

# Enhancing GIS Accessibility for Local Governments in Southern California

## CALGIS Conference

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Research & Analysis

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# Outline



- Southern California Association of Governments
  - Jurisdiction
  - Uniqueness
- SB 375 –Project Catalyst
  - Improve local and regional planning processes
  - Assist SCAG RTP/SCS local implementation process
- SCAG GIS Services (Local Assistance for member agencies)
  - Program Objectives
  - Program Implementation
  - Key Findings
  - What's Next
  - Lessons Learned



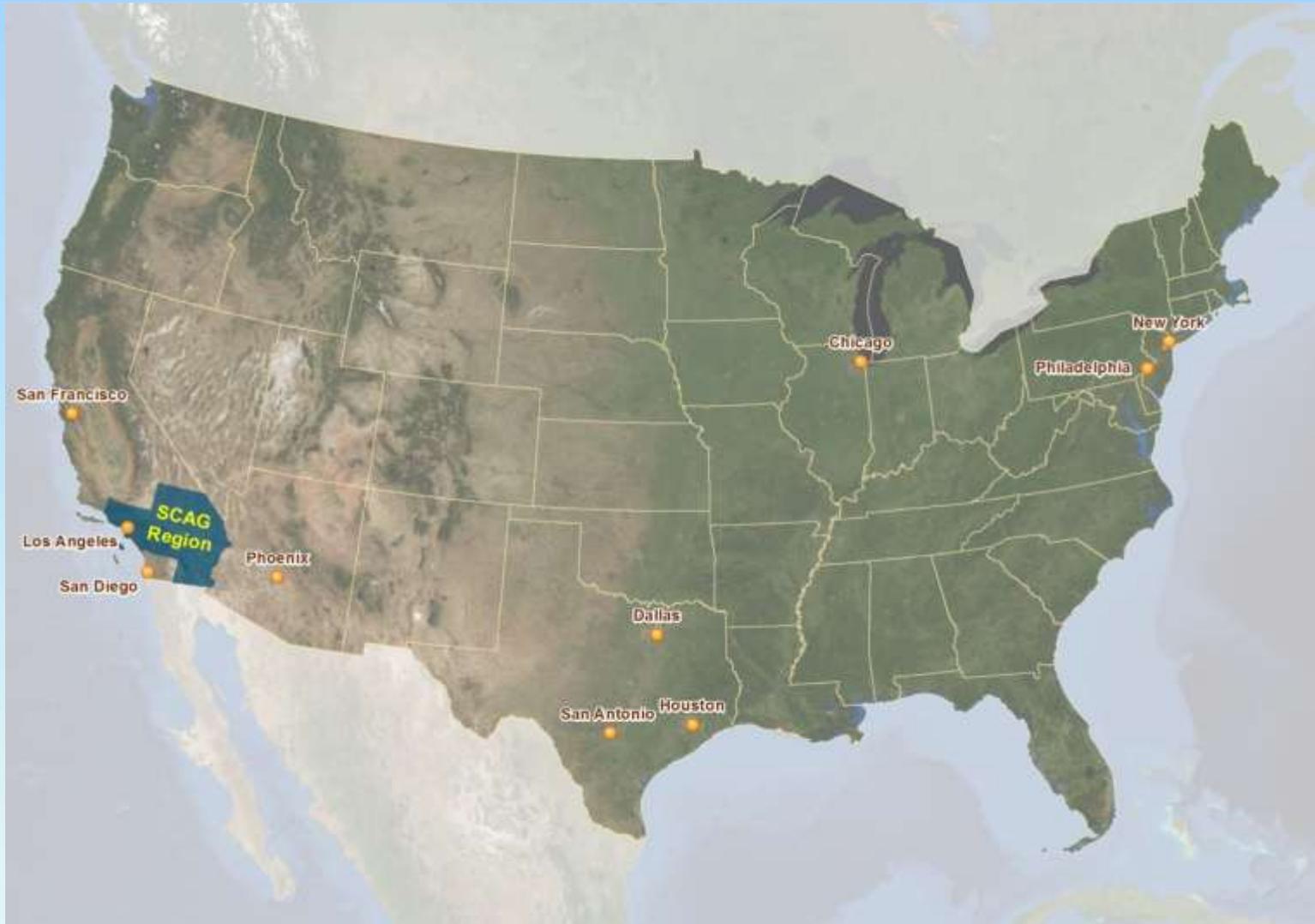
# SCAG Region Facts



- Nation's largest Metropolitan Planning Organization (MPO) and Council of Governments (COG)
- Over 38,000 square miles
- 6 counties, 191 cities and over 18 million residents
- Governed by a Regional Council of 84 local elected officials
- 16th largest economy in the world
- 10,000 lane miles of freeway
- 4 major airports
- Nation's global gateway for trade



# Southern California Association of Governments (SCAG)



# Southern California Association of Governments (SCAG)

4.2 Million New Residents by 2035



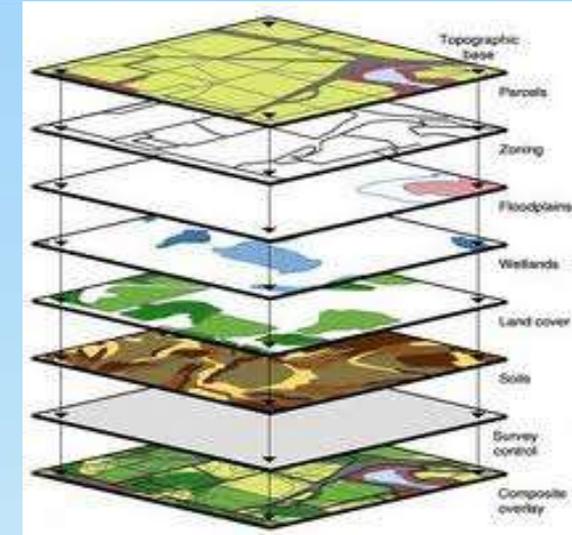
# Southern California Association of Governments (SCAG)

- SB 375
  - Integrate transportation planning with land use
  - Provide the most updated and current land use info to local jurisdictions
- Local Input for the 2012 RTP/SCS development
  - Socioeconomic data and forecast info
  - Review and update GIS data on existing land use , general plan, & zoning



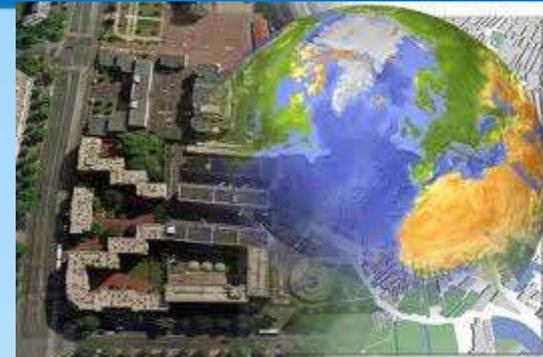
# Challenge

Lack of GIS capability to share information in standardized form



# Solution for the Challenges

- Building GIS capability at local level, to promote communication & collaboration with GIS



## Application for SCAG Members GIS Services Program



Please email this form to [wangp@scag.ca.gov](mailto:wangp@scag.ca.gov) or fax to (213) 236-1962.

### City Information

City Name:

Address:

Contact Person:  Department:  Title:

Phone:  Fax:  Email:

### GIS Information

Does city have GIS software?  Yes  No  
If yes, please check:  ArcView 3.x  ArcMap 9.x  ArcInfo  MapInfo  
 Others (please specify):

Does city have GIS data?  Yes  No  
If yes, please check:  Existing Land Use Data  General Plan Land Use Data  Zoning Data  
 Building Permit  Park/Open Space  Flood Zone

# Program Objectives



- Collect Land Use information
- Improve local and regional planning processes
- Assist SCAG RTP/SCS local implementation process
- Use GIS technology to promote
  - Data sharing
  - Data updating
  - Data standardization



# Program Implementation



- The program began in February 2010
- Free to SCAG member agencies
- 83 local jurisdictions are participating as of April 2013
- Incorporating and additional 18 participants

# How GIS Services are Provided

- Identify and assess what GIS needs at kick-off meeting
- Tailor Scope of Work to jurisdictions
- Provide customized GIS training
- Provide quarterly on-site support as needed

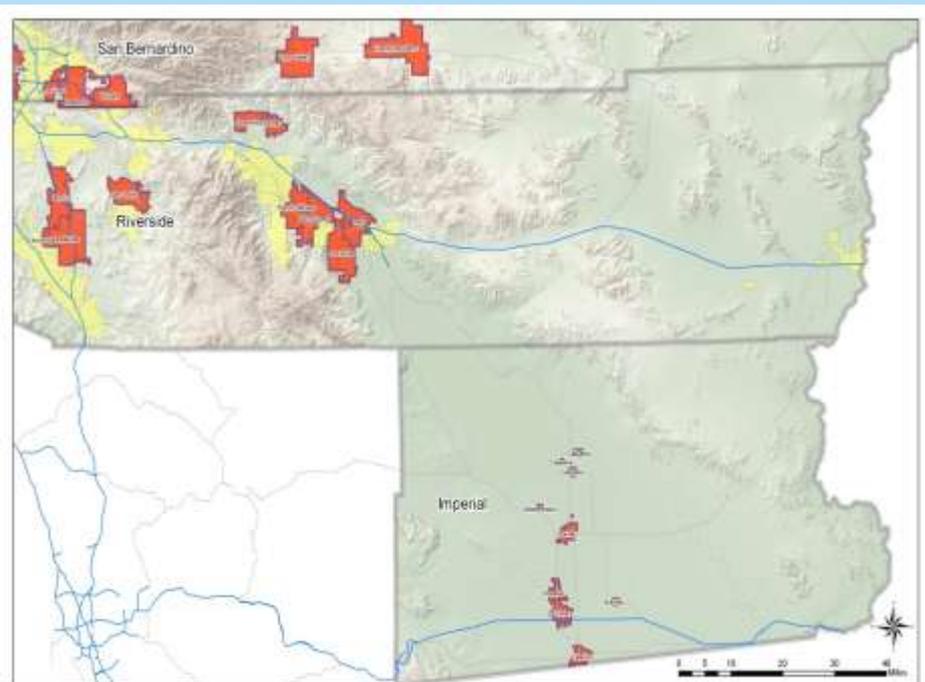
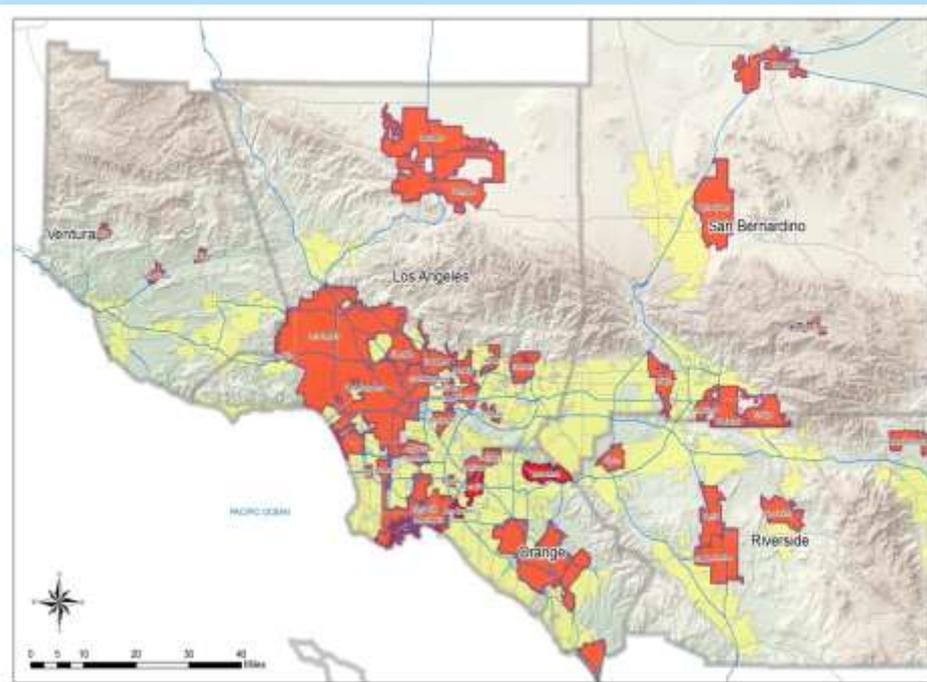
# Program Implementation



- Build on working with jurisdictions closely
- One-on-one meeting with each participant (at their location)
- Provide meeting summaries
- Accomplish through customized work plans
- Continuous communication and site visits as needed

# Program Implementation

- The program began in January, 2010
- 83 local jurisdictions participating (as of April, 2013)



# Where are the Participating Jurisdictions?

County	Participating Jurisdictions	Total Jurisdictions	Participation % By County	Total %
Imperial	<b>8</b>	8	<b>100%</b>	10%
Los Angeles	<b>37</b>	89	<b>42%</b>	45%
Orange	<b>10</b>	35	<b>29%</b>	12%
Riverside	<b>12</b>	29	<b>41%</b>	14%
San Bernardino	<b>12</b>	25	<b>48%</b>	14%
Ventura	<b>4</b>	11	<b>36%</b>	5%
<b>Total</b>	<b>83</b>	<b>197</b>	<b>42%</b>	<b>100%</b>

Adding 18 new jurisdictions: Los Angeles (6), Orange Co. (8), Riverside Co. (1), and San Bernardino Co. (1), and Ventura Co. (2). This is a growth of over 20%.

# GIS Services Provided

- Provide entry level GIS training to over 200 participants at different local facilities.
- Provide intermediate and advanced GIS, TransCAD trainings
- Provide desktop viewers and simple web-based GIS applications
- Convert local data and integrate them into GIS applications
- Provide GIS support as needed (onsite & offsite)
- Assist jurisdictions with purchase of GIS software and hardware

# What GIS Services are Provided

Service Types	By Jurisdiction	By Service
GIS Training (101)	100%	47%
Data/Map Support (42)	44%	20%
Desktop/Web Application (24)	25%	11%
On-site visits (23)	24%	11%
GIS Rollout (21)	22%	10%
<b>TOTAL (214)</b>		<b>100%</b>

# GIS Services Training

- Set up Options
  - Palm Desert, Fontana, Ventura,...
  - SCAG's Mobile GIS (7 laptops)
    - Small cities: Holtville, Brawley, Needles...
  - Individual City set-up (Indio, Arcadia, & Lancaster)
- GIS Training Content
  - GIS Levels (Intro., Intermed., Adv.)
  - Special Topics (such as GPS)
- Target Audience
  - Interns to Directors (other decision-makers)



# Data Collaboration

- SCAG data
  - Land Use (General Plan and Existing land use)
  - Socioeconomic data (Census, forecast, etc...)
  - Other (Compass Blueprint, Local data)
- City Data
  - Building Permits
  - Demolition
  - Other (employment, aerial imagery)
- Other Entities
- Data Updates/Maintenance



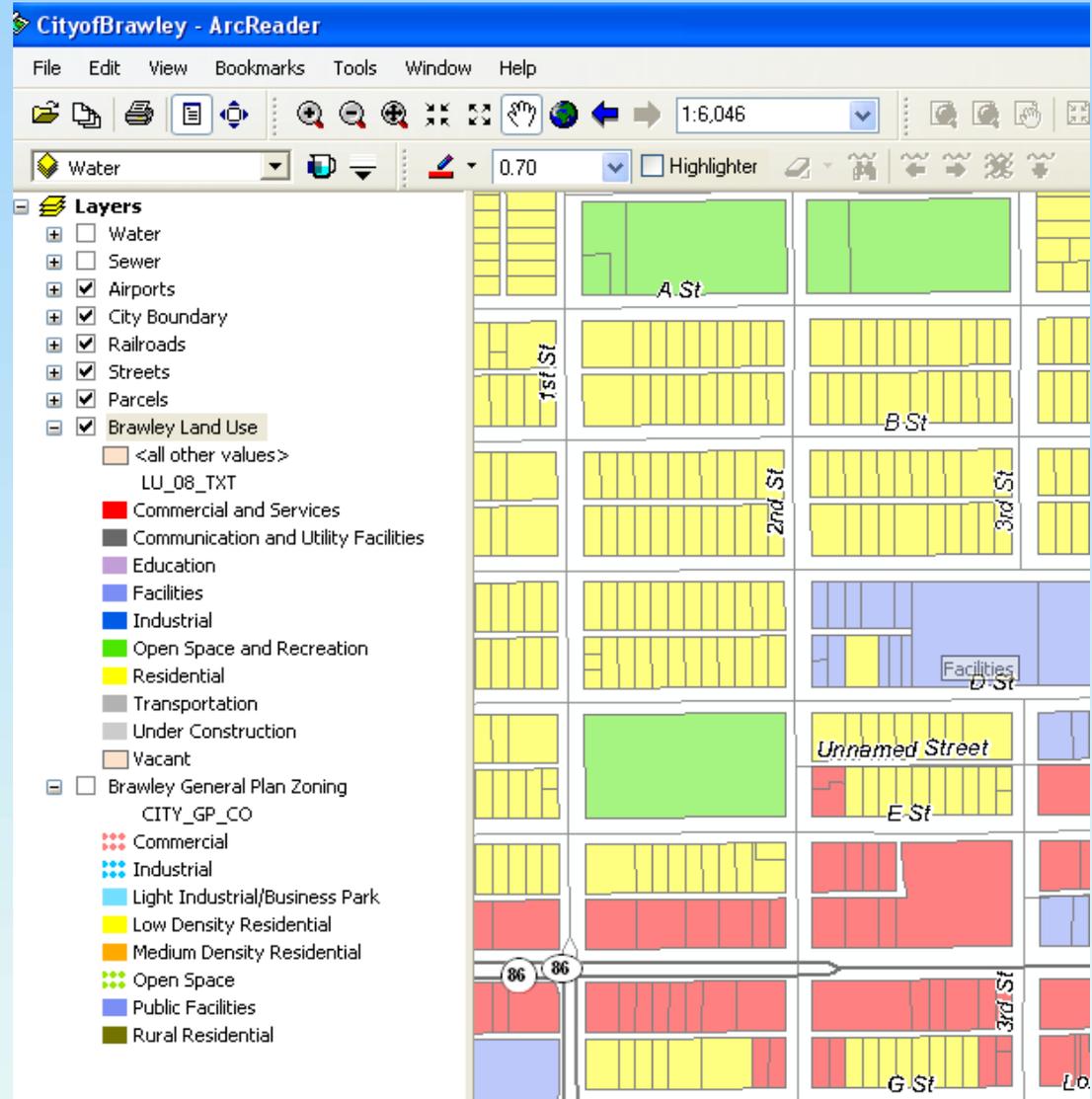


# Participant Goals

- Improve daily planning activities
- Provide visualized tools for better decision-making
- Maintain and update city data/information more effectively
- Reduce city expenses
- Provide new services

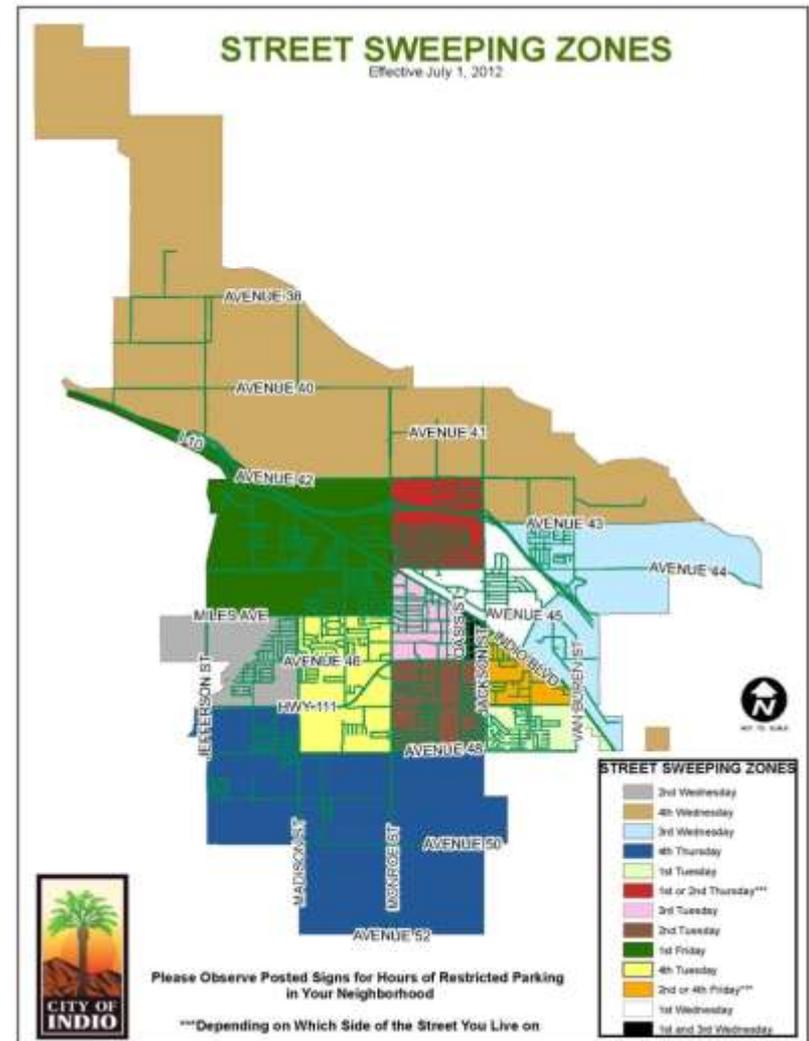
# City of Brawley

- A free, easy-to-use desktop mapping application
- High-quality interactive maps in Arc Reader
- Allows users to view, explore, and print maps.
- City provided data to query and visualized water and sewer resources
- SCAG replaced application with a geodatabase and ArcGIS license for greater capabilities



# City of Indio

- City faced large layoffs and limited resources
- SCAG helped Indio develop a street sweeping schedule
- Saved city money



# Key Findings

- Very successful beginning
- SCAG acts as a facilitator
- Educational GIS workshop with cities experience
- Collaboration:
  - Internal SCAG
  - Internal City
  - Between SCAG and City
- SCAG fills-in the gap

# What's Next

- Provide more GIS training and follow-up visits
- Invite remaining cities and counties to participate
- Implement a GeoData Portal site for data sharing
- Provide transportation modeling training (TransCAD)
- Release a quarterly program newsletter

# Lessons Learned & Challenges

- Improve communication channels
  - SCAG vs. Cities
  - City in different departments
- Balance SCAG resources with GIS Services committments



For more information  
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<http://www.scag.ca.gov/mappingGIS.htm>

