

**Engineering & Construction**

# Project Budget and Schedule Status

**Measure R Oversight Committee  
April 1, 2014**



# Measure R

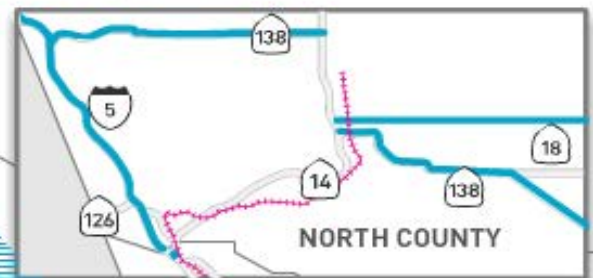
- In November 2008, Measure R was approved by a two-thirds majority vote by the County of Los Angeles to increase the sales tax in L.A. County by  $\frac{1}{2}$  a percent
- With the passage of Measure R, Metro is provided a potential \$36 billion in revenue to improve transportation and fund dozens of critical transit and highway projects



# Measure R Project Map

 View All Rail/Rapid

 View All Highway



-  Proposed Metro Rail and Rapid Transit Projects
-  Proposed Metrolink Capital Improvements
-  Existing Metro Rail and Rapid Transit System
-  Highway Capacity Enhancement Projects
-  Interchange, Ramp and/or Grade Separation Improvements
-  Highway Operational Improvements
-  Existing Highways

LAS VIRGENES/MALIBU

WESTSIDE CITIES

SAN FERNANDO VALLEY

CENTRAL LOS ANGELES

ARROYO VERDUGO

SAN GABRIEL VALLEY

GATEWAY CITIES

SOUTH BAY CITIES

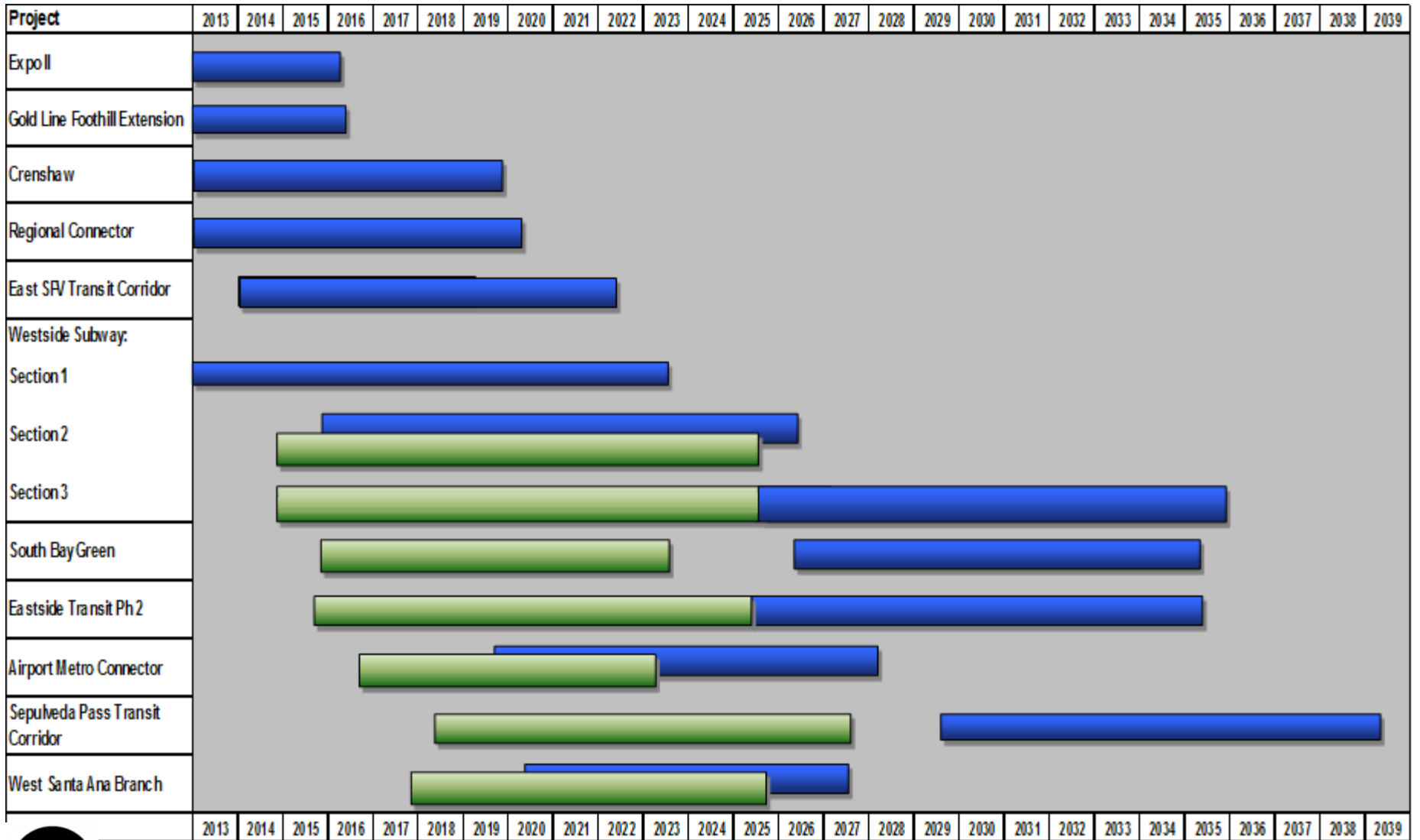




# Transit Program








# Measure R Transit Schedules



Note: Schedules include Engineering/Design through Construction



# Cost & Schedule Performance Summary Chart

<i>Project</i>	<i>Schedule Performance</i>
Crenshaw/LAX	 OK
Westside Purple Line Extension	 OK
Regional Connector	 OK
Gold Line Foothill Ext.	 OK
Expo Phase II	 OK



On target



Possible problem




Major issue



# Crenshaw/LAX Transit Project



 <b>BUDGET</b>	Original	Current	Forecast
Total Cost (\$ mil.)	1,749	2,058	2,058

- No issues to report.


 <b>SCHEDULE</b>	Original	Current	Forecast
Rev. Operation	Dec 2018	Oct 2019	Oct 2019


- California Public Utilities Commission approved 1 of 5 grade-separated crossings applications.
- Design-builder continues final design.
- Metro has turned over 26 of 34 permanent parcels for design-builder's construction use.

## POTENTIAL RISKS

- Remaining right-of-way acquisition forecast dates continue to trend later than planned and may impact project cost and schedule.
- Request for California Public Utilities Commission to approve the remaining four of five applications for grade-separated crossings that have been submitted.
- Timely future reviews of design-builder's final design submittals by City of Los Angeles, City of Inglewood, Caltrans, FAA and Los Angeles World Airways.
- Execution of Agreement with City of Inglewood and required approvals.
- Various utility relocations by third parties required prior to design-builder's construction activities.
- Future Southwestern Yard contract procurement may need to be moved up to mitigate any integration issues with the active mainline design-build contractor.



 On target

 Possible problem

 Major issue

# Westside Purple Line Extension – Section 1 (La Cienega)



 <b>BUDGET</b>	*Original	Current	Forecast
Total Cost (\$ mil.)	TBD	2,861	2,861

- Includes Planning and Finance costs.
- The FFGA application is being processed by the FTA. Approval is expected in May 2014.

\*Original budget to be adopted upon receipt of the FFGA

 <b>SCHEDULE</b>	*Original	Current	Forecast
Rev. Operation	TBD	Jun 2023	Jun 2023

- RFP proposals for the Design-Build contract are under evaluation.
- Construction of the exploratory shaft is expected to complete in March 2014.
- Bids were received on February 4, 2014 for the Advanced Utility Relocations Contract at the Wilshire/Fairfax Station area.


\*Original schedule to be adopted upon receipt of the FFGA

## POTENTIAL RISKS

- CEQA and NEPA lawsuits filed by Beverly Hills Unified School District and the City of Beverly Hills.
- Bid results.



 On target


 Possible problem

 Major issue



# Regional Connector



 <b>BUDGET</b>	Original	Current	Forecast
Total Cost (\$ mil.)	1,427	1,427	1,427

- Includes Planning and Finance costs.
- Executed FFGA from FTA presented to Metro on February 20, 2014.
- TIFIA loan from USDOT approved on February 20, 2014.


 <b>SCHEDULE</b>	Original	Current	Forecast
Rev. Operation	Sep 2020	Sep 2020	Sep 2020


- BAFO proposals for D/B Contract C0980 received in January are under evaluation.
- Issued contract C0981R NTP to Pulice Construction for Advanced Utility Relocations.
- Utility relocations by Third Party Utilities continues at Flower Street and 2<sup>nd</sup> Street.


## POTENTIAL RISKS

- CEQA and NEPA lawsuits filed by Bonaventure Hotel, Japanese Village Plaza, and Thomas Properties Group.
- Bid results.




 On target

 Possible problem

 Major issue

# Gold Line Foothill Extension (Phase 2A)



 <b>BUDGET</b>	Original	Current	Forecast
Total Cost (\$ mil.)	690	741	741

- No issues to report.

 <b>SCHEDULE</b>	Original	Current	Forecast
Rev. Operation	Nov 2016	Mar 2016	Mar 2016


- No issues to report..

## POTENTIAL RISKS

- Scope growth/betterments
- Third party impacts
- Final compensation for property acquired through condemnation
- Metro is assessing operational scenarios related to vehicle availability for an early opening of this project
- Metro vendor late delivery of Sub-Stations



 On target

 Possible problem

 Major issue

# Gold Line Foothill Extension (Phase 2A)



## RECENT ACTIVITIES/ISSUES


- Site Work
  - Grading, utility relocation, fencing, sound wall, retaining wall, and drainage construction throughout alignment
  - Completed 3 of 23 miles of light rail mainline track
  - Began installing mainline OCS poles
- At-Grade Crossings
  - 9 of 14 crossings completed
  - 2 additional crossings currently under construction
- Stations
  - All stations under construction
  - Duarte and Arcadia station canopy steel frames installed
- Bridges
  - 17 of 24 bridges completed
  - 6 additional bridges currently under construction
- Maintenance Facility
  - Continued the structural steel frame for main building
  - Installed 30% of the OCS poles in the maintenance facility
  - Began installation of OCS wire



# Exposition Phase I & Phase II



## PHASE I

 <b>BUDGET</b>	Original	Current	Forecast
Total Cost (\$ mil.)	640	971	971

- No issues to report.

## SCHEDULE

- Revenue Operations to Culver City began June 20, 2012.

## POTENTIAL RISKS

- Change Orders/Claims
- Third party overruns
- Professional Services Costs

## PHASE II

 <b>BUDGET</b>	Original	Current	Forecast
Total Cost (\$ mil.)	1,511	1,511	1,511

- No issues to report.


 <b>SCHEDULE</b>	Original	Current	Forecast
Rev. Operations	Nov 2016	Jan 2016	Jan 2016


- No issues to report..

## POTENTIAL RISKS

- Third Party Relocation Costs and Delays (SCE, Venice Boulevard Bridge)
- Three party agreement on 5 minute headway requirement in Santa Monica segment
- Metro is assessing operational scenarios related to vehicle availability for an early opening of this project



 On target

 Possible problem

 Major issue

# Exposition Phase I & Phase II



## RECENT ACTIVITIES/ISSUES

### PHASE I

- Outstanding work items:
  - Replace Spring Frog at National Crossover
  - Final noise measurements after Spring Frog replacement
  - Continue working on Warranty Items
  - As-Builts need to be completed and submitted for final approval

### PHASE II

- Continue Bridge Structures, Utilities, OCS Foundations, Guideway Grading
- Continue trackwork installation
- Station Platforms under construction
- Operations and Maintenance Facility under construction
- Bikeway Contract
  - Design work underway
- Design approximately 99% complete. Construction approximately 60% complete
- Working on final agreement with Metro and City of Santa Monica on parameters for 5 minute headway operation.
- Beginning Security/Fare Gate study on 3 at-grade stations





# Highway Program





# Measure R Highway Projects

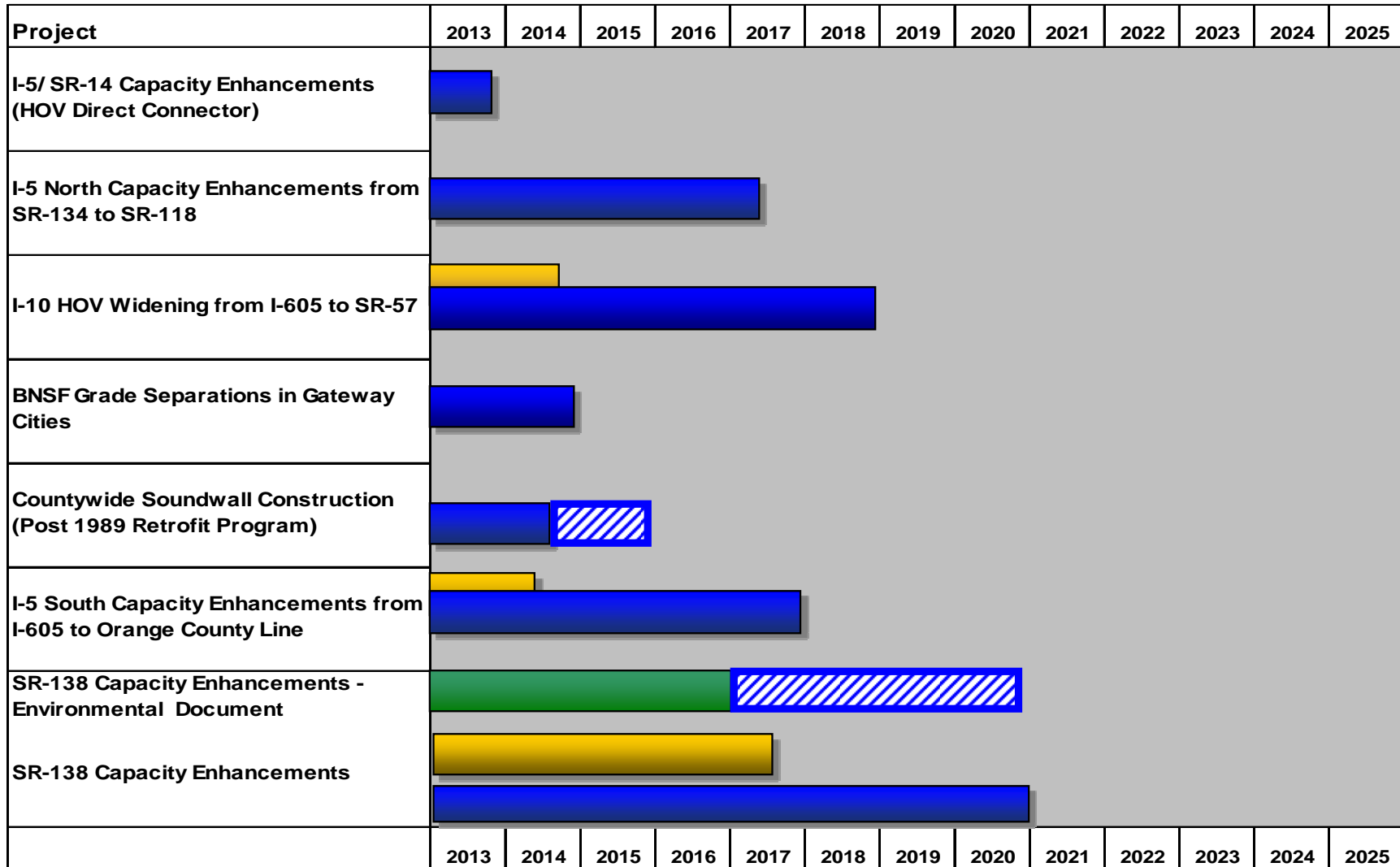


- A** I-5 HOV from SR-134 to SR-170
- B** I-5 Widening and HOV
- C** I-5/Carmenita Road Interchange
- D** I-5/SR-14 HOV Direct Connector
- E** I-405, I-110, I-105 & SR-91 Improv.
- F** I-5 HOV Lanes/Truck Lanes (SR-14)
- G** **I-710 Corridor Project EIS/EIR**
- H** SR-138 Capacity Enhancements
- I** **High Desert Corridor Project**
- J** I-605 Corridor “Hot Spots”
- K** Arroyo Verdugo Operational Improv.
- L** Las Virgenes – Malibu Oper. Improv.
- M** **SR-710 Gap Closure Study Area**
- N** BNSF Grade Separations
- O** Alameda Corridor East Phase II



*RED colored projects = Highway projects selected for initial assessment of funding through Public-Private Partnerships*

# Highway Program Project Schedules



EIR/EIS



Engineering & Design



Construction

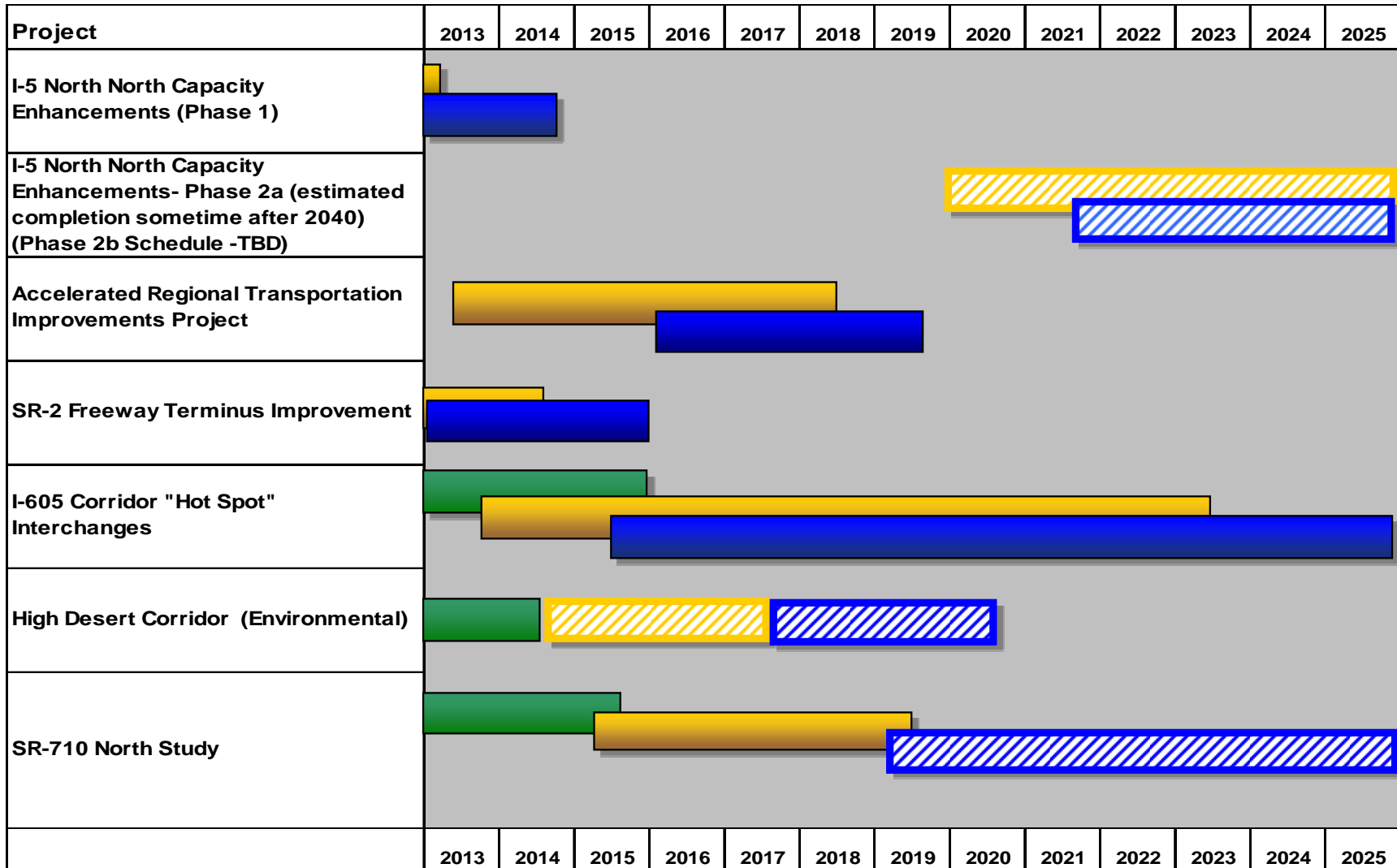


Funding TBD



Various project stages

# Highway Program Project Schedules



EIR/EIS

Engineering & Design



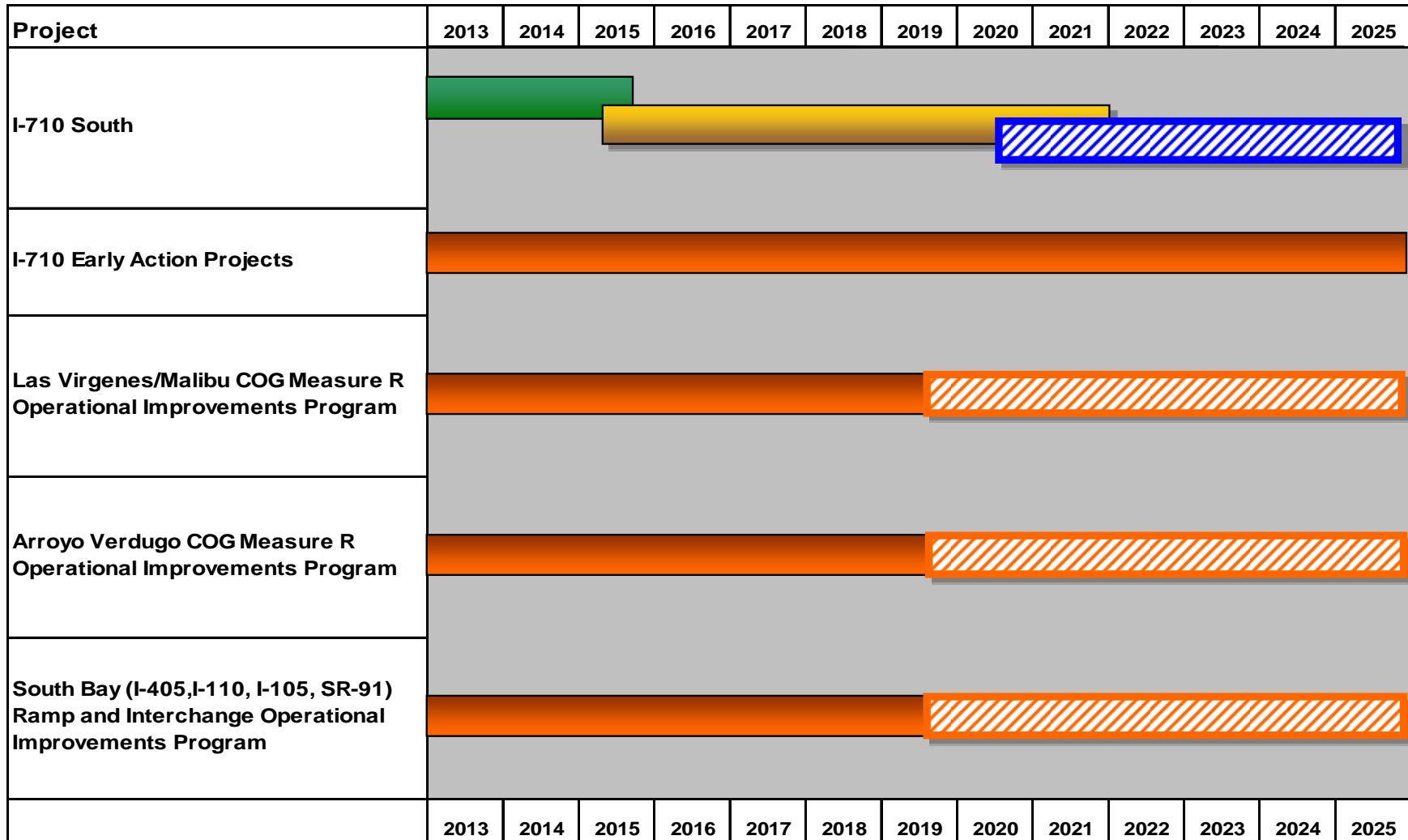
Construction

Funding TBD



Various project stages

# Highway Program Project Schedules



EIR/EIS



Engineering & Design



Construction























Funding TBD



Various project stages

# Schedule Performance Summary Chart

<i>Project</i>	<i>Cost Performance</i>	<i>Schedule Performance</i>	<i>Comments</i>
I-5/SR-14 Capacity Enhancements (HOV Direct Connector)			
I-5 North Capacity Enhancements from SR-134 to SR-118			SR-134 to Magnolia-experiencing a high level of contract change order activity. Empire/Burbank-beginning of Construction delayed due to underground utility relocation delays.
I-10 HOV Widening from I-605 to SR-57			Citrus to SR-57 delayed to revise roadway geometry lowering the freeway grade at Kellogg Hill, as a consequence of SHOPP project funding
BNSF Grade Separations in Gateway Cities			Utility relocation, third party impacts, potential funding gap, scope growth.
Countywide Soundwall Construction (Post 1989 Retrofit Program)			Packages 6&8 will be completed early 2014 with Packages 5&7 scheduled for construction completion late 2014. Packages 10&11 are candidates for accelerated delivery as part of ARTI.
I-5 South Capacity Enhancements from I-605 to Orange County Line			Due to ROW and Utility Relocation delay, the project's completion year is expected to be extended to 2019.
SR-138 Capacity Enhancements			
I-5 North North Capacity Enhancements: Phase 1: Truck Lanes from SR-14 to Pico Canyon Rd.			
I-5 North North Capacity Enhancements: Phase 2: Truck Lane +HOV from SR-14 to Parker Rd			Majority of Measure R funds are in the 2nd decade. Require America Fast Forward to advance project. Candidate for accelerated delivery as a part of the Accelerated Regional Transportation Improvements Project.
I-5 North North Capacity Enhancements: Phase 2B: Truck Lane +HOV from Parker Rd. to Kern County Line			Schedule predicated upon funding availability. Funds are allocated in the 2nd and 3rd decades. Require America Fast Forward to advance project. Funding is insufficient to cover costs.



On target





















Possible problem



Major issue



# Schedule Performance Summary Chart

<i>Project</i>	<i>Cost Performance</i>	<i>Schedule Performance</i>	<i>Comments</i>
Accelerated Regional Transportation Improvements Project			Schedule is pending approval by CTC as a P3.
SR-2 Freeway Terminus Improvement (Phase 1)			
I-605 Corridor "Hot Spot" Interchanges			Program not fully funded.
High Desert Corridor (Environmental)			
SR-710 North Study			Potential funding gap, only Measure R funding has been secured. Funding gap based on alternative selected.
I-710 South			Project not fully funded. Schedule delayed due to a need for re-circulation of the Draft EIR/EIS.
Las Virgenes/Malibu COG Measure R Operational Improvements Program			
Arroyo Verdugo COG Measure R Operational Improvements Program			
South Bay (I-405, I-110, I-105 and SR-91) Ramp and Interchange Operational Improvements Program			



On target



Possible problem



Major issue





# I-5 / SR-14 Capacity Enhancements (HOV Direct Connector)



## BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$175.8	\$175.8

Funds include: CMAQ, RIP, Prop C, and Measure R

- Scope includes pre-construction and construction activities
- Supplemental remediation work in the amount not to exceed \$3.75 million for safety, slope and drainage related to the project.



## SCHEDULE

	Current	Forecast
Construction Complete	2013	2013

- Construction – 96% complete
- Opened to traffic on Dec. 23<sup>rd</sup>, 2012
- Ribbon-cutting ceremony held on Jan. 11<sup>th</sup>, 2013

## POTENTIAL RISKS:

- Additional safety, slope and drainage work are still outstanding.



On target




Possible problem



Major issue

# I-5 North Capacity Enhancements from SR-134 to SR-118



 BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$1.01B	\$1.01B
<p><u>Funds include:</u> RIP, TCRP, RSTP, Prop C, SLPP, CMAQ, ARRA, IIP, SAFETEA-LU, CMIA, Measure R</p> <ul style="list-style-type: none"> <li>• Scope includes pre-construction and construction activities</li> </ul>		

 SCHEDULE	Current	Forecast
Construction Complete	2017	2017
Buena Vista~SR-170	2014	2014
 SR-134~Magnolia	2016	2016
SR-170~SR-118	2015	2015
 Empire/Burbank	2017	2017

## POTENTIAL RISKS:

### SR-134~Magnolia:


- Experiencing a high level of contract change order activity

### Empire/Burbank:

- Beginning of construction delayed due to underground utility relocation delays




 On target


 Possible problem

 Major issue

# I-10 HOV Widening from I-605 to SR-57




 BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$565.9	\$565.9
<p><u>Funds include:</u> CMAQ, STIP-GF, STIP-RIP, Prop C, RSTP and TCRP</p> <ul style="list-style-type: none"> <li>• Scope includes pre-construction and construction activities</li> </ul>		


 SCHEDULE	Current	Forecast
Construction Complete	2018	2019
I-605~Puente	Complete	Complete
Puente~Citrus	2017	2017
Citrus~SR-57	2018	2019
<ul style="list-style-type: none"> <li>• I-605~Puente opened to traffic in Dec. 2013</li> </ul>		

## POTENTIAL RISKS:

- Right-of-Way acquisitions
- Forest Lawn demands for work on their slopes
- Citrus-SR-57 delayed to revise roadway geometry lowering the freeway grade at Kellogg Hill, as a consequence of SHOPP project funding



 On target

 Possible problem

 Major issue

# BNSF Grade Separations in Gateway Cities



◆ BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$235M <sup>1</sup>	\$235M <sup>1</sup>
Passons Boulevard	\$43M	\$43M
Valley View Avenue	\$79M	\$75M
<u>Fund Sources<sup>2</sup>:</u> City Funds, Measure R, BNSF, PUC, STIP, TCRF, TCIF, CMAQ, SAFETEA-LU and other federal funds		

◆ SCHEDULE <sup>3</sup>	Current	Forecast
Construction Complete	2014	2014
<u>Passons Boulevard:</u> End Construction- November 2012* <small>*Opened to traffic Nov. 6, 2012</small>		
<u>Valley View Avenue:</u> Under Construction End Construction - December 2014		

## POTENTIAL RISKS:

- Utility Relocations
- Third Party Impacts & Mandates
- Scope Growth
- Funding Gaps

<sup>1</sup>Denotes total program estimate reflected in Multi-County Goods Movement Action Plan (2008 \$s). (Balance of funds are earmarked for the remaining projects in various planning stages).

<sup>2</sup>Funds sources vary with projects

<sup>3</sup>Multiple grade separation projects with various schedules in early planning stages include: Rosecrans Ave./Marquardt Ave., Norwalk Blvd./Los Nietos Rd., Pioneer Blvd. and Lakeland Rd.



On target



Possible problem



Major issue

# Countywide Soundwall Construction (Post 1989 Retrofit Program)



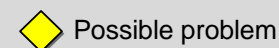
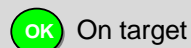
◆ BUDGET			◆ SCHEDULE**		
Total Cost (\$ mil.)	Current	Forecast	Construction Complete	Current	Forecast
	\$162	\$262		2014	2014
<ul style="list-style-type: none"> <li>• <u>Secured Funds</u>: Measure R / Prop C (\$162M)</li> <li>• <u>Unsecured Funds</u>: Various (\$100M)</li> <li>• Currently total 10 packages have been programmed</li> </ul>			<ul style="list-style-type: none"> <li>•Pkgs. 2 &amp; 3                      Complete      Complete</li> <li>•Pkg. 4                              Complete      Complete</li> <li>•Pkgs. 5 &amp; 7                      2014              2014</li> <li>•Pkgs. 6 &amp; 8*                      2014              2014</li> <li>•Pkgs. 10 &amp; 11**              2<sup>nd</sup> decade      2<sup>nd</sup> decade</li> <li>•Duarte                              Complete      Complete</li> </ul>		
			<p>*Pkg 8 ribbon cutting scheduled for March 14, 2014  **Schedule is valid pending CTC approval as part of ARTI P3</p>		

## POTENTIAL RISKS:

- Third party activities
- Project list is a living document. Total delivery cost of Post 1989 Retrofit Soundwall Program is approximately \$2 billion.

## OPPORTUNITY:

- \* Pkgs. 10 & 11 are candidates for accelerated delivery as a part of the Accelerated Regional Transportation Improvements Project



# I-5 South Capacity Enhancements from I-605 to Orange County Line



◆ BUDGET	Current	Forecast										
Total Cost (\$ mil.)	\$1.77B	\$1.82B										
<p>Funds: CMIA, RIP (GR &amp; State), IIP, TCRP, Demo, CMAQ, STPPL, Prop C 25%, Measure R</p> <p>CONTRACT AWARD:</p> <table border="0"> <tr> <td>Carmenita Rd</td> <td>September 2011</td> </tr> <tr> <td>Segment 1</td> <td>January 2012</td> </tr> <tr> <td>Segment 3</td> <td>September 2012</td> </tr> <tr> <td>Segment 4</td> <td>September 2012</td> </tr> <tr> <td>Segment 5</td> <td>Early 2014</td> </tr> </table>			Carmenita Rd	September 2011	Segment 1	January 2012	Segment 3	September 2012	Segment 4	September 2012	Segment 5	Early 2014
Carmenita Rd	September 2011											
Segment 1	January 2012											
Segment 3	September 2012											
Segment 4	September 2012											
Segment 5	Early 2014											

▲ SCHEDULE	Current	Forecast
Construction Complete	2016	2019
Carmenita Rd	2015	2015
Seg. 1 - Alondra Blvd.	2016	2016
Seg. 2 - Valley View	2016	2019
Seg. 3 - Shoemaker/Rosecrans	2016	2017
Seg. 4 - Imperial Hwy.	2016	2017
Seg. 5 - Florence Ave.	2016	2018

## POTENTIAL RISKS:

- R/W Acquisition
- Utility Relocation
- Hazardous Waste
- Third Party Agreements
- Buy America compliance



On target

Possible problem

Major issue



# SR-138 Capacity Enhancements



## BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$410	\$410

Funds include: RIP, IIP, Measure R

- Scope includes pre-construction and construction activities



## SCHEDULE

	Current 2020*	Forecast 2020*
Construction Complete		

Seg. 1, 2, 5, 7,10,11 &12	Complete	Complete
Segments 3&4	2016	2018
Segment 6	2018	2017
Segments 8&9	2016	2017
Segment 13	2019	2018
*Between I-5 and SR-14 (PA/ED only)	2016	2016
Palmdale & Lancaster Projects (10 total)	Various	Various

\*Construction for SR-138 between I-5 and SR-14 is TBD depending on funding availability

### POTENTIAL RISKS:

- Locating property owners along Right-of-Way
- Right-of-Way procurement



On target



Possible problem



Major issue

# I-5 North North Capacity Enhancements: Phase 1: Truck Lanes from SR-14 to Pico Canyon Rd.



## BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$131	\$70

- Funds include: SHOPP and Measure R
- Scope includes pre-construction and construction activities



## SCHEDULE

	Current	Forecast
Construction Complete	2014	2014

- Notice to Proceed - March 2012
- Groundbreaking held on May 3, 2012
- Currently in Construction

## POTENTIAL RISKS:

- Differing site conditions during construction



On target




Possible problem




Major issue

# I-5 North North Capacity Enhancements: Phase 2A: Truck Lane +HOV from SR-14 to Parker Rd.



 BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$279	\$375
<ul style="list-style-type: none"> <li>• <u>Secured Funds</u>: Measure R (\$279M)</li> <li>• <u>Unsecured Funds</u>: Fed, State, Local (\$96M)</li> </ul>		

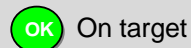
 SCHEDULE*	Current	Forecast
Design Complete	2014	2014
RFQ - Released 5/31/13		
RFP	2014	2014
Financial Close	2014/15	2014/15
Construction Complete	2019	2019
<p>*This schedule assumes the project will be approved by CTC as a part of ARTI P3.</p>		

## POTENTIAL RISKS:

- Majority of Measure R funds are in the 2<sup>nd</sup> decade. Require America Fast Forward to advance project

## OPPORTUNITY:

- Candidate for accelerated delivery as a part of the Accelerated Regional Transportation Improvements Project



# I-5 North North Capacity Enhancements: Phase 2B: Truck Lane +HOV from Parker Rd. to Kern County Line



## BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$2M	\$5.0B

Secured Funds: Measure R (\$2M for project initiation)

Unsecured Funds: Fed, State, Local (\$5B)



## SCHEDULE

	Current	Forecast
	TBD	TBD

- Schedule predicated upon funding availability

## POTENTIAL RISKS:

- Funds are allocated in the 2<sup>nd</sup> and 3<sup>rd</sup> decades. Require America Fast Forward to advance project
- Funding is insufficient to cover costs



On target



Possible problem



Major issue

# Accelerated Regional Transportation Improvements Project



## BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$700	\$700

### Funds include:

Measure R, Prop C 25%, Toll Revenues and SHOPP



## SCHEDULE

	Current	Forecast
Construction Complete	2030	2019

RFQ-Released 5/31/13	2013	2013
RFP	2014	2014
Financial Close	2015	2015
Construction Complete	2019	2019

Pending approval by CTC as a P3.

### POTENTIAL RISKS:

- Market conditions

### OPPORTUNITIES:

Public Private Partnership delivery produces:

- Accelerated delivery
- Risk sharing with private contractors
- Better leveraging of Measure R funding
- Market interest

### PROJECTS UNDER CONSIDERATION:

- I-5 North Capacity Enhancements (Phase 2A: Truck Lane + HOV from SR-14 to Parker Rd.)
- I-5 Pavement Rehabilitation
- SR-71 Expressway Gap Closure (from I-10 to Mission Blvd.)
- SR-71 Expressway Gap Closure (from Mission Blvd. to Rio Rancho Rd.)
- Soundwall Package 10&10a: I-210 Pasadena and Arcadia
- Soundwall Package 11: I-405 & SR 170 in Los Angeles



On target




Possible problem




Major issue

# SR-2 Freeway Terminus Improvement (Phase 1)



 BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$11.2	\$11.2
<u>Secured Funds:</u> TEA21 Earmark (\$11.2M for ED and Phase 1 construction)		

 SCHEDULE	Current	Forecast
Construction Complete	2015	2015
Phase 1A	2013	2013
Phase 1B	2014	2015


## POTENTIAL RISKS:


- Controversy over project not fully funded
- Diversion of traffic to Cove Ave. in Phase 2
- Phase 2 requires additional Federal/State grant

## OPPORTUNITIES:

- Phase 1A started construction in April 2013
- Phase 1B will start construction in Winter 2014/2015
- Phase 2 to relocate existing diamond off-ramp will proceed once Federal/State discretionary funds are obtained for the project (\$15 M)



 On target

 Possible problem

 Major issue

# I-605 Corridor “Hot Spot” Interchanges



## BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$590M*	\$2.2B*

Secured Funds: Measure R - \$590M  
Unsecured Funds: \$1.6B



## SCHEDULE

	Current	Forecast
Construction Complete	2026	2026

- Multiple projects to be programmed with different schedules through 2030
- Completed Feasibility Study in 2012
- I-605/I-5 & I-605/SR-91 Project Study Reports initiated in April 2013
- Environmental Clearance in 2015

### POTENTIAL RISKS:

- Funding of program
- Third Party implementation
- Scope Growth
- Utility relocation
- R/W Acquisition
- Hazardous waste

\*Denotes current secure funding and not expected to cover Feasibility Study improvement needs.  
 Project costs to be determined post Feasibility Study



On target



Possible problem



Major issue



# High Desert Corridor (Environmental)



## BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$65	\$65

Funds include: STIP (GF), Measure R, Measure I, and federal earmarks

- Scope includes Project Approval and Environmental Document (PA/ED) only



## SCHEDULE

Environmental Document Complete	Current	Forecast
	2015	2015

Draft ED Circulation	2013	2014
Public Hearing	2014	2014
Final ED	2015	2015
Record of Decision	2015	2015

## POTENTIAL RISKS

- Funding for highway and rail components of the project is estimated at \$5B, which has yet to be identified
- Request to expand environmental clearance of ROW from 300' to 500' in the City of Palmdale will have impacts to schedule; staff working to determine the impacts

## OPPORTUNITIES:

- Potential P3 Candidate



On target



Possible problem



Major issue

# SR-710 North Study



 BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$780	\$2.6 - 5.4B*

Secured Funds: Measure R - \$780M  
Unsecured Funds: \$1.82B - \$4.62B  
 Potential P3 Opportunity

 SCHEDULE**	Current	Forecast
Construction Complete	2029	2029

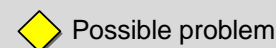
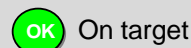
Alternatives Analysis	Fall 2012	Fall 2012
Draft EIR/EIS	Spring 2014	Spring 2014
Public Hearing	Spring 2014	Spring 2014
Final EIR/EIS	Spring 2015	Spring 2015
Record of Decision	Summer 2015	Summer 2015

## POTENTIAL RISKS:

- Delay in agency reviews
- Additional analyses for mitigation and/or alternatives
- Unexpected late public comments on the DEIR/S
- Potential challenges to the FEIR/S ROD, etc...
- Funding shortfall
- Utility relocation
- Hazardous Waste
- Third Party Agreement

\*Denotes a range of cost for several higher cost alternatives

\*\*Dependent on project delivery method



# I-710 South



 BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$395	\$3.5B-\$6.2B*

Secured Funds: Measure R - \$395M  
Unsecured Funds: \$3.1B-5.8B\* – TBD  
 Potential P3 Opportunity

\*Depending on Project Alternative

 SCHEDULE	Current	Forecast
Construction Complete	2028	2028

Re-circulated Draft EIR/EIS	2014	2015
Public Hearing	2014	2015
Final EIR/EIS	2015	2016
Record of Decision	2015	2016
Begin Construction	2020	2022


Multiple Early Action Study Projects with various schedules

## POTENTIAL RISKS:

- Funding shortfall
- SCE Utility Relocation
- Army Corp of Engineers
- Los Angeles County Flood Control
- R/W Acquisition
- Other Utility relocation
- Hazardous Waste
- Third Party Agreements
- Zero-Emission Trucks availability



 On target

 Possible problem

 Major issue

# I-710 Early Action Projects



## BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$30.6	\$195

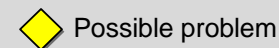
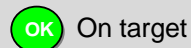
## SCHEDULE

various (see below)

	#APPR. PROJECTS	BUDGET (000'S)	COMPLETION
Completed	0	\$ 000	N/A
Ongoing	1	\$10,400	2013
Future	<u>6</u>	<u>\$20,200</u>	2017
<b>TOTAL</b>	<b>7</b>	<b>\$30,600</b>	<b>2017</b>

### PROGRAM SUMMARY:

Measure R provides \$195 M for the next 30 years, \$30.6 Million has been programmed for the I-710 Early Action Projects by the Metro Board for FY's 2010-15. Ongoing is defined as projects with executed Funding Agreements. Future is defined as projects with first year's funding beyond 2013.



# Las Virgenes/Malibu COG Measure R Operational Improvements Program



## BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$101.8	\$175


## SCHEDULE


various (see below)

	#APPR. PROJECTS	BUDGET (000'S)	COMPLETION
Completed	0	\$ 000	N/A
Ongoing	12	\$37,600	2018
Future	<u>8</u>	<u>\$64,200</u>	2020
<b>TOTAL</b>	<b>20</b>	<b>\$101,800</b>	<b>2020</b>

### PROGRAM SUMMARY:

Measure R provides \$175.0 M over 30 years, \$101.8 Million has been programmed for the Subregion by the Metro Board for FY's 2010-20. Ongoing is defined as projects with executed Funding Agreements. Future is defined as projects with future phases of existing Projects or first years funding of a Project is beyond FY 2013. Metro Board approved project revisions at Oct. 2013 meeting.

 On target

 Possible problem

 Major issue



# Arroyo Verdugo COG Measure R Operational Improvements Program



## BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$57	\$170

## SCHEDULE


various (see below)

	#APPR. PROJECTS	BUDGET (000'S)	COMPLETION
Completed	1	\$ 700	N/A
Ongoing	15	\$29,063	2020
Future	<u>20</u>	<u>\$30,581</u>	2020
<b>TOTAL</b>	<b>36</b>	<b>\$60,344</b>	<b>2020</b>

### PROGRAM SUMMARY:

Measure R provides \$170.0 Million over 30 years of which \$60.3 Million has been programmed in the Subregion for FYs 2010-2020. Ongoing is defined as projects with executed Funding Agreements. Future is defined as projects with future phases of existing Projects or first years funding of a Project is beyond FY 2013.

 On target

 Possible problem

 Major issue



# South Bay (I-405, I-110, I-105 and SR-91) Ramp and Interchange Operational Improvements Program



## BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$192.1	\$906


## SCHEDULE

various (see below)

	#APPR. PROJECTS	BUDGET (000'S)	COMPLETION
COG Admin/Development	N/A	\$ 13,375	2022
Contingency/Reserves	N/A	\$ 15,500	2019
Completed	6	\$ 5,927	2013
Ongoing	27	\$ 135,422	2022
Future	<u>17</u>	<u>\$ 65,469</u>	2022
<b>TOTAL</b>	<b>50</b>	<b>\$ 235,693</b>	<b>2022</b>

### PROGRAM SUMMARY:

Measure R provides \$906.0 Million over 30 years of which \$235.7 Million has been programmed in the Subregion for FYs 2012-2020. Ongoing is defined as projects with executed Funding Agreements. Future is defined as projects with future phases of existing Projects or first years funding of a Project is beyond FY 2013.

 On target

 Possible problem

 Major issue

