# MGT

# LAUSD Construction Outcomes

Facilities and Procurement Committee Meeting

**April 22, 2025** 







# Agenda

**Introductions and Executive Summary** 

Macroeconomic and Contractor Participation Analysis

**Peer Entity Review** 

**LAUSD Construction Outcomes Review** 

**Conclusion and Next Steps** 



# Nationally-recognized Locally-focused

Our commitment to high-quality education drives us to partner with schools, districts, and agencies to deliver innovative solutions. With our expertise, we empower educational institutions to create environments where students and staff excel.



# **50M**

Students impacted across over 500 school districts



Engagements completed – serving as a trusted partner



Team members, with California staff across local offices

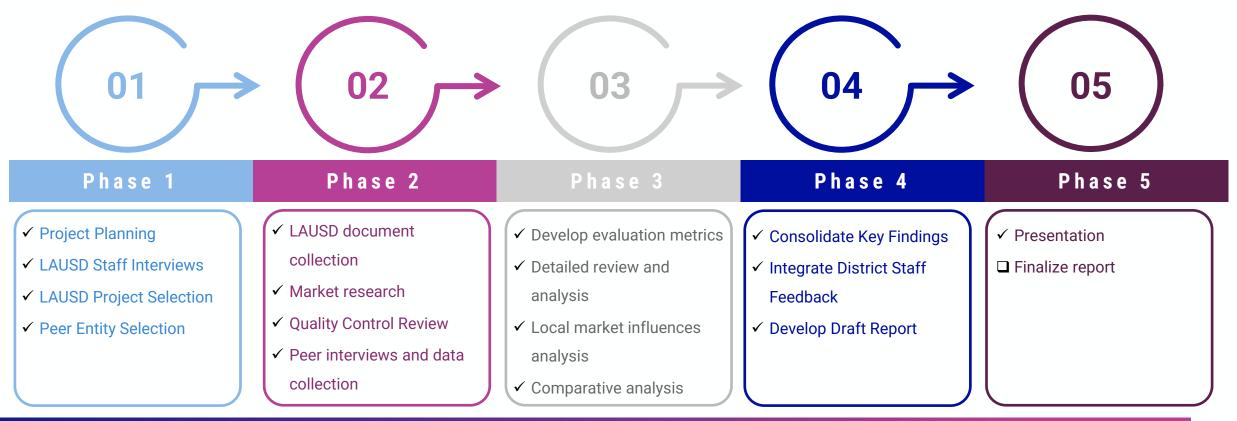


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Years of positive change and social impact in education

# **Project Overview**

**Primary Objective:** provide District decision-makers with critical data needed to understand the factors driving costs and delays in district construction projects



# **Executive Summary**

# **Key Findings**

MGT evaluated local labor market influences, key performance indicators, and best practices to identify key areas where LAUSD should evaluate changes to management of aspects of the school construction program.



# Macroeconomic Analysis & Contractor Participation

- Construction costs have increased dramatically due to inflation, commodity pricing increases
- Employment gaps in construction, with limited contractor participation in trades that are most expensive
- Local events create higher demand on commodities and labor, increasing costs



## **Peer Entity Review**

- Benchmarking against peer entities provides insights, with limitations in comparative analysis
- Gathered qualitative and quantitative data from peer entities to inform recommendations



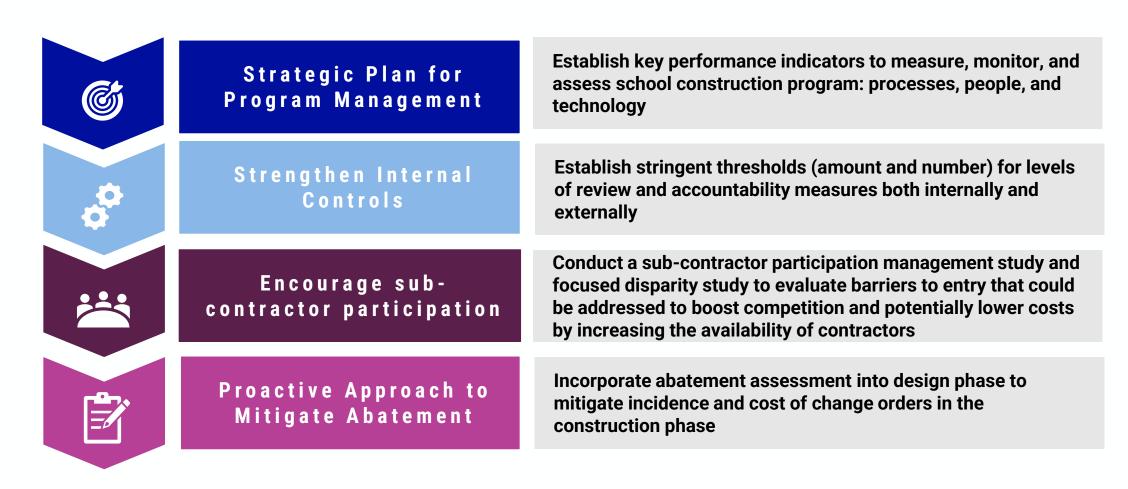
# LAUSD School Construction Review

- In-depth review of 10 projects sampled across various school and project types
- Original budget to actual cost variance ranging from \$260k to \$45M overage with two under by \$100k and \$3M
- Change orders ranged from 3 to 299 per project, with an average of 88 and one without any change orders

# **Executive Summary**

## Recommendations

MGT identified over 25 recommendations to improve aspects of the school construction program. These examples offer the four most important actions LAUSD should adopt to strengthen project delivery, risk management, and contractor engagement to manage costs.



# Macroeconomic and Contractor Participation Analysis

Macroeconomic Analysis

# 7

# Variables Relating To Construction Outcomes

# Understanding macroeconomic variables related to construction costs, with a focus on California and Los Angeles specific factors

#### **Materials Market Conditions**

- Analyzed trends in the cost of eight commodities as well as the average cost of inputs for producers
- Every category of commodity, and commodity prices on average, have risen considerably since January 2020 with margins of increase ranging from 26 percent for cold rolled steel to 52 percent for copper and copper products

#### **Labor Market Conditions**

- Analyzed employment trends for construction-related macroeconomic variables across the Los Angeles-Long Beach-Anaheim Metropolitan Statistical Areas (MSA)
- Employment gaps generally and in specialty trades of 16 and 18 percent, respectively, compared to historical trends

#### **Other California-Specific Economic Considerations**

- Cost of Living Index: California is 4<sup>th</sup> highest nationally
- California Construction Cost Index- Increased 40% from Jan 2020 to Oct 2024
- School Construction Bonds: \$18.1B approved in Nov 2024
- Wildfires in January 2025

- Lack of Affordable Housing
- New Private Housing Demand
- 2026 FIFA World Cup
- 2028 Olympics

Macroeconomic Analysis

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# Recommendations for External Risk Mitigation

Responding to market pressures requires a shift from reactive to proactive approach

# Labor Shortage Mitigation



- 1. Partner with trade schools and apprenticeship programs
- 2. Explore automation and innovation in contractor participation

# Commodity Cost Preparedness



- 1. Monitor market prices routinely
- 2. Use adjusted escalation factors in cost planning

# **Contractor Participation Analysis**

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# Assessment of Local Contractor Availability

## Low availability of contractors in Los Angeles, particularly in high cost markets, increases cost of construction

#### **Contractor Categories and Business Type**

- Data sourced from the California Contractors State Licensing Board
- · Peer counties include Orange, Riverside, San Bernardino, and Ventura
- Controlled for county population size to benchmark comparison (LA County: 9.6M vs. peer counties ranging from ~830K to ~3.1M residents)

#### **Key Insights**

- Incidence of contractors per 1,000 residents is 11% lower in Los Angeles County than average in other four counties
- Corporations and partnerships over-represented in Los Angeles County, with limited liability corporations infrequent

		County (Population)					Trend		
			San						
		Orange	Riverside	Bernardino	Ventura	Mean	Los Angeles	Variance	Percent
<b>Contractor Classification</b>	Code	3,135,755	2,492,442	2,195,611	829,590	-	9,663,345	-	-
Asbestos Abatement Contractor	C-22	0.012	0.004	0.007	0.004	0.007	0.008	(0.001)	12%
Plumbing Contractor	C-36	0.442	0.427	0.326	0.574	0.442	0.457	(0.014)	3%
Boiler, Hot Water Heating and Steam Fitting Contractor	C-4	0.012	0.008	0.004	0.014	0.010	0.010	(0.000)	1%
★ General Building	В	2.829	2.125	1.856	3.040	2.463	2.312	0.150	-6%
★ Electrical Contractor	C-10	0.762	0.712	0.588	0.840	0.725	0.670	0.055	-8%
★ Structural Steel	C-51	0.034	0.040	0.048	0.028	0.037	0.034	0.003	-8%
Building Moving/Demolition Contractor	C-21	0.051	0.047	0.049	0.049	0.049	0.043	0.007	-13%
★ Warm-Air Heating, Ventilating and Air-Conditioning									
Contractor	C-20	0.323	0.412	0.296	0.305	0.334	0.288	0.046	-14%
Roofing Contractor	C-39	0.137	0.122	0.134	0.165	0.140	0.113	0.027	-19%
Solar Contractor	C-46	0.025	0.035	0.020	0.023	0.026	0.020	0.006	-22%
Masonry	C-29	0.072	0.087	0.054	0.119	0.083	0.043	0.040	-48%

<sup>★</sup> Indicates building components that are significant costs in projects

**Contractor Participation Analysis** 



# Challenges and Gaps

Understanding contractor availability gaps provides areas of focus based on LAUSD scheduled construction projects

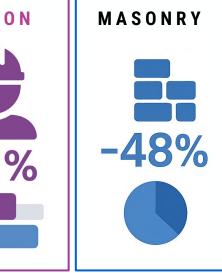
## **Key Challenges**

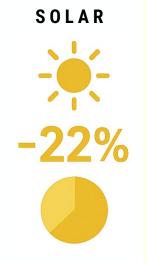
- LAUSD's contractor pool is dominated by large corporations and partnerships, reducing price competition
- Masonry contractors are nearly half as available compared to the regional average
- Solar contractor availability is also significantly underrepresented
- Warm-Air Heating, Ventilating and Air-Conditioning Contractor and Roofing are 19 and 14 percent underrepresented

## **Contractor Participation Gaps**

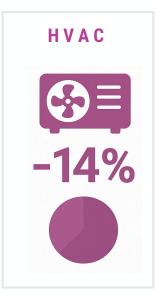
per 1,000 residents











Contractor Participation Analysis

# Recommendations for Improvement

With limited availability, LAUSD should focus on boosting competition through contractor engagement to potentially lower costs

Increase Subcontractor Participation

Target most underrepresented trades like Masonry, Solar, HVAC, or Roofing based on LAUSD project scheduling Diversify
Contractor Pool

Encourage small firms, joint ventures, and sole proprietors to participate in LAUSD projects

# Peer Entity Review

Peer Entity Review
Selection Methodology

Peer selection was driven by desire to focus on urban school districts and California's local market factors

Peer entities were selected to reflect urban educational environments and local market conditions relevant to California, with a focus on comparability in scale, infrastructure needs, and community context.

#### **Urban school districts in California**

- Seven were considered across the state, 2 selected
- Factors influencing choice: school bonds, location

#### **Colleges in California**

- Two were considered across the state, 2 selected
- While not comparative on school type, similar market factors apply

#### **Other Communities**

- Two were considered outside of California. 1 selected
- Perspective into other geographies and national best practices

Peer Entity	State	Enrollment	County Population
Phoenix Union School District	Arizona	27,000	4,420,568
West Contra Costa Unified School District	California	32,197	1,165,927
Los Angeles Community College District	California	193,960	9,663,345
San Diego Unified School District	California	114,467	3,269,973
California State University	California	485,549	N/A
Peer District Average*		235,087	5,636,632
LAUSD	California	557,352	9,663,345

# Peer Entity Review Bond Measures

Understanding the Scale, Timing, and Strategic Focus of Capital Investments

## **Key Insights**

- Districts are leveraging multi-billion-dollar bond measures to modernize aging infrastructure and adapt to evolving educational needs
- LAUSD's \$9 billion Measure US, passed in 2024, represents one of the largest K-12 investments in California—expected to drive demand for specialized school construction labor and contribute to rising project costs
- Recent bonds emphasize safety, technology, and flexible learning environments, especially post-2018
- Ongoing investments reflect long-term, phased strategies rather than one-time facility overhauls
- Bonds are increasingly tied to sustainability, STEM, and workforce-readiness upgrades

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District / Entity	Bond Measure	Year Approved	Amount	Purpose
	Proposition S	2008	\$2.1B	Repairs, renovations, safety upgrades, facility replacement
SDUSD (San Diego Unified)	Proposition Z	2012	\$2.8B	Continuation of S – safety, technology, energy efficiency
,	Measure YY	2018	\$3.5B	Modern learning environments – lead removal, STEM upgrades, security
WCCUSD (West Contra Costa Unified	Measure E	2012	\$360M	Modernize and construct school facilities
School District)	Measure D	2016	\$270M	Safety improvements, technology upgrades
ochool bistricty	Measure R	2020	\$575M	Construction, rehab, and facility replacement
	Proposition AA	2003	\$980M	Renovation, replacement of aging facilities
LACCD	Measure J	2008	\$3.5B	Continued facilities improvements
(L.A. Community College District)	Measure CC	2016	\$3.3B	Security, tech upgrades, classroom/lab modernization
	Measure LA	2022	\$5.3B	Infrastructure, tech, sustainability, athletics upgrades
	Proposition 47	2002	\$1.65B	Modernization as part of statewide K-12/higher ed effort
Cal State University – Los Angeles	Proposition 55	2004	\$36M	Maintenance and building upgrades
(California State University)	Proposition 1D	2006	\$690M	Seismic retrofits, major renovations
	Systemwide Revenue Bonds	Ongoing	Project-based	Housing, infrastructure, energy improvements
PXU (Phoenix Union)	Previous Bonds	Various	N/A	General construction, tech, safety upgrades
PAO (Phoenix Onion)	2023 Bond	2023	\$475M	Renovation, inflation offset, flexible learning spaces
	Measure US	2024	\$9B	Modernize school facilities to improve safety, seismic upgrades, ADA accessibility, plumbing, electrical, HVAC, green classrooms, and technology infrastructure. Approved as part of a larger \$18.1B LA County school bond package. Expected to increase demand for specialized school construction labor and raise construction costs.
LAUSD (Los Angeles Unified School District	Measure RR	2020	\$7B	Measure RR funds critical school upgrades across LAUSD, including seismic retrofitting, lead and asbestos removal, and modernization of HVAC, plumbing, and electrical systems. The bond also supports technology infrastructure and classroom improvements to meet evolving safety and instructional needs.
	Measure Q	2008	\$7B	Designed to relieve overcrowding and update aging facilities by funding new school construction, modernization projects, and improvements to campus safety, accessibility, and energy efficiency.

Peer Entity Review
Benchmarking Limitations

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Benchmarking against peer entities provides insights, with limitations in comparative analysis

LAUSD is unique in its operations, scope, and local market conditions.

- Entities operate differently
  - Organizational structures
  - Internal and external expertise varies
- Program management is influenced by process and scope
  - Project management techniques and accountability structures
  - Variances in the number of school construction projects and how they are managed
- School construction projects
  - Variances in types of projects completed in the last two years
  - No two schools are the same: age, conditions, needs, community
- Comparative analysis was completed where peer entity and LAUSD data could be credibly and reliably normalized
  - Project timelines, costs, delivery methods
  - Legal terms and conditions, change orders
  - Data from peers is inconsistent due to numerous factors; therefore, peer selection was expanded

# Peer Entity Review Comparative Analysis

**Project Cost by Square Foot** 

#### **Average cost per square foot: LAUSD Projects**

	Calculations						
Project	School Level	Project Type	Total Cost	SF	\$ Per SF	\$ per SF Avg. by Type	
Carnegie MS - HVAC	MS	HVAC Replacement	\$4,546,726	18,447	\$246	01.41	
Sun Valley Magnet MS - HVAC	MS & HS	HVAC Replacement	\$4,032,483	42,200	\$96	\$141	
Garvanza Tech Magnet ES - Seismic Retrofit of Main Building	ES	Seismic Retrofit	\$7,328,857	33,812	\$217	\$228	
Glassell Park STEAM Magnet ES - Seismic Retrofit of Main Building	ES	Seismic Retrofit	\$7,736,392	32,270	\$240	<b>\$220</b>	
Cleveland Charter HS - Comprehensive Modernization	HS	Modernization	\$167,080,188	246,309	\$678		
Venice HS - Comprehensive Modernization	HS	Modernization	\$156,907,036	402,362	\$390	\$498	
Wonderland ES - Classroom Replacement	ES	Modernization	\$11,367,361	24,141	\$471		
Hollywood HS - Roofing	HS	Roofing	\$2,979,797	57,838	\$52		
Los Angeles Center for Enriched Studies Span - Roofing	HS	Roofing	\$1,148,294	15,620	\$74	\$56	

#### **Average cost per square foot: Peer Projects**

		Calculations					
District	Project	Project Type	Actual Costs	Sq Ft	\$ Per Sq Ft	\$ per Sq Ft Avg. by Type	
LBUSD	Cubberley K-8 HVAC	HVAC Replacement	\$17,972,735	47,870	\$375	\$241	
LBUSD	Robinson K-8 HVAC	HVAC Replacement	\$7,831,076	59,062	\$133	\$241	
LBUSD	Jordan High School Major Renovation	Renovation	\$35,715,684	29,000	\$1,232		
LACCD	Los Angeles City College DaVinci Modernization	Modernization & ADA	\$42,682,125	65,920	\$647	\$826	

- Benchmarking by square foot cost by project type gives LAUSD a starting point to evaluate projects moving forward and further refine this metric internally
- LAUSD's HVAC replacement costs (\$141/SF) are in range with peer projects (\$241/SF)
- LAUSD's modernization costs (\$498/SF) appear significantly lower than the peer average (\$826/SF), though difference may be attributed to differences in scope

Peer Entity Review Comparative Analysis

LAUSD Hard Cost Percentage Analysis

LAUSD Project Data								
Project	School Level	Project Type	Hard Cost	Soft Cost	Total Cost	Hard Cost as % of Total Costs		
Carnegie MS - HVAC	Middle	HVAC Replacement	\$ 3,441,766	\$ 1,104,960	\$ 4,546,726	76%		
Sun Valley Magnet MS - HVAC	Middle & High School	HVAC Replacement	\$ 3,197,845	\$ 834,638	\$ 4,032,483	79%		
Garvanza Technology & Leadership Magnet ES - Seismic Retrofit of Main Building	Elementary	Seismic Retrofit	\$ 5,665,071	\$ 1,663,786	\$ 7,328,857	77%		
Glassell Park STEAM Magnet ES - Seismic Retrofit of Main Building	Elementary	Seismic Retrofit	\$ 6,419,278	\$ 1,317,114	\$ 7,736,392	83%		
Ramona ES - ADA Improvements	Elementary	ADA Upgrades	\$ 2,402,168	\$ 923,666	\$ 3,325,834	72%		
Cleveland Charter HS - Comprehensive Modernization	High School	Modernization	\$ 148,004,934	\$ 19,075,254	\$ 167,080,188	89%		
Venice HS - Comprehensive Modernization	High School	Modernization	\$ 133,247,276	\$ 23,659,760	\$ 156,907,036	85%		
Wonderland ES - Classroom Replacement	Elementary	Modernization	\$ 8,529,030	\$ 2,838,331	\$ 11,367,361	75%		
Hollywood HS - Roofing	High School	Roofing	\$ 2,916,623	\$ 63,174	\$ 2,979,797	98%		
Los Angeles Center for Enriched Studies Span - Roofing	High School	Roofing	\$ 1,079,701	\$ 68,124	\$ 1,147,825	94%		
Total			\$ 314,903,692	\$ 51,548,807	\$ 366,452,499	86%		

- LAUSD's hard cost to total cost percentage, on average, across the in-depth project sample is 86%, slightly higher than the 70-80% best practice range
- As expected, the roofing average is higher at 96%, where labor and materials are core to the project with a lower average of 77.5% for HVAC projects

Peer Entity Review
Comparative Analysis

## **Peer Entity Hard Cost Percentage Analysis**

Peer Project Data								
Peer	School	School Level	Project Type	Total Cost	Hard Cost Amount	Hard Cost %		
SDUSD	Barnard	Elementary	Modernization	\$2,437,140.00	\$1,925,341	79%		
SDUSD	Roosevelt	Middle	HVAC Replacement	\$2,949,238.00	\$2,388,883	81%		
SDUSD	Crawford	High School	Modernization	\$62,111,642.00	\$45,962,615	74%		
WCCUSD	Cameron	Elementary	HVAC Replacement	\$3,370,063.00	\$2,392,745	71%		
WCCUSD	Collins	Elementary	HVAC Replacement	\$6,799,031.00	\$4,895,302	72%		
WCCUSD	Michelle Obama (Wilson)	Middle	Modernization	\$39,361,480.00	\$25,191,347	64%		
WCCUSD	Richmond	High School	Modernization	\$20,250,034.00	\$13,770,023	68%		
LBUSD	Jordan High School	High School	Renovation	\$35,715,684.00	\$23,215,195	65%		
PUHSD	Central	High School	Modernization	\$9,000,000.00	\$6,480,000	72%		
LACCD	Pierce College - 1500 Building	Community College	HVAC Replacement	\$1,299,000.00	\$935,280	72%		
LACCD	Pierce College – SLE South of Mall	Community College	ADA Upgrades	\$1,266,000.00	\$873,540	69%		
LACCD	LA City College – Da Vinci Hall	Community College	Modernization	\$17,600,000.00	\$13,059,200	74%		
	Total \$202,159,312.00 \$141,089,470.43							

- LAUSD's hard cost to total cost percentage, on average, across the in-depth project sample is 86%, higher than the 70% average for peer projects
- LAUSD's hard cost to total cost percentage of 77.5% for HVAC projects is slightly higher than the peer average of 74% indicative of lower LAUSD indirect costs

Peer Entity Review
Comparative Analysis

**Change Order Review** 

#### **LAUSD Change Order Amount as Percent of Original Contract Value**

LAUSD Project Name*	Original Contract Value	Change Orders Total Amount	Change Orders as % of Original Contract Value
Carnegie MS - HVAC	\$ 4,414,069	\$661,072	15%
Garvanza Technology & Leadership Magnet ES - Seismic Retrofit of Main Building	\$5,224,506	\$808,642	15%
Cleveland Comp Mod	\$126,335,634	\$2,657,635	2%
Venice HS - Comprehensive Modernization	\$114,979,580	\$16,242,267	14%
Ramona ES - ADA Improvements	\$1,888,888	\$202,991	11%
Wonderland ES - Classroom Replacement	\$7,003,333	\$604,369	9%
Glassell Park STEAM Magnet ES - Seismic Retrofit of Main Building	\$7,221,209	\$932,533	13%
Hollywood HS - Roofing	\$1,553,680	\$209,744	13%
Sun Valley Magnet MS - HVAC	\$3,770,837	\$641,112.00	17%
Totals	\$272,391,736	\$22,960,369	8%

#### **WCCUSD Order Amount as Percent of Original Contract Value**

Completed Project	Original Contract Value	Change Orders Total Amount	Change Orders as % of Original Contract Value
Pinole Valley HS - Fields and Bleachers	\$15,185,000	\$1,518,543	10%
Fairmont ES - Critical Needs	\$59,000	\$500	1%
Kennedy HS - Bleacher & Press Box	\$5,042,000	\$461,148	9%
Cameron School & Collins ES Critical Needs	\$9,064,000	\$456,475	5%
Riverside ES Playground Improvements	\$849,000	\$53,644	6%
Hercules MS/HS Science Building	\$15,613,000	\$693,466	4%
Total	\$45,812,000	\$3,183,776	7%

- LAUSD's average change order percent of original contract value is one percentage point higher than West Contra Costa's
- Using 8-14% as a typical range, three LAUSD projects were above (15% or higher) with one below (2%), while WCCUSD had none over and 4 below (6% or lower)
- Due to the variability in project types and project management across districts, it is best for LAUSD to establish change order benchmarks internally

# Peer Entity Review

# Opportunities for LAUSD

MGT identified key areas and practices where LAUSD should evaluate changes to management of aspects of the school construction program. These examples offer opportunities for LAUSD to further assess current state to implement new or refine existing practices.





# Opportunities for LAUSD

Competitive performance-based contractor terms (escalation clauses, incentives)	Cost Controls	Explore bonuses to increase adherence to project schedule and minimize unforeseen costs
Matching delivery methods to project complexity / scope	<b>Delivery Method</b>	Refine structured criteria to choose optimal delivery methods
Change order thresholds and owner scope review	Change Orders	Add review triggers (e.g., >10% budget or 15+ changes) to mitigate costs
Strategic plan with key performance indicators	Program Management	Create a formal performance oversight framework to address gaps in people, process, technology
Disparity study to expand vendor pool	Vendor Access	Identify participation barriers and attract more small/local contractors

# LAUSD Strengths Compared to Peers

# Opportunities to Build On Success

While the peer review and comparative analysis focused on areas where other districts may perform differently from LAUSD, MGT also identified LAUSD-specific strengths that may be expanded — presenting an opportunity to build on these internal wins.

## LAUSD Strengths

## **Building on Strengths**

1

#### **Structured Project Prioritization Process**

Staff described LAUSD's process for identifying and prioritizing construction projects as structured and data-informed.

#### **Enhance Long-Term Project Agility**

Build on this strength by integrating formal scope and budget checkpoints into long-term projects to adapt to changing conditions.

2

## **Improved Collaboration Post-Reorg**

Following a recent reorganization, staff reported increased collaboration and alignment across departments involved in construction.

## Formalize Cross-Department Collaboration

Institutionalize this collaboration through consistent communication protocols and shared planning tools across teams.

3

## **Community Engagement at Complex Sites**

Roosevelt High School was highlighted as a standout example of collaborative planning that authentically reflected community input.

#### Replicate Successful Engagement Models

Scale the current community engagement approach in a costeffective manner to replicate success at other sites, especially those with historic or complex needs.

# **LAUSD Construction Outcomes Review**

# LAUSD Construction Outcomes Review

## Process review and Staff Interviews

Information about LAUSD practices and processes were gathered through documentation reviews and staff interviews

Quantitative and qualitative data was gathered to understand the life cycle of projects from bid to completion.

Documentation review included but not limited to:



- Construction Management Policies and Procedures
- Board of Education documents
- Construction budget, cost, and control documents
- Estimate at completion (EAC) reports
- Budget modification forms
- Change order logs and change orders
- Notices of award
- Notices to proceed
- Notices of completion
- Office of the Inspector General Audit Reports

Staff Interviews



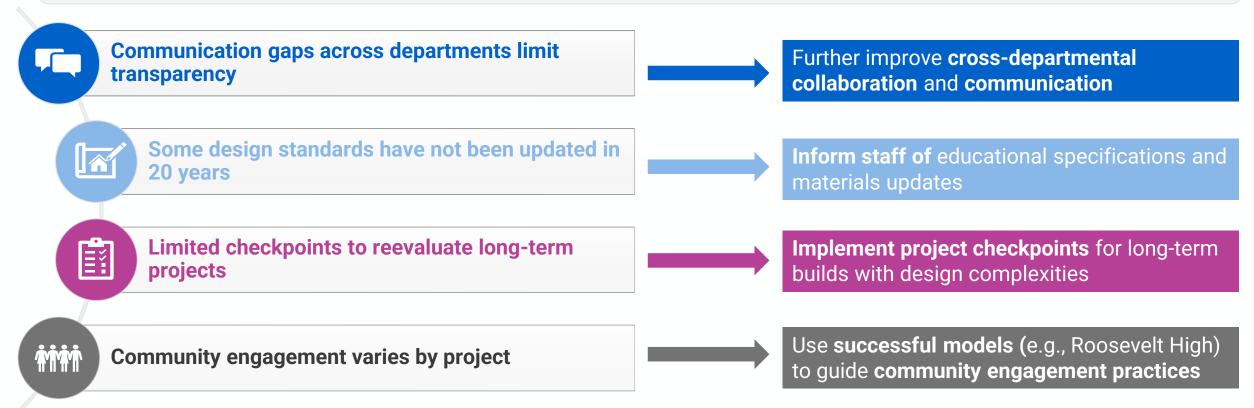
- Conducted twenty interviews with key members across various LAUSD organizational units
- Staff represented the following departments:
  - Business Services, Operations, Facilities, Construction and Maintenance, Community Relations, and Small Business departments
- Rubric was created and leveraged to normalize feedback and analyze information gathered through interviews

# LAUSD Construction Outcomes Review Staff Interview Key Highlights

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Information shared by multiple staff was organized into themes

Qualitative feedback reflects perspectives from varying levels of staff based on questions in MGT's interview rubric.



# LAUSD Construction Outcomes Review

# **Project Selection and Analysis**

Ten projects were thoughtfully selected for in-depth review

Factors such as project budget, scope, percentage over budget, delays, and geographic region were considered during the project selection process.

## Project Selection Process

- LAUSD's Informal Request for Proposal included 99 school construction projects completed since May 2022
- MGT and LAUSD proposed potential projects for review
- MGT reviewed crosswalk of proposed projects to identify those for in-depth analysis – focusing on factors like high costs, frequent change orders, and schedule extensions
- Projects varied across type of school, type of project, and region

In-depth analysis	focused	on the fo	ollowina	proiects
in acpair analysis	100000			projecto

Project	Type of School	Type of Project
Carnegie MS - HVAC	Middle	HVAC Replacement
Sun Valley Magnet MS – HVAC	Middle & High School	<b>HVAC Replacement</b>
Garvanza Technology & Leadership Magnet ES - Seismic Retrofit	Elementary	Seismic Retrofit
Glassell Park STEAM Magnet ES - Seismic Retrofit of Main Building	Elementary	Seismic Retrofit
Ramona ES - ADA Improvements	Elementary	ADA Upgrades
Cleveland Charter HS - Comprehensive Modernization	High School	Modernization
Venice HS - Comprehensive Modernization	High School	Modernization
Wonderland ES - Classroom Replacement	Elementary	Modernization
Hollywood HS - Roofing	High School	Roofing
Los Angeles Center for Enriched Studies Span - Roofing	High School	Roofing

#### **KEY INSIGHTS**

• Projects in the sample were significantly delayed and had high variance between actual costs and pre-bid original budget

LAUSD Construction Outcomes Review Change Orders

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Review of amount and reasons for change orders by type of change

Change Order Cost Per Code - Evaluated Projects							
Code	# Change Orders		Cost	% of Total Change Orders			
Course of Construction Scope Addition	320	\$	12,581,910	54.80%			
Owner Initiated Scope Addition	162	\$	6,716,538	29.25%			
Abatement	57	\$	2,304,332	10.04%			
Design Scope Addition	122	\$	1,158,188	5.04%			
Bid Scope Gap	9	\$	917,289	4.00%			
Undefined	84	\$	543,175	2.37%			
Utilities	2	\$	505,140	2.20%			
Means and Methods	1	\$	170,535	0.74%			
COVID	2	\$	87,217	0.38%			
Administrative Change	16	\$	44,863	0.20%			
Seismic	1	\$	42,655	0.19%			
Value Engineering	1	\$	1,775	0.01%			
Delay	2	\$	-	0.00%			
Course of Construction Scope Deletion	1	\$	(901)	0.01%			
Design Scope Deletion	2	\$	(2,415)	0.01%			
Owner Initiated Scope Deletion	16	\$	(2,109,935)	9.19%			
Total	799	\$	22,960,367	100%			

Abatement Change Orders - Evaluated Projects				
# Change Orders	Project	Cost		
24	Venice HS - Comprehensive Modernization	\$	1,282,515	
14	Cleveland Comp Mod	\$	821,324	
5	Garvanza Technology & Leadership Magnet ES - Seismic Retrofit of Main Building	\$	48,495	
4	Valley Oaks Center for Enriched Studies - Clear Vision Studio	\$	85,867	
4	Carnegie MS - HVAC	\$	95,242	
3	Sun Valley Magnet MS - HVAC	\$	37,641	
2	Wonderland ES - Classroom Replacement	\$	11,851	
1	Ramona ES - ADA Improvements	\$	7,263	
Total			2,390,199	

- Three top volume for change orders are: course of construction scope addition, owner initiated scope addition, and design scope addition areas to manage
- Significantly, abatement change orders were fifth in volume but account for 10% of total change orders thus yielding recommendations

# LAUSD Construction Projects Review

# Challenges and Gaps

The following challenges were identified through MGT's in-depth review of LAUSD construction projects, highlighting key areas that contributed to delays, cost increases, and scope changes.

#### RISK OF DELAYS DUE TO ABATEMENT TESTING TIMING

- Abatement testing often occurs after construction starts, leading to change orders and delays.
- Lack of early identification (e.g., 9x9 tile) increases unforeseen conditions.

#### **INSUFFICIENT PRE-CONSTRUCTION EFFORT**

- · Compressed schedules limit thorough facility condition assessments.
- "Unforeseen" conditions like tech incompatibility, roof/gas/fire line issues arose post-start

#### **AGING PROJECT PLANS**

 Projects are identified years before funding due to school bond timelines market conditions and needs shift.

#### LIMITED SITE INVESTIGATION

Late discovery of structural issues (e.g., elevator shaft at Glassell Park) required design changes mid-construction.

#### **DESIGN OMISSIONS AND DOCUMENTATION GAPS**

Incomplete document reviews lead to scope changes and cost increases.

#### MISSED OPPORTUNITIES FOR VALUE ENGINEERING

Limited time for assessments may overlook cost/time-saving alternatives.

#### LACK OF INSTITUTIONAL LEARNING

Lessons from past projects not consistently documented or reviewed.

# LAUSD Construction Projects Review

# Recommendations for Improvement

Based on the analysis of LAUSD construction projects, the following recommendations are intended to address recurring challenges and improve project efficiency, reduce delays, and minimize unforeseen costs.



**Proactive Abatement Testing** 



**Extend Pre-Construction Phase** 





Re-Evaluate Aged **Projects** 



**Prioritize Site Investigations** 



Strengthen **Document Review Process** 



**Enable Value Engineering** 



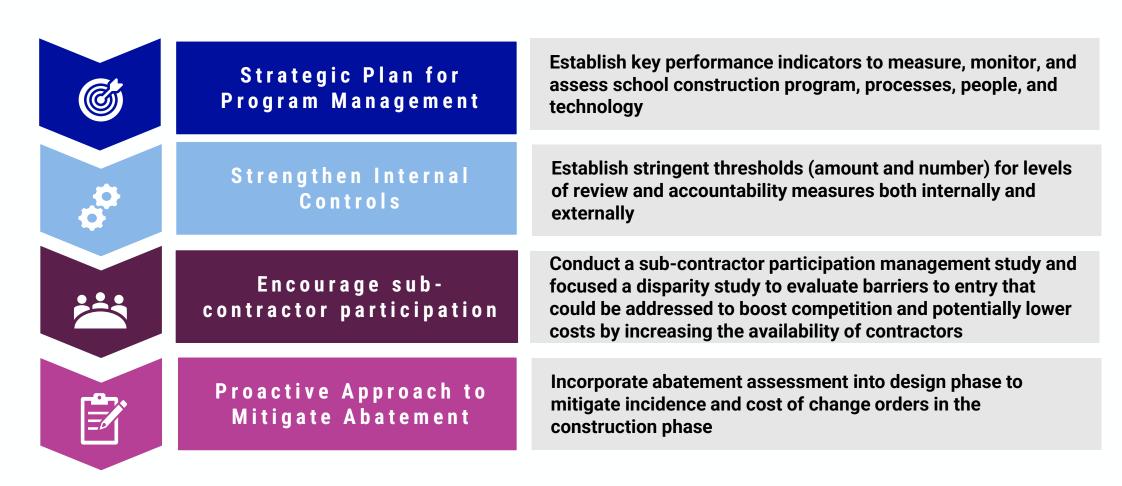
Document and **Review Lessons** Learned

- > Issue RFOs early for hazmat assessment. specifications, and abatement plans.
- Mandate detailed job walks to uncover risks before bidding.
- Build in more time for walkthroughs and facility condition assessments.
- Include CM/GC and A/E teams to catch "unforeseen" issues early.
- Reassess scope and cost prior to bid.
- Conduct early structural reviews and explore alternative design options pre-DSA submission.
- Conduct detailed constructability reviews and assess As-Builts and historical documents before bidding.
- > Allocate time for cost-saving assessments and explore alternate solutions during design.
- > Capture and share recurring issues and resolutions.
- Conduct team reviews of past projects to establish best practices.

# Conclusion

# **Key Recommendations**

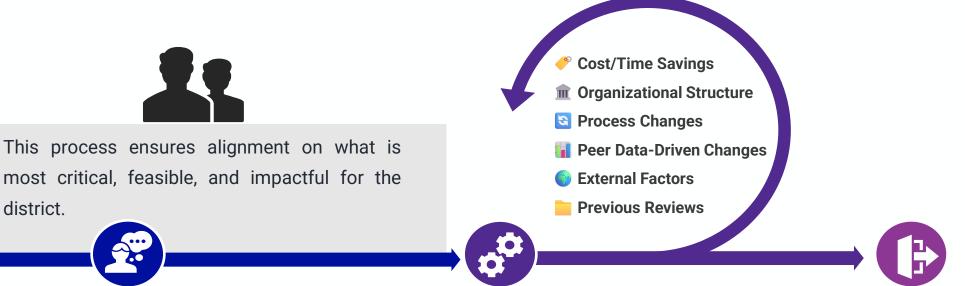
MGT identified over 25 recommendations to improve aspects of the school construction program. These examples offer the four most important actions LAUSD should adopt to strengthen project delivery, risk management, and contractor engagement to manage costs.



# Conclusion

# Recommendation Prioritization and Implementation

To support implementation, MGT will continue working collaboratively with district staff to prioritize the recommendations.



#### District Alignment

MGT will review and refine each recommendation with district staff to confirm urgency, feasibility, and strategic fit.

#### Categorization of Each Recommendation

Each item will be mapped to one or more categories to guide implementation.

#### Recommendation Matrix

A final matrix will visually represent the full set of prioritized recommendations across these categories for inclusion in final report.

district.

# MGT

Thank you

Peer Entity Comparative Analysis

# **Sub-Contractor Participation**

# **Subcontractor Participation Initiatives**

#### Exhibit 14

Subcontractor participation enhances project quality, efficiency, and costeffectiveness in school construction by bringing specialized expertise and accelerating timelines. LAUSD actively supports small business participation through certification help, vendor engagement, and pre-apprenticeship programs. A comparison with peer districts reveals LAUSD's robust initiatives align with or exceed regional practices.

Entity	Subcontractor Participation Initiatives		
Los Angeles Unified School District	LAUSD requires subcontractors, particularly those in mechanical, electrical, and plumbing (MEP) trades, to be prequalified before participating in construction projects. Additionally, LAUSD has a Small Business Enterprise (SBE) program that provides a 10% bid preference to certified SBEs.		
San Diego Unified School District	San Diego Unified School District mandates that general contractors and MEP subcontractors submit a prequalification package for projects over \$1 million. The district uses an "XBE" framework with targets of 5% DVBE, 8% MBE, 7% WBE, 40% SBE, and an overall 50% participation goal, with a minimum 3% DVBE requirement on every project.		
West Contra Costa Unified School District	Under its Local Capacity Building Program (LCBP), WCCUSD prequalifies contractors for projects of \$1 million or more in accordance with state guidelines. The district's approach ensures that local businesses secure at least 30% of the total project dollar volume, supported by local hiring targets (e.g., 24% of work hours by local residents and participation from apprentices).		
Los Angeles Community College District	LACCD leverages its Community Economic Development (CED) Program to award contracts, mandating that at least 30% of Build Program contracts go to Local, Small, Emerging, and Disabled-Veteran Owned Businesses (LSEDV)—including MBE, WBE, SBE, and DVBE categories—reinforced by a Project Labor Agreement (PLA) supporting local hiring.		
California State University	CSU requires subcontractors to comply with the Disabled Veteran Business Enterprise (DVBE) participation requirements, which include a 3% goal of total contract value. CSU allows informal bidding on contracts under \$250,000 by obtaining quotes from at least two certified small businesses or two DVBEs. This prequalification process supports a minimum DVBE participation of 3% across all contracts and requires annual reporting to ensure diverse supplier engagement		
Phoenix Union School District	Phoenix Union's Local and Small Business Outreach Program (LSBOP) requires contractors to maximize local participation. The district targets three priority areas—Central Phoenix, Greater Phoenix (Maricopa County), and Outlying Regions—to ensure local businesses receive at least 30% of the project dollar volume. Additionally, annual goals require 25% of work hours by local residents and 20% by apprentices, with all subcontracting pre-approved by the Procurement Officer.		
Long Beach Unified School District	Long Beach Unified School District has a formal Local Hire and Local Business Participation policy to reinvest bond dollars back into the community, including targeting firms and workers within a 15-mile radius of the district. Additionally, the Long Beach Unified School District maintains a pre-qualification program for contractors that allows small and minority-owned firms to get on the district's preapproved bidders list for projects. The Long Beach Unified School District has also entered into a Community Workforce Development Agreement (a project labor agreement) with the Los Angeles/Orange Counties Building Trades Council. This agreement guarantees fair wages and working conditions on bond-funded projects and also includes provisions for hiring local apprentices and workers-in-training.		

Peer Entity Comparative Analysis

# Labor Availability and Cost

## **Wages in California MSAs**

#### Exhibit 16

Average hourly wages in the LA and San Diego MSAs are nearly identical, despite LA having a much larger construction workforce. While wages in the San Francisco MSA are higher, this is influenced by the inclusion of Silicon Valley. MGT also reviewed California and national wage data to provide broader context.

