

San Diego Regional Operations Forum (ROF)/ Capability Maturity Model April 12-14, 2016 I-805 Corridor





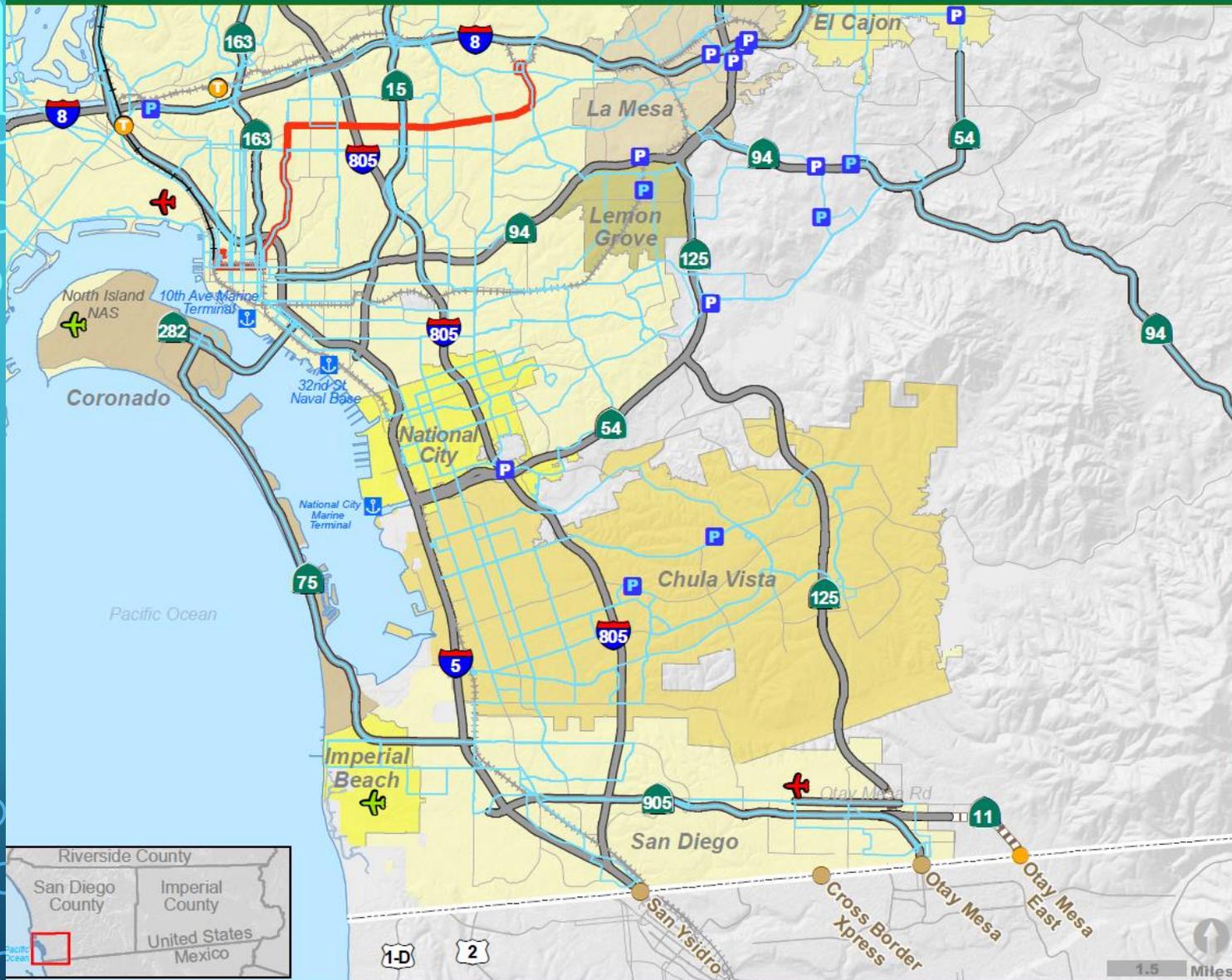
For updates on the I-805 South Express Lanes Project please visit

KeepSanDiegoMoving.com

or call the Construction Hotline at
(888) 941-5005

or email us at
I-805South@KeepSanDiegoMoving.com.

San Diego Border Region



- | | | | | | |
|--|--------------------|--|-----------------------------|--|-------------------|
| | Local Bus | | State Owned Park-N-Ride | | Cargo Airports |
| | Rapid Bus | | Non-State Owned Park-N-Ride | | Military Airports |
| | Commuter Rail | | Transit Center | | Cities |
| | Light Rail/Trolley | | Port of Entry | | |
| | Freeway/Highway | | Port of Entry (Future) | | |
| | Planned | | | | |

gis
District 11
Mar 30, 2016

This map contains geographic information provided and/or maintained by Caltrans District 11 GIS, SanGIS, Open Street Map, California Protected Areas Database.

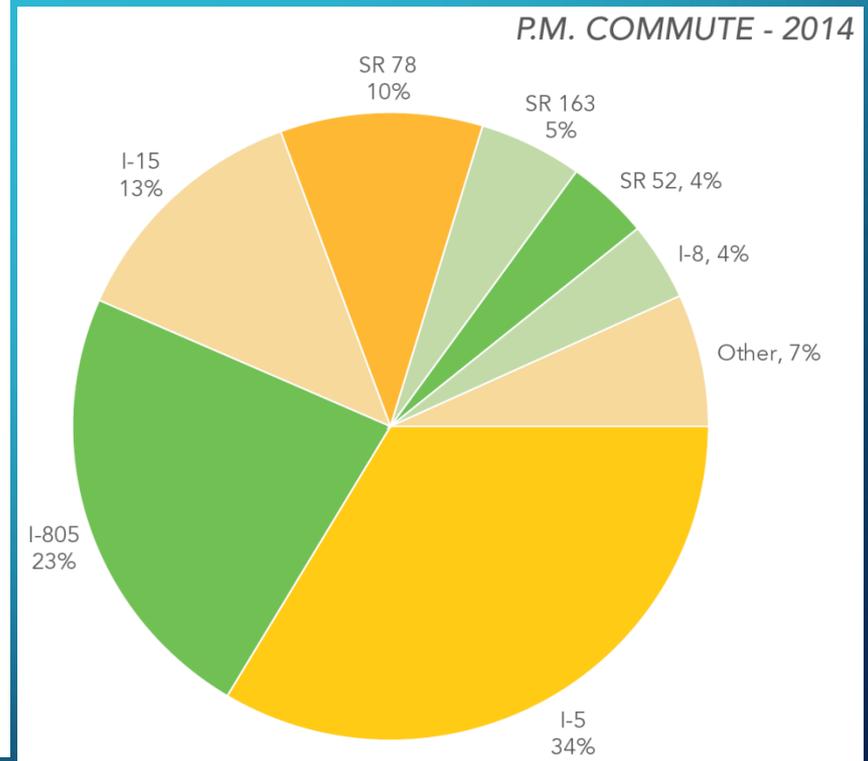
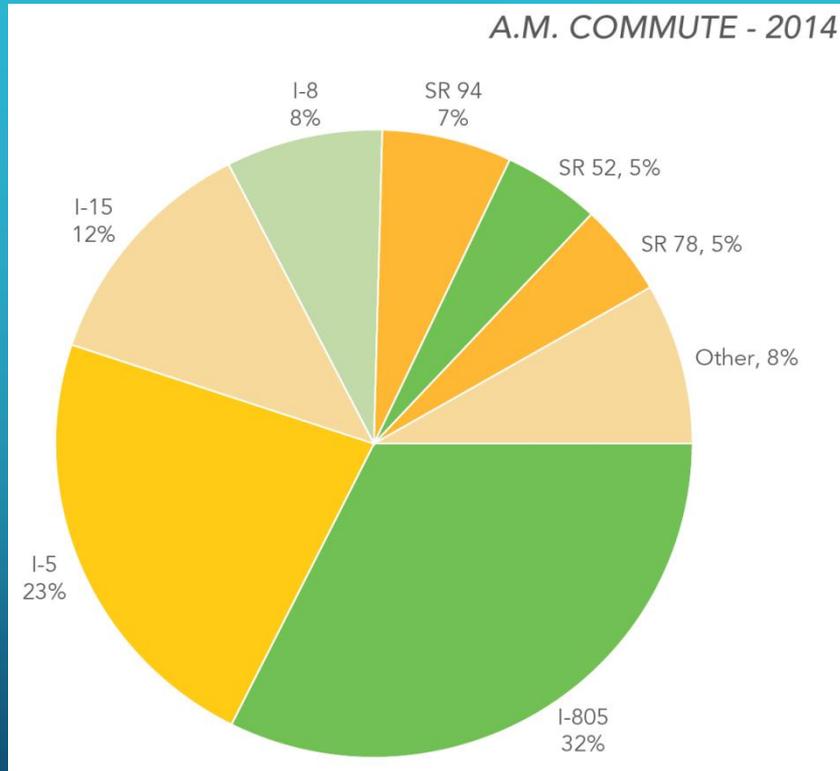


KEY I-805 CORRIDOR ACTIVITIES

- I-805 Corridor Performance - SOC
- South Bay Rapid Transit
- Buses on Shoulders
- 805 South Corridor Active
Transportation Demand Management
(ATDM) Project

HOW IS THE SYSTEM WORKING

(Fig. 2.3) DELAY BY FREEWAY DURING COMMUTE PERIODS



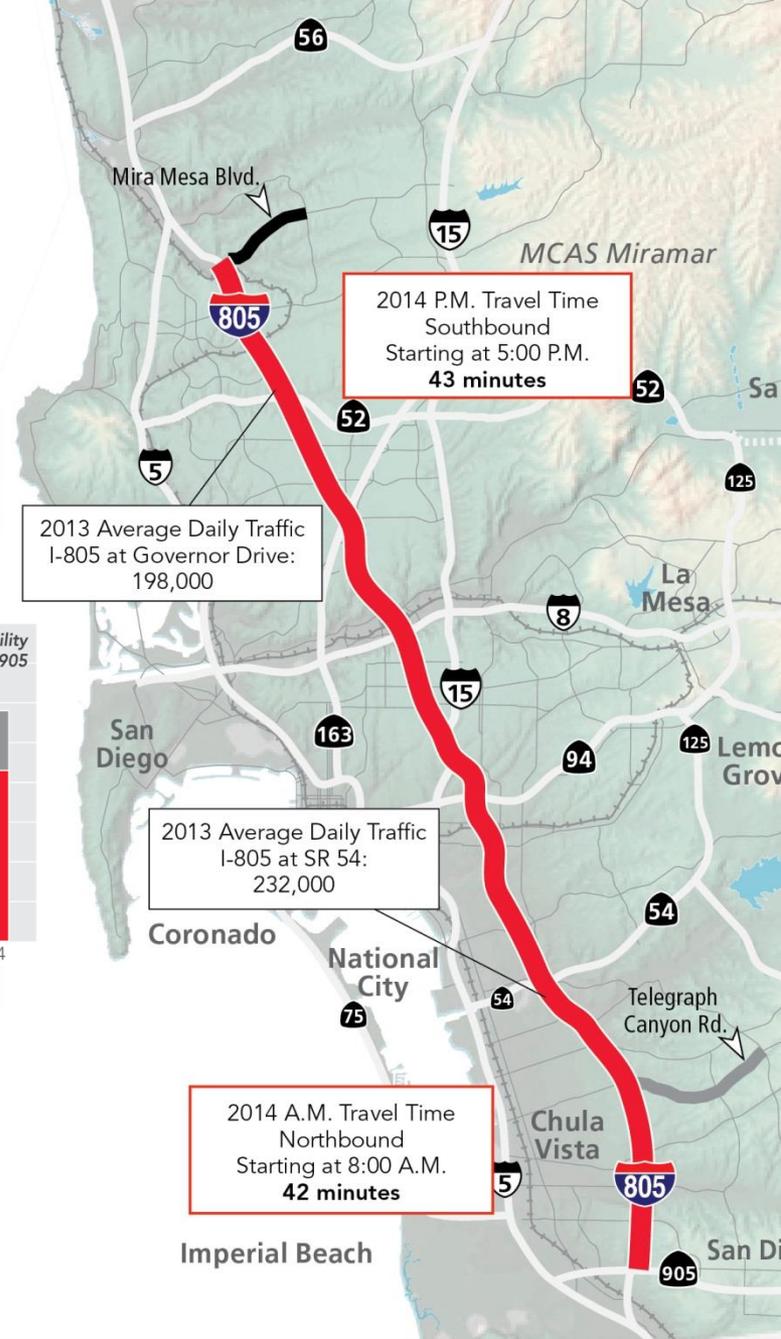
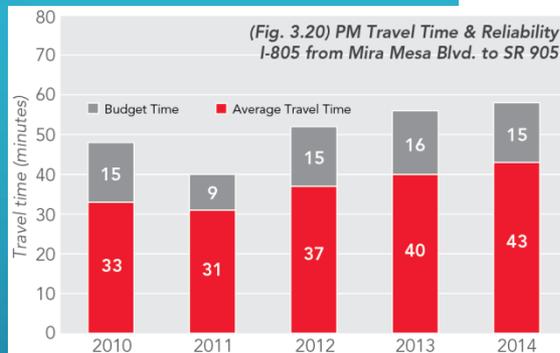
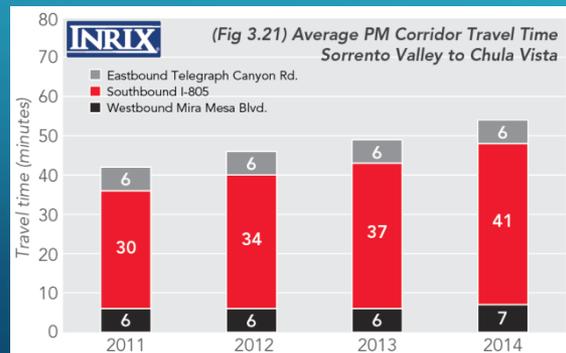
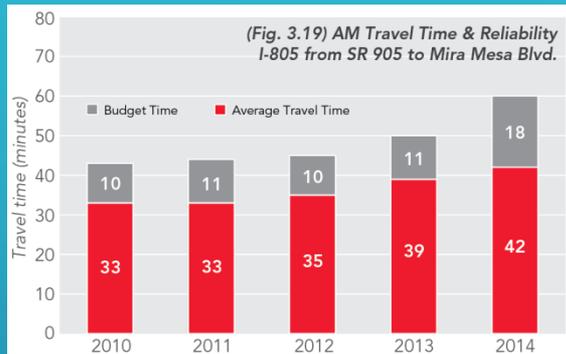
HOW IS THE SYSTEM WORKING

(Fig 2.4) RAIL ROUTES BY RIDERSHIP

2014 Rank	2013 Rank	Route	Route Description	Transit Mode	Avg. Daily Passengers
1	1	Blue Line Trolley	San Ysidro to America Plaza via Chula Vista / National City	Light Rail	48,642
2	2	Green Line Trolley	Santee to Downtown SD / 12th & Imperial via La Mesa / Mission Valley	Light Rail	39,273
3	3	Orange Line Trolley	El Cajon to Downtown SD / America Plaza via Southeastern Communities	Light Rail	32,925
4	4	SPRINTER	Oceanside to Escondido via Vista / San Marcos	Light Rail	10,422
5	5	COASTER	Oceanside to Downtown San Diego	Commuter Rail	5,562

MY CORRIDOR COMMU

I-805 Commute Corridor



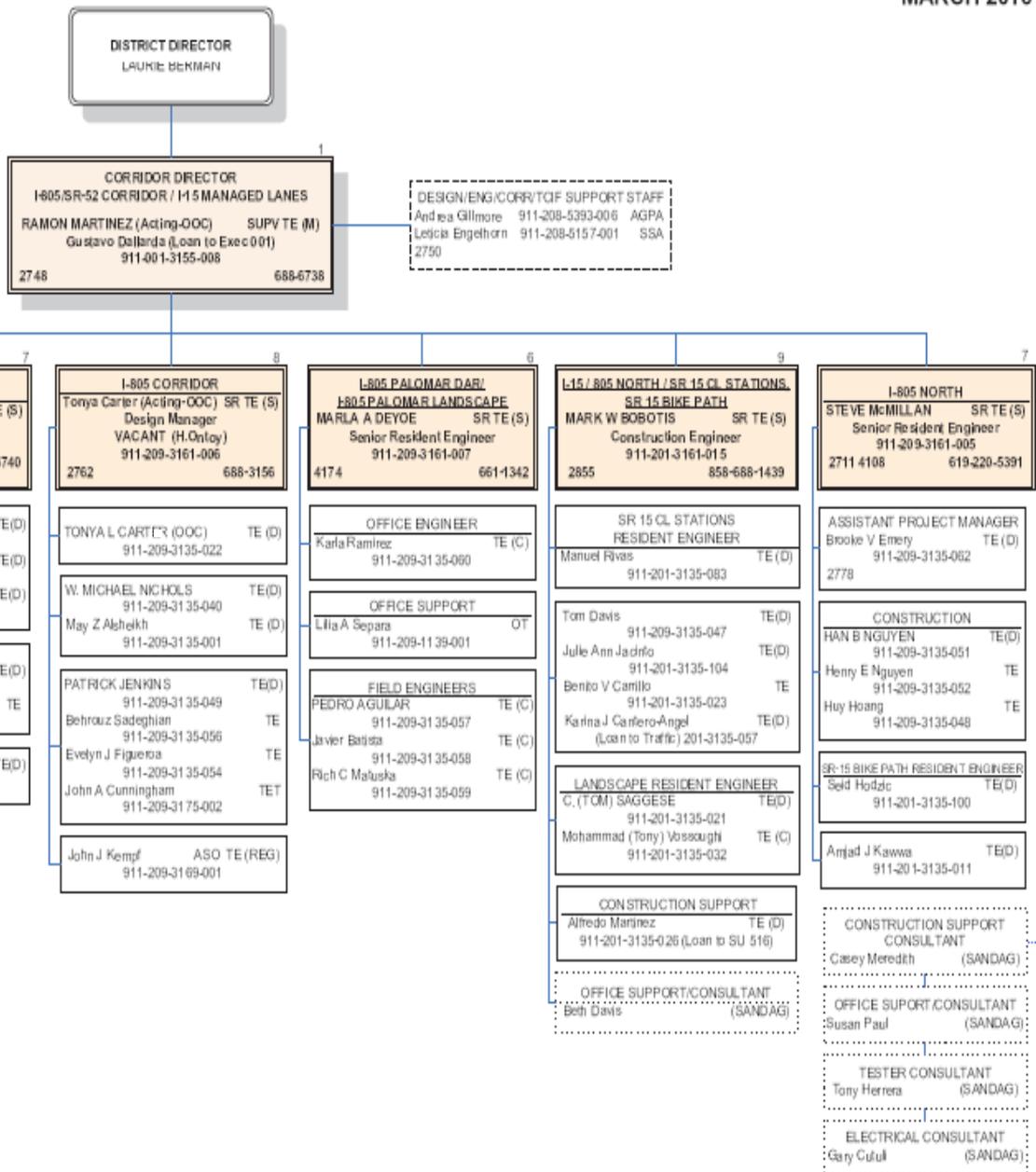
2010 Capital Outlay Support ... 49

Total 49

MGR (M)	1	Vacancy w/PARF:	0
SUPV (S)	6	On Loan From:	0
R & F	42	On Loan To:	4
		Right of Return (ROR):	0
		Out of Class (OOC):	2
		Training & Dev (T&D):	0
		Rotation (R):	0
		Consultant:	9
		Volunteer:	0

PATTERNED LINES DENOTE

Consultant
 Volunteer -----
 Counted/Other OC -----



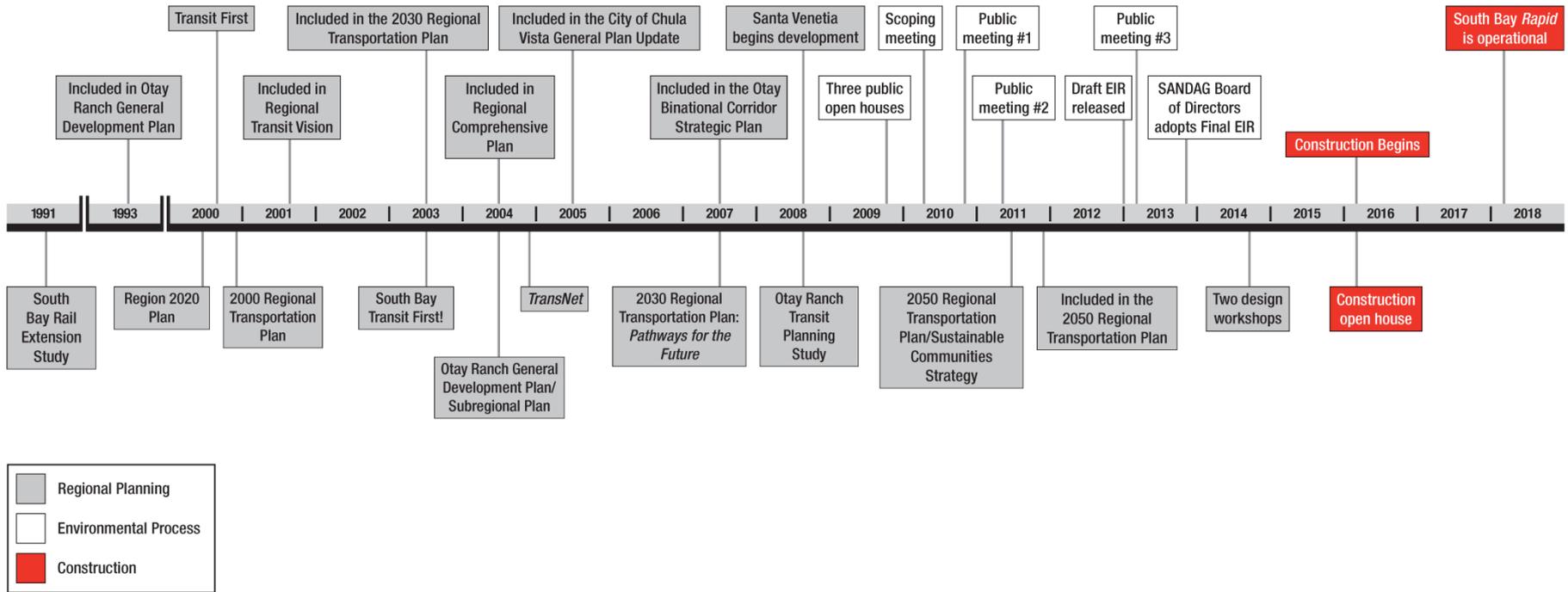
SOUTH BAY RAPID TRANSIT

- SANDAG Board approved EIR in July 2013
- Final Design Completed
- Construction Initiated 2016
- Operational 2018



MEXICO

South Bay Rapid | Project Timeline | January 2016





East Palomar guideway lanes reserved for bus only use.

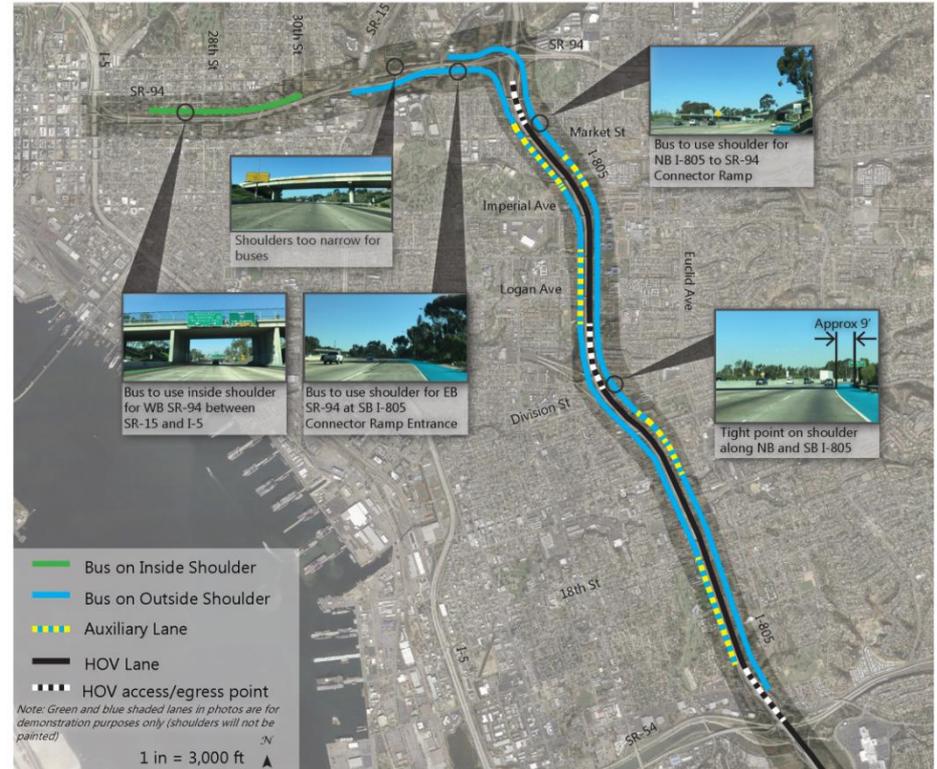


I-805 BUS ON SHOULDERS

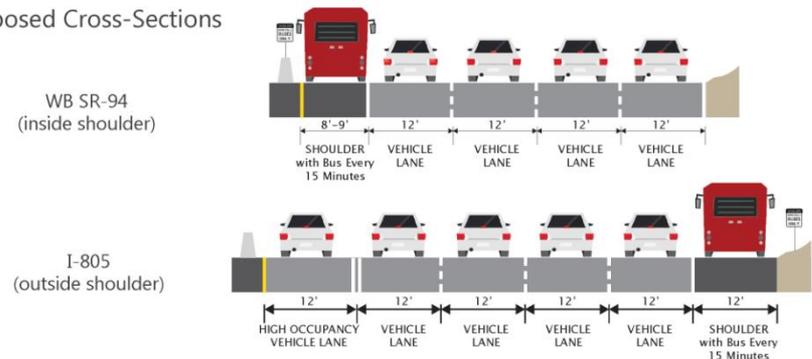
- May 2016 – Environmental Document Draft Technical Memoranda
- June 2016 – Bus Procurement
- June 2016 – Final Technical Memoranda
- June 2016 – Technology Package
- July 2016 – CHP approval
- July 2016 – Notice of Exemption
- August 2016 – Signed Final Decision Document
- September 2016 – Technology RFP
- October 2016 – PS&E Package and Bid Ready Construction Package
- June 2018 – BOS Revenue Service

Bus on Shoulders Fact Sheet

I-805 and SR-94 Corridor Map

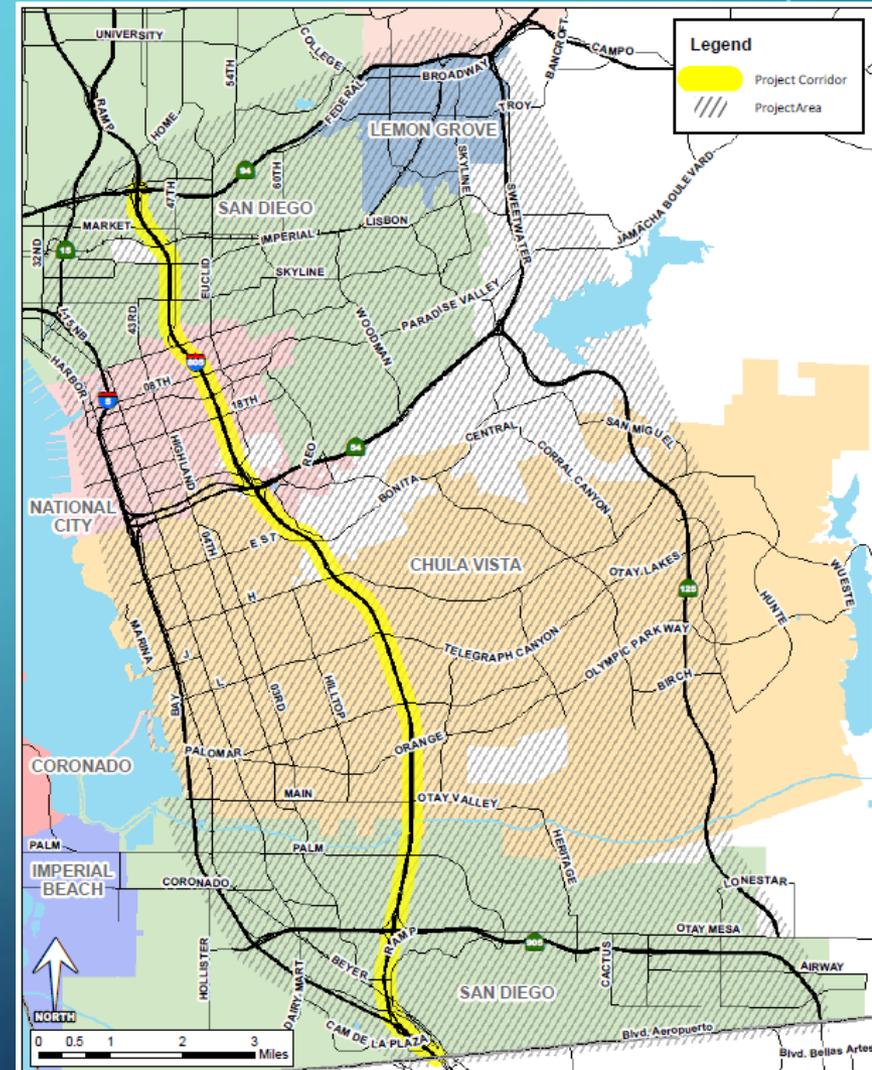


Proposed Cross-Sections



I-805 SOUTH CORRIDOR ACTIVE TRANSPORTATION DEMAND MANAGEMENT (ATDM) PROJECT

- The ATDM Concept of Operations will evaluate the full range of available Transportation Demand Management (TDM) and Transportation System Management (TSM) strategies into a holistic framework for managing the corridor.
- Partner Agencies:
 - City of Chula Vista
 - City of San Diego
 - San Diego Metropolitan Transit System (MTS)
 - City of National City
 - SANDAG
 - Caltrans



I-805 SOUTH CORRIDOR ACTIVE TRANSPORTATION DEMAND MANAGEMENT (ATDM) PROJECT

Draft Con Ops - December 2015
Final Con Ops



I-805 South Active Traffic and Demand Management (ATDM)

Concept of Operations
DRAFT
(Deliverable 5)

December 2015

Prepared for:



Prepared by:



I-805 SOUTH ISSUES AND NEEDS (1 OF 6)

- OPERATIONAL MANAGEMENT

- NEED: Emphasis on person movement and person mobility
- NEED: Ability to provide a performance based solution
- NEED: Real-time, comprehensive, accurate, multimodal information to customers
- ISSUE: Limited funding for transit and system Operations
- ISSUE: Limited real-time and historical data coverage of the corridor

I-805 SOUTH ISSUES AND NEEDS (2 OF 6)

- **CONGESTION AND CAPACITY**
 - **NEED:** Managing of events and incidents
 - **NEED:** Multimodal coordination at the border
 - **ISSUE:** Increasingly congested conditions on I-805
 - **ISSUE:** Unreliable travel times on I-805
 - **ISSUE:** Increasingly congested conditions on arterial network approaching I-805
 - **ISSUE:** Insufficient Park & Ride Facilities

I-805 SOUTH ISSUES AND NEEDS (3 OF 6)

- **TRANSIT**

- **NEED:** Reliable transit services
- **NEED:** Market-based transit services and options
- **NEED:** Transit first-mile/last-mile solutions (mobility hub)
- **NEED:** Transit priority measures
- **ISSUE:** Limited existing transit infrastructure along I-805

I-805 SOUTH ISSUES AND NEEDS (4 OF 6)

- **TRANSPORTATION SYSTEM MANAGEMENT**

- **NEED:** Reliable corridor-wide communication systems
- **NEED:** Integrated transportation management
- **ISSUE:** Managing traffic flows between systems and modes
- **ISSUE:** Limited extent of HOV/HOT system
- **ISSUE:** Coordination across multiple functional systems and jurisdictions

I-805 SOUTH ISSUES AND NEEDS (5 OF 6)

- TRAVELER INFORMATION SERVICE

- NEED: Improved education and outreach to customers
- NEED: Messaging options that reach broad audience of customers
- ISSUE: Minimal real-time data coverage of the corridor
- ISSUE: Availability of bi-directional border wait time data

I-805 SOUTH ISSUES AND NEEDS (6 OF 6)

- **INSTITUTIONAL COORDINATION**

- **NEED:** Inter-jurisdictional and inter-organizational coordination and integration among corridor stakeholders
- **NEED:** Integrated non-recurring incident management
- **NEED:** Exchange and sharing of real-time and historical data
- **NEED:** Management and monitoring of compliance to services and system functions
- **NEED:** Improved clearance time for non-recurring incidents
- **ISSUE:** Inconsistent performance measurement metrics
- **ISSUE:** Natural tensions between agency goals and objectives

I-805 SOUTH CORRIDOR VISION AND MISSION

- VISION:

- I-805 Corridor operators will work collaboratively, using technology and partnership to increase person throughput.
- Through a combination of strategies I-805 Corridor users will be provided multimodal travel choices with reliable travel times and costs.

- MISSION:

- Operators of the corridor will work collaboratively to increase person throughput and will use technology and interagency communications and partnerships to manage mobility across all modes and facilities. Reliable and accurate travel information will be collected, processed, and shared with customers providing the ability to better plan for timely arrival at their destination.

MAPPING OBJECTIVES TO GOALS

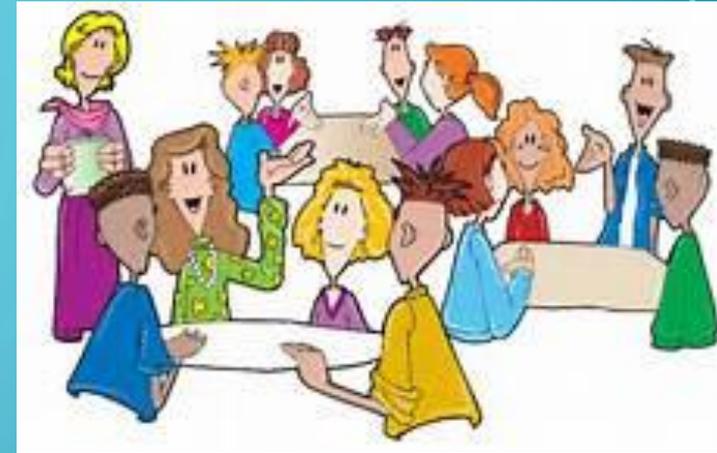
OBJECTIVES	GOALS				
	Optimize/Maintain Trip Reliability	Maximize Person Throughput	Minimize Person Delay	Institutional Coordination	Technical Integration
Maximize Non-SOV Share		✓			
Enhance Corridor Mgmt	✓			✓	✓
Maximize Transit Service	✓	✓			
Improve Incident/ Event Mgmt	✓	✓	✓	✓	
Strengthen Interagency Coord				✓	✓
Increase Travel Choice		✓		✓	
Reliable Travel Times	✓		✓	✓	
Collect, Process, and Share Data				✓	✓
Options for Data Consumption		✓		✓	✓
Improve Ability to Manage Assets				✓	✓

I-805 SOUTH CORRIDOR ACTIVE TRANSPORTATION DEMAND MANAGEMENT (ATDM) PROJECT STRATEGIES - DRAFT

		Goals				
Timeframe Category	Strategy	Optimize / Maintain Trip Reliability	Maximize Person Throughput	Minimize Person Delay	Institutional Coordination	Technical Integration
Short Term	Bus On Shoulder	R	R	R	R	R
Short Term	Queue Warning System	R	R	R		R
Short Term	Actionable Event Information	R		R	R	R
Short Term	Comparative Travel Times	R			R	R
Short Term	Personal Travel Assistant	R		R		R
Short Term	Individualized Marketing		R		R	
Short Term	Shared Ride/Transit Parking	R	R	R		
Short Term	Last-mile Private Shuttles		R		R	
Short Term	Adaptive Signal Timing	R	R	R		R
Short Term	Shared Ride Incentives		R		R	
Medium Term	Adaptive Ramp Metering	R	R	R		R
Medium Term	Active Dynamic Routing			R	R	R
Medium Term	Signal Timing Coordination with Ramp Meters	R	R	R	R	R
Medium Term	Parking Mgmt / Dynamic Pricing	R	R	R	R	
Medium Term	Neighborhood Shuttles		R		R	
Medium Term	HOT/Special-Use Ramps		R			R
Medium Term	Real Time / Dynamic Ride Matching		R	R		
Long Term	Speed Harmonization	R	R			R
Long Term	Dynamic Lane Assignment	R	R			R
Long Term	Universal Payment Account		R	R	R	R
Long Term	Toll Account for Transit Use		R		R	R
Long Term	Mobility Hubs / Transit Connect	R	R			
Long Term	Commuter Express Bus	R	R		R	
Long Term	EcoPass Program		R		R	
Long Term	Tolling Incentive Programs		R		R	R

FORUM EXPECTATIONS

- Bring different players to the table
- Collaborate
- Establish a benchmark
- Identify gaps (technological, operational, institutional)
- Agree on the action plan to align the needs of the corridor with the capabilities of each agency
- Network and foster working relationships



THANK YOU!

QUESTIONS?

