# Supporting the Whole Child through the CA MTSS Framework









## Introductions

- Christine Olmstead, Ed.D.
  - Chief Academic Officer (OCDE)
- Lauren Duran, M.A.Ed.
   Evaluator (OCDE)
- Nick Gage, Ph.D.
  - Evaluator (WestEd)





- CA MTSS implementation to date
- Reliability and validity of the FIA
- Impacts of MTSS on school-level outcomes, particularly chronic absenteeism



California's Multi-Tiered System of Support (CA MTSS) is a comprehensive framework that aligns academic, behavioral, social-emotional learning, and mental health in a fully integrated system of support for the benefit of all students. CA MTSS offers the potential to create needed systemic change through intentional design and redesign of services and supports to quickly identify and match to the needs of all students.

This comprehensive framework is designed to provide effective supports for districts and schools to meet the needs of each and every student in the most inclusive and equitable learning environment.



## **Our WHY for CA MTSS**

Reductions in:

- Rates of suspension and expulsion
- Incidents of bullying and harassment
- Discipline referrals
- Referrals to Special Education
- Chronic absenteeism
- Dropout rate

Improvement in:

- Graduation rate
- Academic achievement (ELA and Math)
- Positive school climate/ perceptions of school climate



## LCAP and California MTSS CROSSWALK







Local Control Accountability Plan

The LCAP is a critical part of the new Local Control Funding Formula (LCFF). Each school district must engage parents, educators, employees and the community to establish these plans.

## Conditions of Learning

Students are provided with safe and properly maintained schools. Teachers are fully credentialed to teach their subject area and students are provided with a broad course of study that help them develop critical thinking skills and prepare them to be civically engaged and college and career ready.



#### California Multi-Tiered System of Support

An integrated, comprehensive framework that focuses on instruction, differentiated learning, student-centered learning, individualized student needs, and the alignment of systems necessary for all students' academic, behavioral, and social success. All students regardless of age, race, zip code, language, physical challenge, intellectual ability, capacity, or competency are provided with the most inclusive learning environment.

#### Engagement

Students are provided with motivating programs, coursework and opportunities where they feel respected, included socially and emotionally and cared for both in and out of the classroom. Families, schools and communities work closely together to build a strong framework for student achievement.



Authentic partnerships amongst, students, families, districts and communities that nurture relationships, build trust, ensure cultural, racial, and linguistic equity, and lead to transformative student outcomes. Source: Community Encodement Initiative (CEI)

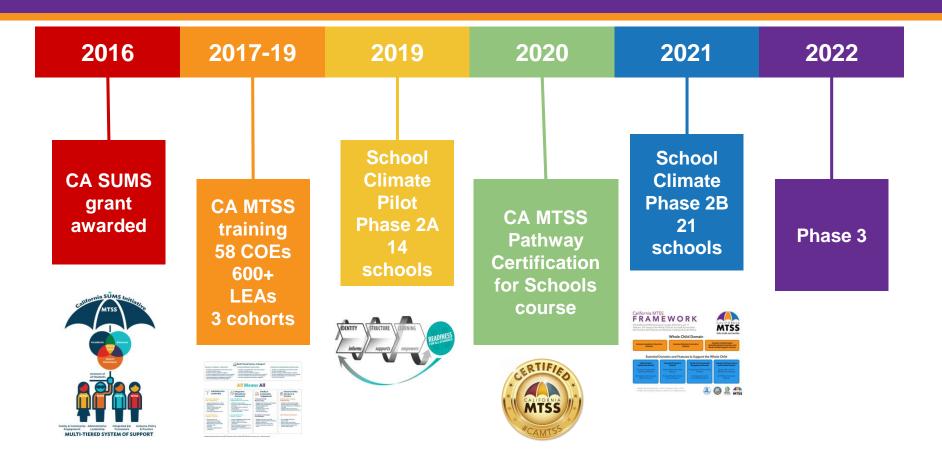
#### **Pupil Outcomes**

Student achievement means improving outcomes for all students to ensure student success.



All students are provided with a continuum of services that address their academic, behavioral, social-emotional, health and well-being needs.

## **CA MTSS Journey**



## CA MTSS 2016-2026



CA MTSS 2016-2026				
Phases	Time Period	Participants		
Phase 1	2016-2020	<ul> <li>11 Region Leads</li> <li>58 County Leads</li> <li>95 KDS Sites</li> <li>600+ LEAs</li> </ul>		
Phase 2	2019-2023	<ul><li>P2A 14 sites</li><li>P2B 21 sites</li></ul>		
Phase 3	2022-2026	<ul> <li>11 Region Leads</li> <li>37 COES</li> <li>56 Consortia (222 schools)</li> <li>77 Schools</li> </ul>		

# Next Steps: Phase 3 2022-2026





Utilize the CA MTSS Framework to support the needs of the whole child with special emphasis on enhancing the SEL/MH domain to improve outcomes for all learners.

How:

- Build educator capacity through professional development using the CA MTSS Pathway Certification for Schools course
- Coaching Model for Administrators to support implementation of the CA MTSS framework at school sites

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## **Coaching Model**

- Certified Coach assigned to each Administrator
- Regular meetings to support implementation of CA MTSS
- Technical Assistance, support as needed
- Support with progress monitoring for fidelity of implementation



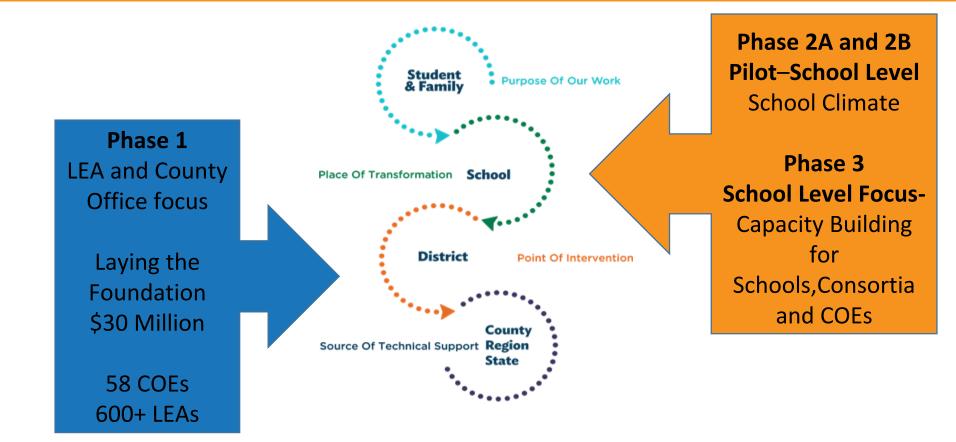
## Partnership with Placer County Consortia

- Placer COE-Lead
- Kern COE
- Santa Clara COE
- West Ed

Goal is to curate resources specific to SEL/MH/Trauma Informed Practices and develop training for school sites.



## Whole System Engagement



## **Statewide System of Support**



## **CA MTSS Pathway Certification for Schools**



## **Role-Specific Pathways**



## California MTSS FRAMEWORK

The California MTSS Framework includes 5 Domains and 11 Features. The needs of the Whole Child are successfully met when ALL Domains and Features are effectively implemented with fidelity.



#### Whole Child Domain

Inclusive Academic Instruction Features

Inclusive Behavior Instruction Features Inclusive Transformative Social-Emotional Instruction and Mental Health Support Features

#### Essential Domains and Features to Support the Whole Child

Administrative	Integrated Supports	Family and Community	Inclusive Policy Structure
Leadership Domain	Domain	Engagement Domain	and Practice Domain
Strong & Engaged Site	Organizational Structure	Trusting Family Partnerships	Strong LEA / School
Leadership Features	Features	Features	Relationship Features
Strong Educator Support	Strong & Positive School	Trusting Community	LEA Policy Framework
System Features	Culture Features	Partnerships Features	Features

Adapted with permission from: SWIFT Education Center. (2016). Domains and Features Placemat. Lawrence, KS. swiftschools.org





#### Whole Child Domain

The whole child is supported through a multi-tiered continuum of research-based, system-wide practices of data-based decision making used to meet the academic, behavior, social-emotional and mental health needs of all students.

Inclusive Academic Instruction Features	Inclusive Behavior Instruction Features	Inclusive Transformative Social-Emotional Instruction and Mental Health Support Features
<ul> <li>Identify and utilize a comprehensive assessment system</li> <li>Create and utilize teams, including specialized service providers</li> <li>Provide a continuum of support that includes evidence-based practices for universal, supplemental, and Intensified supports for academic content</li> <li>Develop guidelines to implement curriculum with Universal Design for Learning (UDL)</li> <li>Utilize Content Standards and Curriculum Frameworks</li> <li>Support Literacy across the content</li> <li>Utilize P21 Framework</li> <li>Integrate Culturally Relevant and Responsive Teaching Practices and Asset Based Pedagogies</li> </ul>	<ul> <li>Identify and utilize a comprehensive assessment system</li> <li>Create and utilize teams, including specialized service providers</li> <li>Provide a continuum of support that includes evidence-based practices for universal, supplemental, and intensified supports for behavior</li> <li>Integrate Behavior Supports</li> </ul>	<ul> <li>Identify and utilize a comprehensive assessment system</li> <li>Create and utilize teams, including specialized service providers, such as community mental health providers</li> <li>Integrate trauma-informed practices</li> <li>Provide a continuum of support that includes evidence-based practices for universal, supplemental, and intensified supports for social-emotional and mental health</li> <li>Integrate SEL competencies aligned to CASEL CA's SEL Guiding Principles and CDE's T-SEL</li> <li>Integrate mental health supports</li> <li>Support Resilience in Schools</li> </ul>

## California MTSS Continuum of Support

Universal Design for Learning and differentiated instruction are integrated and implemented at all levels of the continuum of support to ensure the academic, behavior, social-emotional, and mental health development of ALL students in the most inclusive and equitable learning environment.





# ALL STUDENTS

**SOME** STUDENTS

**FEW** STUDENTS

#### UNIVERSAL SUPPORT

Evidence-based practices are accessible by ALL students where the integration and implementation of Universal Design for Learning and differentiated instruction support academic, behavior, social-emotional, AND mental health development.

#### SUPPLEMENTAL SUPPORT

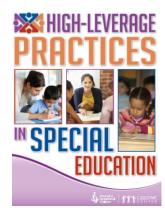
Additional services are provided to some students to support academic, behavior, social-emotional, and/or mental health through the integration and implementation of Universal Design for Learning and differentiated instruction. Supplemental supports are provided in addition to, not in place of universal supports, and available to all students regardless of identification for specialized services based on need through the use of diagnostic and progress monitoring assessments.



#### **INTENSIFIED** SUPPORT

Targeted supports are provided to students with greater needs to support academic, behavior, social-emotional, and/or mental health through the integration and implementation of Universal Design for Learning and differentiated instruction. Intensified supports are provided in addition to, not in place of universal supports, via specialized service providers, and available to all students regardless of identification for specialized services based on need through the use of diagnostic and progress monitoring assessments.

## **Equitable Practices**



	Provide multiple means of Engagement	Provide multiple means of Representation	Provide multiple means of Action & Expression		
	Affectus Research The Will of Lander	Reception Server All	Strategy: Advantation The "HCM" of Learning		
	Pronte options for Recruiting Interest • Optimal internal deex and administry • Optimize internal deex and administry • Amministratives, ext instantion	Provide options for Perception • Oth value of commany file diagon of elements • Other attematives for automa between the • Other attematives for analytic between the	Provide options for Physical Action 4 voys in instruction for response and subgeton 4 topeness access to tools and sectors for beingers		
	Provide options for Sustaining Effort & Persistence • region values of park and startures • Vegi strends are represent in large • Jean values and a connectly • storge making one and a connectly • storge making one and the factor	Provide options for Language & Symbols • Only multility for prism • Suppr families direction • Suppr families di Suppr families direction	Provide options for Expression & Communication • Galaxies and the consumation • Galaxies and the consumation • Galaxies and partnerses		
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	Expert learners who are				
ľ	Purposeful & Motivated	Resourceful & Knowledgeable	Strategic & Goal-Directed		

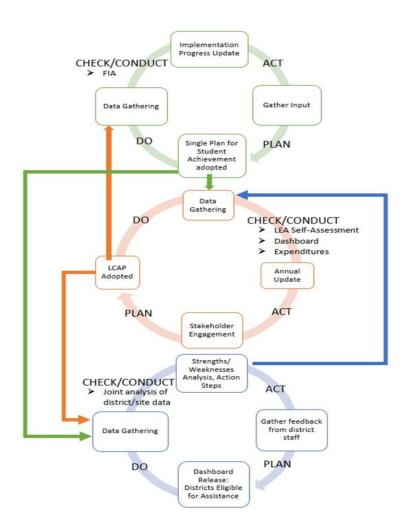


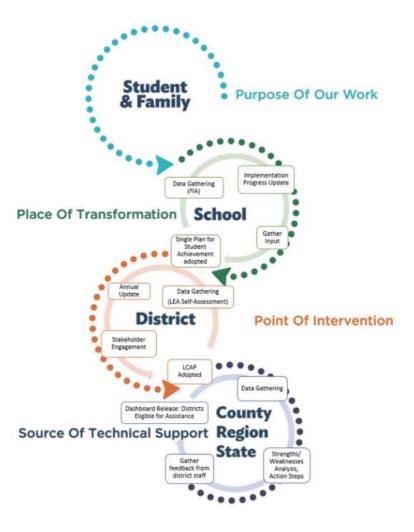
## Creating Trauma-Informed Learning Environments



Culturally and Linguistically Responsive Teaching and Learning







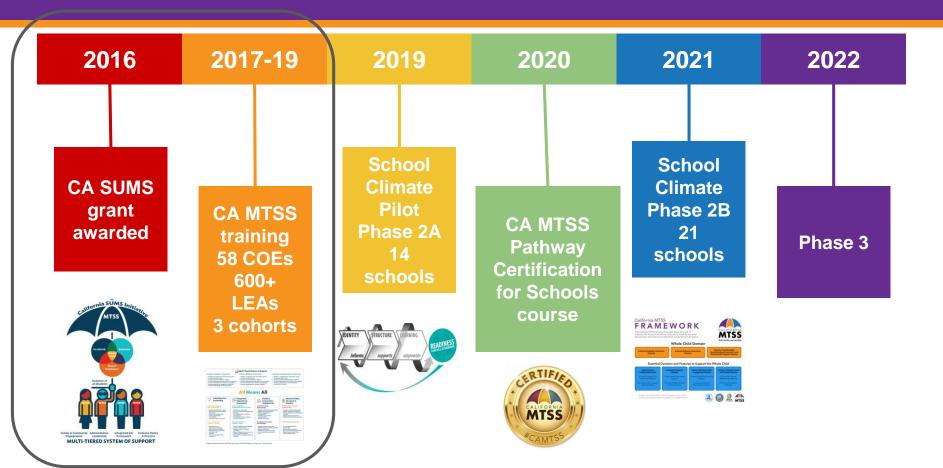
**Implementation:** the degree to which evidence-based practices are in place

**Capacity:** the systems, processes, personnel, and resources necessary to successfully implement and sustain evidence-based practices.

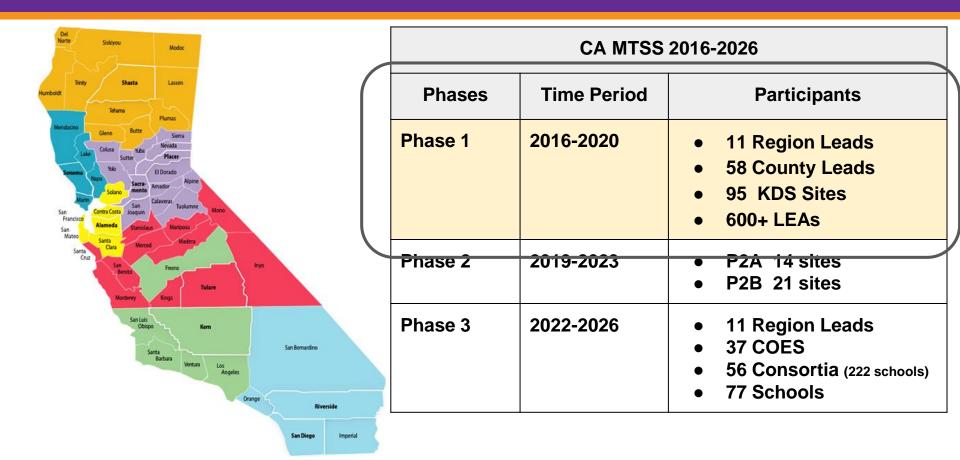
Student Impacts: academic, behavioral, and social-emotional skills



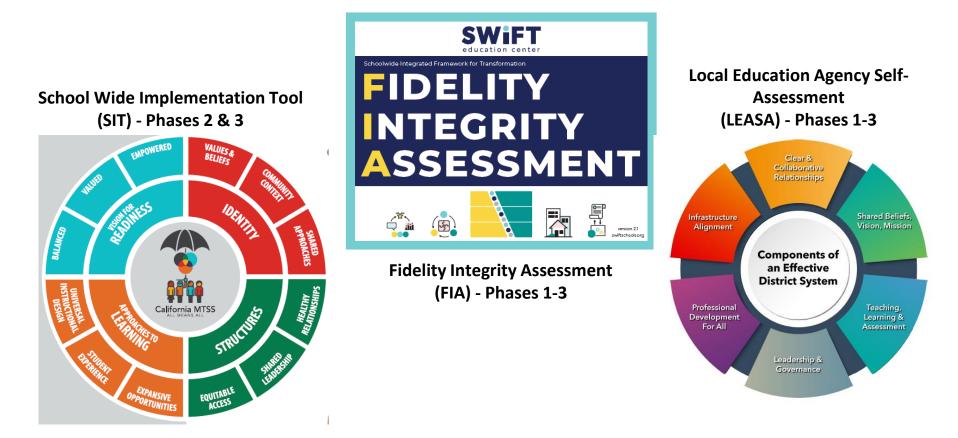
## **CA MTSS Journey**



## CA MTSS 2016-2026



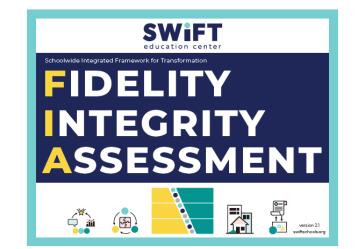
## **Measures of Implementation**



## **Fidelity Integrity Assessment (FIA)**

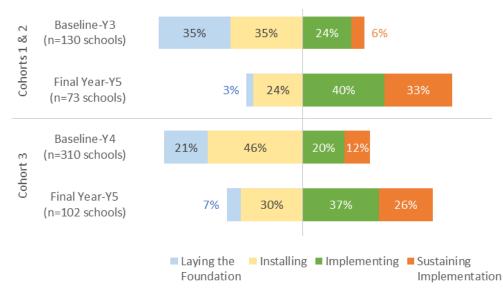
Used by <u>school leadership teams</u> to examine the current reality, measure the implementation of a multi-tiered system of support

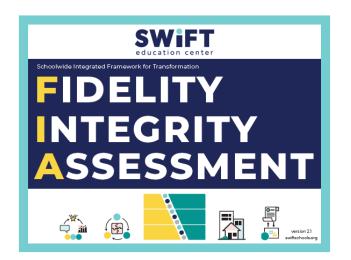
- Developed by SWIFT Education Center (Univ. of Kansas)
- 22 items aligned to the CA MTSS Framework Domains and Features
  - Whole Child
  - Administrative Leadership
  - Integrated Supports
  - Family and Community Engagement
  - Inclusive Policy Structure and Practice
- Stages of Implementation:
  - Laying the Foundation (0)
  - Installing (1)
  - Implementing (2)
  - Sustaining Schoolwide Implementation (3)



## Phase 1 FIA

By the final year of Phase 1, schools and LEAs were **Implementing** or **Sustaining Implementation** on more practices of the CA MTSS Framework as compared to their baselines.





"Thanks to our involvement with CA MTSS we spent time **evaluating our practices in an organized purposeful/intentional ways to arrive at better decision making**. Using the framework/tool provided (FIA) helped our meetings stay focused and action oriented."

Youthbuild Charter School (Los Angeles County)

"[CA MTSS] prepared us to deal with learning loss and challenge coming out of the pandemic. We were in a place where **we could provide for the students in a more timely manner** in comparison to our local LEA's who were not in the program."

Southside Elementary, Southside Elementary SD (San Benito County)

## LEA Self-Assessment (LEASA)

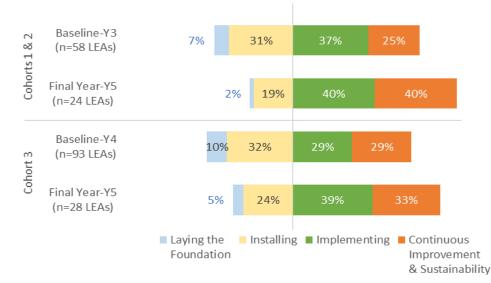
Used by <u>LEA/District Leadership Teams</u> to examine the current status of systemic practices.

- Developed by CCSESA
- Based on SWIFT-FIA, District Capacity Assessment (NIRN), LEA Self-Assessment Companion Resource (CCSESA) & Michael Fullan's Coherence Framework
- 25 indicators that measure research-based components of effective district systems
- Scale:
  - Laying the Foundation
  - Installing
  - Implementing
  - Continuous Improvement & Sustainability



## Phase 1 LEASA

Similarly, LEAs were at the **Implementing** or **Continuous Improvement & Sustainability** levels on more practices of the CA MTSS Framework as compared to their baselines.





## **Phase 1 Capacity for Systemic Changes**

- Increased or improved services provided for students who are Socioeconomically disadvantaged, Foster youth, and/or English learners
- Increased or improved strategies used to effectively support student success in the least restrictive environment (LRE) and foster greater inclusion
- Multiple school and community resources were leveraged (for example, multiple resources at a school, resources at multiple schools, and collaborations with local mental health agencies to provide school-based mental health services)
- Implementing multi-tiered systems of support including PBIS, Restorative Practices, bullying prevention, social and emotional learning, trauma-informed practice, and cultural competency
- Sustaining changes after the final year by incorporating practices into their LCAP

## In their own words

"It gave us the opportunity to **come together and plan for systems at both the site and district level** to better meet the needs of our students. It also **became the frame for much of our LCAP work** in terms of creating a goal around MTSS that is the umbrella for all the supports we are offering academically, behaviorally, and socialemotionally."

Lowell Joint School District (Orange County)

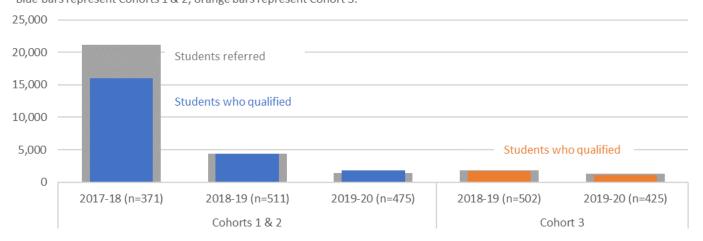
"Students benefited from tiers of support, strategic use of professional staff, **keeping practices that work and getting rid of practices that didn't.**"

Grass Valley School District (Nevada County)

## **Phase 1 Student Impacts - Special Education Referrals**

#### Cohorts 1 & 2 decreased the number of students referred for Special Education by 93%

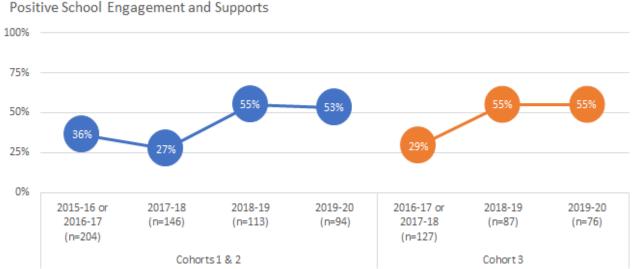
Number of students referred for Special Education and number of students who qualified for Special Education Blue bars represent Cohorts 1 & 2, orange bars represent Cohort 3.



Source: LEA/School Annual Reports

## Phase 1 Student Impacts - Positive School Engagement

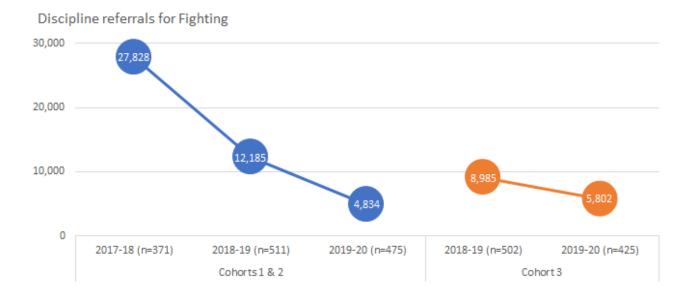
#### All 3 Cohorts had increases in Positive School Engagement and Supports



Source: California Healthy Kids Survey LEA Reports

## **Phase 1 Student Impacts - ODRs: Fighting**

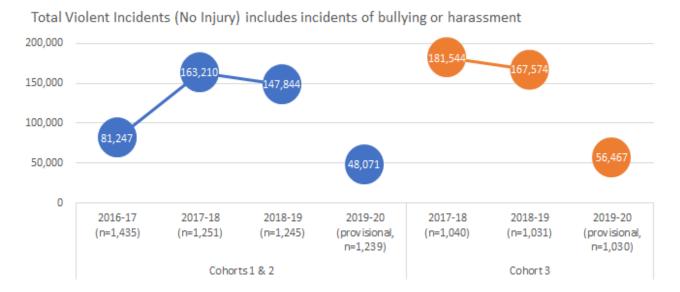
#### All 3 Cohorts had decreases in office discipline referrals for Fighting



Source: LEA/School Annual Reports

## **Phase 1 Student Impacts - Bullying/Harassment**

#### All 3 Cohorts had decreases in total incidents of bullying and harassment

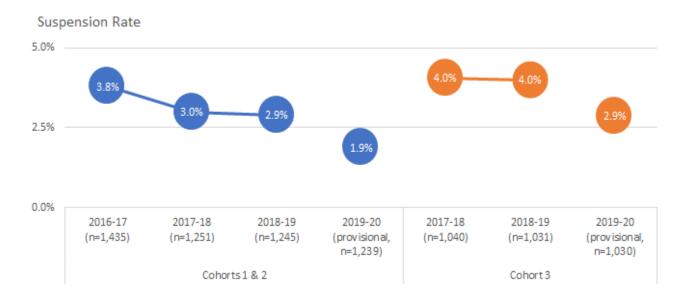


Source: CDE Suspension Data and Expulsion Data

2019-20 data is valid and reliable for the time schools were physically open but not comparable to other years.

### **Phase 1 Student Impacts - Suspension Rate**

#### Cohorts 1 & 2 had a decrease in Suspensions by 1 percentage point



Source: CDE Suspension Data

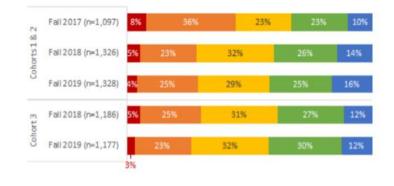
2019-20 data is valid and reliable for the time schools were physically open but not comparable to other years.

### Phase 1 Student Impacts - CA School Dashboards

CA School Dashboard Performance Levels for ELA

All 3 Cohorts had more schools and LEAs performing at the Green and Blue levels for ELA and Math on the CA School Dashboards

Source: California School Dashboard Due to the COVID-19 pandemic, state law has suspended the reporting of state and local indicators on the 2020 Dashboard.



CA School Dashboard Performance Levels for Math



### In their own words

"It is a joy to see Special Education students thrive in general education classes! It is a joy to see general education students thrive with extra instructional support (with or without SPED qualification). It is a joy to work with staff members who never use the phrase 'those kids' because we truly believe that 'those kids' are 'our kids.'

Mary Peacock Elementary, Del Norte Unified (Del Norte County)

"Sites are rethinking their discipline processes and days of suspension are down. SEL programs have been implemented across all school sites K-12. MTSS teams have been formed and are looking closely at student data and intervening sooner than before. 2 sites will be getting Wellness Centers this year."

Western Placer Unified (Placer County)





## External Evaluation Studies of CA MTSS

Nicholas A. Gage, Ph.D.

WestEd

#### Two Important Evaluation/Impact Issues

- Is fidelity of implementation being measured and, critically, is there evidence of reliability and validity?
- What is the impact on student- and school-outcomes relative to schools not participating in the CA MTSS initiative?







## Psychometric Evaluation of the Fidelity Integrity Assessment



#### SWIFT Domains, Core Features, and related SWIFT-FIA items

SWIFT Domain	SWIFT Core Feature	SWIFT-FIA Item / Improvement Area
Administrative	Strong and Engaged Site	1. Valued Leadership
Leadership	Leadership	2. Empowered Decision Making
	Strong Educator Support	3. Educator Coaching and Learning
	System	4. Personnel Evaluation
Multi-tiered		5. Academic Supports
System of	Inclusive Academic Instruction	6. Academic Instruction
Support		7. Data-based Decision Making for Academics
		8. Behavior Supports
	Inclusive Behavior Instruction	9. Behavior Instruction
		10. Data-based Decision Making for Behavior
Integrated	Fully Integrated Organizational	11. Tier I Instruction for All
Education	Structure	12. Non-categorical Service Delivery
Framework	Positive and Strong School	13. Full Access for All Students
	Culture	14. Shared Responsibility
Family &	Trusting Family Partnerships	15. Family Opportunities to Participate
Community		16. Partnerships with Families
Engagement	Trusting Community	17. Community Collaboration
	Partnerships	18. Community Benefits
Inclusive Policy	Strong LEA (District)/School	19. LEA (District) Support
Structure &	Relationship	20.LEA (District) Addresses Barriers
Practice	LEA (District) Policy	21. LEA (District) Links Initiatives
	Framework	22. LEA (District) Process for RBP (research-based practice)



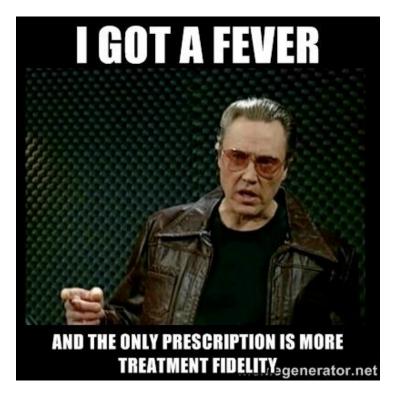
### Scoring Fidelity Integrity Assessment v.1.3

- The current status of each item in FIA is assessed on a 0-3 scale.
- 0 = Laying the Foundation
- 1 = Installing
- 2 = Implementing
- 3 = Sustaining Schoolwide Implementation
- FIA results are summarized into
- 1) a total score,
- 2) individual SWIFT domain scores,
- 3) individual SWIFT core feature scores, and
- 4) individual item scores



### Scoring Fidelity Integrity Assessment v.1.3

- Scores are determined by calculating the percentage of points for a FIA item
- The results can be used for
- Identifying and prioritizing practices for transformation
- Internal decision making about actions to install and implement those practices
- Follow up on effects of action plans on practices
- The summary of results provides schools with a picture of their current implementation of MTSS Core Features.







### Study

- Sample
- 274 schools completed the FIA in the spring of 2019
- These schools were part of Cohorts 1-3 of the CA-MTSS project
- Descriptive Statistics
- Means, SD, skew
- Reliability
- Cronbach's alpha by feature, domain, and total score
- Validity
- Confirmatory Factor Analysis of all hypothesized models







### School Demographics

Table 1.			
<b>Demographic Characteristics</b>	of Schools		
Demographic	%	)	
Grade-level			
Elementary	64.9	9%	
Middle	19.1	۱%	
High	13.3%		
Other	2.7	%	
Student Characteristics	Μ	Sd	
Enrollment	598.4	477.7	
% Black	6.0%	6.4%	
% White	36.7%	23.5%	
% Asian	9.8%	14.1%	
% Hispanic % Native	50.3%	27.3%	
American	9.1%	8.5%	
% Female	48.3%	4.3%	
% ELL	20.8%	16.0%	
% SWD	13.0%	4.5%	
% FRL	62.3%	24.5%	

Note. ELL is English language learner, SWD is student with a disability, FRL is free- and reduced-priced lunch

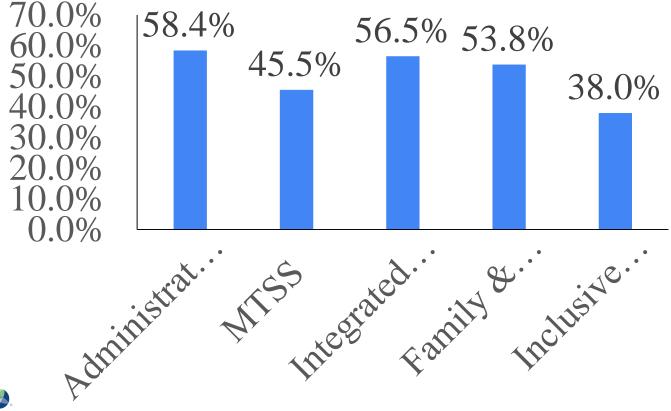
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	WestEd.org

Table 1.



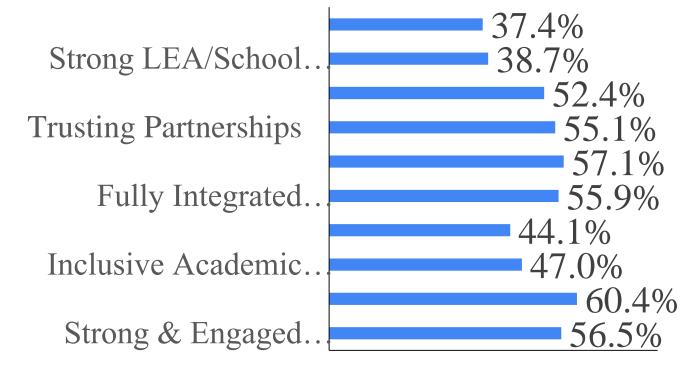
## **Descriptive Statistics**

## Mean FIA Domain Scores





## Mean FIA Feature Scores



0.0%20.0%40.0%60.0%80.0%







## Table 3.Reliability Coefficients for FIA Scores

		95% CI	
FIA Score	а	lower	upper
Full Scale Score	0.94	0.93	0.95
Administrative Leadership	0.76	0.72	0.81
MTSS	0.85	0.83	0.88
Integrated System of Support	0.85	0.82	0.88
Family & Community Engagement	0.77	0.73	0.82
Inclusive Policy Structure & Practice	0.88	0.86	0.91
Strong & Engaged Site Leadership	0.74	0.68	0.8
Strong Educator Support System	0.7	0.63	0.77
Inclusive Academic Instruction	0.78	0.73	0.82
Inclusive Behavior Instruction Fully Integrated Organizational	0.83	0.79	0.86
Structure	0.73	0.66	0.79
Positive & Strong School Culture	0.77	0.72	0.83
Trusting Partnerships	0.83	0.8	0.87
Trusting Community Partnerships	0.64	0.55	0.72
Strong LEA/School Relationships	0.78	0.73	0.83
LEA Policy Framework	0.79	0.74	0.84





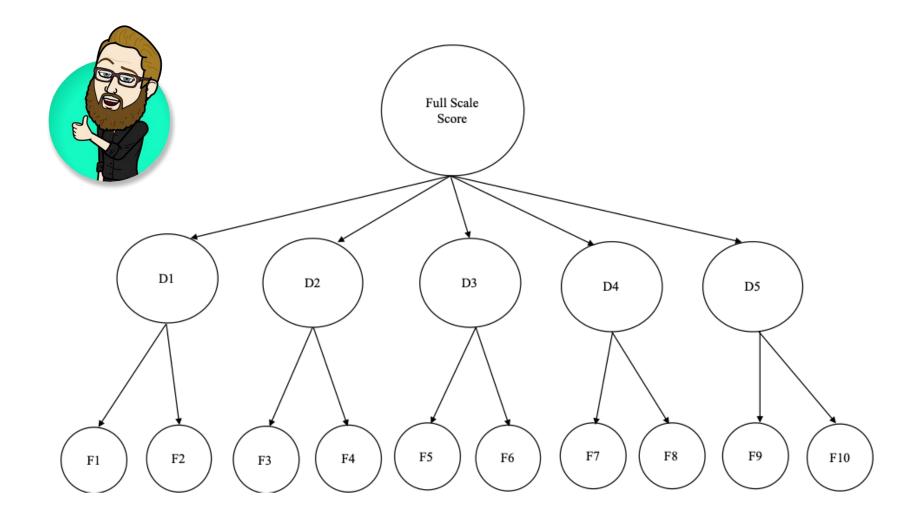


## Table 4.Model Fit Statistics

				Hierarchical		
	Total	Domain				
Statistic	Score (g)	(D)	Feature (F)	$F \rightarrow g$	$D \rightarrow g$	$F \rightarrow D \rightarrow g$
$X^2$	894.92	472.85	278.67	484.92	490.48	318.42
df	209	199	164	199	204	194
<i>p</i> -value	0.000	0.000	0.000	0.000	0.000	0.000
CFI	0.78	0.91	0.96	0.91	0.91	0.96
TLI	0.75	0.90	0.95	0.89	0.89	0.95
RMSEA	0.11	0.07	0.05	0.07	0.07	0.05
SRMR	0.07	0.05	0.04	0.05	0.05	0.04

Notes. CFI = comparative fit index, TLI = Tucker-Lewis index, RMSEA = root mean square error of approximation, SRMR = standardized root mean square residual







# Post-Hoc Quasi-Experimental Design Study

#### **Purpose and Research Questions**

- This study explored the effect of CA MTSS on school-level performance when compared to schools not participating in CA MTSS
- Research Questions:
- Is there a statistically significant difference in school-level reading and mathematics performance between treatment groups?
- Is there a statistically significant difference in school-level suspensions between treatment groups?
- Is there a statistically significant difference in school-level chronic absences between treatment groups?



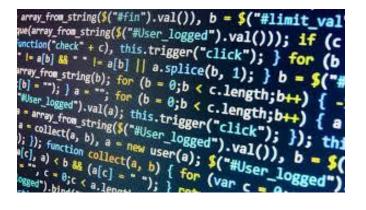




#### Data

- The Fidelity Inventory Instrument (FIA) was collected from 273 schools during the spring of the 2018-2019 school year
- School-level data was collected from CDE website (<u>https://www.cde.ca.gov/ta/ac/cm/datafiles2019.asp</u>) for the 2018-2019 school year. Data sets contained performance for ~10,000 schools
- Merged the FIA data with CDE public school-level data, including demographics
- Final sample included ~220 schools using FIA matched on all demographics and outcomes

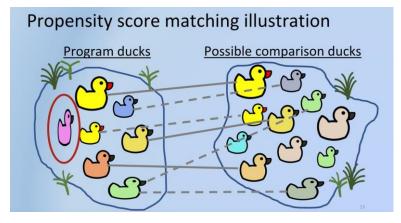






### Data Analysis

- We used propensity score matching (PSM) to identify a baseline-equivalent comparison group
- We used change scores to estimate treatment effects
- We used multilevel models for all treatment effect estimates to control for nesting of schools with districts and counties.
- Included all covariates in the models to account for any potential remaining confounds after PSM
- Estimated impact by treatment condition





## Chronic Absences

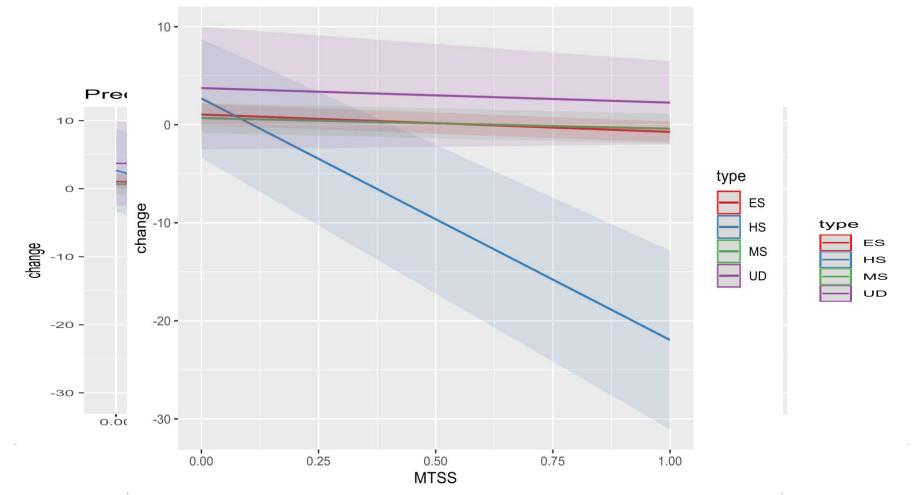


Table 1.CA MTSS Impact on Chronic Absenteeism

Predictor	Estimate	Std. Error	р
Intercept	5.22	3.80	0.170
MTSS	-1.79	0.77	0.020*
Enroll	0.00	0.00	0.962
% Black	-9.05	6.64	0.174
% White	-8.30	3.77	0.028
% Asian	-6.25	4.28	0.146
% Hispanic	-7.64	3.51	0.030
% Native American	19.54	5.46	0.000
% Female	3.08	4.44	0.488
% English Learners	2.19	2.37	0.356
% Students with Disabilities	5.20	4.31	0.228
% Economically Disadvantaged	-1.52	1.39	0.275
<sup>a</sup> High School	-12.92	2.64	0.000
Middle School Other Grade	0.40	0.50	0.419
Configuration	1.25	1.25	0.3161`
FIA	3.53	1.44	0.014*

Note. "Keterence group is elementary







# What does it mean?

### Important Considerations from These Studies

- Fidelity can be measured, and psychometric evaluations can (should) be conducted
- Post-hoc quasi-experimental design analysis can be conducted
- BUT... CONTEXT MATTERS
  - The pandemic limits our ability as evaluators to look back and see the longitudinal change!
  - School-wide initiatives take 3-4 years to actualize results at the school-wide level
  - Therefore, these analyses are only examples of possibilities
- CA Initiatives should design experimental studies A PIORI!

