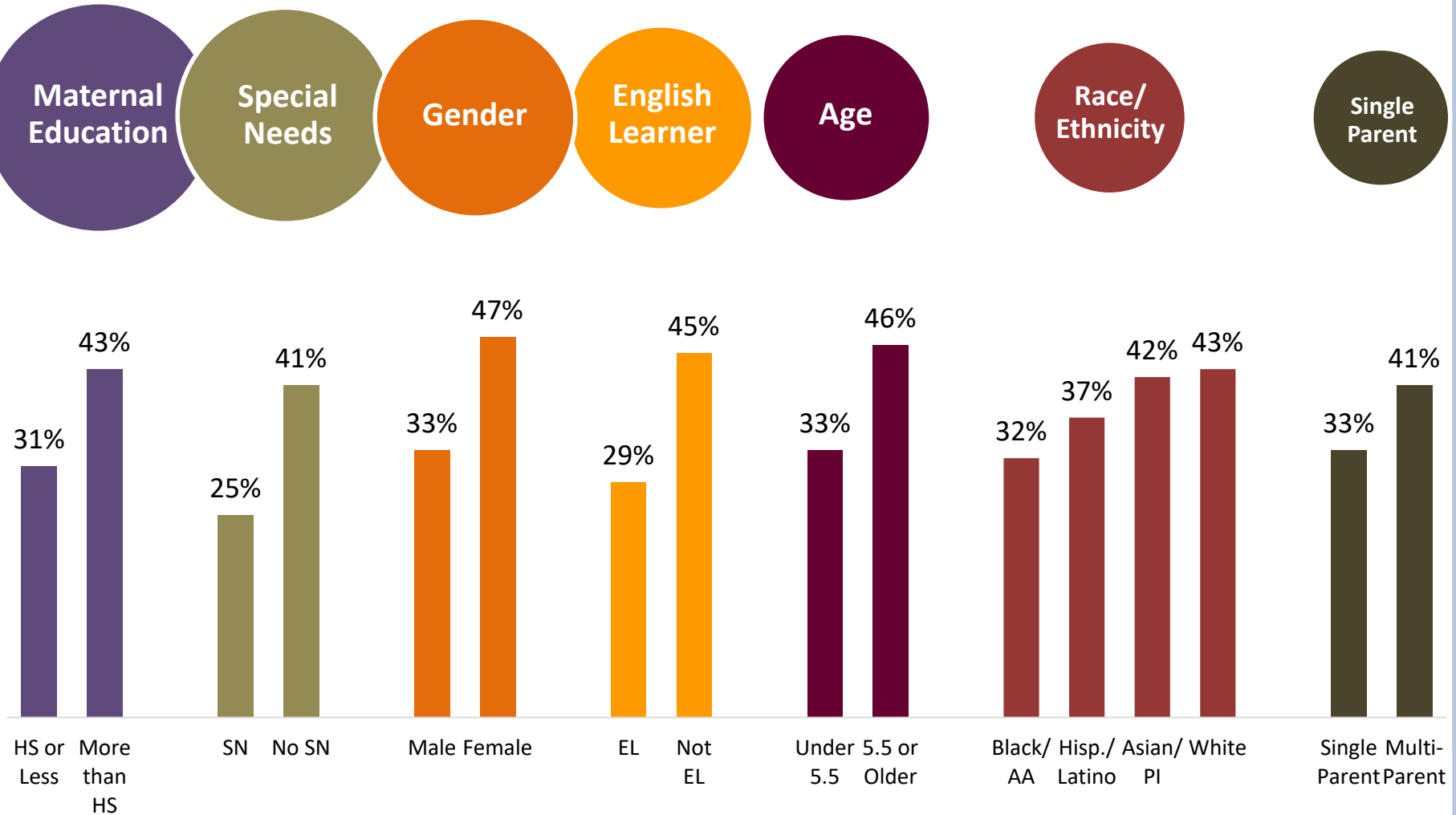
N=3717. Note: All variables in the chart are statistically significant ($p < .05$). The overall regression model was significant ($p < .001$), explaining 33% of the variance in kindergarten readiness ($R^2 = .33$).

Adjusted Percent Fully Ready, By Key Predictor (Malleable Predictors)



Note: N=3717. *All differences were statistically significant ($p < .05$). Adjusted for the other key predictors. Visiting a library not shown as it was associated with overall readiness scores, but not percent fully ready.

Adjusted Percent Fully Ready, By Key Predictor (Demographic Predictors)



Note: N=3717. *All differences were statistically significant ($p < .05$). Adjusted for the other key predictors. Not shown: Multiracial/other = 38% Fully Ready.

Cumulative Effect of Malleable Factors

Not Hungry

Not Tired

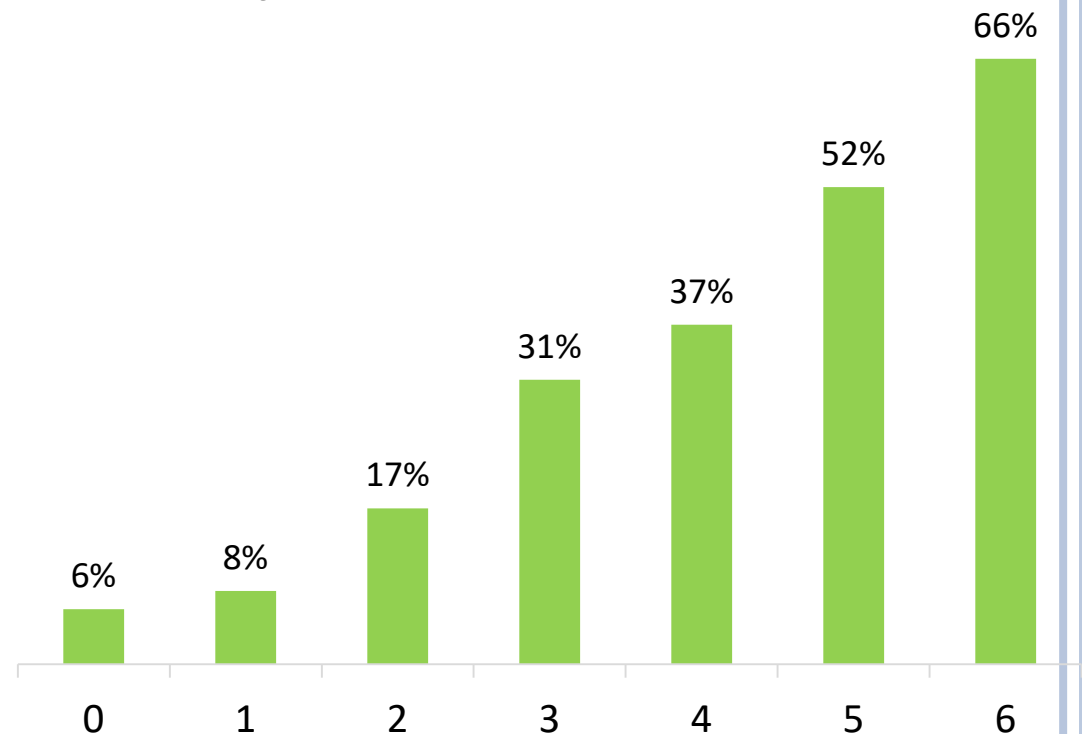
Attended ECE

Daily Reading

Visiting Library

Early Bedtime

Percent of Children Ready for Kindergarten,
by Number of Malleable Factors

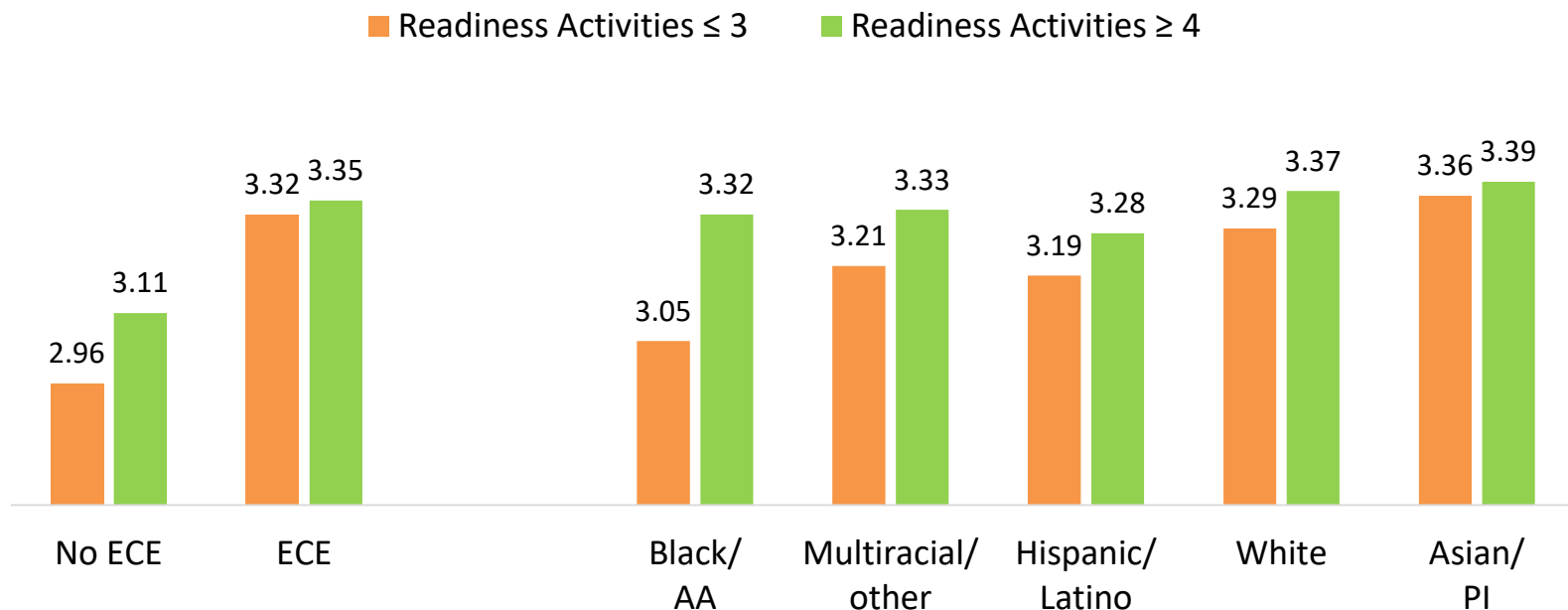


N=4795. ***Statistically significant, $p < .001$.

Note: Malleable factors included visiting a library, reading with child daily, attending formal ECE, going to bed at or before 9, and not going to school hungry or tired.

Who Benefits Most from Readiness Activities?

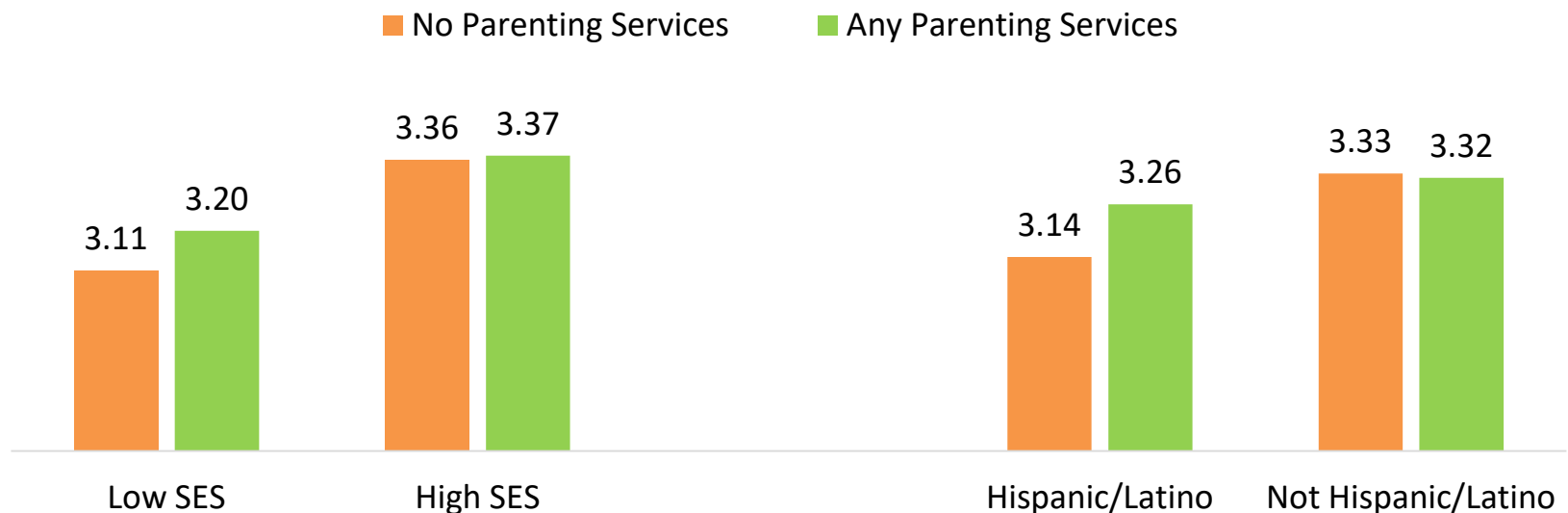
- **Parent engagement in school readiness activities** (e.g., attending parent orientation, meeting K teacher, working on school skills) improved average readiness scores, particularly for
 - Children who did not attend any formal ECE
 - Children who were Hispanic/Latino, Black/African American, multiracial, or other race/ethnicity



Note: N=3902-3906. Scores range from 1 to 4. *All differences were statistically significant ($p < .05$). Adjusted for age, gender, race/ethnicity (ECE chart only), Special Needs, English Learners, single parenthood, and family SES.

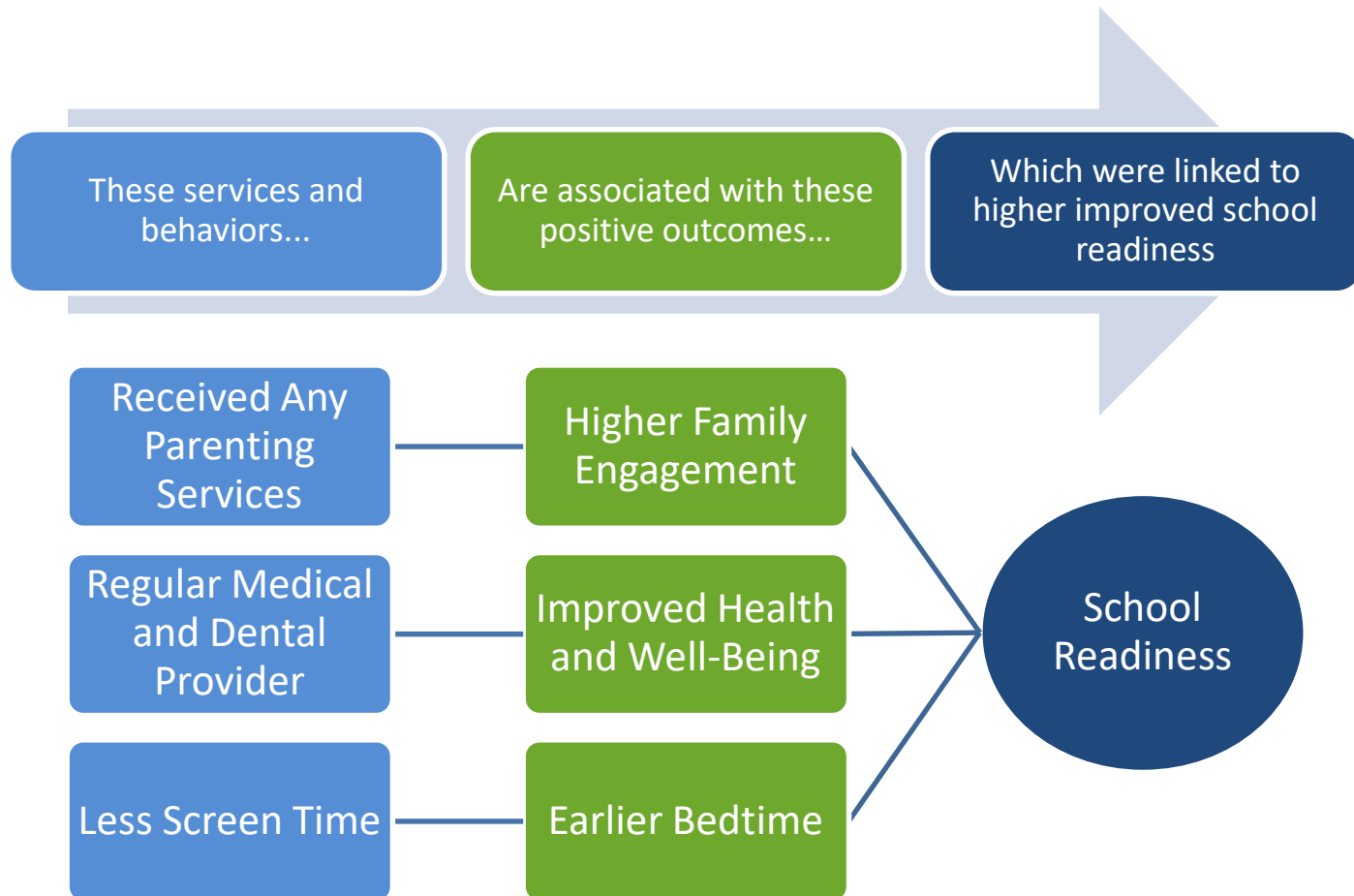
Who Benefits Most from Parenting Services?

- **Receiving any parenting services** (e.g., WIC, parent education, playgroup programs) improved average readiness scores, particularly for
 - Children from low SES families
 - Children who were Hispanic/Latino



Note: N=3302. Scores range from 1 to 4. *All differences were statistically significant ($p < .05$). Adjusted for age, gender, race/ethnicity (SES chart only), Special Needs, English Learners, single parenthood, and family SES (race/ethnicity chart only). Low SES=low income (under \$35,000 for Alameda and Contra Costa, under \$32,000 for San Francisco) and/or maternal low education (no more than high school).

How Other Services and Behaviors Indirectly Improve Readiness



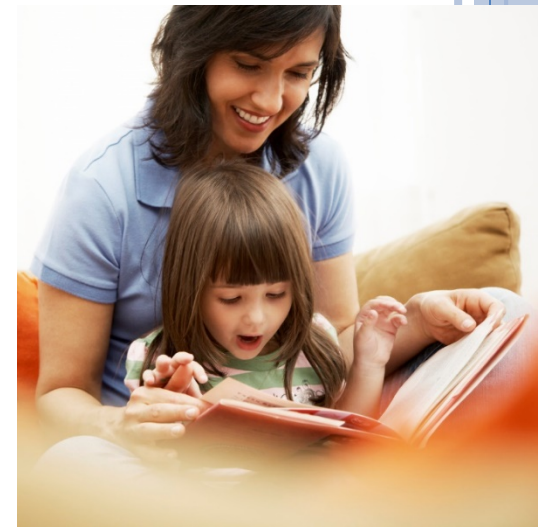
Note: N=3153-3962. *All indirect paths were statistically significant ($p < .05$). Adjusted for age, gender, race/ethnicity, Special Needs, English Learners, single parenthood, and family SES.

Summary

- **School readiness is multifaceted**
 - Children's health and development are cultivated in enriching environments provided by schools, families, and communities
- **School readiness is multidimensional**
 - Children are ready for school when they demonstrate optimal motor, social-emotional, language, and cognitive development
- **School readiness predicts long-term outcomes**
 - Children who are ready for school demonstrate more positive academic performance and social adjustment later in elementary school and even in adolescence and early adulthood

Summary

- Over 5,000 children were assessed on the KOF in Alameda, Contra Costa, and San Francisco Counties
- Just over 40% of this large, diverse sample was Fully Ready in all domains
- The strongest predictors of readiness were attending formal ECE and child health and well-being
- In addition to demographics, other significant factors predicting readiness included going to bed earlier, reading more frequently, and visiting the library



Summary

- Other factors significantly predicted readiness levels for particular subgroups:
 - Parent engagement in school readiness activities linked to higher readiness for children without ECE and children who were Hispanic/Latino, Black/African-American, multiracial, or other race/ethnicity
 - Parenting services linked to higher readiness for children in low SES families and who were Hispanic/Latino

- Several services and behaviors also predicted improved readiness for the overall sample:
 - Receiving parenting services (which was associated with improved parent engagement)
 - Having a regular doctor and dentist for the child (which was associated with improved health and well-being)
 - Exposure to less screen time (which was linked to earlier bedtimes)

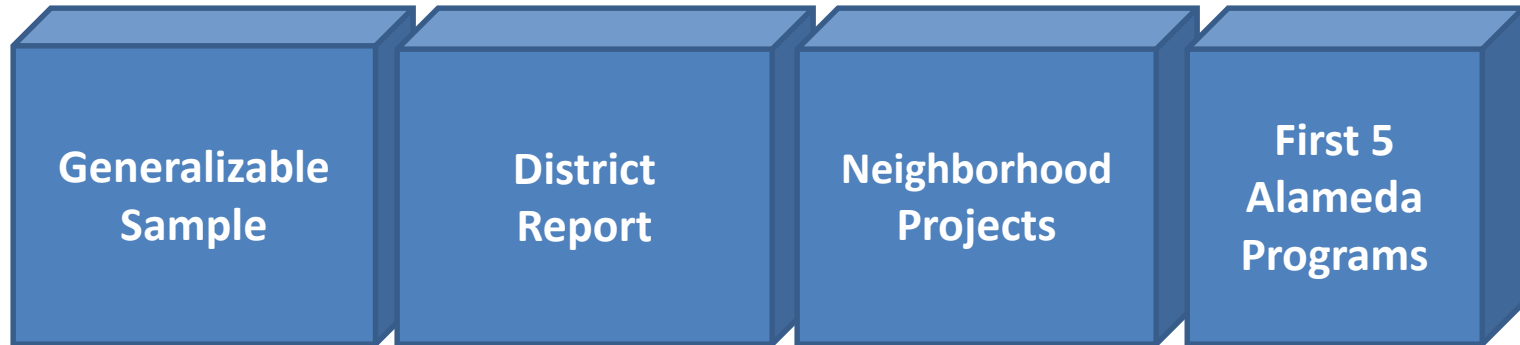
- ***These findings suggest various points of intervention to improve readiness among children in the Bay Area region***

How do we use data to turn the curve on school readiness?

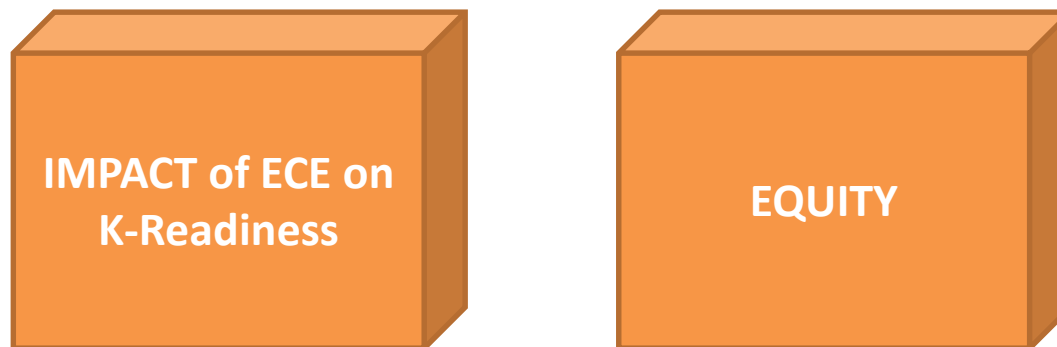


First 5 Alameda

Main objectives – Baseline Snapshots

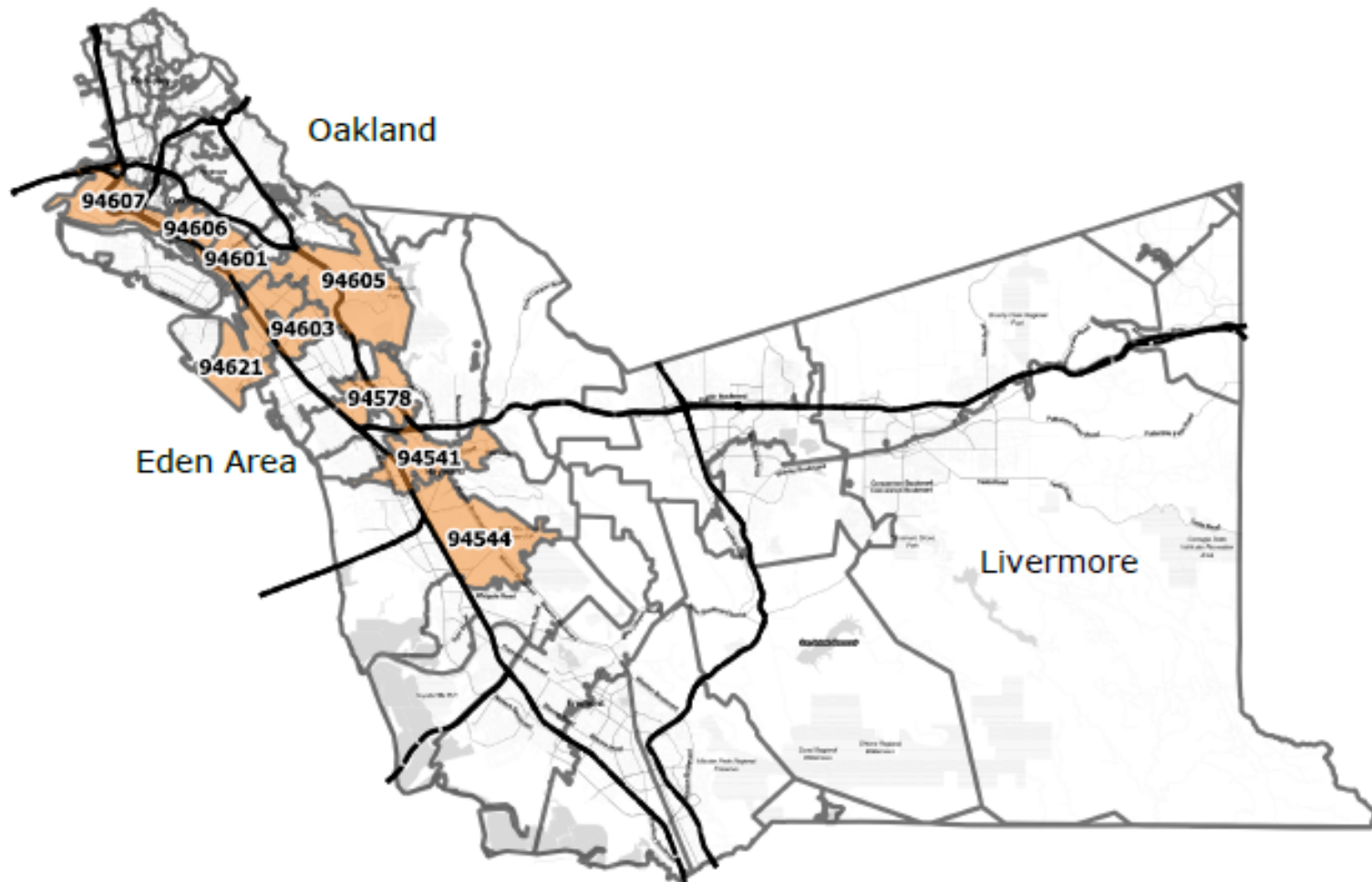


Emerging needs



Alameda County - Overview

Top 9 Zip Codes (Aggregate Risk Factor Rating)

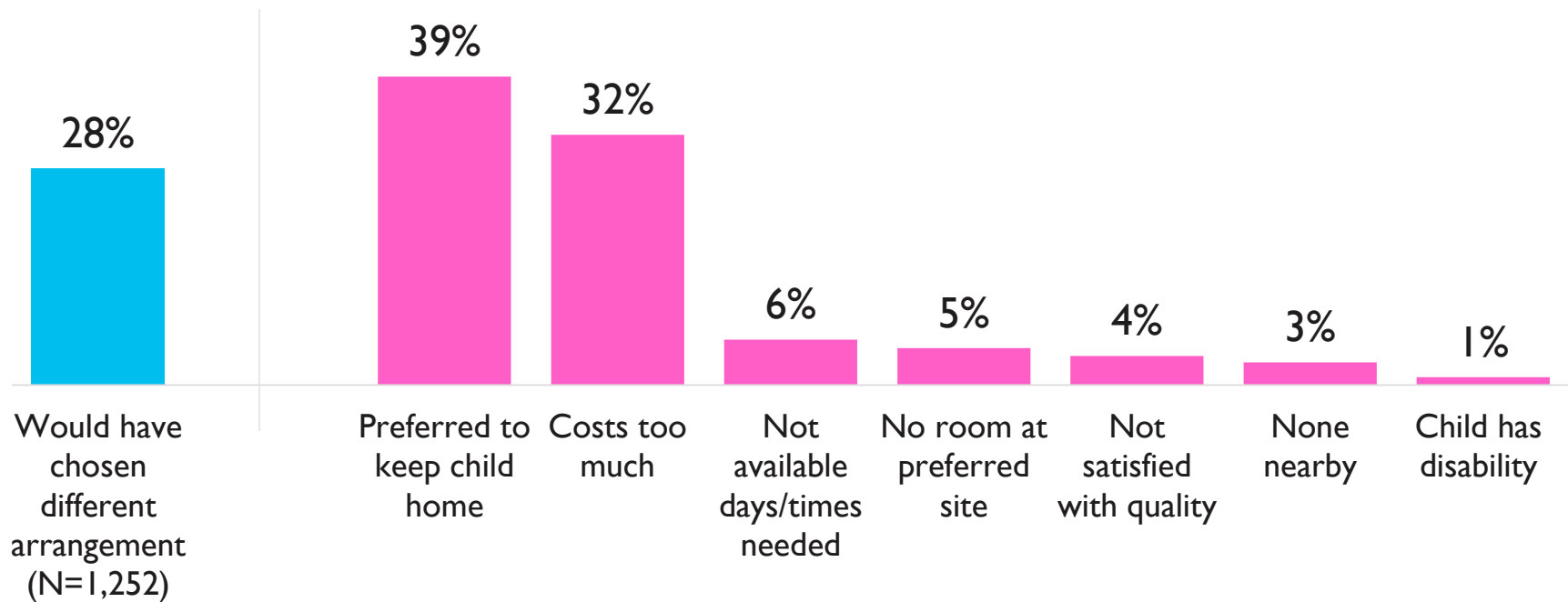


First 5 Alameda 2015-2017

Relative rank of predictive factors of K-Readiness

	2015	2017
Child attended formal early childhood education	2	1
Child did not come to school tired or hungry	1	2
Child does not have special needs	4	3
Family is higher SES	7	4
Child is older	3	5
Child is not an English Learner	5	6
Child is a girl	6	7
Family used more community resources		8
Parent reported less parenting stress		9
Family read more frequently with child		10
Child race/ethnicity (not black/AA)	8	
Child exposed to less screen time	9	
Parent is not a single parent	10	

First 5 Alameda – Preschool/Child Care Experiences



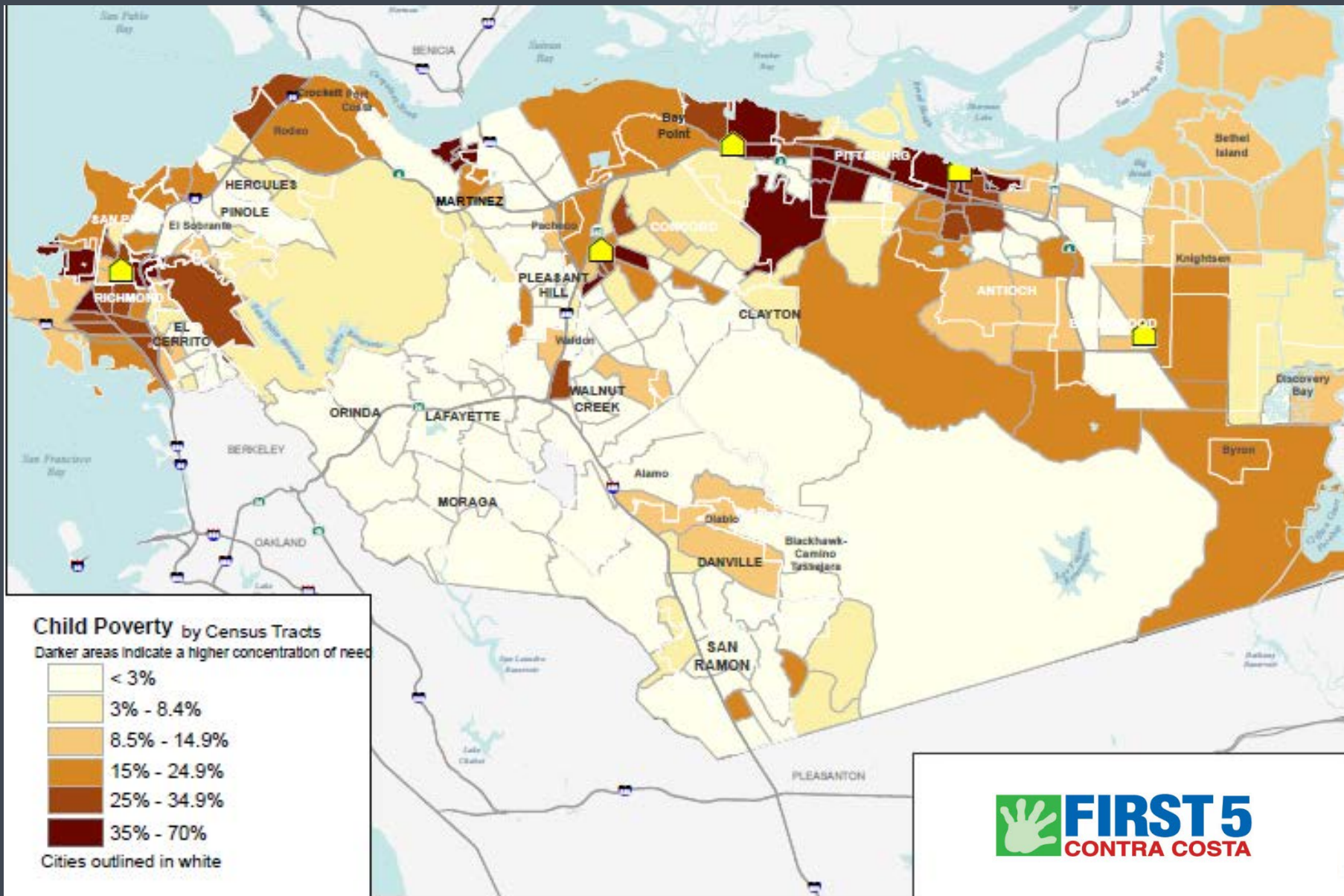
Reasons Child Not in Care
(% of Children Not in Care--Infant/Toddler or Pre [N=382])

N=1,252 (different arrangement); 382 (reasons not in child care)

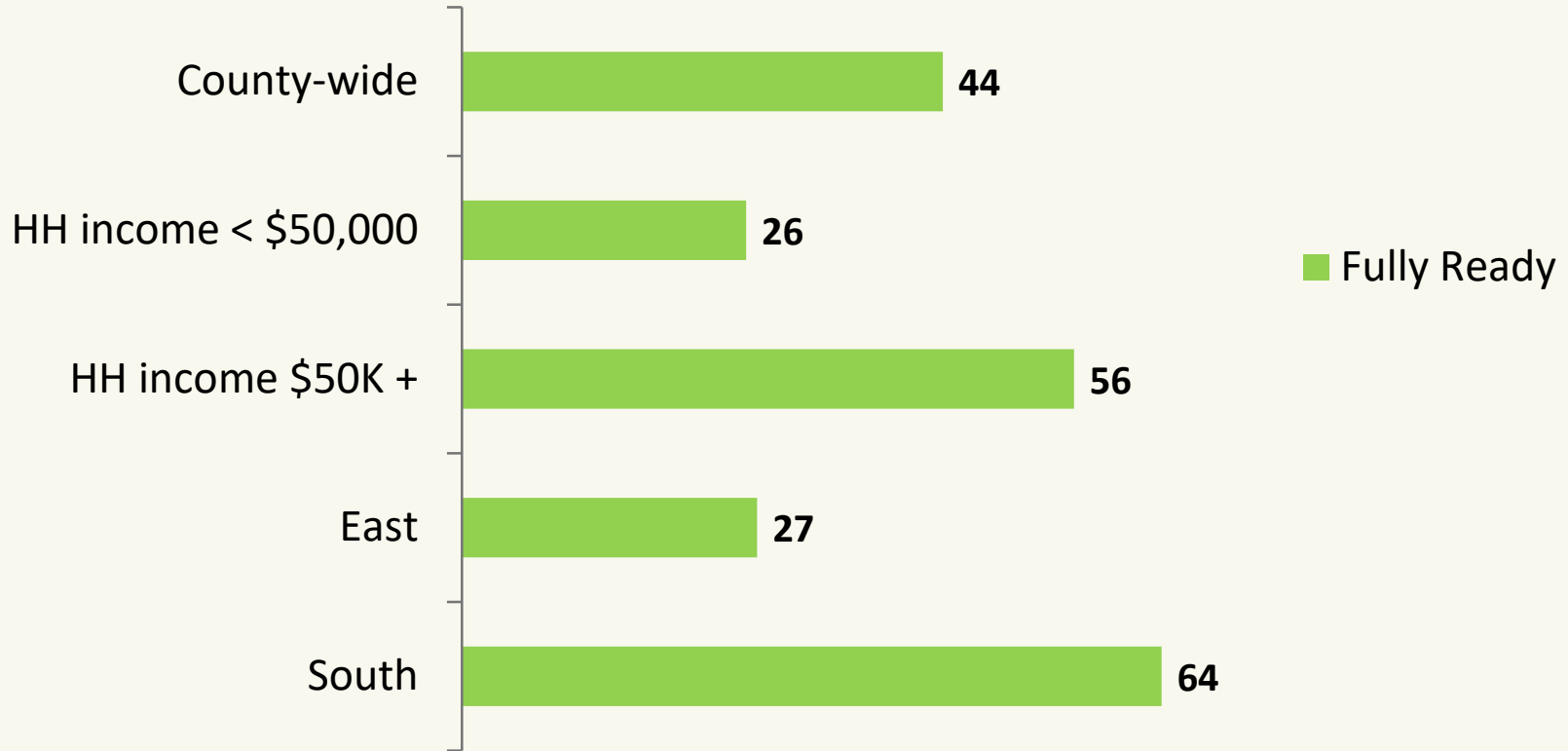
First 5 Alameda

- Countywide sales tax (\$0.05) to increase wages of child care workers, higher reimbursement for eligible children and new slots with priority for homeless families, provision of quality supports for participating educators and programs
- City / School District use of K-Readiness as an important early age indicator
- Exploring how Early Learning, using K-Readiness data, can be included in Local Control Accountability Plan

CONTRA COSTA COUNTY



CONTRA COSTA COUNTY KRA



FIRST
COUNTY-WIDE KRA

10
DISTRICTS

1,154
CHILDREN

44%
FULLY READY



HOW DO WE USE THE DATA?

- 1 Deepen relationship with school districts.
- 2 New data to describe long-standing issues.
- 3 Convene and plan solutions.

SCHOOLS

Access to ECE
Connect K & PreK
LCAPs

CITIES

New facilities
Outreach
Safe spaces

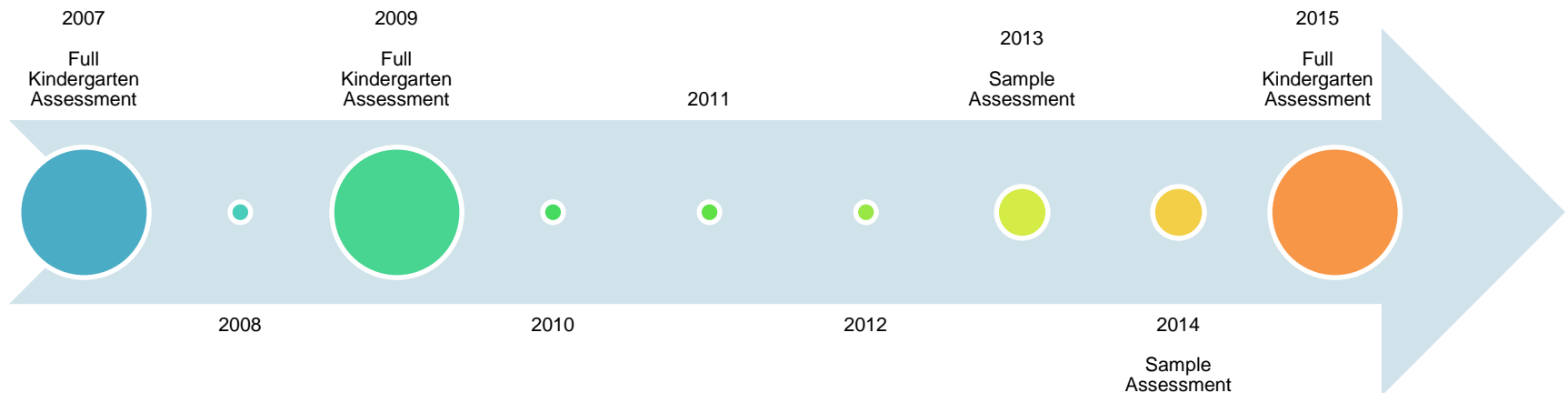
COUNTY

FUNDING & PRIORITIES
Subsidized ECE
Early literacy
Early Mental Health

RECOMMENDATIONS

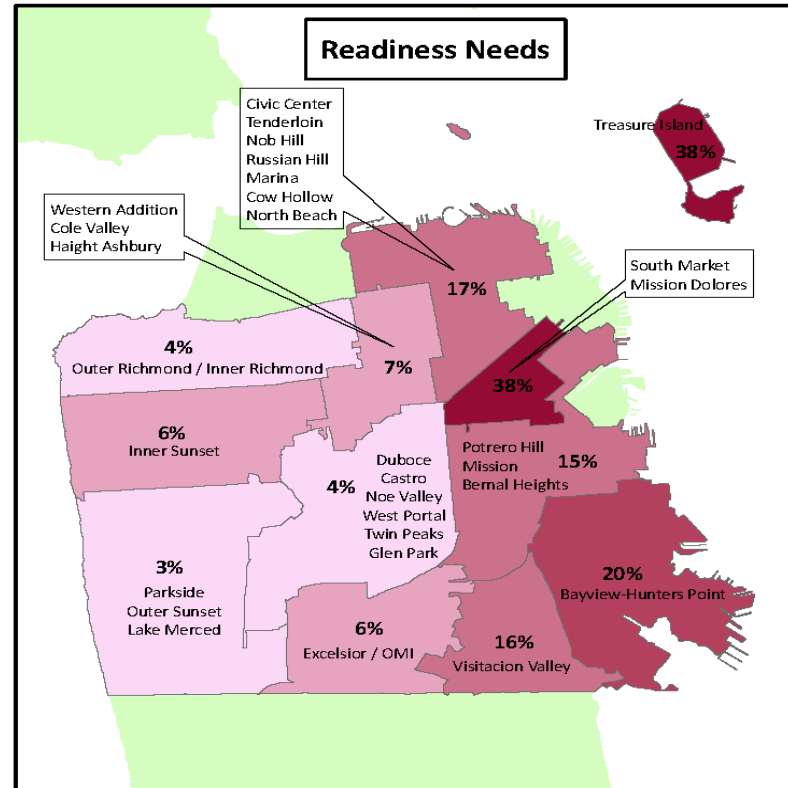


School Readiness in San Francisco: History



All school readiness assessments have been done in partnership with First 5 San Francisco, Applied Survey Research, and San Francisco Unified School District.

School Readiness in San Francisco: Geographic Snapshot



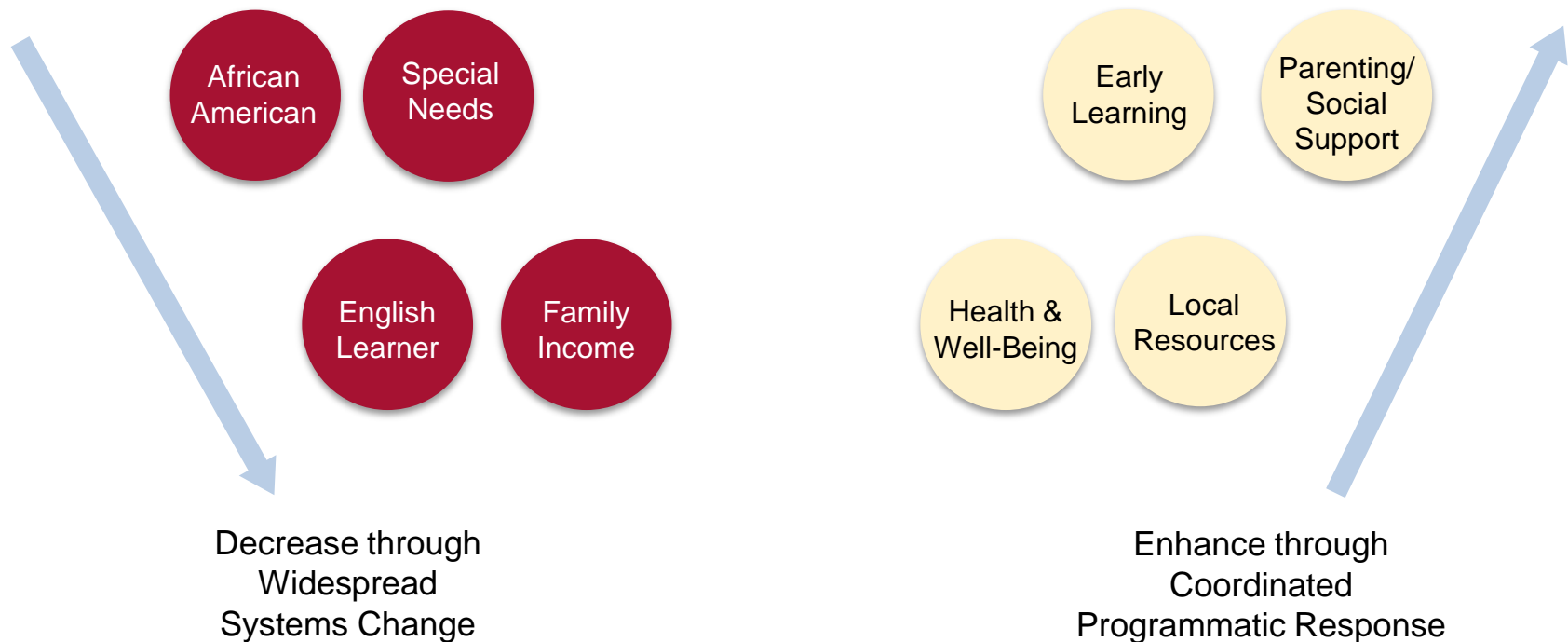
Note: Darker shaded areas indicate greater concentrations of the readiness portrait.

Top 5 Compelling Data Points

- Children not meeting readiness standards more likely to:
 - Be **African American** (61% not ready), **Latino** (51% not ready), **low-income** (50% not ready), **non-English-speaking** (43% not ready)
 - Have a **special need** (70% not ready)
- Only 58% of children with identified special need had **received support**; approximately 8% may have an **undiagnosed need**
- San Francisco families increasingly report **social isolation**
- **Preschool enrollment** is a strong predictor of school readiness
- Family **coping/social support, resources, and learning activities** in the home are strong predictors of school readiness

Community Conversations: First Step to Action

- Data points sparked 20+ community conversations about risk factors, programs, and systems of care



School Readiness in San Francisco: What Has Changed

- **Countywide: Reauthorization of Universal Preschool**
- **Districtwide: District has adopted policy and oversight of annual school readiness assessment for every kindergarten classroom in the district**
- **First 5 Planning: Expansion of Early Intervention in 2016 Strategic Plan and Recommitment to Equity Focus**
- **Program Planning: Revised Intake and Evaluation Approach for Funded Family Resource Centers**

Group Discussion

- What are your main takeaways from the presentation?
- What strategies you have seen in your community that improved school readiness?
- How might you apply what you've learned today in your own community?



Questions?

