

SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS 818 West 7th Street, 12th Floor Los Angeles, CA 90017 T: (213) 236–1800 F: (213) 236–1825 www.scag.ca.gov

REGIONAL COUNCIL OFFICERS

President Margaret E. Finlay, Duarte

First Vice President Alan D. Wapner, Ontario

Second Vice President Bill Jahn, Big Bear Lake

Immediate Past President Michele Martinez, Santa Ana

COMMITTEE CHAIRS

Executive/Administration Margaret E. Finlay, Duarte

Community, Economic & Human Development Rex Richardson, Long Beach

Energy & Environment Carmen Ramirez, Oxnard

Transportation
Curt Hagman, San Bernardino County

MEETING No. 1

OPEN DATA/BIG DATA – SMART AND CONNECTED SCAG REGION COMMITTEE

Tuesday, June 13, 2017 9:00 a.m. – 10:30 a.m.

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

If members of the public wish to review the attachments or have any questions on any of the agenda items, please contact Tess Rey-Chaput at (213) 236-1908 or via email at REY@scag.ca.gov.

Agendas for the Open Data / Big Data – Smart and Connected SCAG Region Committee are also available at:

http://www.scag.ca.gov/committees/Pages/default.aspx

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) 236-1908. We request at least 72 hours notice to provide reasonable accommodations and will make every effort to arrange for assistance as soon as possible.





Open Data / Big Data – Smart and Connected SCAG Region Committee Members

- 1. Hon. Michele Martinez, City of Santa Ana (Committee Chair)
- 2. Hon. Margaret Finlay, City of Duarte
- 3. Supervisor Curt Hagman, San Bernardino County
- 4. Hon. Cheryl Viegas-Walker, City of El Centro
- 5. Hon. Jeffrey Giba, City of Moreno Valley
- 6. Hon. Pam O'Connor, City of Santa Monica
- 7. Hon. Margaret Clark, City of Rosemead
- 8. Hon. Rex Richardson, City of Long Beach
- 9. Hon. Richard Montgomery, City of Manhattan Beach
- 10. Marlon Boarnet, USC
- 11. Jack Ciulla, City of Santa Ana
- 12. Lea Deesing, City of Riverside
- 13. Crystal Dorn, Esri
- 14. Mark Greninger, Los Angeles County
- 15. Dr. Do Kim, Cal Poly Pomona
- 16. Scott Larson, Microsoft
- 17. Juan Matute, UCLA
- 18. Mojgan Sami, UC Irvine
- 19. Frank Ury, City of Mission Viejo



OPEN DATA/BIG DATA – SMART AND CONNECTED SCAG REGION COMMITTEE

AGENDA – MEETING NO. 1 TUESDAY, JUNE 13, 2017

CALL TO ORDER

(The Honorable Michele Martinez, Chair)

<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 Committee, must fill out and present a speaker's card to the Assistant prior to speaking. Comments will be limited to three (3) minutes. The Chair may limit the total time for all comments to twenty (20) minutes.

DISCUSSION ITEMS

1. Welcome Discussion

(The Honorable Margaret E. Finlay, SCAG President)

2. <u>Introductions</u> **Discussion**

(The Honorable Michele Martinez, Chair)

3. Review Committee Goals Presentation (Materials will be

(The Honorable Michele Martinez, Chair) provided at the meeting)

4. Review Committee Outlook Attachment

(Rye Baerg, SCAG Staff)

5. <u>Defining Open Data</u>, <u>Big Data</u>, and <u>Smart Cities</u>

(Rye Baerg, SCAG Staff; Lea Deesing, City of Riverside Chief Innovation Officer; Mark Greninger, LA County Chief Data; Scott Larson, Microsoft; Officer; Crystal Dorn, ESRI; Mike Jones, SCAG Staff)

6. Preview Regional Data Survey

(Kimberly Clark, SCAG Staff)

7. <u>Future Meeting Schedule</u> (The Honorable Michele Martinez, Chair)

Presentation (Materials will be provided at the meeting)

Presentation (Materials will be

provided at the meeting)

Discussion

FUTURE AGENDA ITEM/S

ANNOUNCEMENT/S

ADJOURNMENT





Open Data/Big Data—Smart and Connected SCAG Region Committee (Meeting #1)

6-13-2017



Committee Goals



Committee Goals

 Review SCAG's current data initiatives and tools within the context of big and open data

 Determine an appropriate role for SCAG in addressing the challenges and opportunities that big data, open data, and new technologies provide

 Develop strategic recommendations for the agency that can add value and hasten the adoption of innovative policies and programs across the region

Committee Goals

- Expected Deliverable: Regional Smart Cities Framework
 - A report to be adopted by the Regional Council to provide direction to SCAG
 - Policy framework for big data, open data, and smart cities
 - Overview of the topics addressed by the committee, including challenges and opportunities
 - Strategic priorities, including identified short term projects and long term initiatives



Meeting	1	2	3	4	5	6
Goals and Expectations						
Topic Deep Dive						
Data Survey						
Review SCAG Tools						
Smart Cities Framework						

Suggested Topics:

- Meeting #2: City Level Challenges and Opportunities
- Meeting #3: Adapting to New Technology
- Meeting #4: Private Sector and Third Party Data
- Meeting #5: Data Driven Decision Making and Transparency

Defining Open Data, Big Data, and Smart Cities

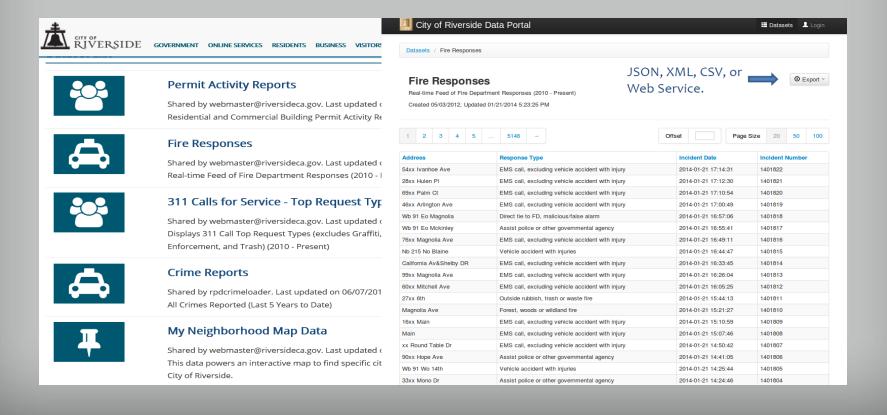


Open Data Defined

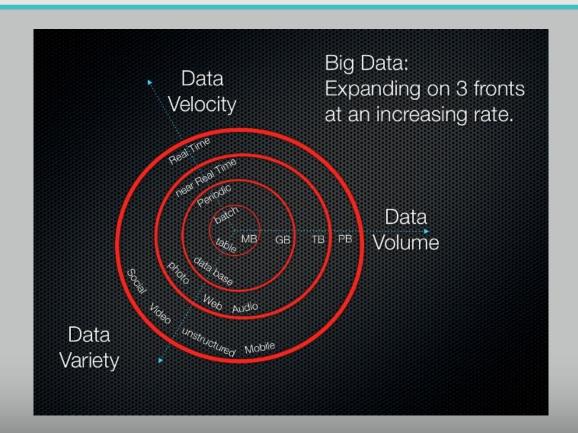
"Open data is the idea that some data should be freely available to everyone to use and republish as they wish, without restrictions from copyright, patents or other mechanisms of control."—Wikipedia

- Government agencies generally open the most requested existing data sets to the public first
 - This saves time because the data source is:
 - Researched thoroughly once
 - Redacted for privacy and secrity
 - Attorney approval is granted in advance of CPRA requests

Open, Reusable Data



What is BIG Data?



What is BIG Data?

Velocity

 Sensor-based information – traffic flow (Waze), parking

Variety

 Social Media - sentiment analysis, predictive policing, sidewalk repairs

Volume

Raster analytics - solar analysis (12.5 billion points)

Internet of Things/Analytics

Analytics

The Discovery and Communication of meaningful patterns in data -Wikipedia



Internet of Things (IOT)

The network of physical objects that contain embedded technology to communicate and interact with their internal states or the external environment -Gartner

Lots of devices generating lots of real-time data -Scott Larson

Examples of Analytics and Maturity Level

Prescriptive—What should we do?

How should we allocate staff? Which project should we do first?

Predictive – What Might Happen?

Is this a trend, or is it an anomaly?

Can we extrapolate to make predictions for other routes?

Descriptive with context? – Why Did it Happen?

Why do so many residents lack health insurance? Why did traffic spike on this route?

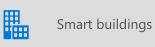
Descriptive – What Happened?

How many residents lack health insurance? What is the busiest route?

URBAN NSIGHTS

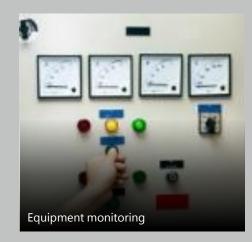


Examples of Internet of Things Solutions









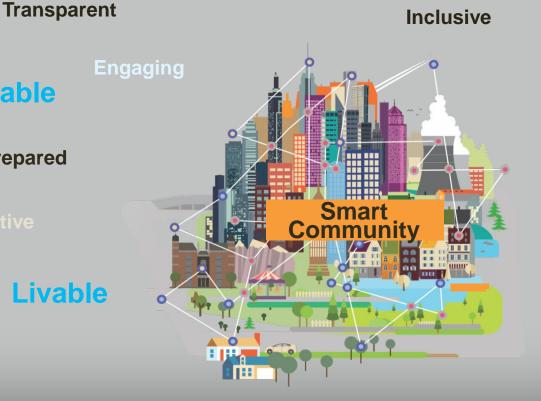
A Smart Community Is...

Sustainable

Prepared

Livable

Open



Efficient

Connected

Responsive

Resilient

Healthy

Safe

Aspirations



Those aspirations get translated into actionable, real-world initiatives



Internet of Things/Analytics





SCAG Benchmarking

- Compared SCAG's existing data tools/applications with the largest MPOs and selected regional cities
- Use to further the dialogue in determining the future needs of SCAG's data program
- Ensure the agency maintains a state-of-thepractice program while striving for state-of-the-art

















SCAG Benchmarking

State-of-the-Practice

- Static maps including those made with GIS
- Static Reports
- GIS Shapefiles
- Interactive maps
- Interactive datasets
- Aerial imagery/lidar

State-of-the-Art

- Dashboards/Summary data
- Technical advisory committees
- Bi-directional information sharing
- Open-data portal
- Enterprise data systems

Suggested Topics:

- Meeting #2: City Level Challenges and Opportunities
- Meeting #3: Adapting to New Technology
- Meeting #4: Private Sector and Third Party Data
- Meeting #5: Data Driven Decision Making and Transparency

Regional Data Survey



Survey Audience + Objectives

- Identify current data needs and opportunities from <u>local jurisdictions</u>
- Foster initiatives that support datadriven decision making in regional and local planning
- Meet data related opportunities and challenges of the next decade



Survey Content

Data Needs:

- In what areas of local policymaking, do you have the greatest challenge in securing local or regional data to make informed decisions?
- In what areas of local policymaking do you have sufficient amounts of data to make informed decisions?
- What types of data could SCAG provide that would be most beneficial to you?

Analytics Capabilities:

- On a scale of 1-10, how much capacity does your agency have to capture and use data to inform decision-making?
- Does your agency have a GIS department or other avenue for mapping data to better understand local policy issues?



Survey Content (Continued)

Data Resources:

- What data do you collect and report that might be helpful in understanding larger regional trends in housing, transportation, land-use, environment, etc.?
- SCAG's Role + Future Opportunities:
 - What role should SCAG play in the realm of big/open data and smart cities?
 - How often do you use SCAG data sources for your day-to-day work?
 - How could SCAG best promote existing data sets?
 - Are you aware of other regional data collaboratives or partnerships that SCAG should engage through this effort?





Thank You





Open Data/Big Data – Smart & Connected SCAG Region Committee Meeting Outlook

Meeting #1

<u>Objective:</u> Introduce the goals and expected outcomes of the committee. Provide an overview of what big data, open data, and smart cities are and begin to explore what SCAG's role might be in this field.

Proposed Agenda:

- Welcome
- Introductions
- Review Committee Goals
- Review Committee Outlook
- Defining Open Data, Big Data, and Smart Cities
- Preview Data Survey
- Discuss Topics for Future Meetings

Meeting #2

<u>Objective:</u> To understand the challenges and opportunities faced by local cities as they engage with big data, open data, and changing technology. Identify opportunities for SCAG to provide regional guidance and tools for local governments.

Proposed Agenda:

- City Level Challenges and Opportunities
 - Suggested Topics:
 - City Level Initiatives (Pasadena, Riverside, Los Angeles, San Diego)
 - Local Level Challenges and Opportunities (Standardization, Resources, Coordination, Best Practices)
 - California Community Foundation Social Change Data Commons
 - Impact on Local Cities of State and Federal Legislation
- Finalize and Approve Release of Data Survey
- Review Strategic Plan Goals Related to Data
- Existing SCAG Tools (Local Profiles, Local Input Process)

Meeting #3

<u>Objective:</u> To understand the impacts new and emerging technologies may have on the delivery of government services and identify strategies for assisting cities in meeting these changes. Identify opportunities for SCAG to provide regional guidance and tools for local governments.

Proposed Agenda:

- Adapting to New Technology
 - Suggested Topics:

- Technology (Automated Vehicles, Fiber Networks, Artificial Intelligence, Robotics, Small Cell Towers, etc.)
- Internet of Things
- Update on Survey Progress
- Update on Strategic Plan Integration
- Existing SCAG Tools (<u>PEV Atlas</u>, <u>GIS Open Data Portal</u>)

Meeting #4

<u>Objective:</u> To identify opportunities for engaging with private sector data providers to improve government services. To understand how SCAG may be able to leverage its regional capacity to provide access to these services to its members.

Proposed Agenda:

- Private Sector and Third Party Data
 - Suggested Topics:
 - Third Party Data (Google, Streetlight, HERE, etc.)
 - State and National Data Set (CHIS API, Census, etc.)
 - University Partnerships
- Review Final Survey Results
- Preliminary Draft of SCAG's Regional Smart Cities Framework
- Existing SCAG Tools (REVISION, Scenario Planning Model, Existing SCAG Data Sets)

Meeting #5

<u>Objective:</u> To understand how the benefits of new technologies, access to data, and future polices may vary across the region depending on readiness, resources, and responsiveness. Identify the opportunities for SCAG to provide regional leadership and support for low resource communities.

Proposed Agenda:

- Data Driven Decision Making and Transparency
 - Suggested Topics:
 - Data Equity/The Digital Divide
 - Data Driven Decision Making
 - Analytics and Dashboarding
- Review Draft SCAG's Regional Smart Cities Framework
- Existing SCAG Tools (Active Transportation Database, EFID/CRIA Tool, Green Region Initiative)

Meeting #6

<u>Objective:</u> To finalize a Regional Smart Cities Framework that will provide SCAG with a blueprint for providing regional guidance, developing initiatives, and engaging partners in the realm of big data, open data, and smart cities.

Proposed Agenda:

• Finalize SCAG's Regional Smart Cities Framework

Loc	al Data Needs
	what areas of local policymaking, do you have the greatest challenge in securing local or regional to make informed decisions? (Check all that apply)
	Land Use
	Transportation
	Water
	Energy
	Health
	Demographic Changes
	Economic Development
	Climate Adaptation
	Education
	Law Enforcement
	Open Space
	Housing
	Environmental Justice
	Other (please specify)
	Housing Environmental Justice

(Check all that apply)							nformed de	
Land Use								
Transportation								
Water								
Energy								
Health								
Demographic Changes								
Economic Developmen	t							
Climate Adaptation								
Education								
Law Enforcement								
Open Space								
Housing								
Environmental Justice								
Other (please specify)								
Other (please specify)								
7. On a scale of 1-10, he decision-making?	now much ca	apacity do	es your ag	ency have	to capture	and use da	ata to infor	m 🌣
7. On a scale of 1-10, h decision-making?	$\stackrel{\wedge}{\sim}$	$\stackrel{\wedge}{\sim}$	$\stackrel{\wedge}{\sim}$	$\stackrel{\wedge}{\Sigma}$	Δ	$\stackrel{\wedge}{\Sigma}$	Δ	\$

9. What data do you collect and report that might be helpful in understanding larger regional trends in housing, transportation, land-use, environment, etc.? (Check all that apply)
Land Use
Transportation
Water
Energy
Health
Demographic Changes
Economic Development
Climate Adaptation
Education
Law Enforcement
Open Space
Housing
Environmental Justice
Other (please specify)

0. What role should SCA				
Convene Data Users	No Role	Minor Role	Major Role	No Opinon
Develop Data Tools				
Standardize Data				
Coordinate Data Collection	0		0	
Develop New Data Sets				
Daily Weekly Monthly Rarely Never	ould SCAG provide	a that would be most b	eneficial to you? (Che	ack all that anniv)
Weekly Monthly Rarely Never 2. What types of data co	ould SCAG provide	e that would be most b	eneficial to you? (Che	eck all that apply)
Weekly Monthly Rarely Never 2. What types of data co	ould SCAG provide	e that would be most b	eneficial to you? (Che	eck all that apply)
Weekly Monthly Rarely Never 2. What types of data co	ould SCAG provide	e that would be most b	eneficial to you? (Che	eck all that apply)
Weekly Monthly Rarely Never 2. What types of data co GIS Datasets City Level Data Census Data	ould SCAG provide	e that would be most b	eneficial to you? (Che	eck all that apply)
Weekly Monthly Rarely Never 2. What types of data co GIS Datasets City Level Data Census Data Parcel Data	ould SCAG provide	e that would be most b	eneficial to you? (Che	eck all that apply)
Weekly Monthly Rarely Never 2. What types of data co GIS Datasets City Level Data Census Data Parcel Data General Plan Data	ould SCAG provide	e that would be most b	eneficial to you? (Che	eck all that apply)
Weekly Monthly Rarely Never 2. What types of data co GIS Datasets City Level Data Census Data Parcel Data General Plan Data Transportation Data	ould SCAG provide	e that would be most b	eneficial to you? (Che	eck all that apply)

	I Don't Like This Idea	This is an Ok Idea	This is a Great Idea
lost Hackathons			
onduct In Person rainings	\bigcirc	\bigcirc	
Host Webinars			
Develop Regional nitiatives	\bigcirc	\circ	\bigcirc
Provide Online Resources	0	0	
her Ideas? (please specify)			

Follow Up	
14. Are you aware of this effort?	other regional data collaboratives or partnerships that SCAG should engage through
15. Who would be the conversations on big	best person within your agency to contact about being a part of regional data and open data?
First Name Last Name	
Email	