Municipal Data in Action

2021 League of California Cities Conference and Expo

Sept. 24, 2021
Sacramento, CA
Dan Henderson
Esri California
Data and Analytics Driven Decisions

Examine racial inequities in unsolved murder cases
Identify where unsolved homicides are most prevalent and which segments of the population are most impacted.

Every Community Aspires to Be a Smart Community
Racial Equity
Create and sustain positive change with GIS

Advance racial equity, social justice, and sustainable, inclusive development.

Working to achieve racial equity in city and county government

Cities, counties, and regions worldwide are addressing institutional racism to ensure opportunities for all their constituents—and geography is critical to the solution. ArcGIS can help in creating a future where race and place no longer shape experiences and outcomes.

Map and analyze inequities
Apply a racial equity lens through maps and spatial analysis to reveal and understand inequities in experiences and outcomes in your community.

Operationalize racial justice best practices
Use the maps, spatial analysis, and data to design, plan, and deliver equitable resource allocations that alleviate burdens on communities of color.

Manage performance for racial equity
Leverage decision-making tools to visualize social outcomes at a scale that’s meaningful to all.
Ron Galperin

L.A. Controller

The Los Angeles City Controller is the taxpayers' watchdog, who oversees finances, spending and operations.

Paymaster, Auditor, Chief Accounting Officer
Role of Data in Local Government

- Modernize Operations
- Improve Policy-Making
- Build Awareness
- Connect with Communities
Municipal Data in Action
Transparency and Accountability

CITY FINANCES DASHBOARD

ARP DATA STORY

COVID SPENDING TRACKER
Connecting with Resources

COVID RESOURCE HUB

STATEWIDE FOOD MAP

Free Food Resources in California

This map includes 1,800+ food banks, food pantries and food distribution centers across the state of California.

Click on a dot to see the name, location and contact information for each food resource. You can also use the search bar at the top left corner to find the resources nearest you.

Please note that food distribution dates and times vary and are subject to change. Before visiting, please contact the location to verify it is open and to find out if you live within its service area. Some sites may also require photo identification and successful completion of an intake.

COVID-19 Dashboard: LA Controller Ron Galperin
Informing Policy

EQUITY INDEX

Rent Burdened Angelenos

More than 60% of Angelenos are renters, one of the highest rates of any major area in the nation. A 2019 report found that Los Angeles is the third-most rent-burdened city in the country. The U.S. Department of Housing and Urban Development considers a family to be rent burdened if they spend 30% or more of their annual income on rent. In L.A., many families spend half their income or more, as illustrated in the map below.

PROPERTY PANEL

HHH PROGRESS TRACKER

HHH Projects in Pre-Development

Most HHH projects are currently in the pre-development phase. Pre-development is a broad term that includes projects that have been approved and the developers are in the process of applying for funding, securing land use approvals, engaging the community and obtaining permits.

There are 78 projects in pre-development. When completed, they will provide 4,015 supportive housing units and 1,142 non-supportive units.
Improving Services

ILLEGAL DUMPING DASHBOARD

311 DASHBOARD
What's Next?

Data + Analysis + Political Will = GOOD GOVERNMENT
Thank You
Eric Guerra
Councilmember
City of Sacramento
Everyday the Sacramento City Council makes decisions that affect the lives of our citizens.

Our City Council determines which policies to enact and what public problems to address.

Different City departments establish how programs should be run and where the budget dollars are best spent, as well as who qualifies for assistance.
The Sacramento Open Data Portal is primarily used for the routine management of programs and services—to make strategic data-informed decisions.

Analysts can uncover important insights by cross-referencing data sets, highlighting trends, finding correlations, running statistical experiments, mapping geographical data to show areas of high activity, and visualizing data in charts and graphs.

The Open Data Portal information can include any data that is necessary to implement and oversee a program, such as demographics, outcomes, and enrollment details.

Data from this portal can reveal the root cause of a persistent issue, diagnose breakdowns in a system, highlight obstacles, and predict future phenomena, allowing us to be better to a problem and make more strategic decisions.
Whether it's leaf pickup, street sweeping or drinking water, Sacramento is a leader in providing quality customer service.

Sacramento City 311 enhances these amenities by making City government even more accessible.

Sacramento City 311 is a centralized call center for the City of Sacramento that is intended to make life a little easier for its residents, businesses and visitors.

Anyone within the Sacramento City limits can call 311 free of charge from a land-line telephone or cable line. 311 works on most cell phones as well. Cell coverage is determined by individual service providers.

Launched in 2008, 311 logs over 500,000 interactions every year. Equating to one report per Sacramento Resident.
How it Works

1. REPORT
   You report an issue or submit a service request through the 311 hotline or Sac311 phone application.

2. REVIEW
   Dispatchers will review your request and assign it to the appropriate City department for response.

3. WE'RE ON IT
   Our work is underway. Estimated times to complete work may vary by type of service request.

4. CHECK UPDATES
   Log in or create an account to track your service request submissions on Sac311.
Redistricting Sacramento

Using citizen-powered mobile apps (311) and state-of-the-art geographic information systems (GIS), the City of Sacramento is enabling our biggest stakeholders and residents — to play an active role in making cities smarter, and more efficient.

These tools are also giving city officials an unparalleled level of insight not only into what is happening throughout their communities, but also where and why.
July 2021 redistricting mapping application with practice data will be available to the public. This database will house all redistricting input as it comes in from the public.

On September 30, 2021, 2020 Census Redistricting data will be released and will be uploaded to the mapping application for public access.

Public engagement will increase transparency, neighbors will be able to look at the same public input City Council member will have at their disposal.

How and where districts are drawn can shape communities’ ability to elect the representatives of their choice.

Districts must be made as equal in population as practicable so that communities have equal access to political representation.
Racial and economic inequality are the defining issues of our time. Solving homelessness and creating jobs, during a pandemic disproportionately affects the health and livelihoods of ethnic minorities.

Data that is broken down by race, gender and ethnicity is essential in improving Racial Equity in Sacramento.

Leveraging GIS to understand racial equity in our city help us understand and make equitable decisions.

Using GIS provides us with a better understanding of issues within our city.
The City of Sacramento is using geographic information system (GIS) to address institutional racism and ensure opportunities for all our constituents.

By using mapping and geographic analysis we can uncover and understand inequalities in our communities. This will aid the City Council in allocating equitable resources that will assist communities of color.

Criminal Justice Inequalities: arrest rates, sentencing, police violence

Economic Inequality: income, education, access to infrastructure (transportation, internet)

Health Inequalities: reduction in quality of care, unhealthy levels of exposure, public health distrust, mental health

Social Justice: access to housing, hate crimes and speech, voting representation
Ramya Sankar
Innovation and Technology Analyst
City of San Leandro
Data is...

- Informative-baseline for current state
- Indicator-alert when something is wrong
- Predictor-patterns for when action is needed
So What?

What is the data telling us?

Why should we care?

How can the data help us make decisions?
Examples from San Leandro
Covid-19 and Communications

- Pandemic created a lot of unknowns
- Information needed to be shared quickly and accurately
- Information about resources originating from community organizations and school districts across the City
GeoSL

Online portal for data and maps including frequently requested information

Goal: Connection to Resources

Challenge: Organizations across the City providing resources
Food Access Map
Transparency

What is happening around me?

Request for service status

Insights into City operations
City Dashboard

Dashboard for the public to view data from activities reported to and processed by the City in a map view.

Goal: Increase transparency by making it easier to look up information about what is happening in your area

Challenge: Data in different systems - Permits in Accela; service requests in mobile 311; PD service calls
City Dashboard
Data in Context

Figure 5: Community Emissions, 2005
- Transportation: 50%
- Residential energy: 14%
- Waste: 7%
- Nonresidential energy: 25%
- Off-road: 3%
- BART: Less than 1%

Figure 6: Community GHG Emissions, 2017
- Transportation: 60%
- Residential energy: 13%
- Off-road: 5%
- Water and wastewater: < 1%
- Nonresidential energy: 15%
- Waste: 6%
- BART: 1%
Data in Context

Table 2  San Leandro Community GHG Emissions, 2005–2017

<table>
<thead>
<tr>
<th>Sector</th>
<th>2005 MTCO$_2$e</th>
<th>2010 MTCO$_2$e</th>
<th>2015 MTCO$_2$e</th>
<th>2017 MTCO$_2$e</th>
<th>Change in Emissions, 2005–2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation</td>
<td>363,550</td>
<td>372,220</td>
<td>353,130</td>
<td>344,290</td>
<td>-5%</td>
</tr>
<tr>
<td>Nonresidential energy</td>
<td>182,950</td>
<td>146,600</td>
<td>96,490</td>
<td>88,620</td>
<td>-52%</td>
</tr>
<tr>
<td>Residential energy</td>
<td>101,760</td>
<td>100,650</td>
<td>83,830</td>
<td>73,320</td>
<td>-28%</td>
</tr>
<tr>
<td>Waste</td>
<td>46,910</td>
<td>40,080</td>
<td>38,880</td>
<td>34,860</td>
<td>-26%</td>
</tr>
<tr>
<td>Off-road</td>
<td>23,190</td>
<td>22,860</td>
<td>30,940</td>
<td>26,970</td>
<td>16%</td>
</tr>
<tr>
<td>BART</td>
<td>2,920</td>
<td>3,030</td>
<td>3,720</td>
<td>3,710</td>
<td>27%</td>
</tr>
<tr>
<td>Water and wastewater</td>
<td>-</td>
<td>2,410</td>
<td>2,470</td>
<td>1,820</td>
<td>-25%*</td>
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<tr>
<td>Total</td>
<td>720,990</td>
<td>687,860</td>
<td>609,460</td>
<td>573,580</td>
<td>100%</td>
</tr>
<tr>
<td>Biomass sequestration</td>
<td>-530</td>
<td>-530</td>
<td>-530</td>
<td>-530</td>
<td>0%</td>
</tr>
</tbody>
</table>
Climate Action Plan

Outlines the implementation strategies and work plan to reduce greenhouse emissions.

Goal: Equitable decision making and planning

Challenge: GHG emissions data alone does not provide informative insight on community needs and behavior
Climate Action Plan

GHG Projections

Vulnerability Assessment

Figure 12: San Leandro GHG Emissions with Reduction Strategies, 2020 to 2050 (Absolute) (MTCO₂e)

- 2030 target: 40% below 2005 levels
- 2050 target: 80% below 2005 levels
- Emissions reduced by existing and planned efforts
- Additional emissions reductions to meet 2050 target

Figure 9: Hazard Areas in San Leandro

- San Leandro city limits
- Freeways and roadways
- Wildfire hazard zones
- Flood hazard zones

Sea level rise (2100)
- 32 inches
- 47 inches
Climate Action Plan

- **Increase development that supports reduced auto dependencies.**
  - Added: 9/10/2020  |  3 pros and cons  |  closed

- **Improve community-wide preparation and response to hazardous conditions.**
  - Added: 9/10/2020  |  3 pros and cons  |  closed

- **Promote the efficient use of existing water supplies.**
  - Added: 9/10/2020  |  1 pro or con  |  closed

- **Increase residential, commercial, and industrial renewable energy use.**
  - Added: 9/10/2020  |  3 pros and cons  |  closed
Climate Action Plan

Increase the use of electric vehicles and low-carbon fuels.

Opinions about this proposal

Top Cons
- Electric cars are still cars and we really need to think how people can possibly get around our city without a car before prioritising cars.

Top Pros
- The city can encourage this by having more charging stations which has the added benefit of encouraging people to stop, charge and shop (more tax $) in our city.
- Promote a diverse range of EVs, including equitable use of scooters and electric bikes, beyond just automobiles.
Climate Action Plan

Photo courtesy of Wing Sheung Mok

Photo courtesy of Hoi Fei Mok

Photo courtesy of PlaceWorks
Key Takeaways

1. What information do people need and can they take action from information provided?

2. Is the data presented easy to interpret and use?

3. Lived experiences provide context to data insights