

LAX of the Future: Customize SharePoint GIS to provide construction information

2019 ESRI Conference – San Diego, CA July 11, 2019

Don Chinery, Los Angeles World Airports Ryan Mock, Los Angeles World Airports

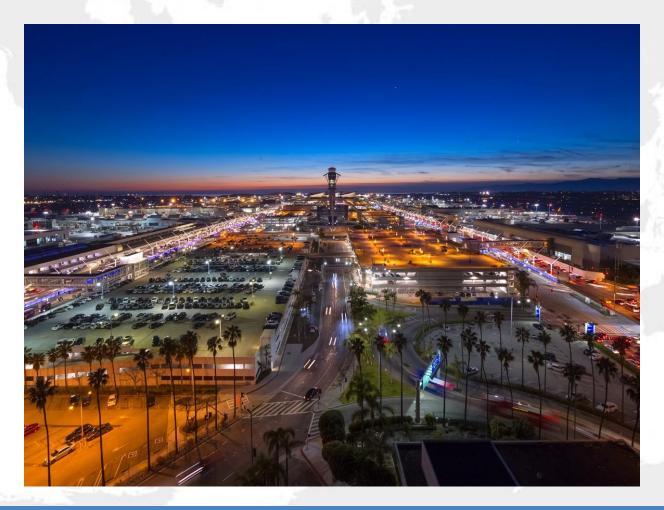


- LAX Development Program
 CALM Coordination and Logistics Management
 Logistical Coordination Schedule
 GIS Application

 Integration with Navigate LA website
 Deliverables Examples
 - Costs / Benefits

Agenda

Gateway to LA: 88 million passengers per year (2018)



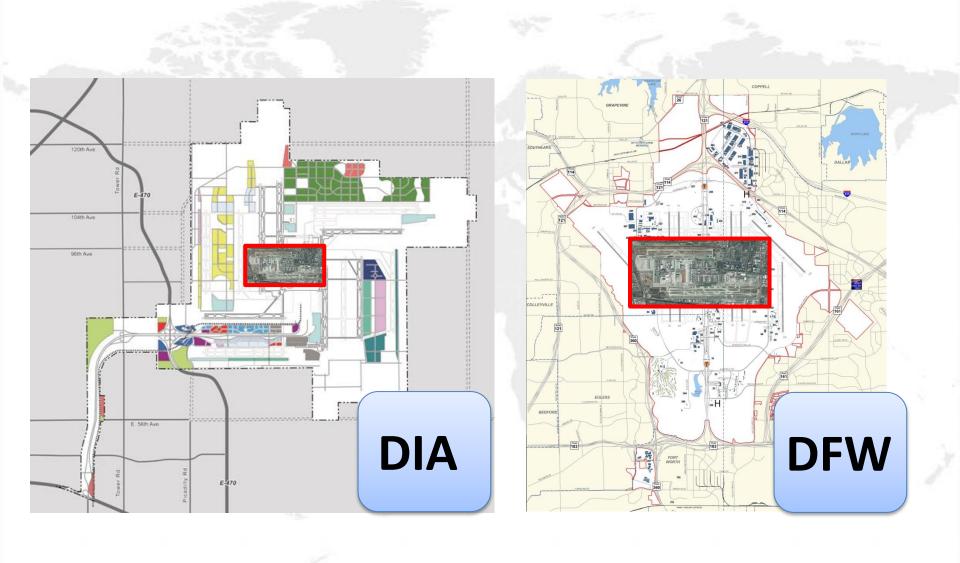
LAX Airport

Washington - Dulles

Orange County

NY/NJ -Newark

LAX Passenger Count



LAX Footprint

Change is in the Air(port).

\$15 Billion of Construction Improvements
 Capital, Airlines/Tenants, Maintenance Projects
 4 major phases – 2010 through 2028
 Nation's largest modernization airport project
 Largest public works project in Los Angeles' history







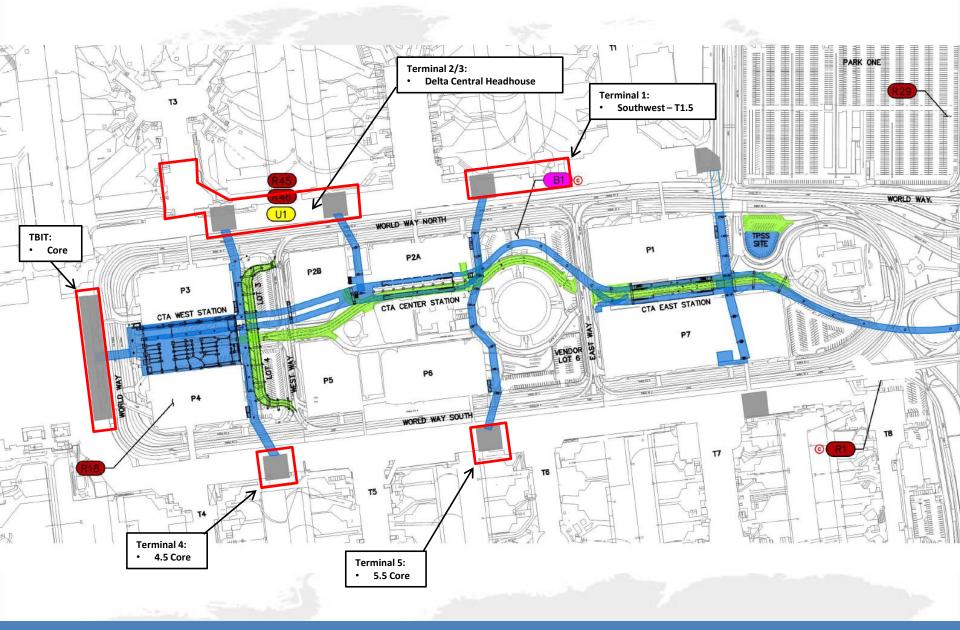
@FlyLAXAirport

Change is in the Air(port).

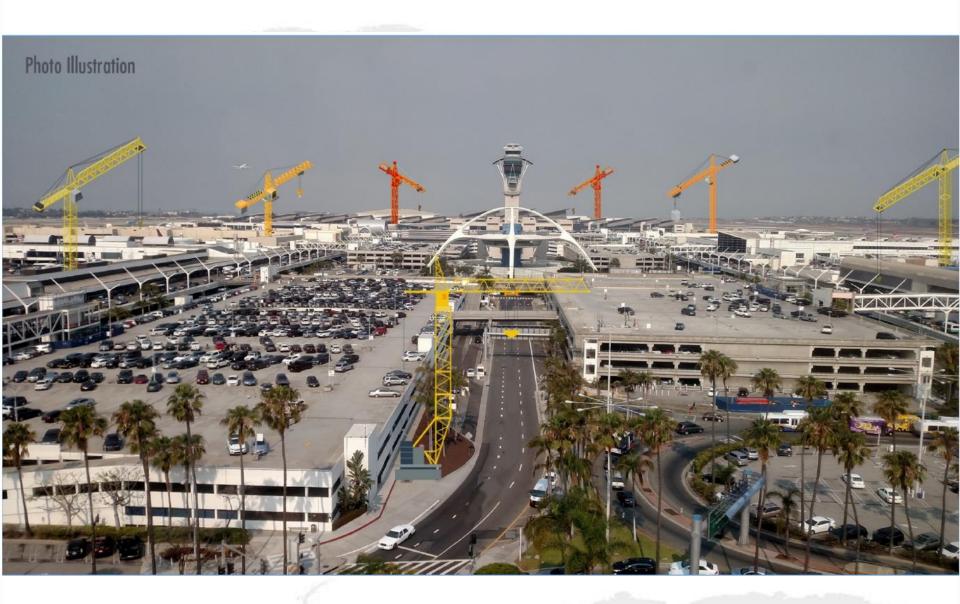
Major Upcoming Events:

- ✓ 2022 Super Bowl Inglewood
- ✓ 2026 FIFA World Cup Rose Bowl
- 2028 Summer Olympics





2019 Central Terminal Area Projects



Central Terminal Area Future Skyline

- LAX is the busiest origin and destination airport in the world
 - LAMP Program scheduled for completion in 2023
 - LAMP: <u>https://www.lawa.org/en/connectinglax</u>
 - LAWA Advisories: <u>https://www.lawa.org/en/connectinglax/construction-traffic-advisories</u>



Landside Access Modernization Program (LAMP)





Consolidated Rent-A-Car Center (CONRAC)





Airport Metro Connector Station



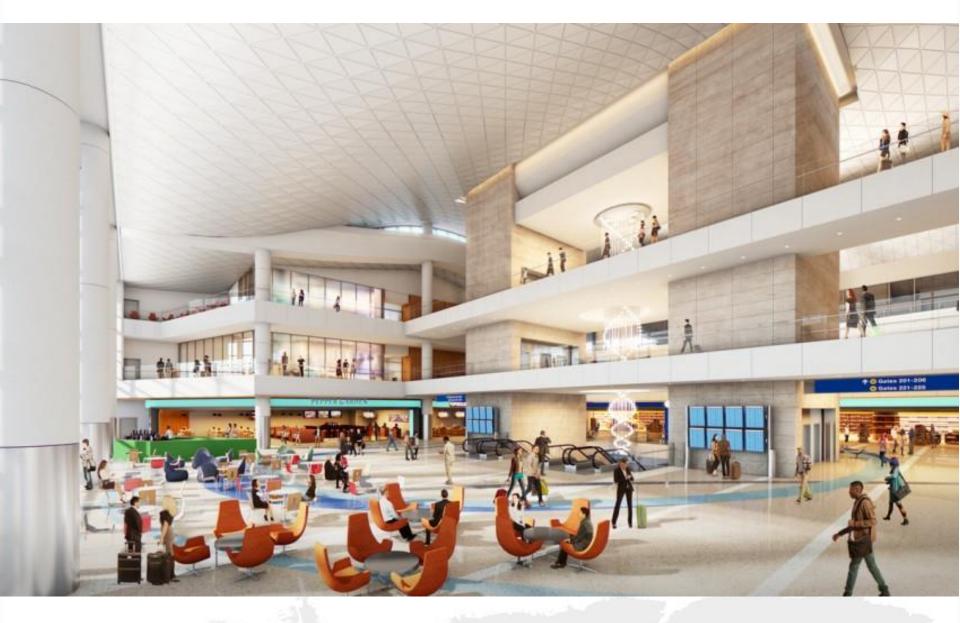
Intermodal Transportation Facility (ITF)



Automated People Mover System (APM)



Automated People Mover System (APM)

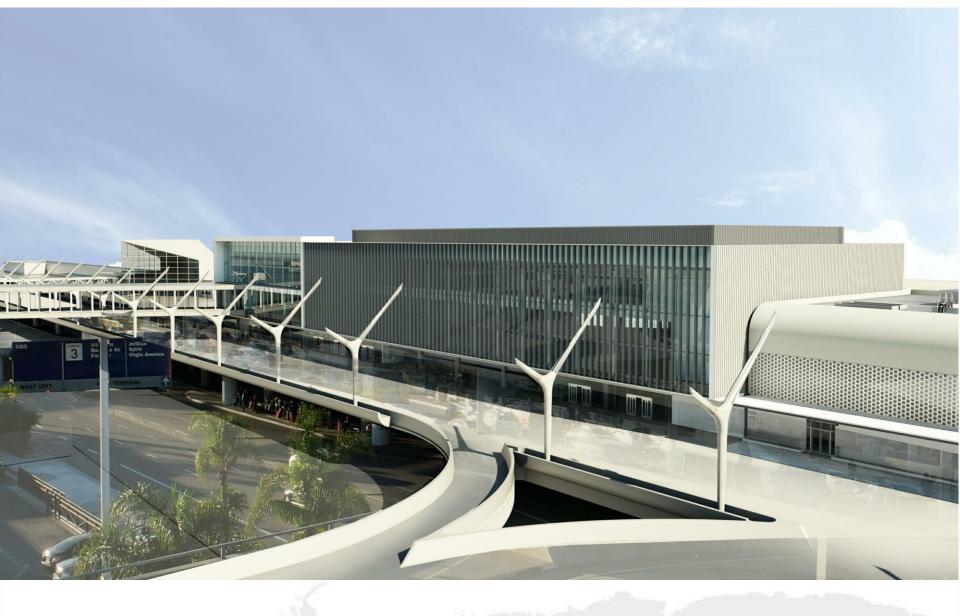


Midfield Satellite Concourse (2020)





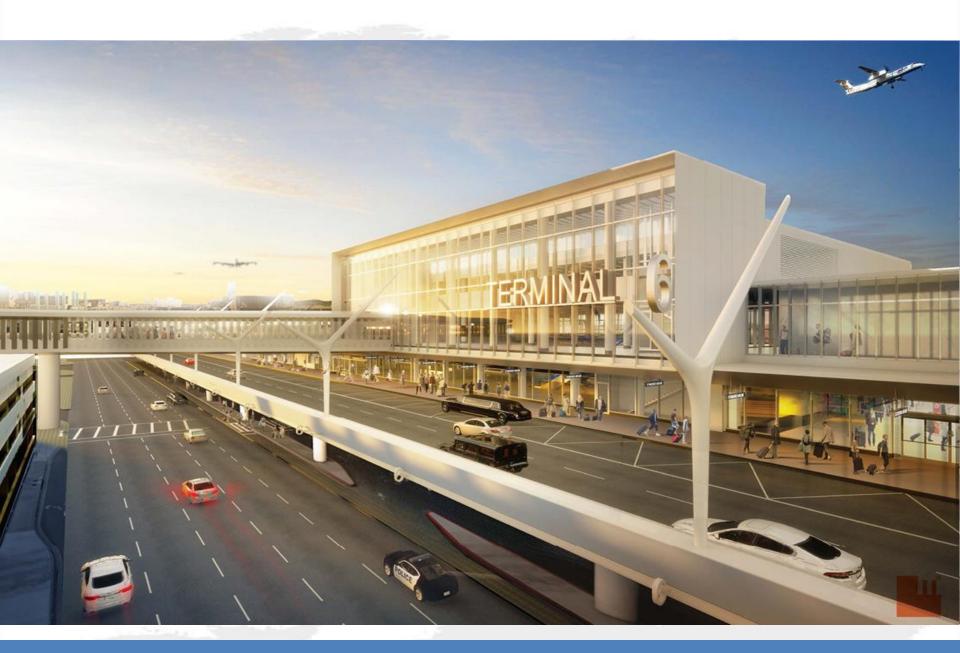
Midfield Satellite Concourse (2020)



Terminal 1.5 (2021)



Terminal 2/3 Delta Program (2023)



Terminal Cores (2022)

C.A.L.M.

Coordination **A**nd **L**ogistics **M**anagement

Minimizing construction-related impacts to passengers and tenants while maintaining a positive guest experience.



Program Management Function
 Program Controls Deliverables:

- Logistical Coordination Schedule all projects published monthly
- GIS Database "Live" CALM Geodatabase
- Schedule and Locational Information tracked from Planning through Design & Construction

CALM Deliverables

Los Angeles World Airports

LAX / VNY PLANNING & DEVELOPMENT GROUP

Const. Cost Planning Rep.

PDG Ren. Planning Start

LOGISTICAL COORDINATION SCHEDULE (INTERNAL DRAFT: FOR PLANNING PURPOSES ONLY)

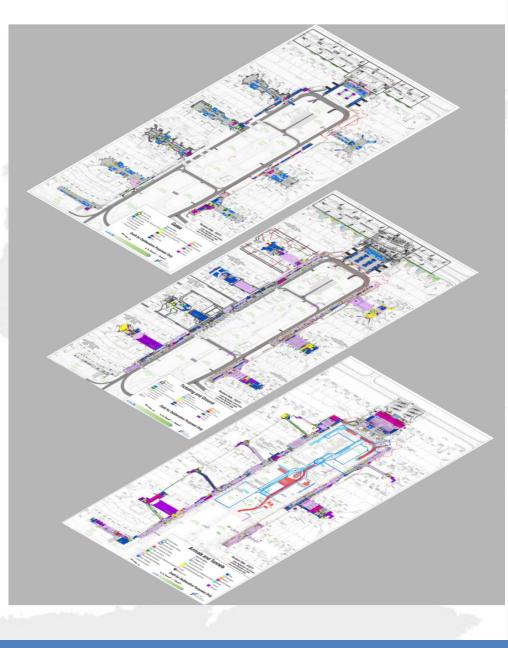


2021

Activity Name	Input Date	Project Type	Total Proj. Cost	Const. Cost	Planning Rep.	PDG Rep.	Planning Start	Design Start	Const. Start	Const. Finish			019			2020	-		2021
											Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Total	14-Jul-17		\$13,024,937,631	\$11,272,486,048			01-Jan-11	01-Aug-12	01-Apr-15	30-Jul-27									
AIRSIDE ELEMENT	11-Mar-19		\$489,078,107	\$448,419,975			31-Aug-13	01-May-15	01-Sep-16	31-May-21									
LAWA CIP PROJECTS		LAWA													ļ				ļ
	13-May-19		\$153,629,135	\$114,623,644	D. Ly		01-Jun-15	24-Jun-16	01-Jan-20	31 May-21									
RUNWAY 7R-25L AND TAXIWAY H REHABILITATION [C-LAX-13168] - MOB 6/1/20 - DESIGN REVIEW	13-May-19	LAWA	\$60,356,141	\$44,765,344	D. Ly	S. Flynn	31-Aug-15	01-Jul-17	01-Sep-20	31 May-21			;	:			_		
TAXIWAY P (TAXIWAY C14) PROJECT [C-LAX-13007] - MOB 10/1/19 - DESIGN REVIEW	13-May-19	LAWA	\$93,272,994	\$69,858,300	D. Ly	G. Lazarevic	01-Jun-15	24-Jun-16	01-Jan-20	15-0d-20					<u> </u>			P	
TENANT ALTERATIONS & CARGO PROJECTS	19-Mar-19		\$333,562,128	\$332,298,035			31-Aug-13	01-May-15	01-Sep-16	15-Feb-21									
AA - CARGO - OFFICE TRAILER [T-LAX-13083] - NTP REVIEW	15-May-19	AMERICAN	\$15,000	\$15,000	R. Parg	M. Henderson		21-Feb-18	16-Mar-19	15-Jul-19			P						
AA - PAD R-343 - GSE CHARGER [T-LAX-12917] - ON HOLD	14-May-19	AMERICAN	\$15,000	\$0	R. Pang	M. Brown		28-Jun-17					ļ		!		!	ļ	
AA - VERIZON WIRELESS INSTALLATIONS [T-LAX-12760] - ON HOLD	14-May-19	AMERICAN	\$100,000	\$0		H. Harmon													
AIR NEW ZEALAND - LINE MAINTENANCE GARAGE FIRE CODE CORRECTION ITEM [T-LAX-12969]	15-May-19	AIRNZ	\$11,000	\$11,000	D. McCombs	D. McCombs		01-Jul-17	18-Jul-18	18-May-19			<u> </u>						
AMB - AFCO CARGO - LAX - DHL CASTER DECK UPGRADE [T-LAX-13246]	14-May-19	AMB	\$560,000	\$560,000		H. Harmon		01-Sep-18	20-May-19	30-Jun-19			•				1		
ATLANTIC AVIATION - UTILITIES TRAILER [T-LAX-12935] - ON HOLD	14-May-19	ATLANTIC	\$25,000	\$0	R. Pang	T.Wong											-		
CHEVRON PIPELINE FLANGE EXCAVATION AND REPAIR 14-LAX-004 [T-LAX-12825] - ON HOLD	14-May-19	CHEVRON	\$75,000	\$0	R. Pang	M. Brown		04-Feb-16											
DELTA - LAX CARGO BUILDING - VARIOUS RENOVATIONS 1ST & 2ND FLOOR [T-LAX-13215] - NTP REVIEW	14-May-19	DELTA	\$308,000	\$308,000		A. Thomas			29-Jan-19	07-Jun-19			İ	İ	1		Í	Í	1
OVERALL SUMMARY	14-May-19	DELTA	\$300,000	\$300,000		A. Thomas			29-Jan-19	07-Jun-19									
DELTA - LAX CARGO BUILDING - 1ST FLOOR DEMOLITION [T-LAX-13216-1] - Complete	14 May 19	DELTA	\$8,000	\$8,000		A. Thomas			29-Jan-19	25-Feb-19	- -		1				T		
DELTA - NEW WEST APRON MAINTENANCE AREA (WAMA) HANGER [T-LAX-12750]	12-Apr-19	DELTA	\$24,215,893	\$23,500,000	D. Arredando	D. Patel	31-Aug-13	01-May-15	22-May-17	20-Sep-19			1	1	1				1
OVERALL SUMMARY	13-May-19	DELTA	\$24,215,893	\$23,500,000	D. Arredando	D. Patel	31-Aug-13	01-May-15	22-May-17	20-Sep-19			;						
DELTA - WAMA HANGER - GROUND SUPPORT EQUIPMENT, GSE BUILDING [T-LAX-12760-1] - CONCEPT REVIEW	12-Apr-19	DELTA	\$0	\$0	D. Arredando	D. Patel							1						
FAA - CCTV CAMERA SITE - ASDE-X RU-17 RELOCATION [T-LAX-13084]	15-May-19	FAA	\$10,000	\$10,000	R. Parg	M. Henderson			29-Oct-18	03-Jun-19			J	.l	L	L	Ì.	İ.	
FAA - SURFACE WEATHER SYSTEM INSTALL [T-LAX-13005]	14-May-19	FAA	\$20,000	\$20,000	R. Parg	M. Brown		27-Mar-16	17-Jan-18	28-Jun-19			-						
FEDEX - CARGO - ENERGY SERVER INSTALL [T-LAX-12844] - ON HOLD	14-May-19	FEDEX	\$760,000	\$0	J. Orrestad	T.Wong		10-Apr-17	30-Sep-17										
FEDEX - LAX EMERGENCY ALARM INSTALLATION [T-LAX-12908] - ON HOLD	14-May-19	FEDEX	\$270,000	\$0	R. Parg	T.Wong		10-Apr-17					1	1			i	i	1
FEDEX - LAX SECURITY SCREENING EXPANSION [T-LAX-12979]	14-May-19	FEDEX	\$500,000	\$500,000	R. Parg	T.Wong		16-Od-17	24-Jan-19	22-May-19		~			1		-		
FEDEX - LAXR - GATE 1 AND 3 MODIFICATIONS [T-LAX-12959] - DESIGN REVIEW	14-May-19	FEDEX	\$485,000	\$485,000		T.Wong		05-Jul-17											
GATE GOURMET - LAX - FLIGHT KITCHEEN FENCE RELOCATION [T-LAX-13191] - ON HOLD	14-May-19	GATEGOURMET	\$50,000	\$0		T.Wong		01-Sep-18	13-May-19	31-May-19			1	í	T		Ī	i	
GATE GOURMET - MECHANICAL UNIT REPLACEMENT [T-LAX-12573]	14-May-19	GATEGOURMET	\$255,000	\$255,000		T. Wong		10-Feb-16	01-Sep-16	20-May-19									
TBITEC - TS/GATE 59 - CHAIR LIFT INSTALL [T-LAX-13259] - NTP ISSUED 3/11/19	14-May-19	JETBLUE	\$25,000	\$25,000		H. Harmon			29-Jun-19	30-Jun-19			•						
KOREAN AIR CARGO - 6101 W. IMPERIAL HWY- TENANT IMPROVEMENT [T-LAX-12078]	14-May-19	KOREANAIR	\$6,262,000	\$6,262,000	J. Mo	T. Wong		07-Jun-17	22-Oct-17	29-May-19			i	i	1		i	i	1
KOREAN AIR CARGO - TERMINAL - ROLL UP DOORS [T-LAX-12078-6]	14-May-19	KOREANAIR	\$124,000	\$124,000	J. Mo	T.Wong			21-Apr-18	29-May-19		\rightarrow							
KOREAN AIR CARGO - LAX ULD \$13 TEM R EFU RBISHMENT & ETV REPLACEMENT [T-LAX-12078-7]	14 May 19	KOREANAIR	\$4,200,000	\$4,200,000	J. Mo	T.Wong		07-Jun-17	01-Mar-18	29-May-19					1				
KOREAN AIR CARGO - HVAC REPLACEMENT [T-LAX-12078-8]	14-May-19	KOREANAIR	\$59,000	\$59,000	J. Mo	T.Wong			03-May-18	29-May-19									
KOREAN AIR CARGO - TERMINAL ROOF REPLACEMENT [T-LAX-12078-2] - Complete	14-May-19	KOREANAIR	\$1,000,000	\$1,000,000	J. Mo	T.Wong			24-Sep-18	30-Jan-19			ļ	ļ	!!!		ļ	ļ	
KOREAN AIR CARGO - TERMINAL - RESTROOM RENOVATION [T-LAX-12078-3] - Complete	14-May-19	KOREANAIR	\$220,000	\$220,000	J. Mo	T.Wong			26-Mar-18	26-Sep-18									
KOREAN AIR CARGO - TERMINAL - DEMO OF CONVEYOR EQUIPMENT [T-LAX-12078-4] - Complete	14-May-19	KOREANAIR	\$40,000	\$40,000	J. Mo	T.Wong			15-Feb-18	02-Apr-18			ļ	ļ	L				
KOREAN AIR CARGO - TERMINAL - LIGHTING REPLACEMENT (T-LAX-12078-8) - Complete KOREAN AIR CARGO - COOLER AND FREEZER REPLACEMENT (T-LAX-12078-8) - Complete	14-May-19	KOREANAIR	\$246,000	\$246,000	J. Mo	T. Wong			22-0d-17	16-Deo-17			1		!		!		
LAXFUEL - FUEL FACILITY - LAXFUEL 4 TANK INSTALLATION [T-LAX-12859]	14-May-19 14-May-19	KOREANAIR LAXFUEL	\$373,000 \$20,000,000	\$373,000 \$20,000,000	J. Mo R. Pang	T. Wong M. Brown		20-Jan-17	01-Apr-18 07-Mar-18	30-Oct-18 25-Sep-19			L	1	1				
LSG SKY CHEFS - LAX - DISH MACHINE REPLACEMENT IT-LAX-12000				\$20,000,000	N. Pang			20-08h-17				_		1					
LSG SKY CHEFS - LAX GARBAGE DIGESTER RELOCATION IT-LAX-128811	14-May-19	SKYCHEFS	\$50,000 \$45,000			T.Wong			21-May-19	29-Jun-19			Ĩ		!		!		
LSG SKY CHEFS - LAX GARDAGE DIGESTER RELOCATION [1-LAX-12001]	14-May-19	SKYCHEFS	\$45,000	\$45,000 \$80.000		T.Wong		19-May-17	01-Od-17	29-May-19		<u> </u>			÷			···-	
	14-May-19		44-44-44		R. Parg	T.Wong		22-Feb-18	22-Oct-18	29-May-19									
NIPPON CARGO AIRLINES - DRIVER WAITING AREA [T-LAX-12912] - ON HOLD	15-May-19	NIPPON CARGO	\$20,000	\$0	R. Pang	D. McCombs		01-Jun-17					1				1	ļ	
NIPPON CARGO AIRLINES - PALLET RACKS [T-LAX-12913] - ON HOLD	15-May-19	NIPPON CARGO	\$56,200	\$0	R. Parg	D. McCombs		01-Jun-17											
NIPPON CARGO AIRLINES - SUPERVISOR OFFICE [T-LAX-12911] - ON HOLD	15-May-19	NIPPON CARGO	\$20,000	\$0	R. Parg	D. McCombs		01-Jun-17				_							1
SWA - CARGO - INTERIOR BUILDOUT TECH SUPPORT SHOP/FACILITIES SHOP [T-LAX-13218] - DESIGN REVIEW	14-May-19	SOUTHWEST	\$2,500,000	\$2,500,000		J. Plunkett		03-Dec-18	01-Jun-19	15-Sep-19				.l	Ļ				
TORRANCE PIPELINE - LAX - PIPELINE VALVE VAULT REMOVAL - PHASE 2 [T-LAX-13102-1] - ON HOLD	14-May-19	TPC	\$75,000	\$0		M. Brown		01-Sep-18											
UNITED AIRLINES - EAST ACMX HANGER REDEVELOPMENT [T-LAX-12951] - NTP REVIEW	14-May-19	UAL	\$268,125,000	\$268,125,000	R. Parg	A. Thomas		01-Mar-17	22-Feb-19	15-Feb-21									_
OVERALL SUMMARY UA- EAST ACMX HANGAR REDEVELOPMENT - DEMOLITION & UTILITY RELOCATION (T-LAX-12861-1) - NTP REVIEW	14-May-19	UAL	\$268,125,000	\$268,125,000	R. Parg	A Thomas		01-Mar-17	22-Feb-19	15-Feb-21		_	:						
UA - EAST ACMX HANGAR REDEVELOPMENT - DEMOLITION & UTILITY RELOCATION [T-LAX-12861-1] - NTP REVIEW UA - EAST ACMX HANGAR REDEVELOPMENT - DWP SERVICE ENTRANCE [T-LAX-12861-2] - NTP REVIEW	14-May-19	UAL	\$0 \$0	\$0	R. Pang	A Thomas			10-Jun-19	10-Dec-19			5						
UA - EAST ACMX HANGAR REDEVELOPMENT - DWP SERVICE EN TRANCE [T-LAX-12961-2] - NTP REVIEW UA - EAST ACMX HANGAR REDEVELOPMENT - HANGER & GSE STRUCTURE [T-LAX-12961-3] - DESIGN REVIEW	14-May-19 14-May-19	UAL	\$0 \$0	\$0 \$0	R. Pang R. Pang	A. Thomas A. Thomas			10-Jun-19 26-Jul-19	10-Jul-19 15-Feb-21	+		T		<u>+</u>		<u></u>	<u></u>	
UA- EAST ACMX HANGAR REDEVELOPMENT - HANGER & GSE STRUCTURE [1-DA-12851-3] - DESIGN REVIEW	14-May-19 14-May-19	UAL	30 50	50	R. Pang	A. Thomas A. Thomas			15-Sep-19	15-Feb-21									<u> </u>
UA- EAST ACMX HANGAR REDEVELOPMENT - SITE COMPLETION [T-LAX-12861-5] - DESIGN REVIEW	14-May-19	UAL	\$0	\$0	R. Pang	A Thomas			15-Sep-19	15-Sep-20							1	1	_
UNITED AIRLINES - CARGO - ACMX TRAINING TENANT IMPROVEMENT [T-LAX-13125]	14-May-19	UAL	\$600,000	\$600,000		A Thomas		01-Feb-18	04-Feb-19	31-May-19									
UNITED AIRLINES - 6000 AVION DR - CONSTRUCTION TRAILER RESTROOM [T-LAX-13197]	14-May-19	UAL	\$102,035	\$1,020,035		A Thomas		23-Aug-18	05-Mar-19	31-Mey-19			i	i	i 1		i	i	1
UNITED CARGO - PROVISIONING & CABIN SERVICES [T-LAX-13111]	14-May-19	UAL	\$7,500,000	\$7,500,000	R. Pang	A Thomas		01-Mar-18	04-Feb-19	02-Aug-19				·	+		+-		
UNITED AIRLINES - CARGO BUILDING REPAINT (T-LAX-13147) - CDG MANAGED 7/17/18	19-Mar-19	UAL	\$250.000	\$250,000	R. Parg				01-Jul-19	30-Oct-19				<u> </u>					
UNITED AIRLINES - TAXI LINE C-6 - PAVEMENT MARKING ADD RON IT-LAX-133111 - NTP REVIEW	14-May-19	UAL	\$10,000	\$10,000	R. Parg	A Thomas		01-Dec-18	01-Jun-19	17-Jun-19		-		T	1 İ	i i	i	i	1
UNITED AIRLINES - T7 - T8 PAVEMENT MARKING RESTRIPE GATES [T-LAX-13310] - NTP REVIEW	14-May-19 14-May-19	UAL	\$10,000	\$10,000	R. Pang	A. Thomas A. Thomas		01-Dec-18	01-Jun-19	17-Jun-19 17-Jun-19		_							
UNITED AIRLINES - MAINTENANCE HANGAR - EV CHARGER INSTALL [T-LAX-13314] - CONCEPT REVIEW	14-May-19	UAL	\$100,000	\$100,000	R. Pang	A. Thomas A. Thomas		Cruevia	o rourns	10 YOF 13			1	1					
STATES STRATES TRAINED AND THE REPORT OF STRATES TO AN UNDER TREATING BY CONCEPTINE VIEW	IN WAY 19	UAL	\$30,000	\$30,000	n. Pang	A. Inomas							i	i	i		i	i	
SCHEDULE DATA DATE: 15-May-19 RUN DATE: 15-May-19 17:31 F	age 1 of 4	1			4	Place	ning (CPPE)				onstructio	(PDG)						OR	
SCHEDOLE DATA DATE. IS-IMBY-19 ROR DATE. IS-IMBY-19 17.31 P	age 1 of 1				×						NO ISU UCUC	n (FDG)						ELIBERAT	TIME
1						Desig	gn/Bid/Cons	truction Aw	ard (PDG)										IIVE

Logistical Coordination Schedule

- ArcGIS Geodatabase
 Identify Locations for All Projects
- ✓ Interactive Map Application

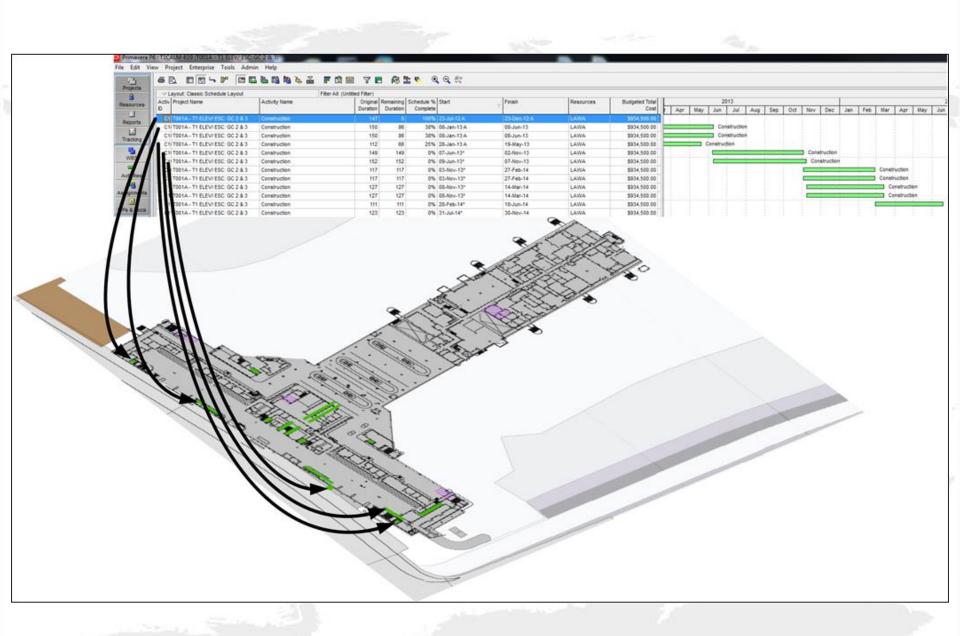




Live Data Efficient Packaging Captures Active and Future Work Areas Reports Scheduling Reveals Time and Space Conflict Stores Project Details Provides Mapping for Logistical Coordination

- Project Locations for All Available Projects in the Master Schedule
 Data Stored in ArcGIS Geodatabase
 - HTML 5 Language and SharePoint 2018
 - Information Displayed through Interactive Map Application on LAWA SharePoint Website – Access to Internal Airport Employees Only
- Updated Daily
 - Project Information Captured Includes
 - Phasing and Site Logistics Plans
 - Construction Start and End Dates
 - Planning and Development Project Managers
 - Project Status (Planning, In Design, In Construction, Complete)
 - Contractor Information
 - Square Footage
- Planning Tool (Examples Include Element Maps, Roadway Coordination, Laydown Areas)

CALM GIS Application



Systems Integration (P6 to ArcGIS)

CALM Site CALM Site

Welcome to LAWA PDG CALM SharePoint

The CALM (Coordination and Logistics Management) Team's mission statement is to minimize construction-related impacts to our customers by utilizing CALM as a central point of communication and collaboration.

This SharePoint site will enable LAWA staff to access all CALM deliverables. You will have the ability to customize Construction Projects by plotting selected points of interest using our interactive map. Also, you will have the ability to customize Construction Projects by plotting selected points of interest using our interactive map. Also, you will have the ability to customize your terminal or specific project areas and filter construction projects based upon a specified time frame. You may also download all CALM deliverables in pdf format including Maps (CTA, Airside/Landside, Elevator/Escalators and Traffic Impacts), Ma Bulletins.

CALM Controls

Logistical Coordination Schedule	Logistical Coordination Schedule
Concessions Schedule	Concessions Schedule
CALM Histogram	Histogram showing current and future construction activities
CALM Dashboard	Yearly Lookahead of Project Counts and Costs

Terminal Maps

Arrivals and Tunnels	Map showing construction activities in the Terminal Element on the Arrivals level
Ticketing and Apron	Map showing construction activities in the Terminal Element on the Ticketing/Departures/Apron level
Departures and Gates	Map showing construction activities in the Terminal Element on the Gates/Concourse level
Elevators/Escalators	Map showing installation and maintenance of all elevators and escalators
Monthly Coordination TBIT Map	Map showing 4 week lookahead project coordination at Tom Bradley International Terminal (TBIT)
Terminals Maps - 6 Month Lookahead	Maps showing major terminal construction in the next 6 months

Campuswide Projects & Laydown Logistics

Airside	Map showing construction activities for the Airside Element
Landside	Map showing construction activities for the Landside Element
Haul Route Map	Map showing LAWA approved construction haul routes
Integrated Program Maps	Map showing 2019-2024 Integrated Program Lookahead
Logistics/Laydown	Map showing campus-wide Laydown and Logistics information



Presentations

Most recent documents:

- LAWA Executive CALM Briefing_4.1.19
- TBITEC_010719
- Contractor_Parking_DeltaFinal_030419
- Parking_P6 Pedestrian_BridgeDemo FINAL_031119
- CIP_Project_Laydown_Animation_Feb2019

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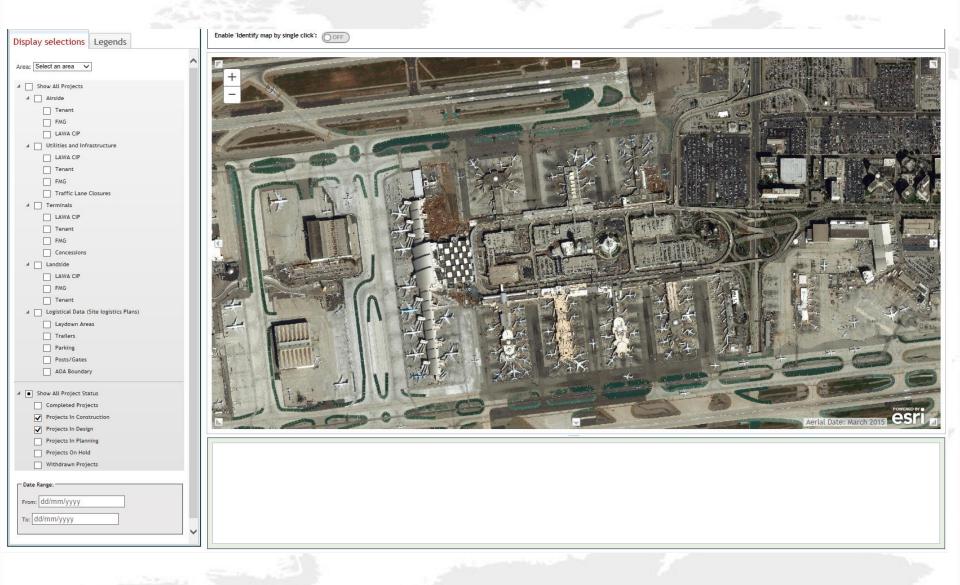
Presentations Archive

Phasing Plans

Most recent documents:

- Terminal_Monthly
- LAMP Program Phasing May2019
- T4.5 CORE ARRIVALS LEVEL BARRICADE PLANS 5.6.19
- T4.5 CORE DEPARTURES LEVEL BARRICADE PLAN 5.6.19
- T7 Phasing and Logistics Plans

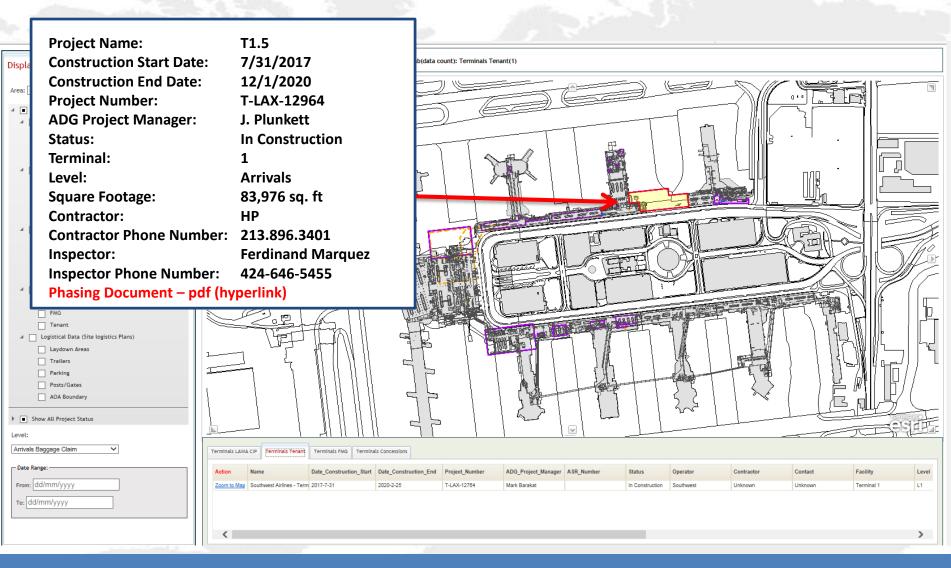
CALMShare Website



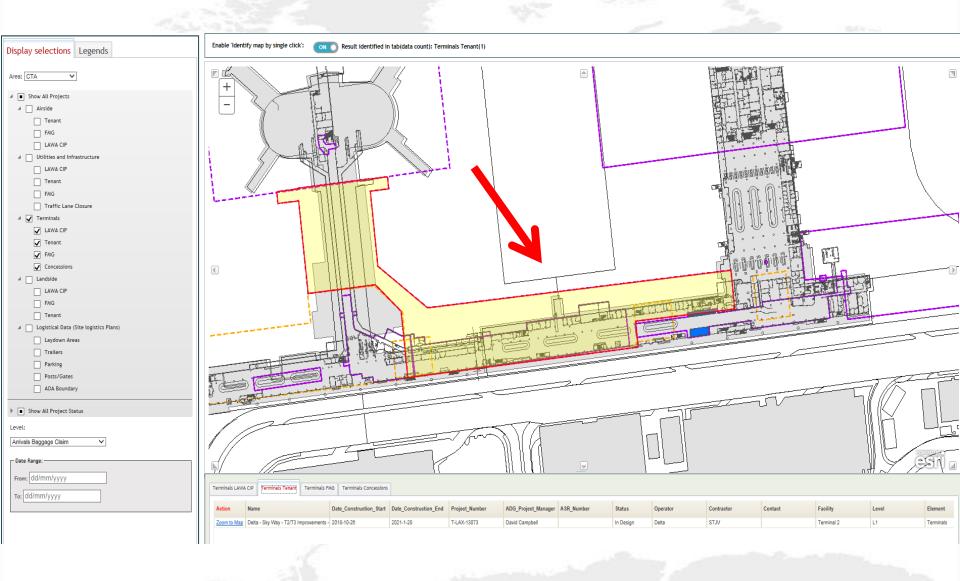
CALMShare Web Map

Enable 'Identify map by single click': Display selections Legends Area: Terminal 2 ~ Show All Projects Airside Tenant FMG LAWA CIP ▲ Utilities and Infrastructure LAWA CIP Tenant FMG Traffic Lane Closures 🔺 🖌 Terminals LAWA CIP Tenant FMG ٩ \triangleright Concessions A Landside LAWA CIP FMG T L Tenant Logistical Data (Site logistics Plans) Laydown Areas Trailers Parking Posts/Gates AOA Boundary Show All Project Status Completed Projects Projects In Construction 2011 S Projects In Design Projects In Planning Projects On Hold Terminals LAWA CIP Terminals Tenant Terminals FMG Terminals Concessions Withdrawn Projects ASR Number Name Construction Start Date Construction End Date Project Number Status Operator Contractor Contact Facility Level (Floor) Element Action Zoom to Map GSE 76 Electrical Infrastructu re Upgrades, Including e GSE 2015-4-30 Level: 2017-1-6 C-LAX-11687 LAWA Terminal 6 no asr In Construction Swinerton Builders Termi 🔨 Arrivals Baggage Claim ~ Zoom to Map Electrical Upgrades - D 2015-3-23 WP Vault 1585 2017-5-9 C-LAX-11654 In Construction LAWA Turner Construction Terminal 2 L1 Termi no asr - Date Range: · Zoom to Map T3 Restroom Enhancem 2015-5-19 Termi V 2016-6-22 C-LAX-11780 no asr In Design LAWA Unknown Terminal 3 L1 From: dd/mm/yyyy < >

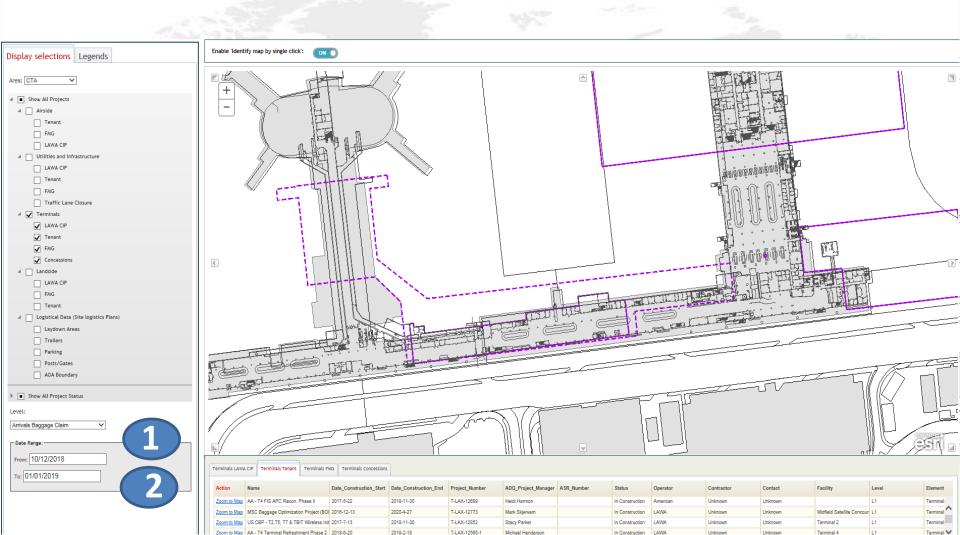
Identify Functionality



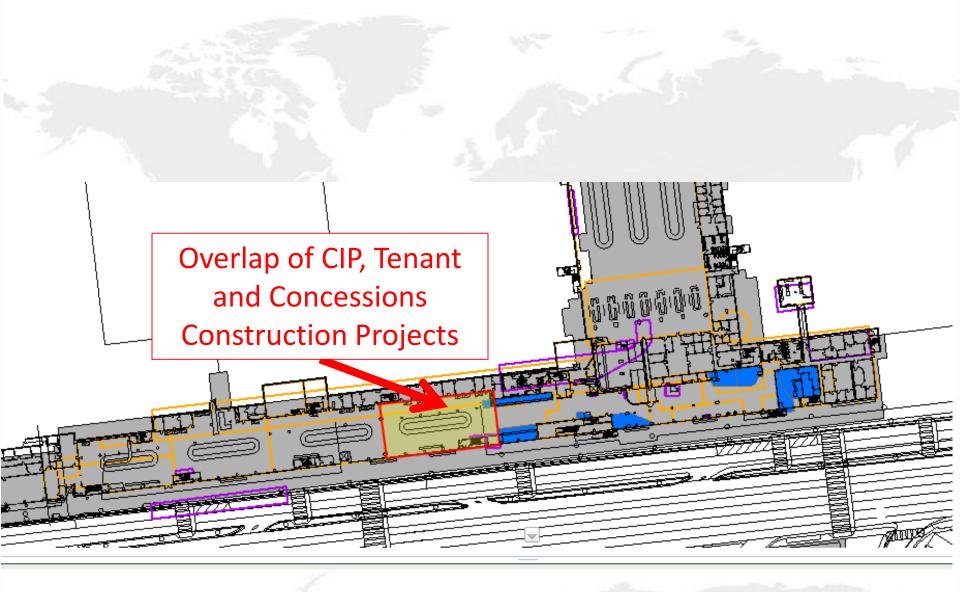
CALM GIS Application



Select Work Areas



Filtering Functionality



Space/Time Conflicts

Transition to ArcGIS Online Web Map



ArcGIS API for JavaScript

Benefits:

- Easier to configure/develop/ sustain
- Improve Customer Experience

esri

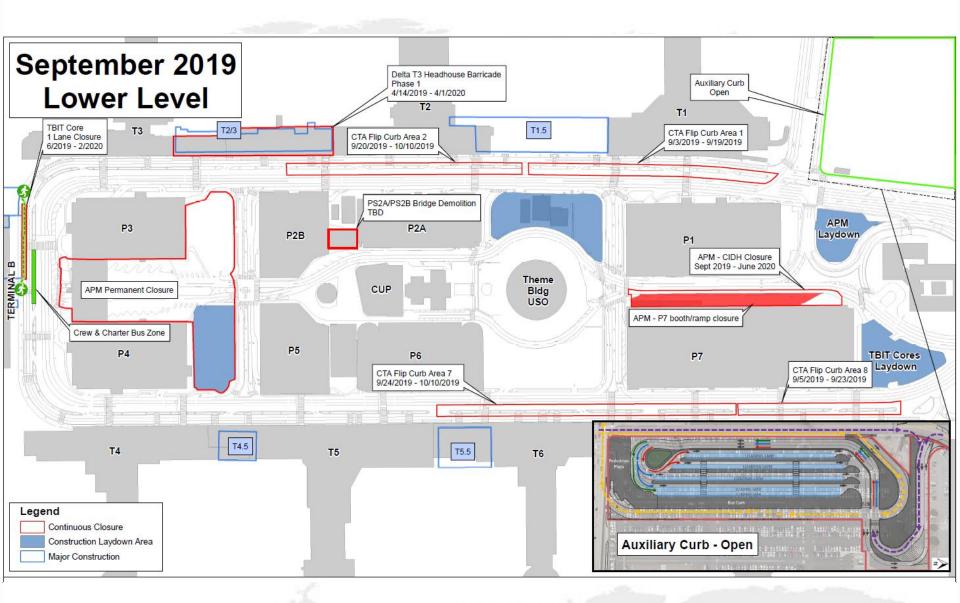
• More Technical Support



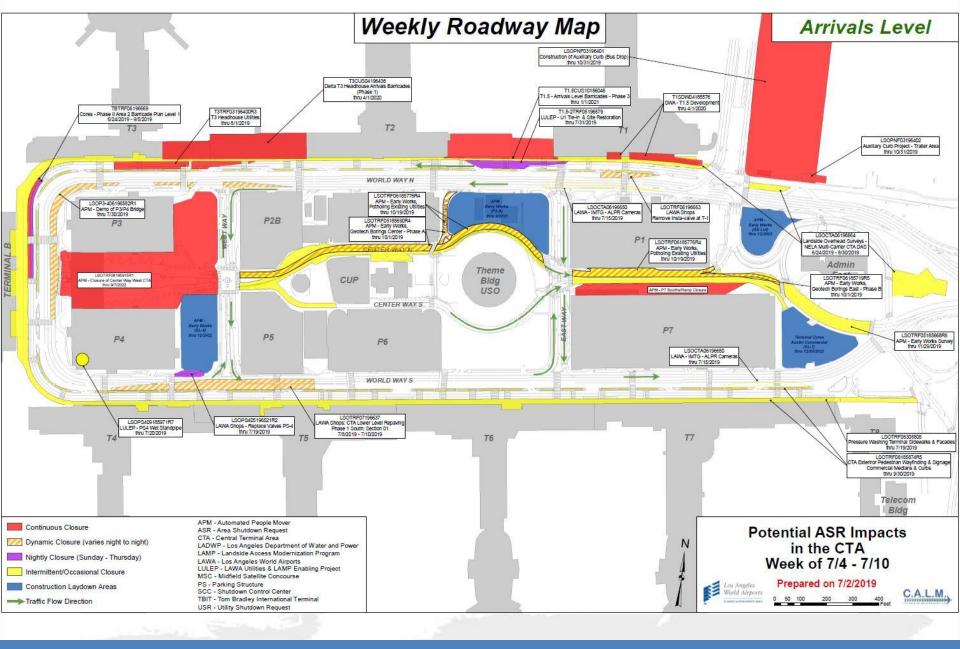
esri

Arc**GIS** Online

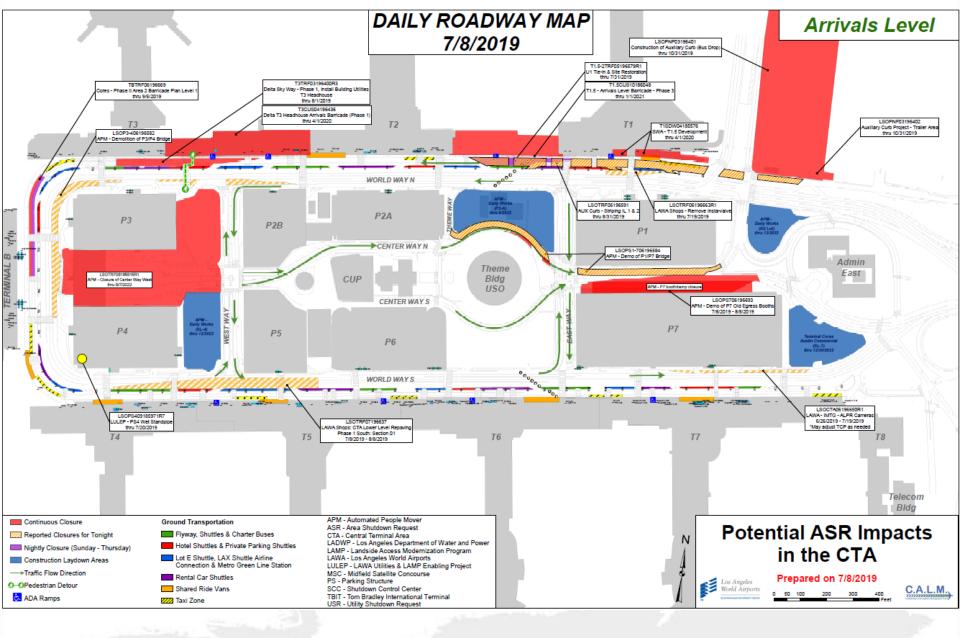
Future Transition



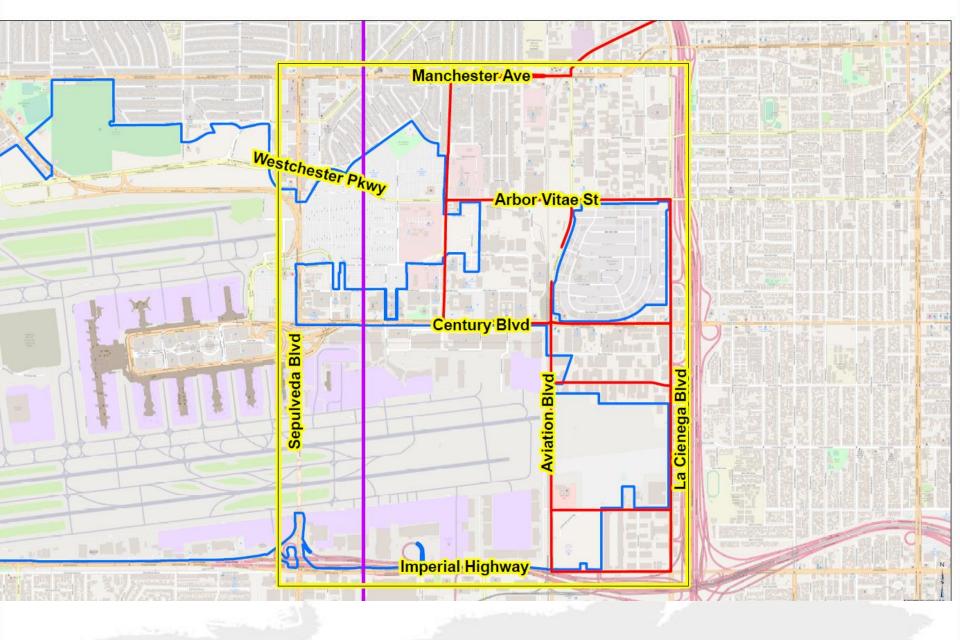
Roadway Planning Maps



Roadway Coordination Map



Daily Roadway Map

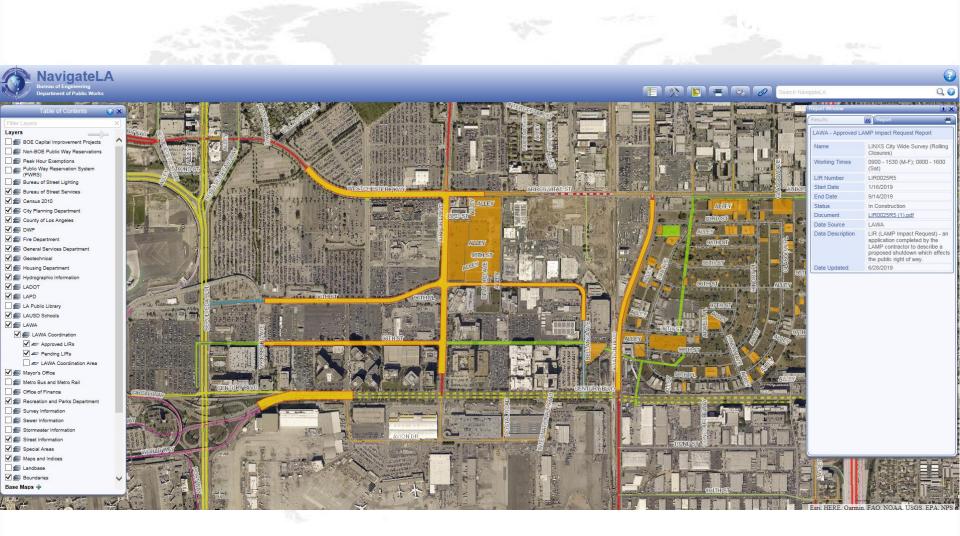


LAMP High Impact Area

- Navigate LA website hosted by City of Los Angeles Bureau of Engineering – Department of Public Works
- LAWA/LAMP Program included in the Public Way Reservation System (PWRS)
 - Purpose: All other agency permit applicants will need to coordinate with LAWA and the LAMP Program through 2023
- LAWA/LAMP has the following data information hosted on Navigate LA:
 - LAMP Impact Area
 - LAMP Impact Requests (LIRs) including:
 - Location of street closures
 - Status (Approved and Pending)
 - Start and End Dates of street closures
 - Project Name and Details

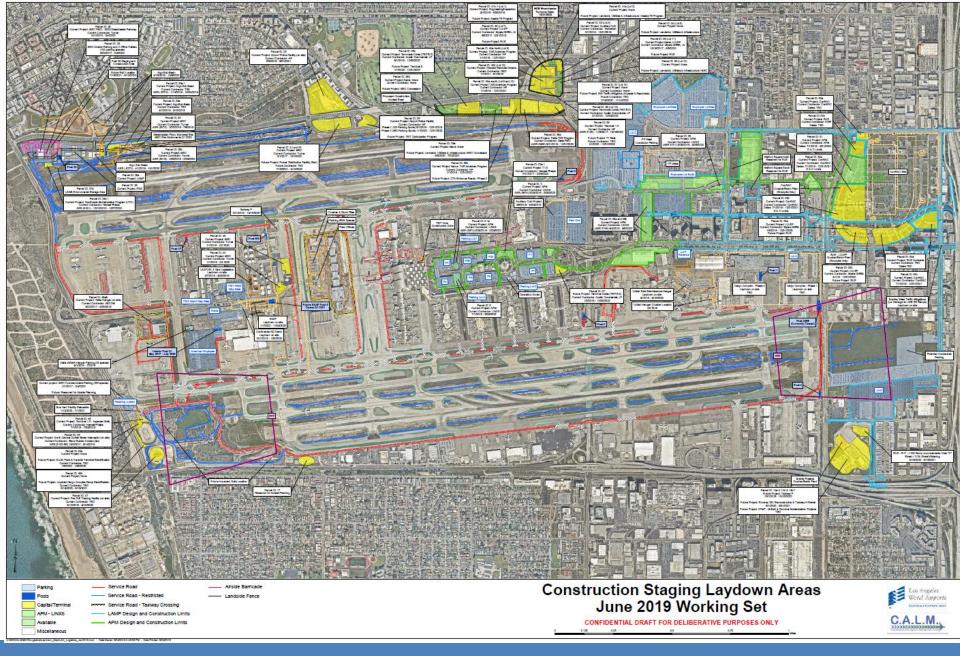


Navigate LA Integration

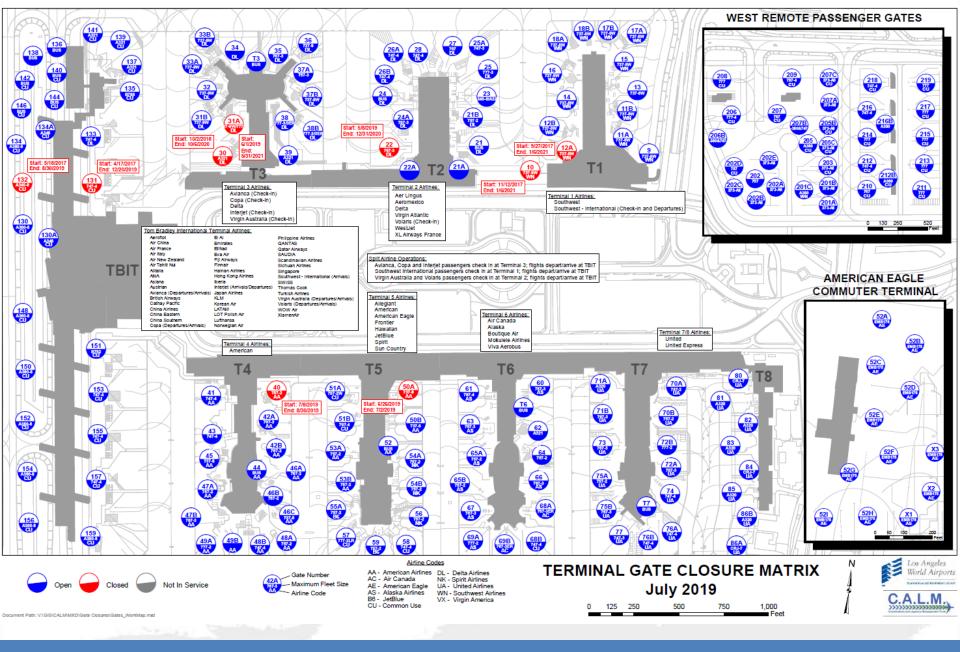


✓ Navigate LA: <u>https://navigatela.lacity.org/navigatela/</u>

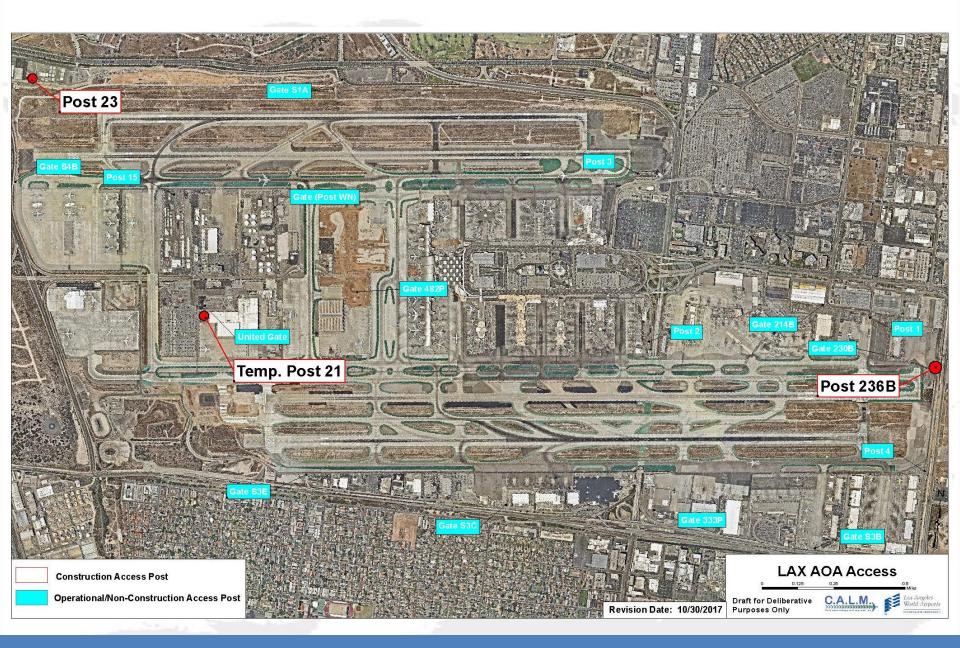
Navigate LA Integration



Construction Staging Laydown Map



Passenger Gate Closure Map



AOA Access Map

Initial Data Collection – 1 FTE – 6 months
 Data Development – Schedule/GIS – 2 FTE – 6 months
 GIS System Development – 2 FTE – 6 months
 Hardware/Software Costs = < \$100K
 Maintenance of Schedule/GIS system (ongoing) – 3 FTE

GIS Costs

- Confirm with Project Managers on a monthly basis project status
- Cross-reference with Program Controls on budget/cost reports
- Conduct Quarterly Data Scrubs with:
 - ✓ Planning
 - Project Managers
 - ✓ CALM Team
- Attend weekly project OAC and status meetings for latest information

GIS Data Verification Process

- Tool used for Terminal Coordination Meetings
 Full Control of Interface Changes Can Reflect Organizational Changes Quickly
- Resolve Conflicts "On Paper" Rather than in the "Field"
- Minimize Passenger Inconvenience
- More Efficient Packaging of Work
- More Information for Project Managers in Terminals Know the "Big Picture" Rather than Individual Projects

GIS Benefits

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Questions?

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