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MEETING OF THE

REGIONAL TRANSIT TECHNICAL ADVISORY COMMITTEE

Wednesday, August 21, 2013 10:00 a.m. – 11:30 p.m.

SCAG Offices 818 W. 7th Street, 12th Floor Policy Committee Room A Los Angeles, California 90017 (213) 236-1800

Teleconferencing Available:

Please RSVP with Ed Rodriguez at Rodrigu@scag.ca.gov 24 hours in advance.

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San Bernardino SCAG Office

1170 W. 3rd St, Ste. 140 San Bernardino, CA 92410

If members of the public wish to review the attachments or have any questions on any of the agenda items, please contact Matt Gleason at (213) 236-1832 or gleason@scag.ca.gov.

SCAG, in accordance with the Americans with Disabilities Act (ADA), will accommodate persons who require a modification of accommodation in order to participate in this meeting. SCAG is also committed to helping people with limited proficiency in the English language access the agency's essential public information and services. You can request such assistance by calling (213) 236-1993. We require at least 72 hours (three days) notice to provide reasonable accommodations. We prefer more notice if possible. We will make every effort to arrange for assistance as soon as possible.

REGIONALTRANSIT TECHNICAL ADVISORY COMMITTEE AGENDA August 21, 2013

The Regional Transit Technical Advisory Committee may consider and act upon any TIME PG# of the items listed on the agenda regardless of whether they are listed as information or action items.

1.0 CALL TO ORDER

(Wayne Wassell, Metro, Regional Transit TAC Chair)

- 2.0 <u>PUBLIC COMMENT PERIOD</u> Members of the public desiring to speak on items on the agenda, or items not on the agenda, but within the purview of the Regional Transit Technical Advisory Committee, must fill out and present a speaker's card to the assistant prior to speaking. Comments will be limited to three minutes. The chair may limit the total time for all comments to twenty (20) minutes.
- 3.0 CONSENT CALENDAR
 - 3.1 Approval Items
 - 3.1.1 <u>Minutes of the January 23, 2013 Regional Transit TAC</u> 5 1 <u>Meeting</u>



TRANSIT TECHNICAL ADVISORY COMMITTEE AGENDA

August 21, 2013

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4.0 <u>INFORMATION ITEMS</u>

4.1	FTA MAP-21 Update (Jonathan Klein, FTA)	25	6
4.2	2013 Clean Cities Data Collection Findings (Matt Horton, SCAG Staff)	10	*
4.3	Metro First Mile/Last Mile Strategic Plan (Alan Thompson, SCAG Staff)	40	26
4.4	SCAG Map Books for the 2016 RTP/SCS (Kim Clark, SCAG Staff)	10	51

5.0 STAFF UPDATE

ADJOURNMENT

The next Regional Transit Technical Advisory Committee meeting is tentatively scheduled for Wednesday, October 30, 2013, at the SCAG's San Bernardino Office.



^{*} Attachment under separate cover

Regional Transit Technical Advisory Committee (RTTAC)

of the

Southern California Association of Governments

May 29, 2013

Minutes

THE FOLLOWING MINUTES ARE A SUMMARY OF ACTIONS TAKEN BY THE REGIONAL TRANSIT TECHNICAL ADVISORY COMMITTEE (RTTAC). AN AUDIO RECORDING OF THE MEETING IS AVAILABLE FOR LISTENING IN SCAG'S OFFICE.

The Regional Transit Technical Advisory Committee held its meeting at SCAG's office in downtown Los Angeles. The meeting was called to order by Wayne Wassell, Chair.

Members Present:

Wayne A. Wassell (Chair) MTA
Karen Sakoda Metrolink
Vic Kamhi VCTC

Video Conference:

Kevin Kane Victor Valley Transit

Jeremiah Bryant Omni Trans

David Salgado Imperial Valley Transit Commission

Gordon Robinson Riverside Transit Agency

SCAG Staff:

Stephen Fox Matthew Gleason Philip Law

1.0 CALL TO ORDER

Wayne Wassell, Chair, called the meeting to order at 2:04 p.m.

2.0 PUBLIC COMMENT PERIOD

No member of the public requested to make a comment.

2.1 Review and Prioritize Agenda Items

There was no prioritization of the agenda.

3.0 CONSENT CALENDAR

3.1 Approval Items

3.1.1 Minutes of the January 23, 2013 Regional Transit TAC Meeting

The Consent Calendar was approved by voice consensus.

4.0 <u>INFORMATION ITEMS</u>

4.1 <u>RTTAC Charter Update</u>

Matt Gleason, SCAG Staff, stated at the January 23rd meeting items pertaining to the modification of the committee charter was presented. There was discussion and the committee instructed staff to work with Chair Wassell to incorporate these charter modifications.

Chair Wassell, stated two changes to the Charter are proposed. The first involves expanding the qualifications for the role of Chairperson. Previously it was indicated that only members of a county transportation commission or transit operator could serve as chair. The proposed change removes that restriction. Mr. Wassell stated the second revision involves modifying language regarding meeting frequency to state the committee will meet on an ad hoc basis for the duration of the current RTP/SCS cycle without indicating a specific cycle year which requires constant updating.

By group consensus the revised Charter amendments were accepted by the committee.

5.0 <u>INFORMATION ITEMS</u>

5.1 Ventura County Transit Update

Vic Kamhi, Ventura County Transportation Commission, provided an update on Ventura County Transit and the Countywide Transit Plan. Mr. Kamhi stated Ventura County though a smaller regional county of 800,000 has 6 municipal transit providers and 3 multi-agency providers with significant overlap in services. It was noted the transit operators uniformly use the GoVentura Smartcard and a universal transfer system, however, the different transit providers operate different service hours, require different fares and there's differences in the definitions of a senior rider. Mr. Kamhi stated the Countywide Transit Plan emerged from the enactment of SB 716 which encouraged Ventura County to prepare a comprehensive transit plan and that Ventura County use all of its Transportation Development Act funds for transit and no longer for street and road purposes beginning July 1, 2014.

Mr. Kamhi stated a plan was developed over a two year period which involved countywide focus groups and meetings with transit operators and citizens committees. It was recommended that a full consolidation of transit services in Ventura County take place. Alternatively, a Managers Plan was put forth and adopted by VCTC. The Managers Plan called for much of the

current transit structure to remain and for the legislature to repeal SB 716 as it affected Ventura County.

The Countywide Transit plan calls for Gold Coast to continue its effort to become a transit district. Also, efforts to develop a MOA and service plan between the east county cities should continue. And that a Transit Service Plan for the Heritage Valley progress with the creation of a new agency to provide transit services. Additionally, a clarification of VCTC's role is to be examined.

Mr. Kamhi noted the current outlook is for the creation of three transit districts. Gold Coast would serve Oxnard, Ventura, Port Hueneme, Ojai and unincorporated County. In the East County Camarillo, Moorpark, Simi Valley and Thousand Oaks will continue to operate their own services. Thirdly, the Heritage Valley would seek the creation of a JPA to provide fixed route and demand responsive service for Fillmore, Santa Paula and the unincorporated area of Piru.

5.2 Clean Cities Data Collection Efforts

Matt Horton, SCAG Staff, provided an update on Clean Cities data collection efforts. Mr. Horton stated he coordinates the Clean Cities program and current efforts involve surveying and data collection from member cities. Mr. Horton noted the current year's preliminary results show a reduction of approximately 45 million gallons of gasoline usage regionally along with the reduction of 126 million tons of greenhouse gas emissions. Mr. Horton noted these totals are down compared to the previous year which is largely attributed to a change in the DOE's calculation of the metrics.

Mr. Horton noted a certified report is anticipated late Summer or early Fall of 2013.

5.3 SCAG Transit Level of Service Data Collection Efforts

Yongping Zhang, SCAG Staff, presented an update on SCAG transit level of service data collection efforts. Mr. Zhang stated he is SCAG's Project Manager for this effort. This is the second data collection effort which follows the 2010 effort. Mr. Zhang noted the current effort for the 2016 RTP/SCS will use 2012 as the baseline year. Mr. Zhang introduced Steve Green, Ph.D. of AECOM.

Mr. Green stated this data collection is the first step toward a successful 2016 RTP/SCS modeling effort. The current effort involves compiling a data base of all transit services in the region's 6 counties in preparation for the

validation of the 2016 model. The types of data collected include transit boardings, fare data (pay per average rider) and route stops of every transit line in the region. Additionally, system wide performance measures are being collected that can be used for performance monitoring and reporting. Another goal is to create a GIS database of park and ride locations.

The system wide data being collected include total transit passengers, passenger miles, vehicle miles travelled, and cost per one-hundred thousand miles. This involves understanding route level data for each route operated by transit operators regionally. This includes boardings by route, stop locations and frequency of services. Mr. Green noted there are 79 fixed route transit operators in the SCAG region. Of these 79 fixed route operators some are JPO's, others are municipal agencies, 24 of them report to the national transit database and 58 are included in the Tripmaster Database maintained by Los Angeles Metropolitan Transit Authority.

The survey seeks information specific to each fixed route operator. Mr. Green noted 39 responses have been received and efforts continue to receive data from each operator.

5.4 System Performance Report Update

Matt Gleason, SCAG Staff, presented an update FY 10-11 Transit System Performance Report. Mr. Gleason stated a draft of the report has been distributed to committee members. It was further noted MAP-21 includes provisions that may shift toward more frequent performance measurement particularly for the FTIP. Mr. Gleason stated the region is diverse with nearly 100 transit providers. Additionally, for the FY 10-11 Transit Performance Report there are four key goals. The first examines a framework for understanding transit investments issues. These include mobility, governance, and a section on service provision and consumption in the region.

The next goal seeks to create a resource for policy makers by detailing investments and returns as well as planning for operations. Also, to provide a benchmarking resource for operators as well as integrating current and foreseen MAP-21 provisions. Mr. Gleason noted the report is organized in four sections. The first covers public transportation in the SCAG Region which examines issues of governance, transit's role in providing mobility and sub-modes. The second reviews transit system performance. The third section looks at transit performance at the regional level. The fourth reviews the performance of the individual transit operators in the region.

Mr. Gleason reviewed the preliminary findings including total trips by mode, journey to work data, zero car households in the region and service provision and consumption in the region. Further, regional ridership trends were reviewed including per capita transit trips and passenger miles as well as regional financial performance. Submodal shares were examined indicating a growth in rail transit service since 1991.

Other data examines operating cost per revenue hour, farebox recovery and cost per passenger trip. Also, fleet vehicle age and average vehicle speeds were examined.

Mr. Gleason stated comments will be received regarding the draft until June 28, 2013 and it is anticipated a final report will be completed in July 2013. These findings will be incorporated in the 2016 RTP/SCS.

ADJOURNMENT

The meeting adjourned at 3:12 p.m. The next meeting of the Regional Transit Technical Advisory Committee is August 21, 2013.

FEDERAL TRANSIT ADMINISTRATION

MAP-21

Moving Ahead for Progress in the 21st Century

Transforming the Way we Build, Manage, and Maintain our Nation's Transit Systems



U.S. Department of Transportation

Federal Transit Administration

Overview of Presentation

- MAP-21 Authorization Overview
- FY 2013 Apportionment Notice
- Key Provisions and Interim Guidance
- Planning and Environment
- Fixed Guideway Capital Investment Program (Sec. 5309)
- Formula Grant Programs (Sec. 5307, 5310,5311,5337,5339)
- Research Programs
- Next Steps Future Implementation
- O&A



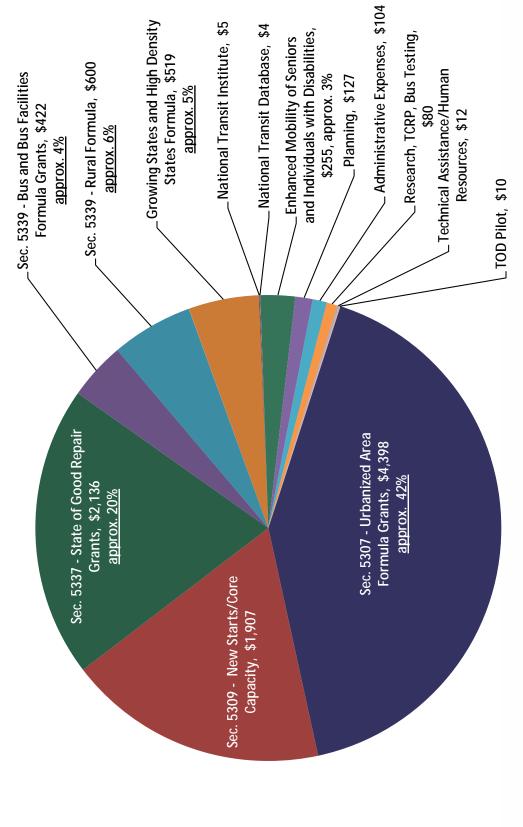
Authorization: Moving Ahead for Progress in the 21st Century Act (MAP-21)

- Replaces SAFETEA-LU.
- Signed into law by President Obama on July 6, 2012
- Effective October 1, 2012 (start FY13)
- Authorizes programs for two years, through September 30, 2014 (end FY14)
- Program requirement changes
- Formula fund calculation methodology changes



MAP-21 Authorized Funding

FY 2013 Authorized Funding = \$10.578 Billion



FY 2013 Apportionment Notice (issued Oct. 16, 2012)

Organized by 5 Sections:

. Overview

FY 2013 Funding for FTA Programs

MAP-21 Highlighted Changes

Program-Specific Information (interim guidance)

FTA Policy and Procedures for FY 2013

Grant



Overview

- Consolidated and Further Continuing Appropriations Act, 2013 Apportions funds pursuant to continuing resolution. The (signed April 1, 2013) provides the FY13 fund balance.
- Provides Interim Guidance for new and revised programs authorized by MAP-21, preceding revisions to FTA Circulars (posted at www.fta.dot.gov/circulars)
- Describes future plans for MAP-21 implementation
- Includes information for available Carryover/Unobligated **Discretionary Funding**
- Oversight takedown percentages



MAP-21 and FY 2013 Appropriations: Highlights of Changes

MAP-21 Focus Areas

Efficiency, Formula and Discretionary Funding, and Impacts of the 2010 Census Safety, State of Good Repair, Asset Management, Streamlining and Program areas on Formula Funding

Definitional Changes and New Definitions

- Bus Rapid Transit
- Fixed Guideway
- Public Transportation
- Job Access and Reverse Commute Project

Repealed and Consolidated Programs

- Repealed: Sec. 5316 (JARC), 5317 (New Freedom), 5308 (Clean Fuels) 5309 (Bus Earmarks), OTRB program, 5320 (Transit in Parks).
- Sec. 5309 Fixed Guideway program transferred to Sec. 5337



Highlights of Changes (continued) MAP-21 and FY 2013 Appropriations:

Cross-Cutting Requirements under MAP-21

- Several subject to rule-making -- not in effect immediately
- Agency Safety Plans: all grantees must have safety plans. FTA must define State of Good Repair and related requirements for capital assets.
- Transit Asset Management (TAM): all grantees must have TAM Plans. Small agencies may be able to defer to state plans. FTA must define TAM and related requirements.
- Cost Share for vehicles in compliance with ADA or CAA now 85%
- Length of options extended for Rail Car Procurements: 7 years

Title 23 Programs – FHWA Transfers

- and which FTA program funds under MAP-21 are eligible to transfer to FHWA Describes the eligible programs, how to accomplish a transfer, matching share,
- Flexible funding transfers from Title 23 option for transit, but not highways.



Planning and Environmental

- Transit representation on MPO boards in regions of 200,000 population or more
- Performance measures and targets in Long Range Plans and Transportation Improvement Programs (TIPs)
- Accelerate project delivery and promote innovation while enhancing safety and protecting the environment
- Expanded NEPA Categorical Exclusions
- New Starts process
- Public Private Partnerships



Program-Specific Information

- **Authorized Amounts**
- FY 2013 Funding Availability
- Basis for Formula Apportionment / Allocating funds
- Requirements
- Period of Availability (lapse dates)
- Other Program Information or Changes



(a.k.a. New Starts, Small Starts, Core Capacity) Fixed Guideway Capital Investment Programs

- Eligible projects
- New and Small Starts dollar thresholds the same
- BRT on HOV no longer eligible as fixed guideway project
- Core capacity included
- Changes to steps in the process noted
- Pre-Award Authority
- LONP process
- Final Rule published January 2013
- Guidance published August 2013



Section 5307 Urbanized Area Formula Program

- Formula Changes
- 2010 Census Changes incorporated
- Ferry Boat Discretionary Program
- Job Access and Reverse Commute eligibility
- New and Maintenance projects are eligible
- Operating Assistance Special Rule for areas over 200,000
- Expanded Local Match
- Period of Availability extended to 6 years (year of apportionment plus 5 years)



Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities

- Apportionments for and to Urbanized Areas
- Designated Recipients needed in large Urbanized Areas
- Coordinated Planning Requirement ("included in")
- Traditional Sec. 5310 Capital and Operating projects (55% minimum)
- New Freedom-type projects are eligible (45% maximum)
- State/Program Management Plans
- Period of availability: year of apportionment plus 2 years.
- Draft Circular 9070.1G published July 11, 2013.

Section 5337 State of Good Repair Program (formerly the Fixed Guideway Modernization Program)

- New Formula and New Formula Tiers
- Two Tiers; High Intensity Fixed Guideway and High Intensity **Motor Bus**
- New Definition of Fixed Guideway Project; HOV excluded
- Apportionments to areas with fixed guideway systems in operations for 7 years or more
- Eligibility changes to solely repair and replace
- Period of availability: year of appropriation plus 3 years.

Section 5339 Bus and Bus Facilities Program

- Capital Formula Program
- National Distribution Amount States and Territories
- Apportionments to large urbanized areas and to the State for small urbanized areas
- Urbanized Area: designated / direct recipient is the Sec. 5307 program designated recipient
- national distribution amount and the small urbanized area amounts Small Urbanized / Rural Areas: states administer for all areas under 200,000 and have flexibility on where to use funds under the
- Period of availability: year of apportionment plus 3 years.



Key Provisions and Interim Guidance

Research, Technical Assistance and Workforce Programs

- New MAP-21 categories include:
- Research, Development, Demonstration, and Deployment
- Upcoming NOFA for Low or No Emissions Vehicle **Deployment Program**
- Technical Assistance and Standards
- Transit Oriented Development / Consolidated Planning
- Emergency Relief



FY 2013 Apportionment Notice

V. FTA Policy and Procedures for FY 2013 Grants

- Civil Rights: Revised Title VI Circular and due dates for program submissions
- Grant Application Procedures
- Separate grants required for new programs
- Documentation may be necessary for new designated recipients under certain programs
- Supplemental Agreement
- Grant Management: Grant Reporting and expectations for reasonable progress



Next Steps - Future Implementation

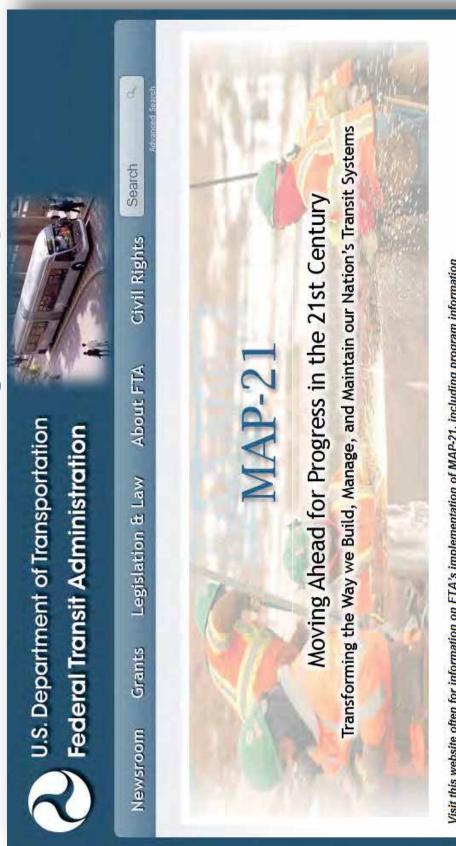
- Webinars & Stakeholder Meetings/Conferences
- Frequently Asked Questions
- Tribal Consultation
- Program Circular Revisions

- Rulemakings
- Performance Measures
- Safety
- Asset Management
- NEPA
- Notice and Comment



FTA MAP-21 Website

www.fta.dot.gov/map21



Visit this website often for information on FTA's implementation of MAP-21, including program information and guidance for grantees.

Sign up for email updates on this topic.

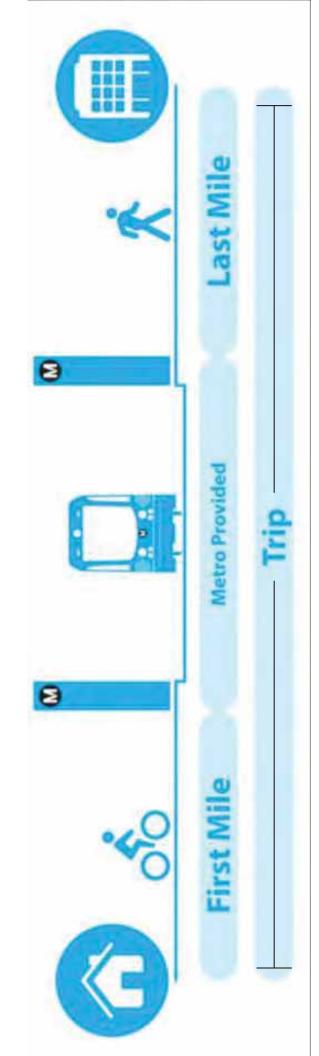






Meeting Agenda:

- 1) Review Project Status & Schedule
- 2) Present Planning Guidelines Structure & Content
- Focus on Path Components and Illustrations
- 3) Discussion





Project Status:

- Project TAC #4 August 6th 2013 Last Project TAC Meeting
- TAC Meeting #3 May 21st 2013 Presentation to Ad Hoc Sustainability Committee June 26th 2013
- Presentation to Streets and Freeways TAC July 18th 2013
- Presentation to Metro TAC July 24th 2013
- Project TAC Meeting #4 August 6th 2013 Today

Next Steps

Issue Planning Guidelines for Project TAC Review







Metro Path Planning Guidelines

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-	INTRODUCTION	O
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es	NETWORK IDENTIFICATION, DESIGN, AND IMPLEMENTATION	17
4	PATH COMPONENTS	25
ın	ILLUSTRATIONS	25



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Metro First-Last Mile Strategic Goals

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- model, green and prost Build on the ATPISCO & Countywise Systematic

INTRODUCTION



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First-Last Mile Strategic Planning

ion type services that have the core of a public hand make Public tansportation approve holically provide bus, rail and take a train, or in many cases combine a number of modes. An extendability to a understood on the erities paymen that sortpete ther journey, they may walk, other, tolera bidgines, You have seen much complete. The first send likely portion on their seen they much find walls, their or not it have select to rdista new tyr terpoprit to beforin An indeletas may utilize a number of modes of transport to

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First Mile

Last Mile

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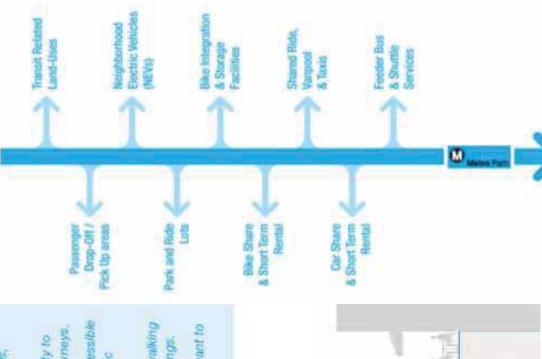
Metro Path Guiding Design Principles

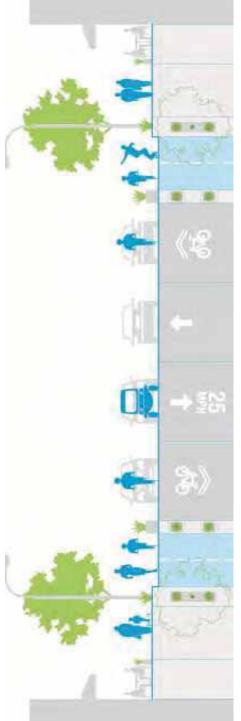
The following attributes define the Metro Path and provide a basis for design;

The Path is Safe - Safety is a key concern, and is supported by protected facilities, improved street crossings, strategic lighting and vehicular speed miligation.

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- navigate to and from destinations is assisted by way-finding strategies that support seamless multi-modal journeys The Path is Intuitive - Traveling along the Path is an extension of the transit user's experience, and their ability to
- The Path is Universally Accessible The Path supports all modes of active transportation and remains accessible to individuals dependent on mobility support devices - from white-cares to wheeled push walkers and electric mobility scoolers.
- The Path is Efficient Greater distances are traveled in a given amount of time along the Path. Rolling and walking surfaces are smooth and free of obstacles, routes are direct, and signals reduce wailing times at street crossings.
 - The Path is Fun People opt out of cars, and hop on spooters, skateboards and blkes to get to where they want to go, save money, burn calories and along the way, have fun.







Planning Guidelines - Introduction



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36.8% of all traffic fatalities between 1994 & 2000 in L.A. (LADOT) Pedestrian fatalities represented



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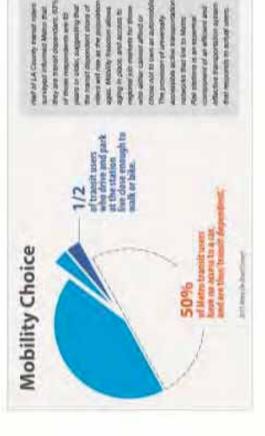
PATH USERS

Who Uses The Path?

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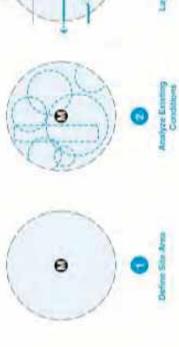
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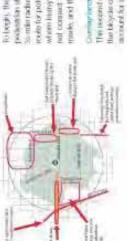


1. Define Site Area

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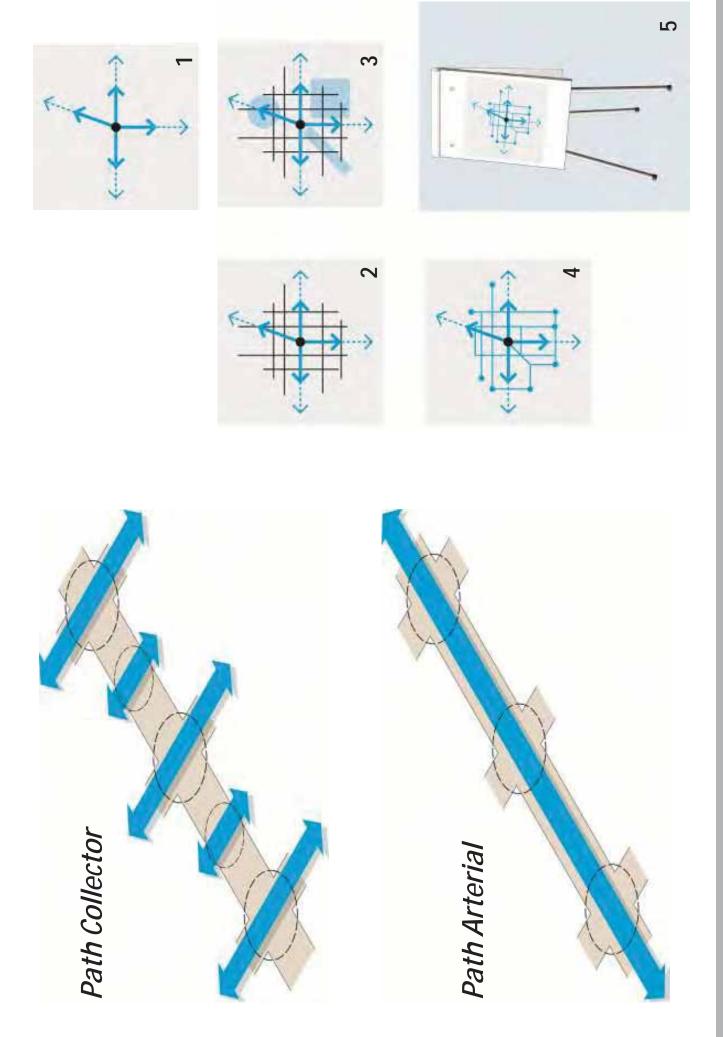
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Critical Access Barriers in Los Angeles

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PATH COMPONENTS

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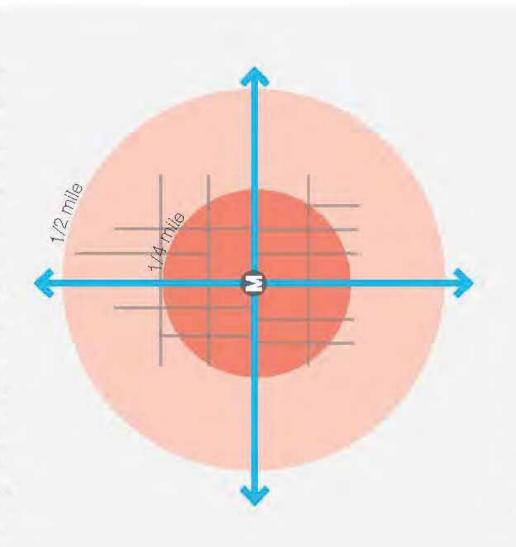
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Metro Station



Metro Path Collector Metro Path Arterial



EXTENDED STATION ZONE (AREA 1)

5-Minute Walk / 2-Minute Bike

- Metro Path is more visible
- Enhanced safety features
- Larger, more prominent Metro Path signage
 - Directional markers with time-tostation signage
- Frequent crossings
- Train time arrival/departure digital displays

TRANSIT-FRIENDLY ZONE AREA 2)

10-Minute Walk / 5-Minute Bike

- Less overt, more passive
- Address the most pressing safety & wayfinding & Metro Path markers access improvements, such as:
- New crossings
- Curb ramps
- Maintenance
- Lighting & landscaping





Metro Path Components

Metro Path Components include:

Crossing Enhancements and Connections

- Enhancement of existing crossings
- Mid-block and additional crossings
- Raised crossings
- Cut-throughs and shortcuts
- Curb extensions at intersections
- Scramble crossings

Signage and Wayfinding

- Pylon signage
- Medallion signage
- Curb-edge banding
- Time-to-station notation
- Real-time signage, next train/bus
- Smart technologies

Traffic Calming

- Signal modification
- Other traffic calming

Dignity and Design

- Street furniture
- Landscaping / shade
- Lighting
- Enhanced freeway underpasses / overpasses
- Enhanced bus waiting areas
- Dual curb ramps

Re-Allocation of the Streetspace

- The "Green Zone"
- Sidewalk widening
- The "Rolling Lane"

Integrated Transit Access Solutions

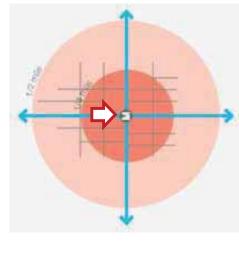
- Bike share / Bike station
- Car share
- Neighborhood Electric Vehicles (NEVs)
- Kiss and Ride
- Micro Park and Ride
- Van pool / feeder bus



Path Components – Extended Station Zone

EXAMPLE METRO PATH COMPONENTS Extended Station Zone

- Metro Station Portal and Plaza
- Pylon Signage with Real-Time Transit
- Colored Scramble Crossings
- Advisory Bike Lane (see "Rolling Lane")
- "Green Zone" and Kiss-and-Ride
- Bike Share / Bike Station
- Bulb-outs at Intersections
- Enhanced Bus Facilities







Path Components – Transit Friendly Zone



Path Components – Mid-Block Crossing



How to Use this Guide

 CROSSINGS AND CONNECTIONS Component Approprieta Milder state Vall pull beings are tell-treathered, over it. Haptarly (facts by cold Matro modality) alpanants Handrid by the middle of Pechtons, design streetest that the yeal thanked, Nath, stiffer, and bedeating the Men Pull disagn of orderence well decrease Design streetest pettin with special polytics, Spritted. healgo strated paths to accommodate targeties. Unit Shoeffeed highsign to the additive of settingen as, overy 66-100 it applicaand becalied in Specialis Wards, y descrip, i.o. plantes Provide mide dheid realise tu and fryor the relation transplance, and shacks so that they are indicate. coeffect fluid transit for a, missibilities in considerg for constant in efficiently with polynois and inmode to their Matheta and the authority of the act and addition and other action framewhalen users with a (solutions of virying ages and deliber For Use On: Attend Quidelines & Resources Metro Path Integration Cut-Throughs and Brook with droit Station Access Barriers the bodies of the Lin of Francisco Shortcuts Chrystonia the ring Addressed: Gonth six categories; Crossing Ermandements and Connections; Signage and Willyflinding; Dignity and Design; Hastlocation influence - Area 1, the "Extended Station Zone" or Area 2, Quitelines and Resources Defres the Component. Labels each Component with one of the Matro Path Network Compatibility Identifes which of the Strietspace, Integrated Transit Access Solutions. path type - whether Collector, Arterial, or Cut-Through -Guidalines presented focus on those aspects of design Metro Path Integration Identifies elements that can Describes What the Component should aim to the Component should go, along with which sphere of standards or common bast practices. References are included for other design and planning guidance. See of the Metro Path, which would be recognizable to the rather than describing the full universe of good design be used to identify or "brand" the Comportent as part and plarying that are perticularly transit-supportive. the end of this chapter for a full list of references. Component Name of Component. do and who It should serve. the "transit Friendly Zone." and Traffe Calming. transit rider. Catogory Good



Component Presentation in Guidelines

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dentify which problem(s) if helps solve.

Issues Addressed Shows Yow the Component

Additional

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RE-ALLOCATION OF THE STREETSPACE

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Case Study] Rolling Lanes

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chose to stow "unusidity wide social cycle poets" to accommutate a work range of mers. Additionally Dispute misements dayse traffic moves to the left while slower taffic shifts to the righty designent The proposed program URIDER action certaints in information factivities by incorporating speed Children the hatural, yethorganizing fancionity of detecting again that direct users to shift lanes depotent on their indepondent speeds.

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Copenhagen has committed to the goal of providing conversation cycle routes, ultimatel encouraging riders of

influstracture and the Entertainment allocated #2 brillion



The Octob or the Necton Inchinition

all speeds and levels to embrace the city's cycling anes alongside 80% of heir already established

HET WITHOUT IN THE SERVICE CONTRACTOR

NTEGRATED TRANSIT ACCESS SOLUTIONS

Precedents] Integrated

Access Solutions

Van Pool &



- Increase connectivity to Wetro stations
- increase low-cost public transportation outroits, aspecially for commuters.
- Reduce Venice Mass of Travel (VMT) and Greenhouse GAS (GHG) emissions
- Reduce tights by decreasing the number of cars on the road

Guidelines & Resources

Prilly Cardhara, Philadachia, Fis

- Locate pickush / drop-off areas for van pool and feeder bus in the "Green Zone" or in another lighty-visible and
- Retroft existing feeder but stops and van pools with Meho Fath Signage

constrait boston

Resource See Emery Go-Round or LA DASH

Metro Path Integration

Use Metro Path signage at van pool / teachs but pick up / drop off locations and to and from these area as disctonal extentors to the station

Curbaco electric Variote charging station, Rentanol, OR



Station Access Barriers Addressed

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Component Appropriate

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2 Brainwersberschies

Pylon Signage



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 - Charles paths of time to status and to both Transfit station
 - destribithous
- Help triend the Metro Path with repetitive distrects Indefense orgitally of the urban landscapes

Guidelines & Resources

full selectopions

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- Use pylons that select to Metro's established family of
 - English that pylons are pediestrien scaled and offector.
- Use arrows and made on those ages to highlight station listation, segmen doublanton areas, and pulled
- Cosside the potential to stamp or stagil the Metro Watcommission the scioous
 - Resource Lingkie London; A Wightchra Sturb

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Station Access Barriers Addressed

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- HUN Aboston and Design Legith

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Component Appropriate For Use On:

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[Case Study] Legible London*

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- The reported number of pedestrians getting tost on a partner fall to 65%.
- 87% of users apport a full refloat of Legicle London Proteghout the Otlo

Legible London has also intraduced now avayandhy tods that horsess user legistry. Large key maps traditional fragmithents, and talke, namew posts a coordigate and by throad placed agrees, that are placed in heavily nongested areas.



uses. Treade-up" magaing, a system that objects maps to the other same may the use is laping.

Case Study] Active Lights"

DIGNITY AND DESIGN

NEW TWO FASTER IN

Lighting



Goals

home safety and act in ngs knaugation for white Hardward Lines along the Kerns Flats

ocoporates an LED lighting system that is motion activised to provide security and righting for those

the best using "Active Lights". The chigh-

articipasa by "Using solar acengy, this eyitlam is

sel-powered and extreme, cost effective."

Guidelines & Resources

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- and departe that other paths of travel for society Possib unitent lightle-et amy the admissiconstant light is not mended
 - transportation chars the also well-fit

Metro Path Integration

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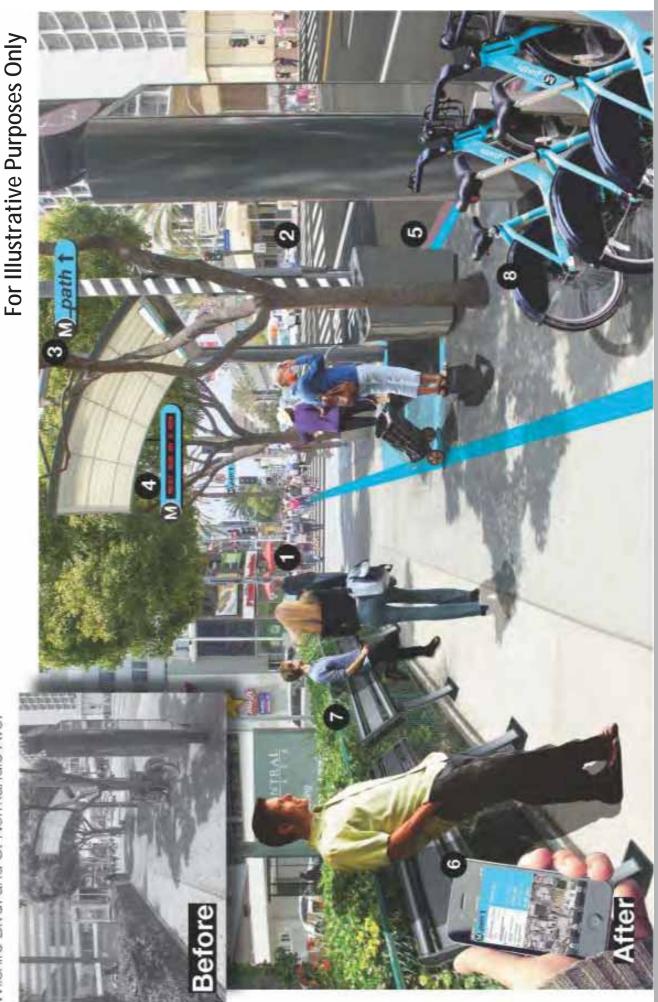
ighttime property-amage-only accidents. atal accidents, a 30 % ghts show a 65% eduction in nighttime eduction in nightlime Studies of the Active njury accidents, and 15 % reduction in

Mary Mary



Wilshire Normandie Station, Location 1

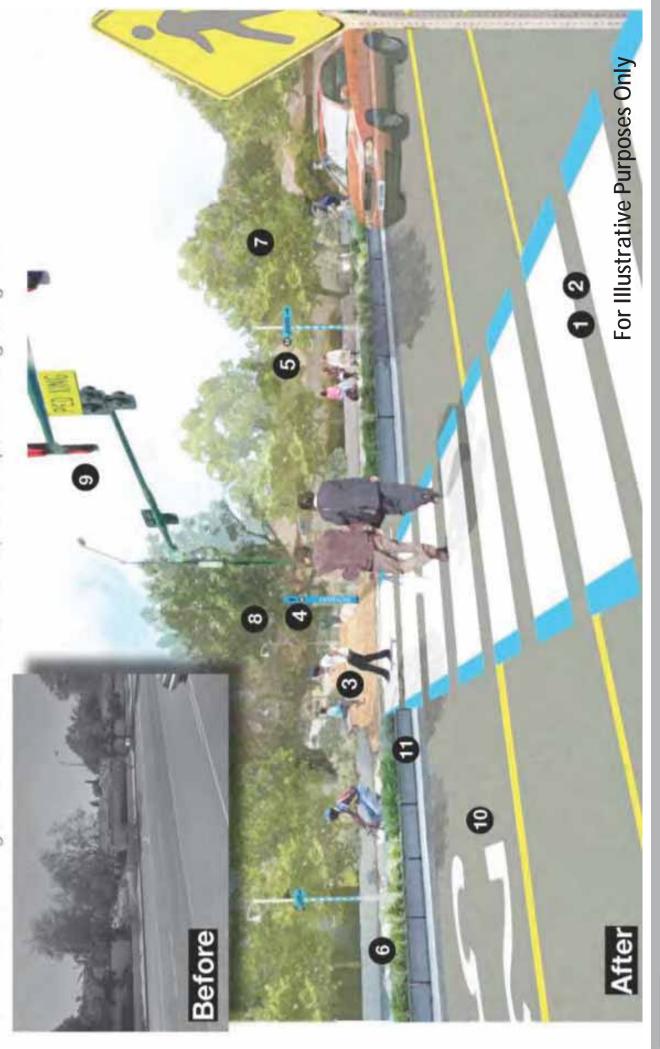
Wilshire Blvd. and S. Normandie Ave.





103rd/Watts Station, Location 1

103rd Place and Wilmington Avenue - More-intensive variation, vertical seperation along Rolling Lane





Wilshire Normandie Station, Location 2

8th St. and Fedora St.





North Hollywood Station, Location 2

Burbank Blvd, and Klump Ave.



For Illustrative Purposes Only



North Hollywood Station, Location 3

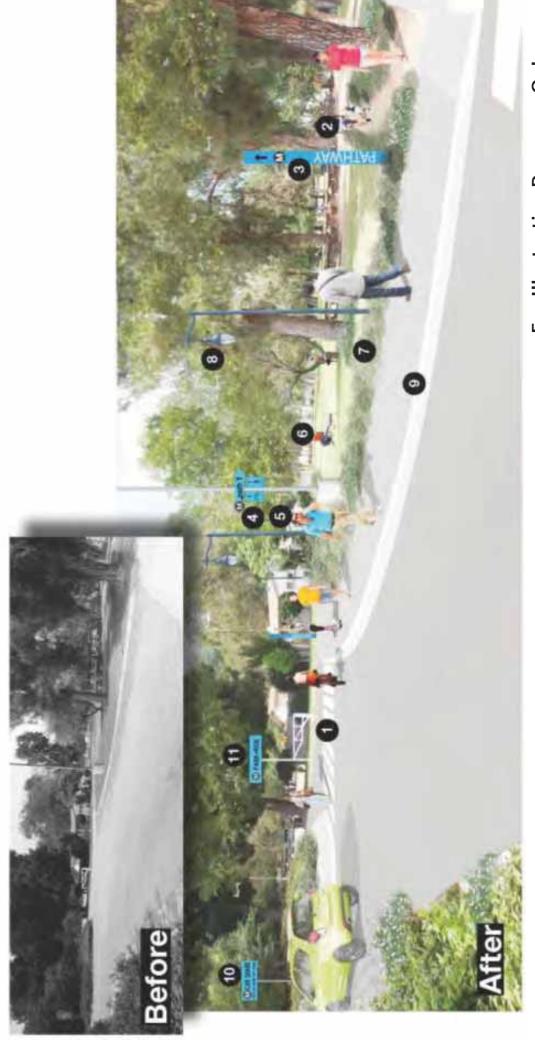
Magnolia Ave, Underpass





North Hollywood Station, Location 4

NoHo Park at Magnolia Avenue



For Illustrative Purposes Only



Discussion Points:

STRATEGIC PLAN

- **Partnering**
- Financing
- Policy Development
- Implementation
- Critical Path Components
- System vs. Local Approach (Consistent vs. Variable)
- Recommendations & Next Steps





Land Use Resource for Local SCAG's Map Book: Jurisdictions

Southern California Association of Governments Senior Regional Planner August 21, 2013 Kimberly Clark







Collection of Jurisdictional Level Land Use Maps

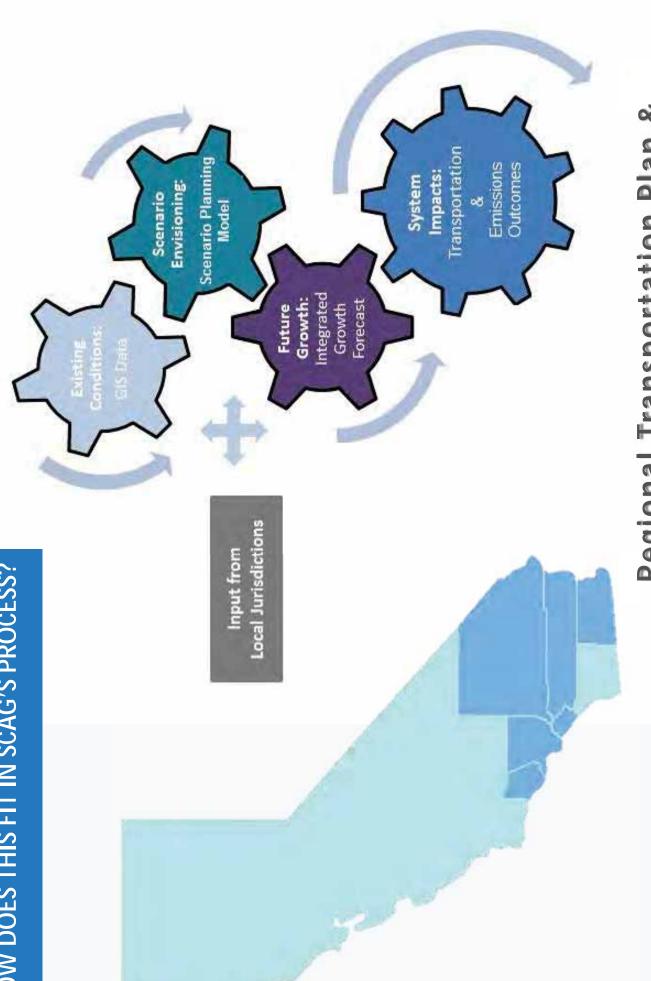
Information Resource for Local Jurisdictions

Tool to Solicit Input on SCAG's Datasets

Helps to Fulfill Land Use Information Considerations of SB 375 Individual Books are Available for Each Jurisdiction

Input is Requested by September 13th, 2013

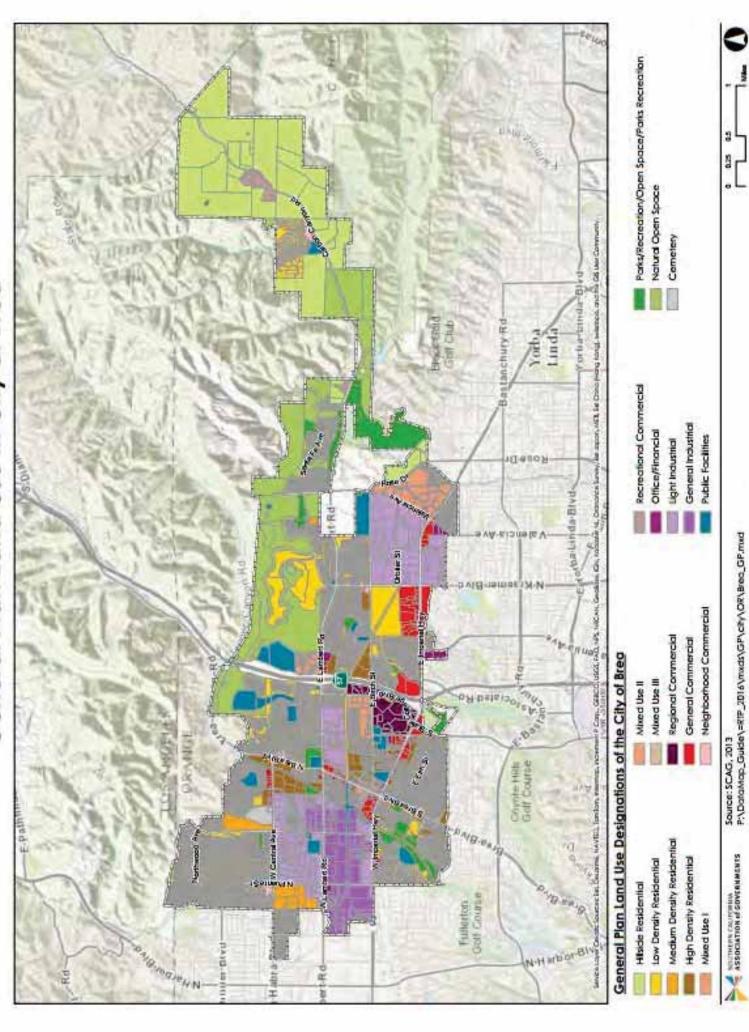




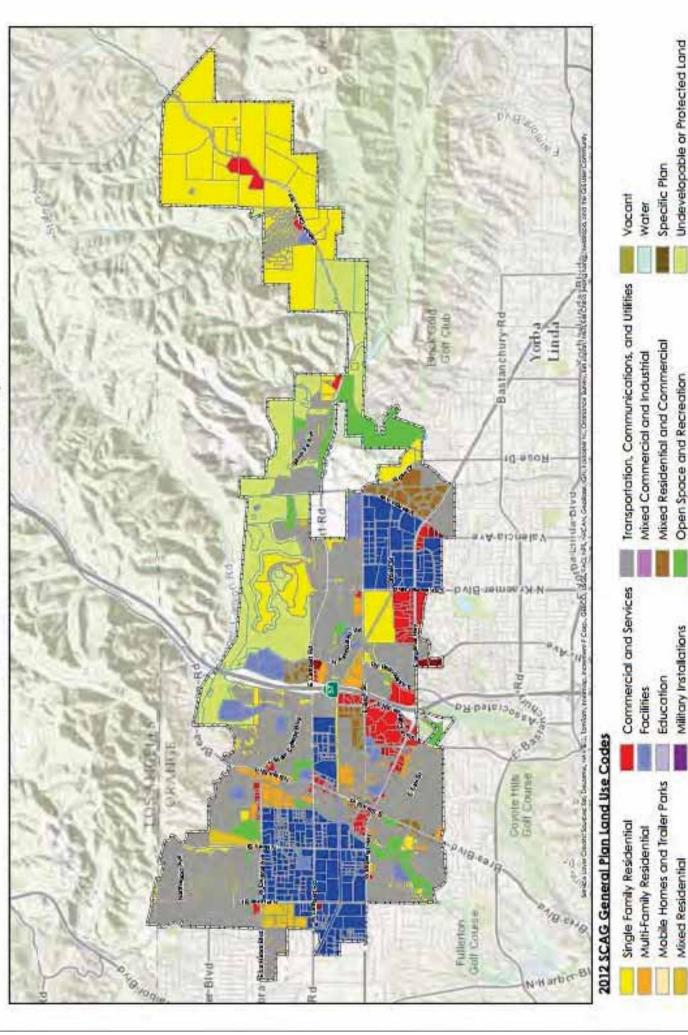
Sustainable Communities Strategy Regional Transportation Plan &

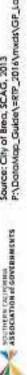


General Plan Land Use in City of Brea



General Plan Land Use in City of Brea







Agriculture

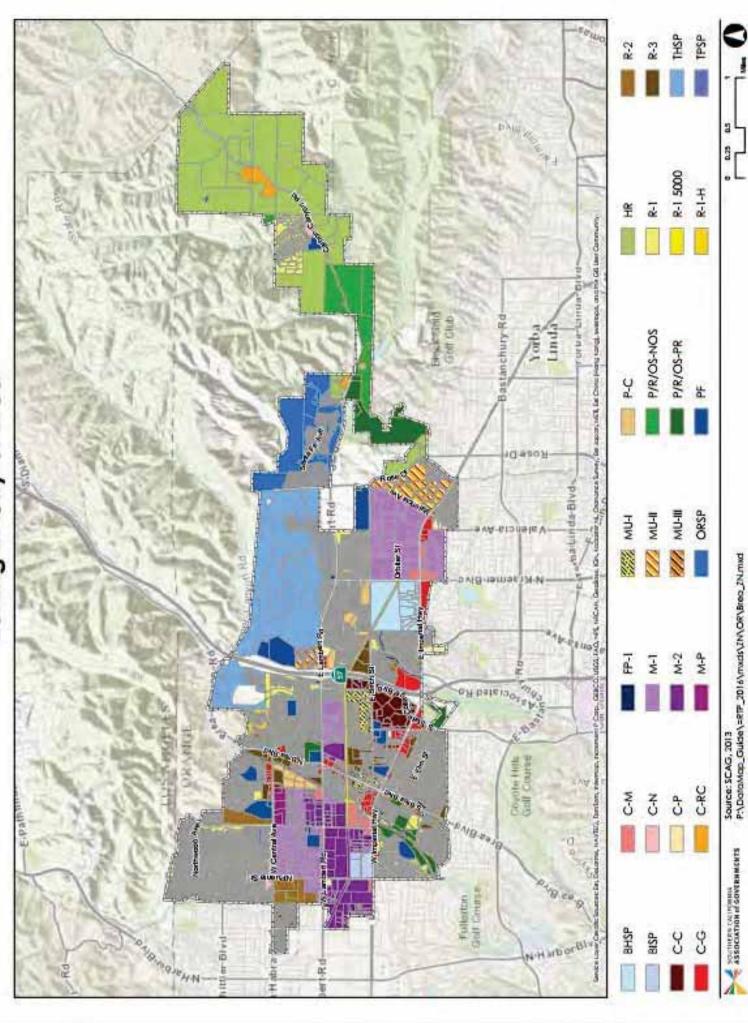
Industrial

General Office

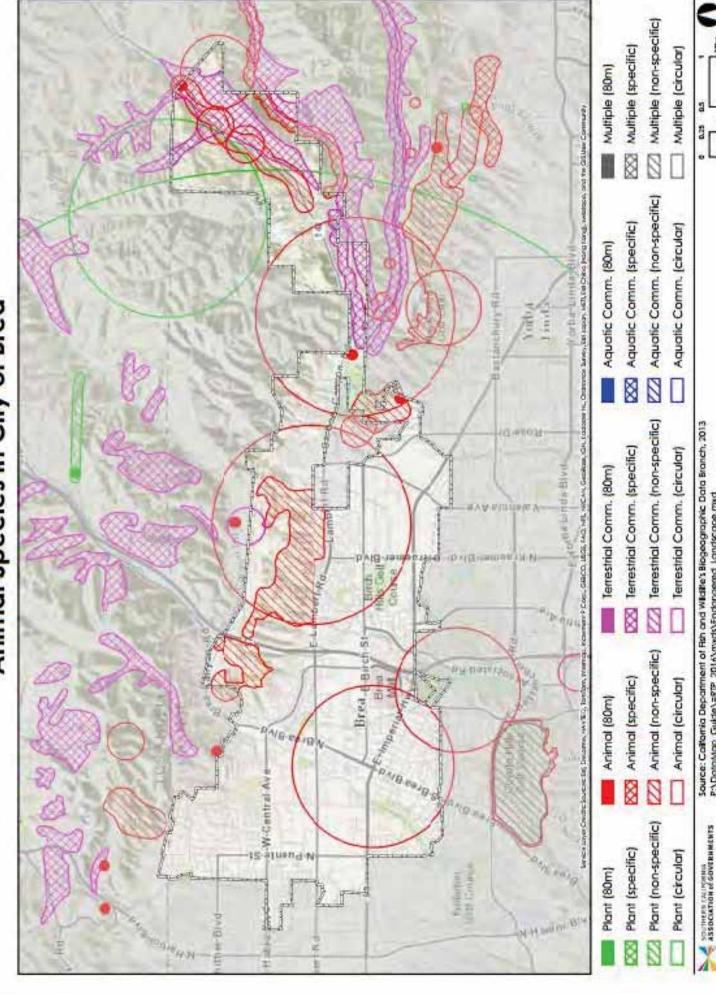


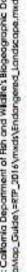
Unknown

Zoning in City of Brea



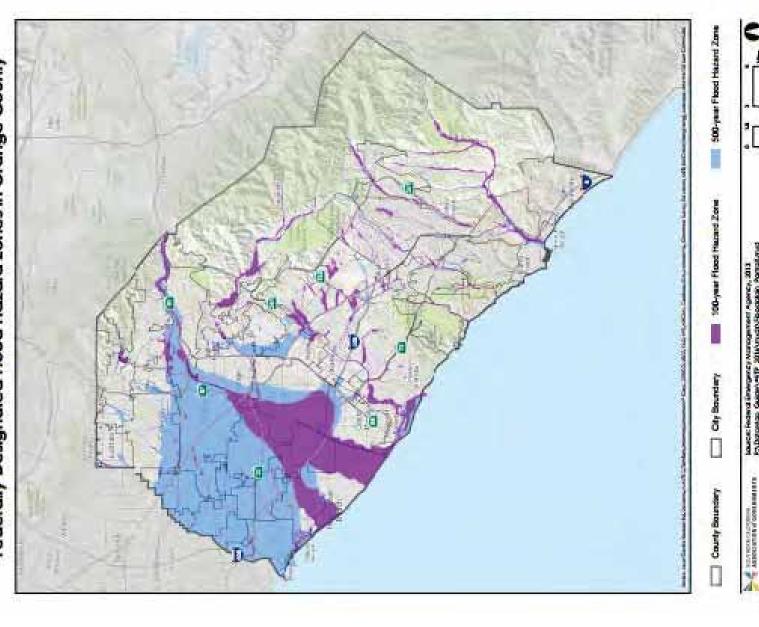
Known Sightings of Endangered, Threatened, and Rare Plant and Animal Species in City of Brea

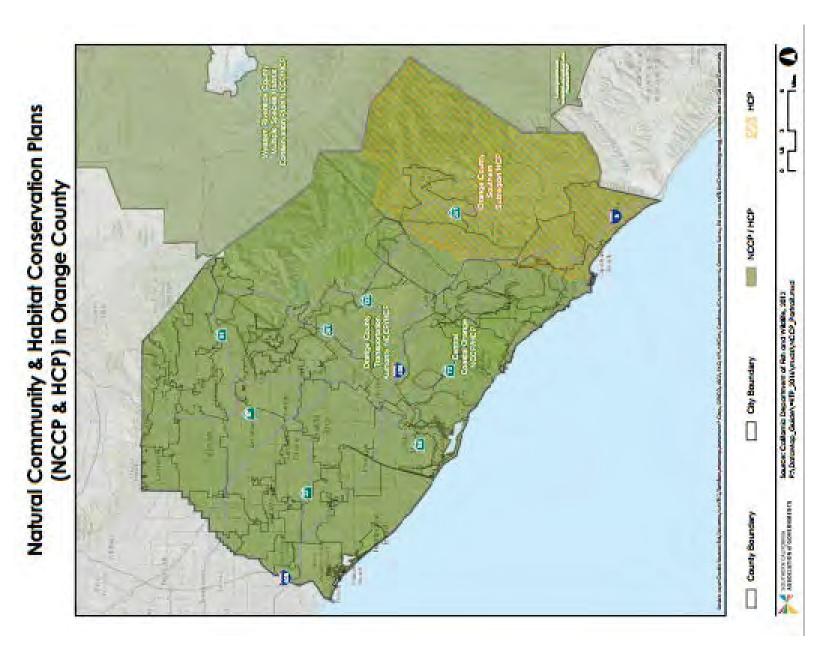




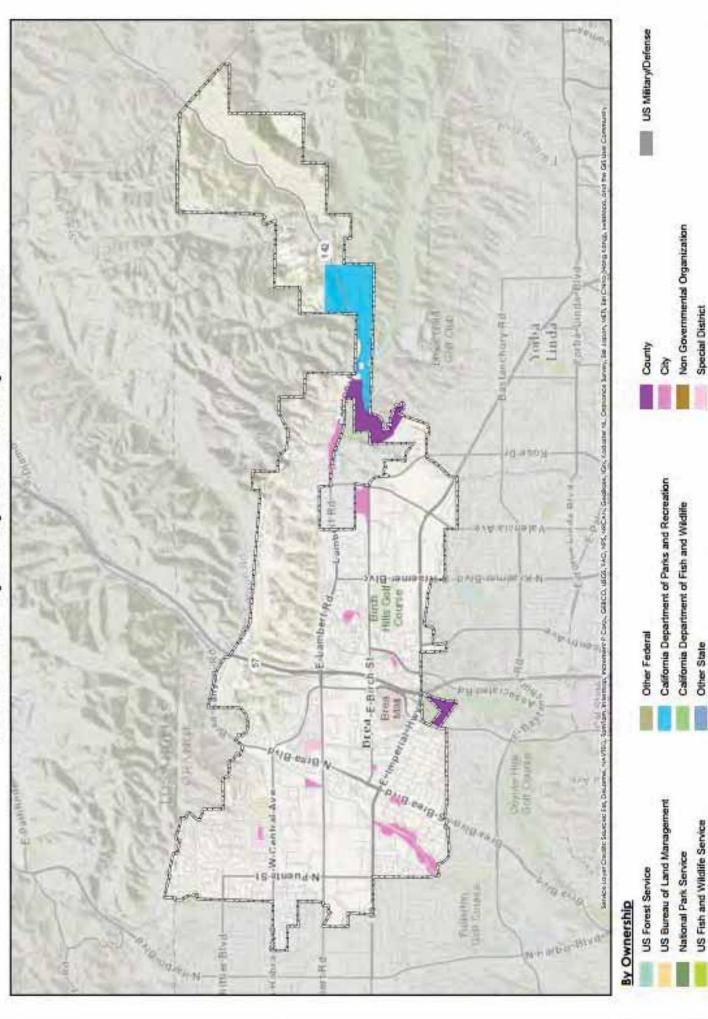


Federally Designated Flood Hazard Zones in Orange County





Protected Open Space in City of Brea



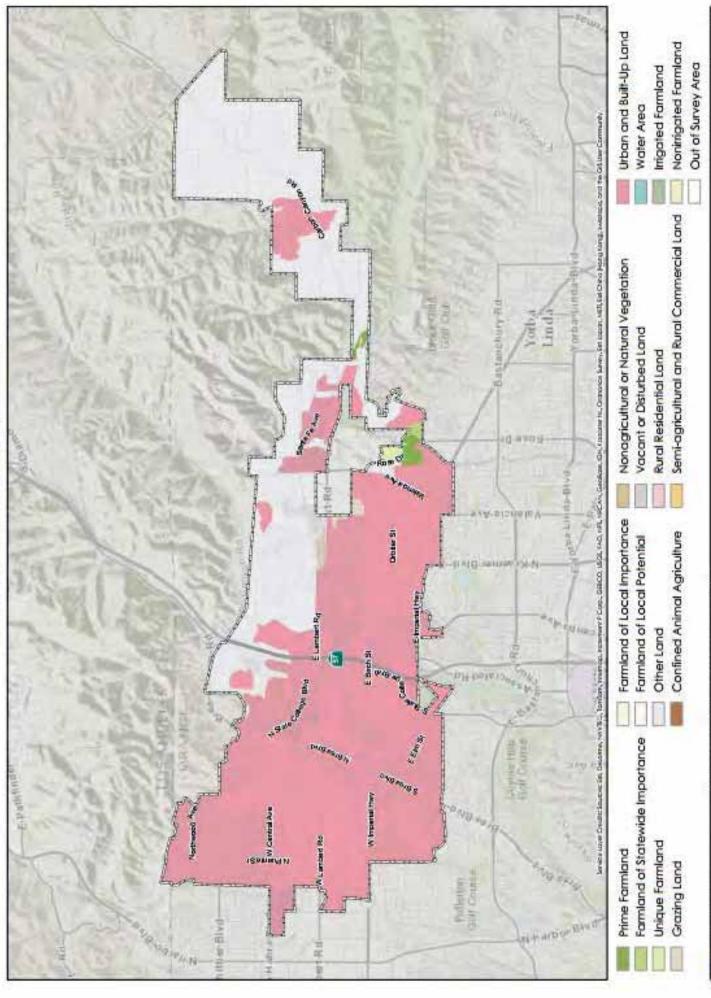


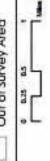
Source: Callonia Protected Areas Database (CPAD) Version 1.9, 2013 P:\DataMap_Guide\=8TP_2016\mydf\OS_Landscape.mxd



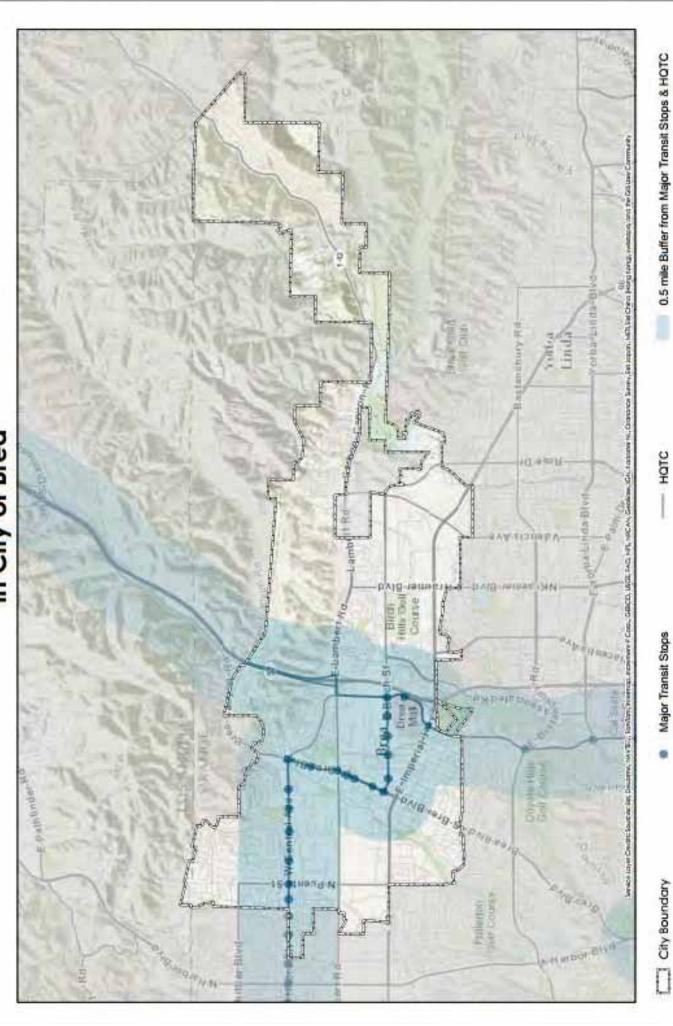
Special District

Farmland in City of Brea





Major Transit Stops & High-Quality Transit Corridor (HQTC) in City of Brea



Source: SCAG, 2013 P:\DarlaMap_Guide\=RIP_2016\mwds\IPP_Landscape.mxd

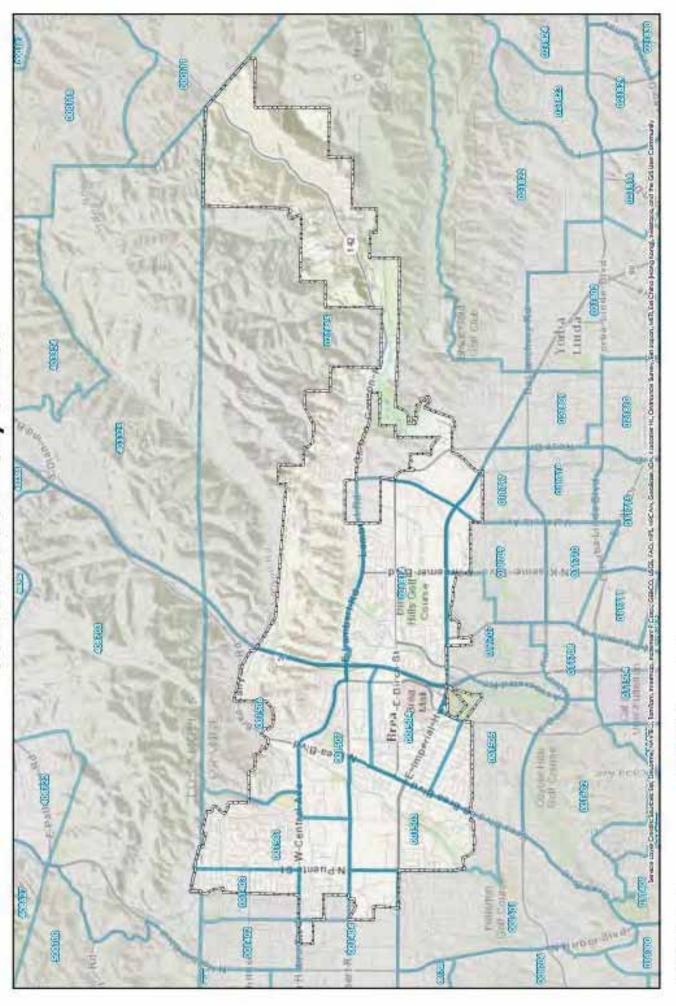




Sphere of Influence

City Boundary

Census Tracts in City of Brea



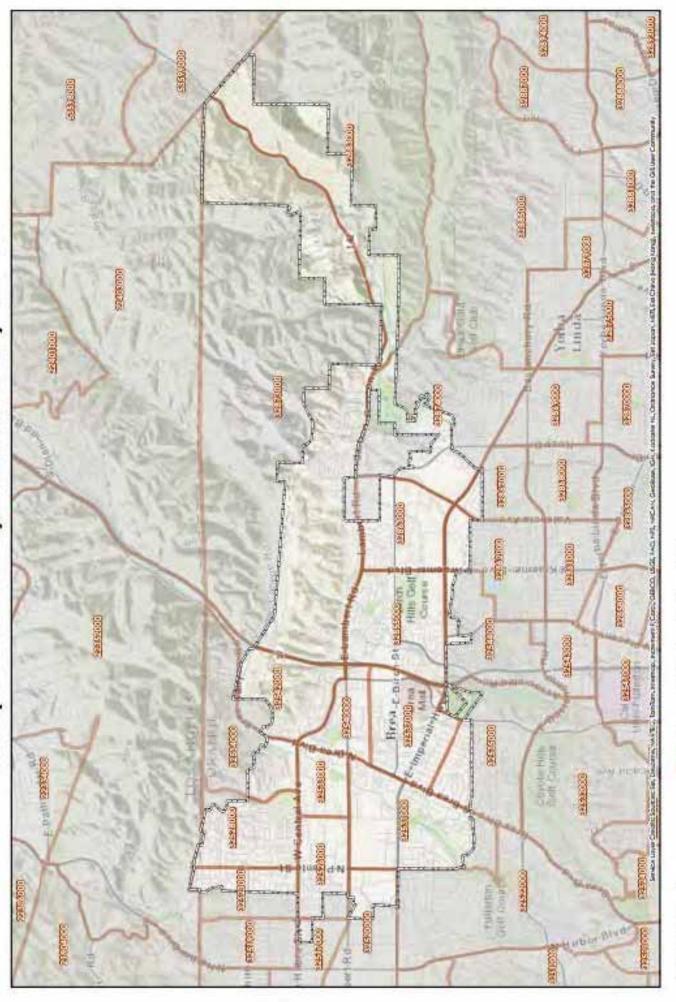




2010 Census Iracts

City Boundary

Transportation Analysis Zones in City of Brea



Source: SCAG, 2013 P:\DataMap_Gulde\=RP_2016\mwds\TAZ_Landscape.mkd

Transportation Analysis Zones (TAZ)

City Boundary

SOUTHERN CASHONIAN ASSOCIATION OF GOVERNMENTS

for questions, please contact THANK YOU

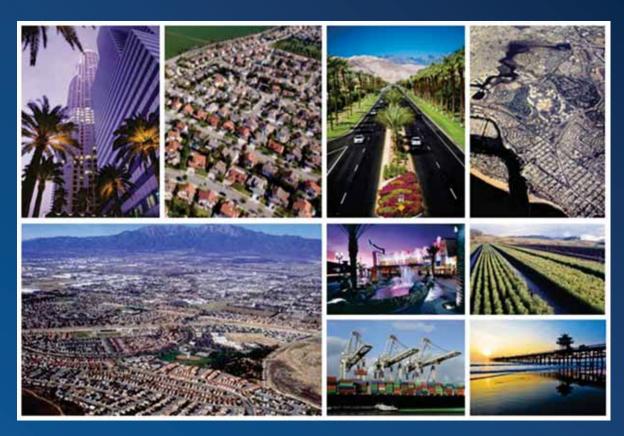
Kimberly Clark

Senior Regional Planner

clark@scag.ca.gov

213-236-1844





SCAG Map Book



for 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy (RTP/SCS) Development

City of Anaheim



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Acknowledgments	

Introduction

SB 375 (Steinberg), also known as California's Sustainable Communities Strategy and Climate Protection Act, is a state law that calls for the integration of transportation, land use, and housing planning and the reduction of greenhouse gas (GHG) emissions as one of the main goals for regional planning. Effective on January 1, 2009, the law requires SCAG as the Metropolitan Planning Organization, working together with subregional council of governments and the county transportation commission, to prepare a Sustainable Communities Strategy (SCS) as part of the Regional Transportation Plan (RTP) (or an Alternative Planning Strategy (APS), if necessary). Also, SCAG is required to integrate planning processes to be consistent with the SCS. SB 375 also emphasizes a substantial public participation process involving all stakeholders.

To meet the requirements under SB 375, SCAG prepares and provides a set of GIS maps to subregions and local jurisdictions for their review. These GIS maps are identified in SB 375 as required to be considered in SCS development. It should be noted that all maps provided here are to initiate dialogue among stakeholders to address the requirements of SB 375 and its implementation. These maps are used to collect input and comments from subregions and local jurisdictions. Maps and datasets will be further reviewed and updated through local input process.

The list of GIS maps included in this book:

Land Use

General Plan

Zoning

Existing Land Use

Resource Areas & Farmland

Endangered Species and Plants

Flood areas

Natural Community & Habitat Conservation

Open Space and Parks

Farmland

Transit Priority Projects

Major Stops & High Quality Transit Corridors

Geographical boundaries

City Boundary & Sphere of Influence

Census Tract Boundary

Transportation Analysis Zone (TAZ) Boundary

The SCAG Map Book is designed to help local planners and those who are interested in SCAG's datasets better understand the sources, methodologies, and contents of each dataset. This document is prepared for each jurisdiction in the SCAG region.

This book begins with the brief descriptions of the datasets. This is followed by the GIS maps for each jurisdiction. Upon request, the maps can be provided in larger sizes for detailed review. SCAG may not be authorized to release certain datasets depending on the access/release constraints variously applied to each dataset.

For more information or to request data and/or maps, please contact Jung Seo at (213) 236-1861, or seo@scag.ca.gov.

Land Use

SCAG staff prepared four sets of land use maps at parcel level as follows:

- General plan land use based on city's/county's general plan codes
- General plan land use based on 2012 SCAG General Plan Land Use Codes
- Zoning
- Existing land use (2012)

The current version of the land use data reflect the local inputs received by June 30, 2013. It should be noted that the datasets will be further reviewed and updated through the local input process.

General Plan Land Use & Zoning

Beginning in March 2013, SCAG communicated with the local jurisdictions to collect the general plan and zoning information. Through the process of collecting general plan and zoning documents, SCAG staff made every effort to ensure the data reflects most current general plan and zoning adopted. The information included in this document reflects the local inputs received by June 30, 2013. SCAG continues to receive local input, and will incorporate them in the next phase.

The general plan and zoning documents, maps, and/or GIS shapefiles collected were coded into GIS shapefiles at parcel level. Parcel boundary data were acquired from Digital Map Product (*DMP*). General plan and zoning data are shown at a parcel level and in many areas accurately depict a local agency's adopted documents. However, the data shown in some areas may be generalized, because the parcel level database representing general plan does not support multiple uses or designations on a single parcel (either splitting the parcel or representing overlays). Due to this limitation, if site specific data is necessary, users should always reference a local agency's adopted documents or field surveys to determine actual land use designations.

At the jurisdiction level, both general plan land use and zoning maps are prepared with the consistent land use or zoning codes with those used in each local jurisdiction. In addition, another version of general plan land use map is prepared with SCAG's standardized General Plan codes. For detailed information on the standardized codes, please refer to <u>Table 1: 2012</u> SCAG General Plan Land Use Codes Table.

Existing Land Use (2012)

The base year of the 2016-2040 RTP/SCS is 2012. To develop the base year existing land use data, SCAG has used property land use information acquired from DMP and SCAG's 2008 existing land use data. Using a correspondence between DMP land use codes and 2012 SCAG Existing Land Use Codes, DMP land use codes were converted to SCAG's standardized Existing Land Use

code system. Anderson Land Use Classification was used as the standardized land use code system. For more detailed information on the land use code system, refer to <u>Table 2: 2012 SCAG Existing Land Use Codes Table</u>. It should be noted that the datasets will be further reviewed and updated through the local input process.

As noted in General Plan and Zoning, Existing Land Use data are shown at a parcel level and in many areas accurately depict the existing land use, but in some areas is generalized. Because the parcel level database representing existing land use does not support multiple uses or designations on a single parcel, the data shown may generalize the data and thus not accurately depict a local government's existing land use on the site. Due to this limitation, if site specific data is necessary, users should always reference a local agency's adopted documents or field surveys to determine actual land use designations.

Table 1: 2012 SCAG General Plan Land Use Codes - Legend

Legend	Land Use Description
Single Family Residential	1110 Single Family Residential
Multi-Family Residential	1120 Multi-Family Residential
Mobile Homes and Trailer Parks	1130 Mobile Homes and Trailer Parks
Mixed Residential	1140 Mixed Residential 1100 Residential
General Office	1210 General Office Use
Commercial and Services	1200 General Commercial 1220 Retail and Commercial and Services 1221 Regional Shopping Center 1230 Other Commercial 1233 Hotels and Motels
Facilities	1240 Public Facilities 1250 Special Use Facilities
Education	1260 Education – K-12 1265 Education – College
Military Installations	1270 Military Installations
Industrial	1300 General Industrial 1310 Light Industrial 1311 Light Manufacturing, Assembly, and Industrial Services 1320 Heavy Industrial 1321 Heavy Manufacturing 1340 Wholesaling and Warehousing
Transportation, Communications, and Utilities	1410 Transportation 1420 Communication Facilities 1430 Utility Facilities
Mixed Commercial and Industrial	1500 Mixed Commercial and Industrial
Mixed Residential and Commercial	1600 Mixed Residential and Commercial
Open Space and Recreation	1810 Golf Courses 1820 Local Parks and Recreation 1830 State and National Parks and Recreation 1840 Cemeteries 1850 Wildlife Preserves and Sanctuaries 1860 Specimen Gardens and Arboreta 1870 Beach Parks 1880 Other Open Space and Recreation
Vacant	1900 Urban Vacant 3000 Vacant
Agriculture	2000 Agriculture
Water	4000 Water

Specific Plan	7777 Specific Plan
Undevelopable or Protected Land	8888 Undevelopable or Protected Land
Unknown	9999 Unknown

Table 2: 2012 SCAG Existing Land Use Codes - Legend

Legend	Land Use Description
Single Family Residential	1110 Single Family Residential 1111 High-Density Single Family Residential 1112 Low-Density Single Family Residential 1113 Rural Residential
Multi-Family Residential	1120 Multi-Family Residential 1121 Mixed Multi-Family Residential 1122 Duplexes, Triplexes and 2- or 3-Unit Condominiums and Townhouses 1123 Low-Rise Apartments, Condominiums, and Townhouses 1124 Medium-Rise Apartments and Condominiums 1125 High-Rise Apartments and Condominiums
Mobile Homes and Trailer Parks	1130 Mobile Homes and Trailer Parks 1131 Trailer Parks and Mobile Home Courts, High-Density 1132 Mobile Home Courts and Subdivisions, Low-Density
Mixed Residential	1140 Mixed Residential 1100 Residential
General Office	1210 General Office Use 1211 Low- and Medium-Rise Major Office Use 1212 High-Rise Major Office Use 1213 Skyscrapers
Commercial and Services	1200 Commercial and Services 1220 Retail Stores and Commercial Services 1221 Regional Shopping Center 1222 Retail Centers (Non-Strip With Contiguous Interconnected Off-Street Parking) 1223 Retail Strip Development 1230 Other Commercial 1231 Commercial Storage 1232 Commercial Recreation 1233 Hotels and Motels
Facilities	1240 Public Facilities 1241 Government Offices 1242 Police and Sheriff Stations 1243 Fire Stations 1244 Major Medical Health Care Facilities 1245 Religious Facilities 1246 Other Public Facilities 1247 Public Parking Facilities 1250 Special Use Facilities 1251 Correctional Facilities 1252 Special Care Facilities 1253 Other Special Use Facilities
Education	1260 Educational Institutions 1261 Pre-Schools/Day Care Centers 1262 Elementary Schools 1263 Junior or Intermediate High Schools 1264 Senior High Schools 1265 Colleges and Universities 1266 Trade Schools and Professional Training Facilities
Military Installations	1270 Military Installations 1271 Base (Built-up Area) 1272 Vacant Area 1273 Air Field 1274 Former Base (Built-up Area) 1275 Former Base Vacant Area 1276 Former Base Air Field
Industrial	1300 Industrial 1310 Light Industrial 1311 Manufacturing, Assembly, and Industrial Services 1312 Motion Picture and Television Studio Lots 1313 Packing Houses and Grain Elevators 1314 Research and Development 1320 Heavy Industrial 1321 Manufacturing 1322 Petroleum Refining and Processing

Transportation, Communications, and Utilities	1323 Open Storage 1324 Major Metal Processing 1325 Chemical Processing 1330 Extraction 1331 Mineral Extraction - Other Than Oil and Gas 1332 Mineral Extraction - Oil and Gas 1340 Wholesaling and Warehousing 1400 Transportation, Communications, and Utilities 1411 Transportation 1411 Airports 1412 Railroads 1413 Freeways and Major Roads 1414 Park-and-Ride Lots 1415 Bus Terminals and Yards 1416 Truck Terminals 1417 Harbor Facilities 1418 Navigation Aids 1420 Communication Facilities 1430 Utility Facilities 1431 Electrical Power Facilities 1432 Solid Waste Disposal Facilities 1433 Liquid Waste Disposal Facilities 1434 Water Storage Facilities 1435 Natural Gas and Petroleum Facilities 1436 Water Transfer Facilities 1437 Improved Flood Waterways and Structures 1438 Mixed Utilities 1440 Maintenance Yards 1441 Bus Yards
	1442 Rail Yards 1450 Mixed Transportation 1460 Mixed Transportation and Utility
Mixed Commercial and Industrial	1500 Mixed Commercial and Industrial
Mixed Residential and Commercial	1600 Mixed Residential and Commercial
Open Space and Recreation	1800 Open Space and Recreation 1810 Golf Courses 1820 Local Parks and Recreation 1830 Regional Parks and Recreation 1840 Cemeteries 1850 Wildlife Preserves and Sanctuaries 1860 Specimen Gardens and Arboreta 1870 Beach Parks 1880 Other Open Space and Recreation
Agriculture	2000 Agriculture 2100 Cropland and Improved Pasture Land 2110 Irrigated Cropland and Improved Pasture Land 2120 Non-Irrigated Cropland and Improved Pasture Land 2200 Orchards and Vineyards 2300 Nurseries 2400 Dairy, Intensive Livestock, and Associated Facilities 2500 Poultry Operations 2600 Other Agriculture 2700 Horse Ranches
Vacant	3000 Vacant 3100 Vacant Undifferentiated 3200 Abandoned Orchards and Vineyards 3300 Vacant With Limited Improvements 3400 Beaches (Vacant) 1900 Urban Vacant
Water	4000 Water 4100 Water, Undifferentiated 4200 Harbor Water Facilities 4300 Marina Water Facilities 4400 Water Within a Military Installation 4500 Area of Inundation (High Water)
Under Construction	1700 Under Construction

Undevelopable or Protected Land	8888 Undevelopable or Protected Land
Unknown	9999 Unknown

Resource Areas & Farmland

SB 375 identifies as one of the guidelines on developing SCS to "gather and consider the best practically available scientific information regarding resource areas and farmland in the region as defined in subdivision (a) and (b) of *Section 65080.01*." The definitions of Resource areas and Farmland specified in *Section 65080.01* are as following:

- (a) "Resource areas" include
 - (1) all publicly owned parks and open space;
 - (2) open space or habitat areas protected by natural community conservation plans, habitat conservation plans, and other adopted natural resource protection plans;
 - (3) habitat for species identified as candidate, fully protected, sensitive, or species of special status by local, state, or federal agencies or protected by the federal Endangered Species Act of 1973, the California Endangered Species Act, or the Native Plan Protection Act;
 - (4) lands subject to conservation or agricultural easements for conservation or agricultural purposes by local governments, special districts, or nonprofit 501(c)(3) organizations, areas of the state designated by the State Mining and Geology Board as areas of statewide or regional significance pursuant to Section 2790 of the Public Resources Code, and lands under Williamson Act contracts;
 - (5) areas designated for open-space or agricultural uses in adopted open-space elements or agricultural elements of the local general plan or by local ordinance;
 - (6) areas containing biological resources as described in Appendix G of the CEQA Guidelines that may be significantly affected by the sustainable communities strategy or the alternative planning strategy; and
 - (7) an area subject to flooding where a development project would not, at the time of development in the judgment of the agency, meet the requirements of the National Flood Insurance Program or where the area is subject to more protective provisions of state law or local ordinance.
- (b) "Farmland" means farmland that is outside all existing city spheres of influence or city limits as of January 1, 2008, and is one of the following:
 - (1) Classified as prime or unique farmland or farmland of statewide importance.
 - (2) Farmland classified by a local agency in its general plan that meets or exceeds the standards for prime or unique farmland or farmland of statewide importance.

To comply with the guidelines, SCAG prepared the relevant datasets of Endangered species and plants, Flood areas, Natural habitat, Open space and park, and Farmland from various sources.

Endangered species and plants

SCAG obtained the California Natural Diversity Database (CNDDB)¹ July 2013 version developed by the California Department of Fish and Wildlife's Biogeographic Data Branch (BDB). The CNDDB is a library of the location and condition of species of rare and sensitive plants, animals, and natural communities in California. It is updated on a continuous basis to be consistent and current, but cannot be an exhaustive and comprehensive inventory of rare species and natural communities. Field verification for the absence and presence of sensitive species is required by the end users. For more information on the CNDDB, please refer to their website (http://www.dfg.ca.gov/biogeodata/cnddb/) The CNDDB is offered on a yearly subscription basis, and prohibits to be distributed to anyone outside the subscribing organizations. The data can be ordered online at http://www.dfg.ca.gov/biogeodata/cnddb/mapsanddata.asp. Also, the web-based CNDDB Quick Viewer which shows information only to the 7.5' quadrangle or county level is available at http://imaps.dfg.ca.gov/viewers/cnddb_quickviewer/app.asp.

The dataset is shown on the map is based on the combination of the three data fields; element type, accuracy and element occurrence count. Other fields in CNDDB describe the listing status, ranking, location, site description and source references, to name a few.

The types of elements (ELMTYPE) are specified as four categories of plant, animal, terrestrial community, and aquatic community.

Value	Definition
1	Plant (ELMCODEs beginning with "P" or "N")
2	Animal (ELMCODEs beginning with "A" or "I")
3	Terrestrial community (ELMCODEs beginning with "CT")
4	Aquatic community (ELMCODEs beginning with "CA", "CE", "CL", "CM" or "CR")

The precision or accuracy level (ACC_CLASS) represents spatial uncertainty on a scale of one to ten, indicating both accuracy type and accuracy value.

Value	Definition
80 meters	1: Specific bounded area with an 80 meter radius
Specific	2: Specific bounded area
Nonspecific	3: Non-specific bounded area
1/10 mile	4: Circular feature with a 150 meter radius (1/10 mile)
1/5 mile	5: Circular feature with a 300 meter radius (1/5 mile)
2/5 mile	6: Circular feature with a 600 meter radius (2/5 mile)
3/5 mile	7: Circular feature with a 1000 meter radius (3/5 mile)
4/5 mile	8: Circular feature with a 1,300 meter radius (4/5 mile)
1 mile	9: Circular feature with a 1,600 meter radius (1 mile)
5 miles	10: Circular feature with a 8,000 meter radius (5 miles)

¹ The CNDDB is a "natural heritage program" and is part of a nationwide network of similar programs overseen by NatureServe (formerly part of The Nature Conservancy). All natural heritage programs provide location and natural history information on special status plants, animals, and natural communities to the public, other agencies, and conservation organizations. The data help drive conservation decisions, aid in the environmental review of projects and land use changes, and provide baseline data helpful in recovering endangered species and for research projects.

The element occurrence count (EOCOUNT) represents how many occurrences share the same spatial feature. An EOCOUNT greater than one indicates the presence of a "multiple."

Flood Areas

The flood area maps are based on the Q3 Flood Data, obtained from Federal Emergency Management Agency (FEMA) in June, 2013. The Q3 Flood Data is a digital representation of certain features of Flood Insurance Rate Maps (FIRM)². The FIRM is created by FEMA for the purpose of floodplain management, mitigation, and insurance activities for the National Flood Insurance Program (NFIP). The Q3 Flood Data are developed by scanning the existing FIRM hardcopy, vectorizing a thematic overlay of flood risks. Q3 vector data are contained in one single countywide file, including all incorporated and unincorporated areas of a county.

FEMA prepares the flood maps to show the extent of flood hazard in a flood prone community by conducting engineering studies called "Flood Insurance Studies (FISs). From the study, FEMA delineate Special Flood Hazard Areas (SFHAs), which are subject to inundation by a flood that has a 1 percent or greater chance of being equaled or exceeded during any given year. This type of flood is commonly referred to as 'the 100-year flood' or base flood. The 100-year flood has a 26 percent chance of occurring during a 30 year period, the length of many mortgages. The 100-year flood is a regulatory standard used by Federal and most State agencies to administer floodplain management programs.

The FIRM includes data on the 100-year (1% annual chance of occurring) and 500-year (0.2% annual chance of occurring) floodplains. For more information on the FIRM, refer to their website at http://www.fema.gov/hazard/map/firm.shtm

The flood maps developed by FEMA are primary tools for state and local governments to mitigate the effects of flooding in their communities. The data are available to the public at FEMA's Map Service Center (http://www.msc.fema.gov). You may also request the related documents or other maps, such as FIS result report, or a Flood Boundary and Floodway Map (FBFM.)

The map included in this document is prepared at county level for better presentation of the flood areas, which is normally not constrained to city limits.

Natural Community & Habitat Conservation Plan

The data on natural community and habitat conservation plan are from the Natural Community Conservation Planning (NCCP) program of California Department of Fish and Wildlife. With partnerships with public and private organizations, NCCP is an effort for the protection and perpetuation of biological diversity, while allowing compatible and appropriate economic

² The FIRM is the official map of a community on which FEMA has delineated both the special hazard areas and the risk premium zones applicable to the community. Since 1970s, the FEMA has created and updated the flood hazard maps for National Flood Insurance Program (NFIP). NFIP was created by the US Congress in 1968 to reduce future damage and to provide protection for property owners from potential loss through an insurance mechanism.

activity. The NCCP program started in 1991 under the State's Natural Community Conservation Planning Act, which has broader orientation and objectives than the previous laws limited to the protection of species already declined in number significantly.

The primary objective is to conserve natural communities at the ecosystem level, while accommodating compatible land use. By considering the long-term stability of wildlife and plant communities, and including key interests in the planning process, it aims at anticipating and preventing the controversies in the surrounding areas of the species.

A local agency is in charge of monitoring the development of a conservation plan in cooperation with landowners, environmental organizations and other interest parties. The Department of Fish and Wildlife provides necessary support, direction, and guidance to NCCP participants.³ For more information on the NCCP phases and guidance, refer to their website at http://www.dfg.ca.gov/habcon/nccp.

Open Space and Park

For the 2016-2040 RTP/SCS, and SCS development, "all publicly owned" open spaces need to be considered as guided in SB 375. The data on the publicly owned open space and park come from the California Protected Areas Database (CPAD), a GIS inventory of all publicly owned protected open space lands in the State of California through fee ownership. GreenInfo Network has prepared CPAD by aggregating and cross-checking various open space data from state, local and other agencies.

For clear understanding of the database, it is important to understand two basic definitions of the database. First, the "protected" status in CPAD does not refer to a specific level of conservation for biodiversity values, but a general commitment to maintain the property for open space uses. Second, by fee ownership mechanism, it means that 1) the lands in CPAD are defined based on the agencies that owns the fee title to the property, not the managing parties, and 2) CPAD is not the database of all public lands, but that of all "publicly owned" open space. The owning agencies include public and non-profits, but currently the private owners and properties under the use of easements are excluded. Open space lands maintained other than ownership mechanisms (easement or related less-than-fee mechanisms) are provided in a separate database developed by GreenInfo Network. For more details on the inclusion criteria, see the CPAD manual from their website at http://www.calands.org/download/CPAD Manual June2010.pdf

The database is prepared into three feature classes; Holdings, Units, and Super Units. Holdings are the parcel level open space information, which correspond to assessor or tax parcel boundaries. Units and Super Units are the aggregated features for the cartographic representation. (Units: the aggregation of Holdings into specific parks and reserves/ Super Units: the aggregation of federal and state Holdings regardless county boundaries) All classes of data

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³ Department of Fish and Game sponsors two grant programs for NCCP/HCPs; Local Assistance Grants (LAG) with the state funds for urgent tasks associated with implementing approved NCCPs or NCCPs anticipated to be approved within 12 months of grant application, and ESA SECTION 6 GRANTS program through the federal grant from the U.S. Fish and Wildlife Service (FWS).

are downloadable through their website at http://www.calands.org/uses. For user constraints, refer to the License Agreement. GreenInfo Network has released several versions of the CPAD since March, 2008. The most updated available is version 1.9 released in March, 2013. For more information on CPAD update histories and changes, see their website at http://www.calands.org/data

The map included in this document is presented by ownership. The lands in CPAD range from huge national forests to very small urban parks. Federal, state, county, city, special district and non-governmental agency holdings are included and have been mapped at the high levels of accuracy.

Farmland

Farmland information was obtained from the Farmland Mapping & Monitoring Program (FMMP) in the Division of Land Resource Protection in the California Department of Conservation. Established in 1982, the FMMP is to provide consistent and impartial data and analysis of agricultural land use and land use changes throughout the State of California.⁴

SCAG obtains the Important Farmland Map created by FMMP. The study area is in accordance to the soil survey developed by NRCS (National Resources Conservation Service) in the United States Department of Agriculture. Important Farmland Map is biennially updated based on a computer mapping system, aerial imagery, public review, and field interpretation.

The minimum land use mapping unit is 10 acres. The classification system of the map was developed by combining technical soil rating and current land use. For more information, refer to the website at http://www.consrv.ca.gov/dlrp/fmmp/overview/Pages/index.aspx.

PRIME FARMLAND (P)	Farmland with the best combination of physical and chemical features able to sustain long term agricultural production. This land has the soil quality, growing season, and moisture supply needed to produce sustained high yields. Land must have been used for irrigated agricultural production at some time during the four years prior to the mapping date.
FARMLAND OF STATEWIDE IMPORTANCE (S)	Farmland similar to Prime Farmland but with minor shortcomings, such as greater slopes or less ability to store soil moisture. Land must have been used for irrigated agricultural production at some time during the four years prior to the mapping date.
UNIQUE FARMLAND (U)	Farmland of lesser quality soils used for the production of the state's leading agricultural crops. This land is usually irrigated, but may include non-irrigated orchards or vineyards as found in some climatic zones in California. Land must have been cropped at some time during the four years prior to the mapping date.
FARMLAND OF LOCAL IMPORTANCE (L)	Land of importance to the local agricultural economy as determined by each county's board of supervisors and a local

⁴ The FMMP was signed by the Legislature in 1982, and the first Important Farmland Maps were produced in 1984, covering 30.3 million acres. Through 12 biennial mapping cycles, data has expanded to 48.1 million acres as modern soil surveys were completed by USDA.

	advisory committee.
GRAZING LAND (G)	Land on which the existing vegetation is suited to the grazing of livestock. This category was developed in cooperation with the California Cattlemen's Association, University of California Cooperative Extension, and other groups interested in the extent of grazing activities. The minimum mapping unit for Grazing Land is 40 acres.
URBAN AND BUILT-UP LAND (D)	Land occupied by structures with a building density of at least 1 unit to 1.5 acres, or approximately 6 structures to a 10-acre parcel. This land is used for residential, industrial, commercial, institutional, public administrative purposes, railroad and other transportation yards, cemeteries, airports, golf courses, sanitary landfills, sewage treatment, water control structures, and other developed purposes.
OTHER LAND (X)	Land not included in any other mapping category. Common examples include low density rural developments; brush, timber, wetland, and riparian areas not suitable for livestock grazing; confined livestock, poultry or aquaculture facilities; strip mines, borrow pits; and water bodies smaller than 40 acres. Vacant and nonagricultural land surrounded on all sides by urban development and greater than 40 acres is mapped as Other Land.
WATER (W)	Perennial water bodies with an extent of at least 40 acres.
NOT SURVEYED (Z)	Large government land holdings, including National Parks, Forests, and Bureau of Land Management holdings are not included in FMMP's survey area.

The map included in this document is prepared based on the guidelines in (b) of Section 65080.01.

- (b) "Farmland" means farmland that is outside all existing city spheres of influence or city limits as of January 1, 2008, and is one of the following:
 - (1) Classified as prime or unique farmland or farmland of statewide importance.
 - (2) Farmland classified by a local agency in its general plan that meets or exceeds the standards for prime or unique farmland or farmland of statewide importance.

Transit Priority Project

According to SB 375, 'a transit priority project' can be exempt from, or subject to the limited review of CEQA (the California Environmental Quality Act). The implementation of the SCS only includes 'a transit priority project' that is 'consistent with the general use designation, density, building intensity, and applicable policies specified for the project area in either a sustainable communities strategy or an alternative planning strategy, for which the State Air Resources Board, pursuant to subparagraph (H) of paragraph (2) of subdivision (b) of Section 65080 of the Government Code, has accepted a metropolitan planning organization's determination that the sustainable communities strategy or the alternative planning strategy would, if implemented, achieve the greenhouse gas emission reduction targets.' [Section 2115. (a)]

The bill specifically states that the transit priority project should:

- (1) contain at least 50 percent residential use, based on total building square footage and, if the project contains between 26 percent and 50 percent nonresidential uses, a floor area ratio of not less than 0.75;
- (2) provide a minimum net density of at least 20 dwelling units per acre; and
- (3) be within one-half mile of a major transit stop or high-quality transit corridor included in a regional transportation plan. A major transit stop is as defined in Section 1064.3, except that, for purposes of this section, it also includes major transit stops that are included in the applicable regional transportation plan. For purposes of this section, a high-quality transit corridor means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours. A project shall be considered to be within one-half mile of a major transit stop or high-quality transit corridor if all parcels within the project have no more than 25 percent of their area farther than one-half mile from the stop or corridor and if not more than 10 percent of the residential units or 100 units, whichever is less, in the project are farther than one-half mile from the stop or corridor. [Section 2115. (b)]

A transit priority project, which meets all the requirements of subdivision (a) and (b), and one of the requirements of subdivision (c) in Section 21155.1, can be declared by the legislative body of the jurisdiction, after conducting a public hearing, to be a Sustainable Communities Project (SCP). Once the project is designated as SCP, it can benefit from CEQA streamlines. For detailed information on SCP, refer to Appendix 1: Sustainable Communities Project (SCP) Criteria.

Major Stops & High Quality Transit Corridors

To assist to identify the transit priority project areas, SCAG identifies the major stops and high quality transit corridors, and their surrounding areas in one-half mile radius distance, as specified in Section 2115. (b) (3). Major transit stops and high-quality transit corridor extracted from 2035 planned year data in the 2012-2035 RTP/SCS amendment #1.

The definitions of major transit stops and high quality transit corridors are as follows:

Major transit stop

A site containing an rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods (CA Public Resource Code Section 21064.3). It also includes major transit stops that are included in the applicable regional transportation plan.

High-quality transit corridor

A corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.

Geographical boundaries

SCAG is considering the collection and adoption of data at a small-area level as optional for local agencies in order to make accessible the CEQA streamlining provisions under SB3 75. The variables of population, households, employment and land use are prepared at city, census tract, and transportation analysis zone (TAZ) level.

City boundary & Sphere of Influence

City boundary and sphere of influence information are from each County's Local Agency Formation Commissions (LAFCO). The information included here are as of July 2012, the base year for the 2016-2040 RTP/SCS. SCAG only uses the data directly from LAFCO as the legitimate source based on the legal requirement of SB 375. For inaccuracy or changes in city boundaries or sphere of influences, local jurisdictions need to contact LAFCO to reflect the most accurate city and sphere boundaries.

Census tract boundary

The census tract boundaries are the 2010 TIGER/Line Shapefiles version, downloaded from U.S. Census, TIGER (Topologically Integrated Geographic Encoding and Referencing) Products website (http://www.census.gov/geo/maps-data/data/tiger.html).

TAZ boundary

SCAG developed the Transportation Analysis Zones (TAZ) for the SCAG Region, based on the 2010 Tiger Census Block. This is used to facilitate Travel Demand and Land Use Modeling needs at SCAG.

Appendix 1: Sustainable Communities Project (SCP) Criteria

(Extracted from Senate Bill No. 375 Chapter 728)

Chapter 4.2. Implementation of the Sustainable Communities Strategy

21155.1. If the legislative body finds, after conducting a public hearing, that a transit priority project meets all of the requirements of subdivisions (a) and (b) and one of the requirements of subdivision (c), the transit priority project is declared to be a sustainable communities project and shall be exempt from this division.

- (a) The transit priority project complies with all of the following environmental criteria:
- (1) The transit priority project and other projects approved prior to the approval of the transit priority project but not yet built can be adequately served by existing utilities, and the transit priority project applicant has paid, or has committed to pay, all applicable in-lieu or development fees.

(2)

- (A) The site of the transit priority project does not contain wetlands or riparian areas and does not have significant value as a wildlife habitat, and the transit priority project does not harm any species protected by the federal Endangered Species Act of 1973 (16 U.S.C. Sec. 1531 et seq.), the Native Plant Protection Act (Chapter 10 (commencing with Section 1900) of Division 2 of the Fish and Game Code), or the California Endangered Species Act (Chapter 1.5 (commencing with Section 2050) of Division 3 of the Fish and Game Code), and the project does not cause the destruction or removal of any species protected by a local ordinance in effect at the time the application for the project was deemed complete.
- (B) For the purposes of this paragraph, "wetlands" has the same meaning as in the United States Fish and Wildlife Service Manual, Part 660 FW 2 (June 21, 1993).
- (C) For the purposes of this paragraph:
 - (i) "Riparian areas" means those areas transitional between terrestrial and aquatic ecosystems and that are distinguished by gradients in biophysical conditions, ecological processes, and biota. A riparian area is an area through which surface and subsurface hydrology connect waterbodies with their adjacent uplands. A riparian area includes those portions of terrestrial ecosystems that significantly influence exchanges of energy and matter with aquatic ecosystems. A riparian area is adjacent to perennial, intermittent, and ephemeral streams, lakes, and estuarine-marine shorelines.
 - (ii) "Wildlife habitat" means the ecological communities upon which wild animals, birds, plants, fish, amphibians, and invertebrates depend for their conservation and protection. (iii) Habitat of "significant value" includes wildlife habitat of national, statewide, regional, or local importance; habitat for species protected by the federal Endangered Species Act of 1973 (16 U.S.C. Sec. 1531, et seq.), the California Endangered Species Act (Chapter 1.5 (commencing with Section 2050) of Division 3 of the Fish and Game Code), or the Native Plant Protection Act (Chapter 10 (commencing with Section 1900) of Division 2 of the Fish and Game Code); habitat identified as candidate, fully protected, sensitive, or species of special status by local, state, or federal agencies; or habitat essential to the movement of resident or migratory wildlife.

- (3) The site of the transit priority project is not included on any list of facilities and sites compiled pursuant to Section 65962.5 of the Government Code.
- (4) The site of the transit priority project is subject to a preliminary endangerment assessment prepared by a registered environmental assessor to determine the existence of any release of a hazardous substance on the site and to determine the potential for exposure of future occupants to significant health hazards from any nearby property or activity.
 - (A) If a release of a hazardous substance is found to exist on the site, the release shall be removed or any significant effects of the release shall be mitigated to a level of insignificance in compliance with state and federal requirements.
 - (B) If a potential for exposure to significant hazards from surrounding properties or activities is found to exist, the effects of the potential exposure shall be mitigated to a level of insignificance in compliance with state and federal requirements.
- (5) The transit priority project does not have a significant effect on historical resources pursuant to Section 21084.1.
- (6) The transit priority project site is not subject to any of the following:
 - (A) A wildland fire hazard, as determined by the Department of Forestry and Fire Protection, unless the applicable general plan or zoning ordinance contains provisions to mitigate the risk of a wildland fire hazard.
 - (B) An unusually high risk of fire or explosion from materials stored or used on nearby properties.
 - (C) Risk of a public health exposure at a level that would exceed the standards established by any state or federal agency.
 - (D) Seismic risk as a result of being within a delineated earthquake fault zone, as determined pursuant to Section 2622, or a seismic hazard zone, as determined pursuant to Section 2696, unless the applicable general plan or zoning ordinance contains provisions to mitigate the risk of an earthquake fault or seismic hazard zone.
 - (E) Landslide hazard, flood plain, flood way, or restriction zone, unless the applicable general plan or zoning ordinance contains provisions to mitigate the risk of a landslide or flood.
- (7) The transit priority project site is not located on developed open space.
 - (A) For the purposes of this paragraph, "developed open space" means land that meets all of the following criteria:
 - (i) Is publicly owned, or financed in whole or in part by public funds.
 - (ii) Is generally open to, and available for use by, the public.
 - (iii) Is predominantly lacking in structural development other than structures associated with open spaces, including, but not limited to, playgrounds, swimming pools, ballfields, enclosed child play areas, and picnic facilities.
 - (B) For the purposes of this paragraph, "developed open space" includes land that has been designated for acquisition by a public agency for developed open space, but does not include lands acquired with public funds dedicated to the acquisition of land for housing purposes.
- (8) The buildings in the transit priority project are 15 percent more energy efficient than required by Chapter 6 of Title 24 of the California Code of Regulations and the buildings and landscaping are designed to achieve 25 percent less water usage than the average household use in the region.
- (b) The transit priority project meets all of the following land use criteria:

- (1) The site of the transit priority project is not more than eight acres in total area.
- (2) The transit priority project does not contain more than 200 residential units.
- (3) The transit priority project does not result in any net loss in the number of affordable housing units within the project area.
- (4) The transit priority project does not include any single level building that exceeds 75,000 square feet.
- (5) Any applicable mitigation measures or performance standards or criteria set forth in the prior environmental impact reports, and adopted in findings, have been or will be incorporated into the transit priority project.
- (6) The transit priority project is determined not to conflict with nearby operating industrial uses.
- (7) The transit priority project is located within one-half mile of a rail transit station or a ferry terminal included in a regional transportation plan or within one-quarter mile of a high-quality transit corridor included in a regional transportation plan.
- (c) The transit priority project meets at least one of the following three criteria:
- (1) The transit priority project meets both of the following:
 - (A) At least 20 percent of the housing will be sold to families of moderate income, or not less than 10 percent of the housing will be rented to families of low income, or not less than 5 percent of the housing is rented to families of very low income.
 - (B) The transit priority project developer provides sufficient legal commitments to the appropriate local agency to ensure the continued availability and use of the housing units for very low, low-, and moderate-income households at monthly housing costs with an affordable housing cost or affordable rent, as defined in Section 50052.5 or 50053 of the Health and Safety Code, respectively, for the period required by the applicable financing. Rental units shall be affordable for at least 55 years. Ownership units shall be subject to resale restrictions or equity sharing requirements for at least 30 years.
- (2) The transit priority project developer has paid or will pay in-lieu fees pursuant to a local ordinance in an amount sufficient to result in the development of an equivalent number of units that would otherwise be required pursuant to paragraph (1).
- (3) The transit priority project provides public open space equal to or greater than five acres per 1,000 residents of the project.

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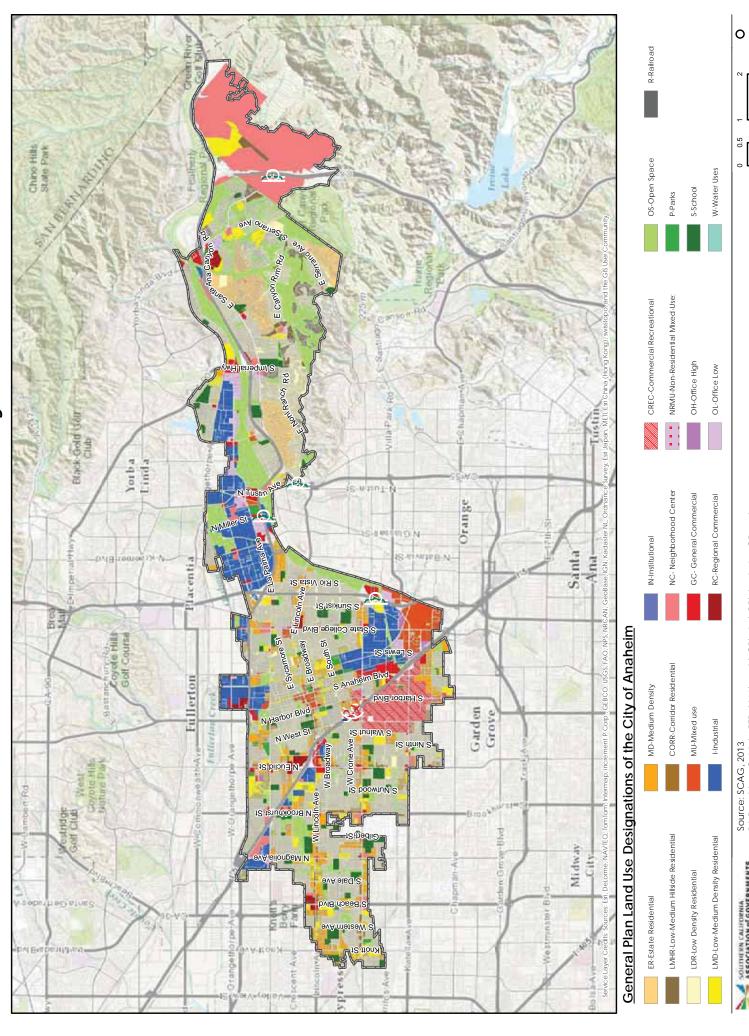
Maps

The list of GIS maps included:

- General Plan Land Use (Based on City Codes)
- General Plan Land Use (Based on 2012 SCAG General Plan Land Use Codes)
- Zoning
- Existing Land Use (Based on 2012 SCAG Existing Land Use Codes)
- Endangered, Threatened, and Rare Plant and Animal Species
- Federally Designated Flood Hazard Zones
- Natural Community & Habitat Conservation Plans
- Protected Open Space
- Farmland
- Major Stops & High Quality Transit Corridors
- Sphere of Influence
- Census Tract boundary
- Transportation Analysis Zone (TAZ) boundary

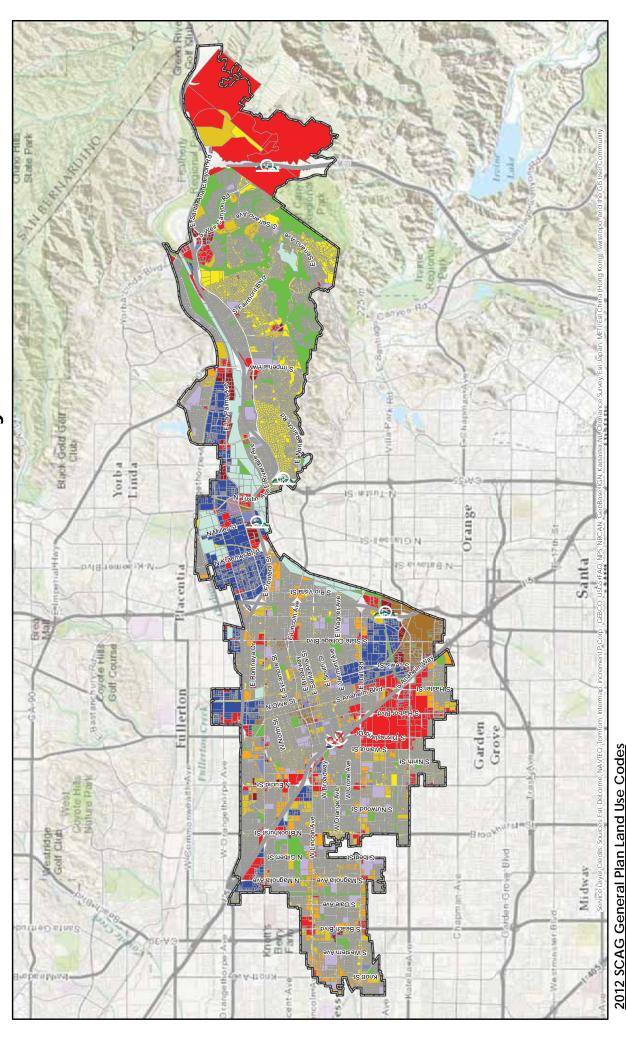
It should be noted that some maps may be missing for a few jurisdictions due to insufficient local input data.

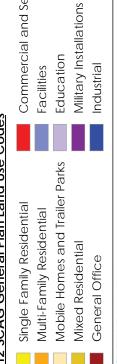
General Plan Land Use in City of Anaheim



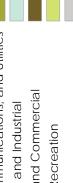


General Plan Land Use in City of Anaheim



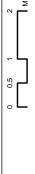


Transportation, Communications, and Utilities Mixed Residential and Commercial Mixed Commercial and Industrial Open Space and Recreation Commercial and Services



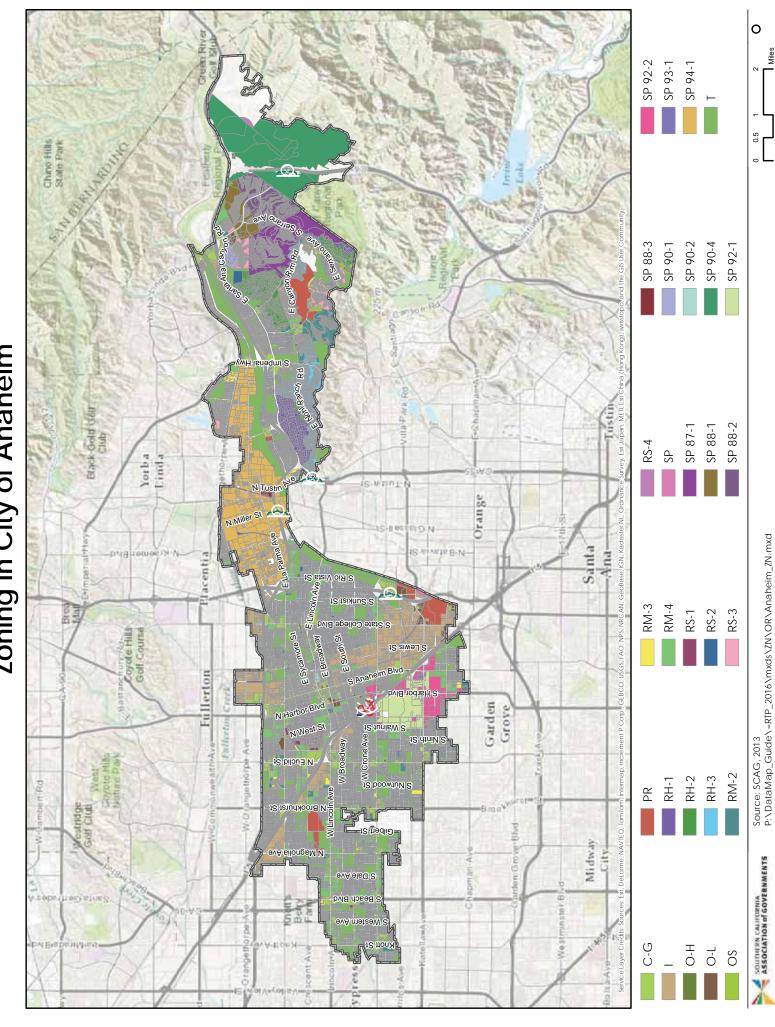


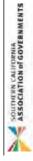
Undevelopable or Protected Land Specific Plan Unknown



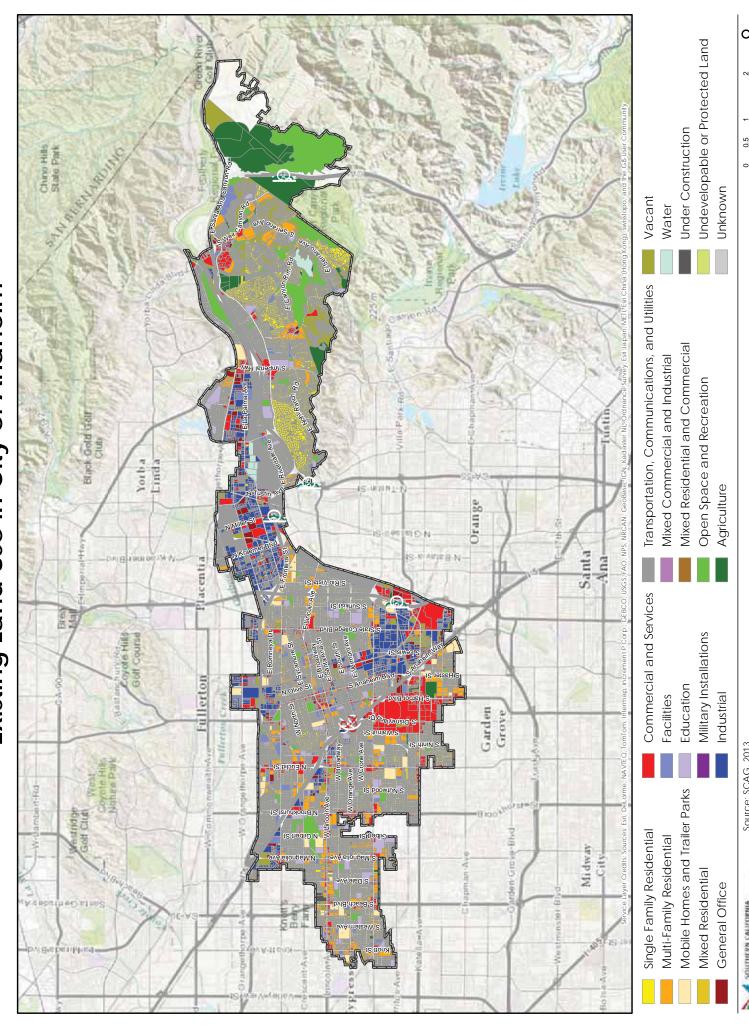
SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS

Zoning in City of Anaheim



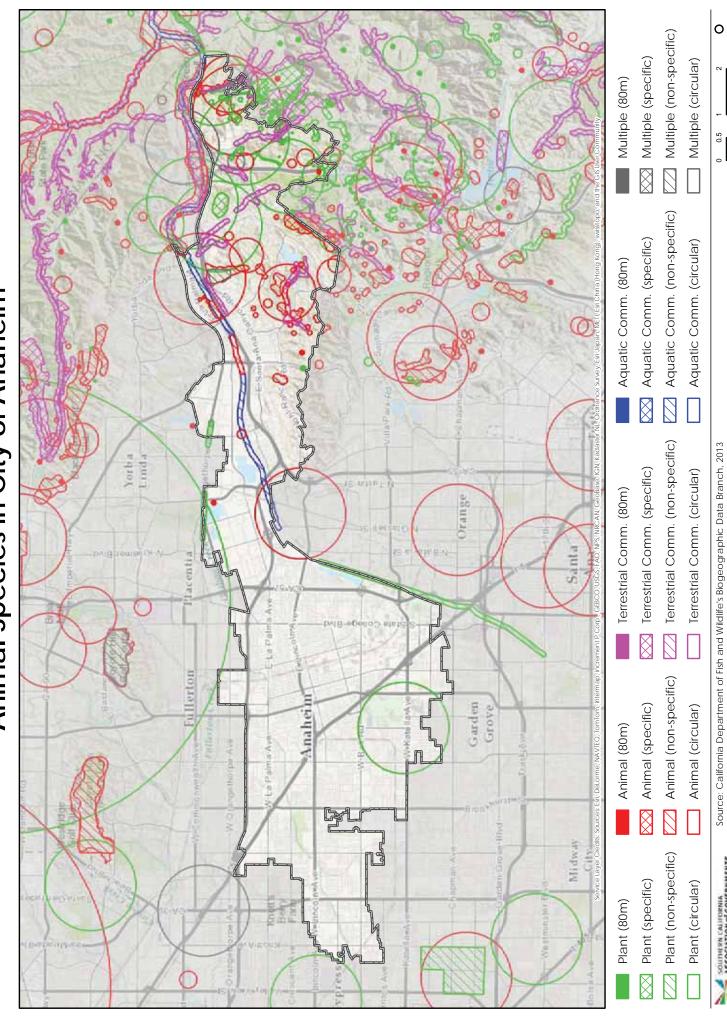


Existing Land Use in City of Anaheim



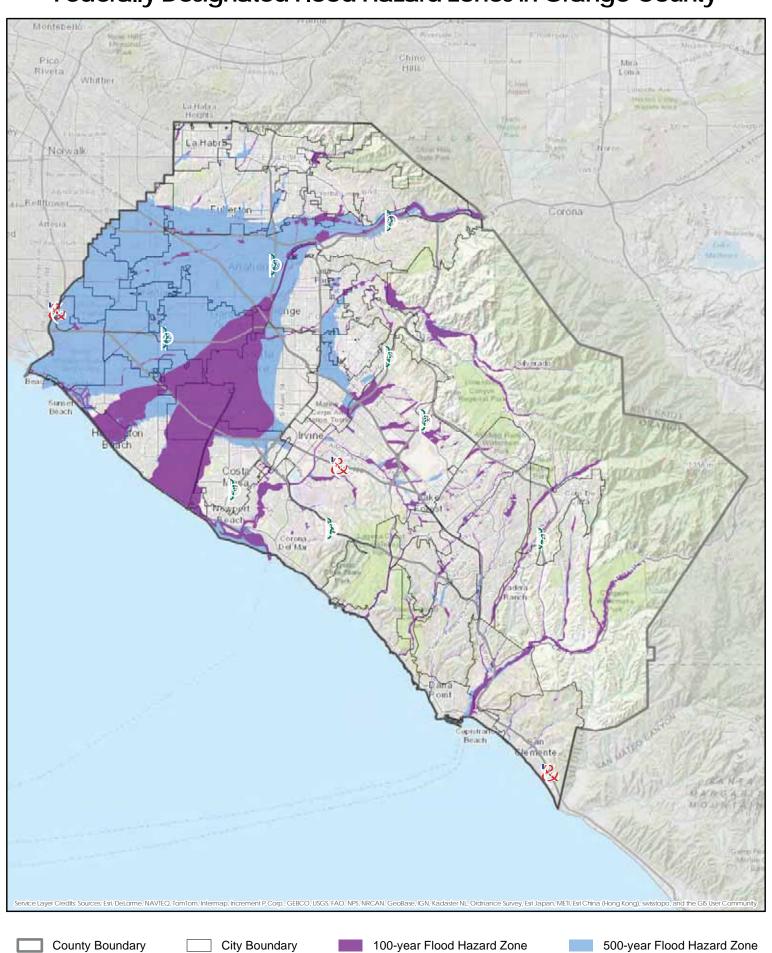


Known Sightings of Endangered, Threatened, and Rare Plant and **Animal Species in City of Anaheim**





Federally Designated Flood Hazard Zones in Orange County

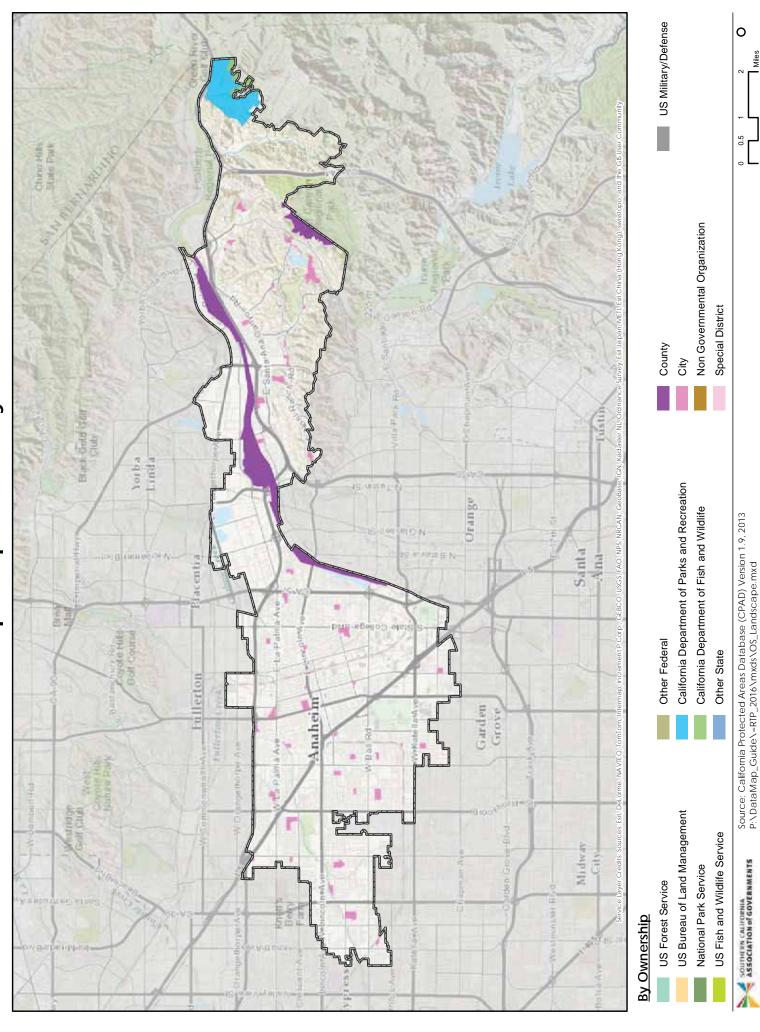




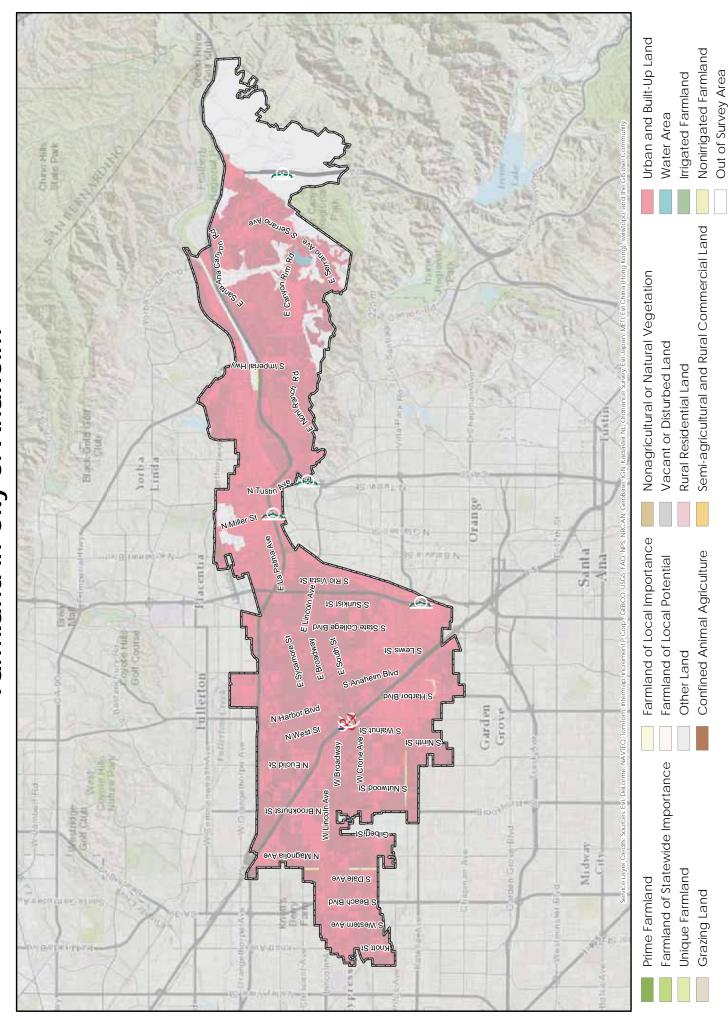
Natural Community & Habitat Conservation Plans (NCCP & HCP) in Orange County



Protected Open Space in City of Anaheim

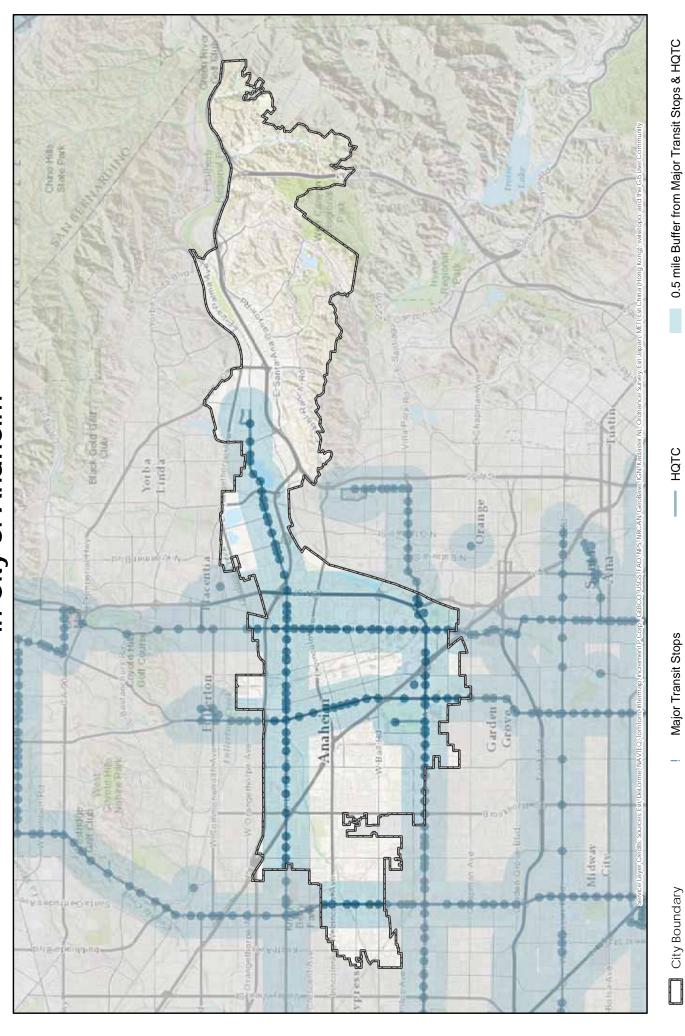


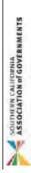
Farmland in City of Anaheim



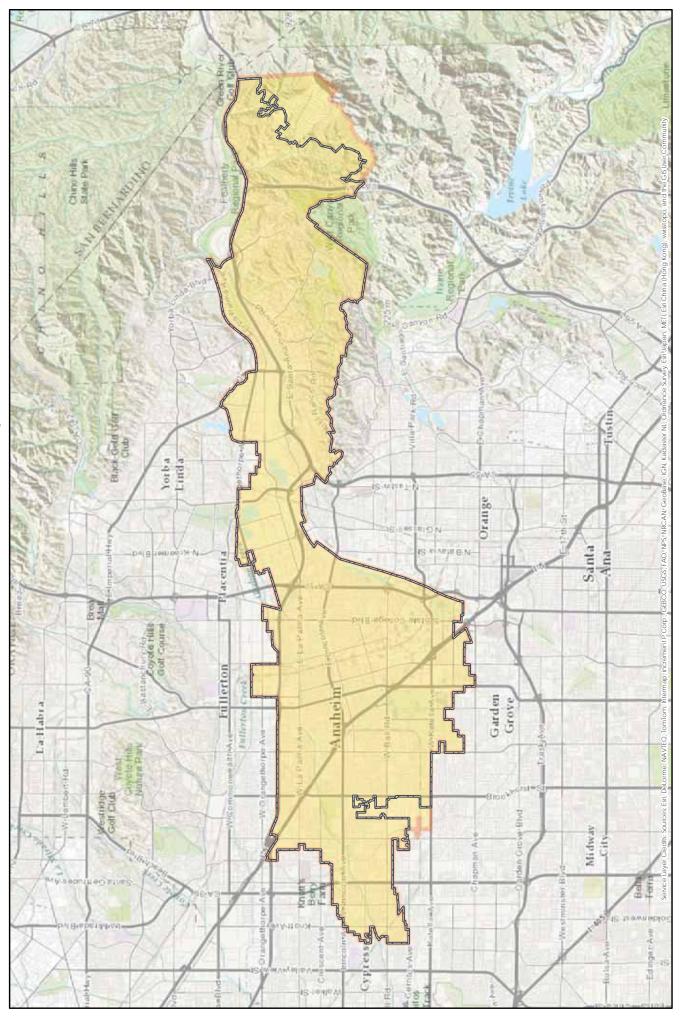


Major Transit Stops & High-Quality Transit Corridor (HQTC) in City of Anaheim





Sphere of Influence for City of Anaheim

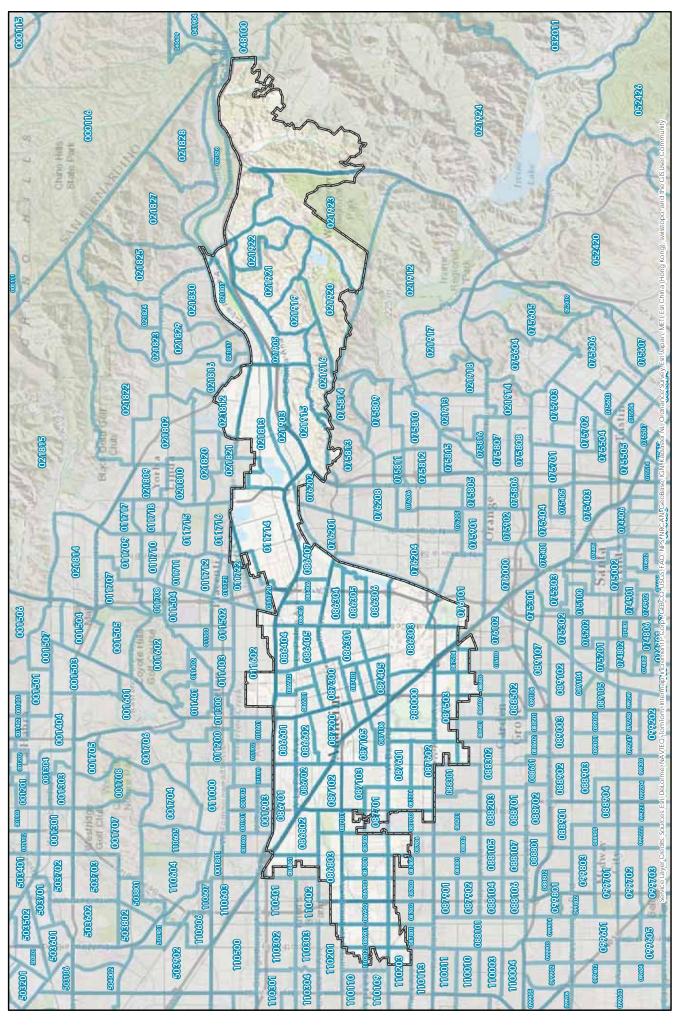


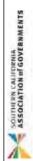


City Boundary

Sphere of Influence

Census Tracts in City of Anaheim



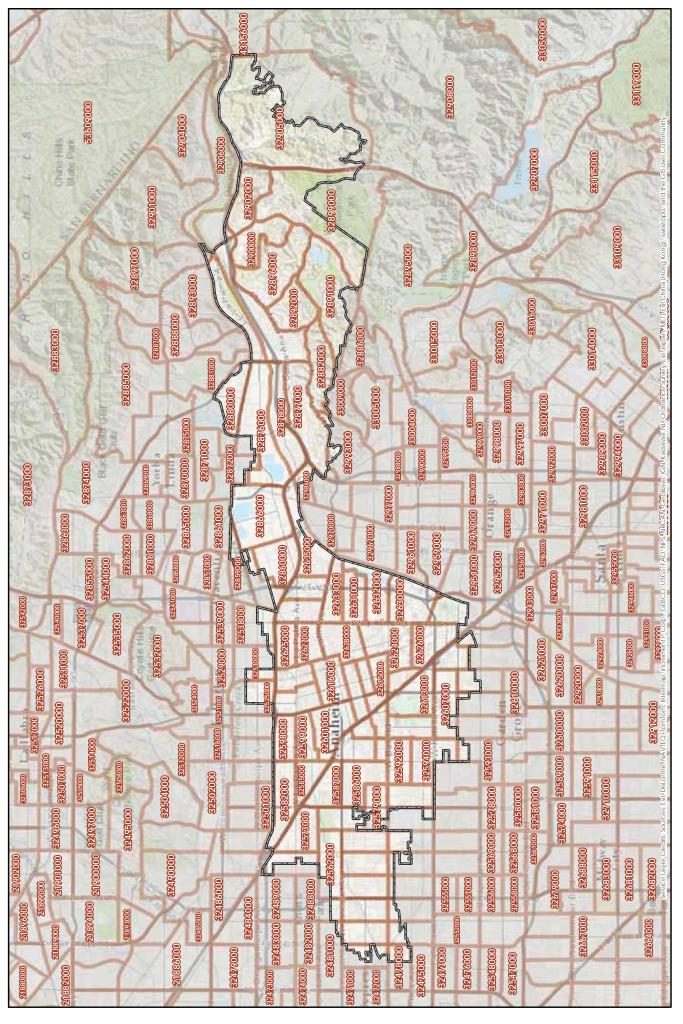


City Boundary

2010 Census Tracts

0

Transportation Analysis Zones in City of Anaheim



SOUTHER CALIFORNIA ASSOCIATION OF GOVERNMENTS

City Boundary

Source: SCAG, 2013 P:\DataMap_Guide\=RTP_2016\mxds\TAZ_Landscape.mxd

Transportation Analysis Zones (TAZ)



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