

*This publication has been developed by the [Policy Advisory Workgroup](#) of the California GIS Council.
Reach out to jacob.mark@woolpert.com with any tips, questions, comments, or suggestions.*

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New Legislation

Q1 Editions provide a list of GIS-related bills that were introduced during the quarter, along with some relevant links of interest. **Q2 Editions** dive deeper into the bills that have met the deadline to be passed out of their house of origin. **Q3 & Q4 Editions** will provide status updates on the bills examined in Q2.

- ❖ **January 31** was the last day for each house to pass bills introduced in 2021 in their house
- ❖ **February 18** was the last day for new legislation to be introduced

SB832 | [Water rights: measurement of diversion](#) | Water monitoring efforts
(Sen Dodd [release](#))

SB833 | [Community Energy Resilience Act of 2022](#) | distributed energy, microgrid locations
([Storymap](#); [GIS Suitability Analysis](#); [Clean Coalition](#); [DOE Microgrids Map](#); [Energy Maps CA](#))

SB852 | [Climate resilience districts: formation: funding mechanisms](#)
(Fact [Sheet](#); APA CA support [letter](#))

SB867 | [Sea level rise planning: database](#) | sunset extension
([Planning for Sea Level Rise](#))

SB876 | [Educational technology: Digital Education Equity Program: county offices of education](#)
(Becker [release](#); GovReport 1/27 [article](#); GIS as a part of DEEP [skills](#); STEM [success](#))

SB1197 | [Water Innovation and Drought Resiliency Act of 2022](#)
(AWRA [2020](#) Geospatial Water Technology Conference; [2022](#) Conference May 9-12)

SB1325 | [California Techquity Innovation Program](#) | technology entrepreneurship equity
(locating “disadvantaged” areas; would geospatial ventures be considered?; [iHub²](#))

AB2022 | [State Government](#) | removing “sq--w” term from geographic names
(GVWire 2/15 [Article](#))

AB2387 | [Safe Drinking Water, Wildfire Prevention, Drought Preparation, Flood Protection, Extreme Heat Mitigation, and Workforce Development Bond Act of 2022](#)
(\$7.43B in bonds; Sections 80551-2; explicit GIS mention scarce; see [SB45](#) in [Dec 2020's Dome](#))

AB2732 | [Coastal resources: research: landslides, erosion, and inundation flooding: advanced warning](#)
(Recent Scripps Coastal Cliff research [money](#) from 2021's AB66)

AB2805 | [DFW: advance mitigation and regional conservation investment strategies](#)
(See 1853c2-3; F&W RCIS [Program](#) – [guidelines](#) & [submittals](#); why it [works](#))

Newly Proposed County Redistricting Commissions – [Kern](#), [Fresno](#), [Riverside](#) (+ LA County [Changes](#))
Fresno (Your Central Valley 2/15 [article](#); County supervisor [response](#))
Riverside (Cervantes [release](#); Desert Sun 2/7 [article](#))

2022-23 Budget Proposal

Q1 Editions provide a detailed breakdown of GIS-related items contained in the Governor’s Budget Proposal released in January. **Q2 Editions** highlight the Governor’s May Revision, the legislature’s proposals, and the final Budget Bill(s). **Q3 & Q4 Editions** follow up with administrative implementation of funded programs (when possible). They also address items in trailer budget bills as applicable.

- ❖ **January 10:** The governor released his initial [budget proposal](#). See Budget [Summary](#) and [Charts](#).
 - \$286.4B, 9% higher than last year; Reserves: \$34.6B; [Gann \(spending\) limit](#) *not* exceeded
 - **CAVEAT:** Proposal was made *during* Omicron and *before* the Russia/Ukraine War
- ❖ **February 1:** Deadline for agencies to inform the Dept of Finance of major proposed regulation
 - When economic impact exceeds \$50 million in a 12-month period
- ❖ High-Level Resources
 - Governor Newsom’s [video](#) presentation of the budget (Summary - [California Blueprint](#))
 - [AB1624](#) and [SB840](#) track the Assembly and Senate Budget Bills, respectively
 - [Senate](#) and [Assembly](#) released summaries of the governor’s proposed budget
 - [Senate](#) and [Assembly](#) also held Full Budget Committee Reviews (video links)
 - Watch California Natural Resource Agency’s [Climate Budget Briefings](#)
 - See the LAO’s excellent [Overview of the Governor’s Budget](#)
 - *Surplus:* \$29 billion - \$17.3B (60% of [discretionary](#)) on one-time investments
 - Biggest categories: education & transportation

GIS-Related Items

(Section headings link to the Governor’s summary documents. Dollar amounts link to the Budget Change Proposal associated with the item, if available/applicable.)

- [Transportation](#)
 - \$40B – Federal Infrastructure Investment and Jobs
 - According to [LAO Report](#):
 - \$29.5B – federal aid highway programs (40% to local agencies)
 - \$9.5B – federal transit programs
 - \$384M – electric vehicle charging infrastructure
 - [\\$9.1B](#) – State Transportation Infrastructure Package (“Clean Transit Projects”)
 - \$4.2B – High Speed Rail Bond Funds (Central Valley Section)
 - See the High-Speed Rail’s [Draft 2022 Business Plan](#)

- *Discussion Issue 1 in [February 23](#) Assembly Subcommittee 3 Hearing (23m50s)*
 - [\\$30M](#) - Supply Chain, Operational and Process Improvement Grants
 - Administered by [GO-Biz](#); Includes “Data interconnectivity” improvements
 - [LAO Assessment & Concerns](#):
 - GO-Biz is waiting for Spring 2022 results of a Federal Maritime Commission [data initiative](#) before submitting a proposal
 - Data standards would increase efficiency in the flow of goods, but this is a concern with international scope. Federal agencies are better suited to coordinate and incentivize standards
 - Is GO-Biz the best for this? Agencies with more expertise:
 - CalSTA or Caltrans [Office of Freight Planning](#)
 - In the May revision, look for more justification from the administration
 - *Discussion Issue 15 in [February 9](#) Senate Subcommittee 4 Hearing (1h59m)*
 - *Discussion Issue 7 in [February 22](#) Senate Subcommittee 5 Hearing (59m15s)*
 - *Discussion Issue 1 in [March 30](#) Assembly Subcommittee 3 Hearing (30m40s)*
 - [\\$6.8M](#) - Transportation System Network Replacement (TSNR) Year 2 (+10 positions)
 - Compliance with federal requirements for roadway inventory information
 - Current TSN covers less than 10% of public roads in California
 - See [this](#) Caltrans 2020 presentation for additional information
 - *Discussion Issue 11 in [February 22](#) Senate Subcommittee 5 Hearing (1h46m27s)*
 - [\\$414K](#) – Unmanned Aircraft System (UAS) Program (+ 2 positions)
 - implement a real-time fleet management system/solution for its UAS Program
 - [UAS program](#) administered by Caltrans’ Aeronautics Division
 - 2 ongoing implementation studies – [UC Merced](#) and [CSU Fresno](#)
 - *Discussion Issue 12 in [February 22](#) Senate Subcommittee 5 Hearing (1h59m39s)*
 - *Discussion Issue 5 in [March 30](#) Assembly Subcommittee 3 Hearing (30m40s)*

➤ [Water & Drought](#)

- [\\$500M](#) - Drought Resilience and Response Package
 - Crowfoot: “Adjusting systems to the new drought normal”
 - \$5M – Technical Assistance & Drought Relief for Small Farmers
 - Including “land use mapping and imagery”
 - \$5M – Landscape Mapping & Efficiency
 - Including assistance to the [Model Water Efficient Landscape Ordinance](#)
 - \$5M – Technical Assistance for Agricultural Water Suppliers
 - Goal: improve water use efficiency
 - Land use mapping & imagery to “accurately estimate water demand and use”
 - *Discussion Issue 1 in [March 2](#) Assembly Subcommittee 3 Hearing (19m30s)*
- [\\$2.25M](#) – Advancing Essential Open Data for Transparency and Water Resilience
 - Over a 3-year period (+\$1.1M/year more starting in 2022-23)
 - For DWR to support [AB1755](#) work with the [California Water Data Consortium](#)
 - Goal: Address CA’s water management challenges through data governance
 - Consortium: outreach & education; data pilot programs; recommendations
 - *Non-Discussion Issue 17 in [March 2](#) Assembly Subcommittee 3 Hearing*
 - *Approved 4-0 by Senate Subcommittee 2 at [February 9](#) hearing*

➤ **Environmental Protection & Conservation**

- **\$30M** – Centralizing and Expanding Community Air Monitoring (Hires contractors)
 - Deploy new *mobile* [Community Air Monitoring](#) data collection and visualization approaches; characterize pollutants at neighborhood/community scale
 - Further development of [AQview](#), a public data platform for air quality data
 - Data is [available](#) now for download
 - *Discussion Issue 3 in [March 16](#) Assembly Subcommittee 3 Hearing ([2h17m15s](#))*
- **\$3.26M** – Increase Functionality of [WellSTAR](#) (+ 16 Positions)
 - WellSTAR = Well Statewide Tracking and Reporting System ([CalGEM](#))
 - Includes [Well Finder](#), a GIS application
- **\$660K** – Utilizing Methane Satellite Data (+ 2 positions)
 - [CA Satellite Partnership](#): CA Air Resources Board (CARB) is launching 2 satellites (2023) jointly with Planet, Inc, NASA’s Jet Propulsion Lab, and several donors
 - [Carbon Mapper](#) Program – will identify methane leaks from space
 - Funds for Public Data Portal, data analysis, and mitigation planning
 - *Approved 3-1 by Senate Subcommittee 2 at [February 9](#) hearing*
- **\$370K** – Strengthening [CalEnviroScreen](#) (+ 2 positions)
 - Identifies California communities most affected by various sources of pollution
 - *Approved 3-0 by Senate Subcommittee 2 at [February 9](#) meeting*
- **\$197K** – Support the [Mines Online Database](#) (+ 1 position)
 - Provides access to mine information and documents
 - Produced by the Division of Mine Reclamation (DMR)

➤ **Wildfire & Hazard Prevention & Response**

- **\$1.2B** - Additional Wildfire and Forest Resilience Package ([LAO Analysis](#))
 - \$15M – Monitoring & Research (\$7M in 2022-23 and \$8M in 2023-24)
 - Assists CalFIRE’s [Fire and Resource Assessment Program](#) (FRAP)
 - [CalMapper](#) – forest and fuels management projects
 - [Forest Health Research Grant Program](#)
 - \$5M - Remote Sensing/ LiDAR (\$3M in 2022-23 and \$2M in 2023-24)
 - “Will improve predictive modeling and project planning analytics”
 - *Discussion Issue 1 in [February 2](#) Assembly Subcommittee 3 Hearing ([25min](#))*
 - *Discussion Issue 19 in [February 16](#) Senate Subcommittee 2 Hearing ([Video](#))*
- **\$72.3M** – Computer Aided Dispatching (CAD) and Automatic Vehicle Locators (AVL)
 - CAD: utilized by CalFIRE’s Emergency Command Centers (a.k.a. PSAPs)
 - AVLs: ensure closest resources are dispatched for incident response
 - With CAD, navigation to incident is possible
 - used in Camp (2018) and North Complex (2020) Fires
 - CAD Updated every 5 years (contracts expire June 30, 2022)
 - **Outcome:** Dispatch times from 5 minutes to 45 seconds
 - See [this article](#) for an overview of how GIS overlaps & supports these systems
 - [LAO Analysis](#) Concerns:
 - Does the benefit of extending AVL to all vehicles outweigh the substantial cost?
 - Is a 5-year replacement cycle necessary for every vehicle?
 - *Discussion Issue 3 in [February 2](#) Assembly Subcommittee 3 Hearing ([1h39m](#))*

- [\\$30M](#) - Fire Integrated Real-time Intelligence System (FIRIS) (+31 Positions)
 - Goal: “increase the real-time information and situational awareness available to the state and California’s mutual aid system responders and managers on all hazards events, including wildfires”
 - Includes aircraft, high-definition real-time video, infra-red, and data analysis
 - Fire perimeter mapping within 5 minutes of aircraft arrival
 - 3 pilot program launched since 2019 in Southern California.
 - Administered by [Orange County Fire Authority](#) (See [After-Action Report](#))
 - CalFire would take over the program under this proposal
 - Will support the [Wildfire Forecast and Threat Intelligence Integration Center](#)
 - [LAO Analysis](#) Concerns:
 - Is the 24-hour plane coverage necessary considering current “access to similar aerial data and capabilities through a partnership with the California Military Department”?
 - Suggests the Legislature hear alternative proposal levels
 - *Issue 3 in [February 2 Assembly Subcommittee 3 Hearing \(1h43m; see esp. 2h1m\)](#)*
 - *See LAO’s comments and criticism, starting on page 22 of the PDF*
 - *Discussion Issue 20 in [February 16 Senate Subcommittee 2 Hearing \(Video\)](#)*
- [\\$25.6M](#) - Statewide Seismic Hazards Reduction (+21 positions)
 - Includes funding for updating [seismic hazard maps](#)
- [\\$2.7M](#) – Pre-Wildfire Geologic Hazard Mitigation Planning & Post-Fire Hazard Identification (+8 positions)
 - \$432K – 4x4 field work vehicles equipped with LiDAR and other equipment
 - [Post-Fire Watershed Assessments](#) include soil burn severity mapping
 - See [USGS](#) for info on GIS tools utilized in Post-Fire Assessments
- [\\$1.8M](#) – Establish the Office of Wildfire Technology Research and Development
 - Mandated by the passage of [SB109](#) in 2021
 - *Approved 4-0 by Senate Subcommittee 2 at [February 16 meeting](#)*

➤ [Health & Human Services](#)

- [\\$235M](#) – Disease Surveillance Readiness, Response, Recovery, and Maintenance
 - Several Research Scientist positions for mapping and data analysis
 - Nearly 400 new positions total
- [\\$10M](#) – Climate & Health Surveillance Program
 - “Link public health and health care data sources, in order to create real-time notification for local public health jurisdictions, providers, and patients for emerging or intensified climate-sensitive diseases”
- [\\$2.1M](#) - Master Plan for Aging [Data Dashboard](#)
 - Bolsters existing dashboard to drive outcomes and sustain public engagement

➤ [Miscellaneous](#)

- \$2M Bureau of Cannabis Control - to develop a data warehouse
 - *Discussion Issue 1 in [March 1 Assembly Subcommittee 4 Hearing \(26min\)](#)*
- [\\$846K](#) - Digital Infrastructure and Video Competition Act Changes (+ 4 positions)
 - Due to the passage of [SB28](#) in 2021 (see [Q4 2021](#) edition)
 - Video Franchise holders must report service data by location served
 - As opposed to by census tract level in the past

➤ **Non-Proposal Initiatives**

- \$2M – Professional Development for K12 Teachers in Using Geospatial Technology
 - Budget line-item request initiated by [California Environmental Technology Education Network](#). More details available [here](#).
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Follow Up

This section provides updates on items discussed in previous editions of this newsletter, including legislative and budgetary items.

Middle-Mile Broadband Budget Items:

- ❖ These efforts will enable *last-mile* network connectivity throughout California
- ❖ [Middle Mile Advisory Committee](#) (MMAC) Meetings:
 - [January 21](#) - included extensive discussion of broadband mapping efforts
 - [March 18 – Presentation](#) included detailed route recommendations for each project
- ❖ GIS Resources:
 - [Map](#) showing details of each project
 - Additional [Data and Analysis](#) related to the project
- ❖ The California Dept of Technology (CDT) gave a March 1 [update](#) to Assembly Budget Subcommittee 4, the initiative’s first budget committee update. (Starts at 2h21m35s [here](#))
- ❖ [Broadband For All](#) site launched March 7

California Redistricting Commission:

- [FAQs](#) about the new maps
 - February 10 was the deadline for legally challenging/block the maps; [No one sued](#)
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Other State Initiatives

GIS Professional Groups

- ❖ California GIS Council March 2022 Workgroup Reports
 - [Tribal](#), [Elevation](#), [National Hydrography Dataset](#), & [State Plan Coordinate System](#)

California Innovation

- ❖ California’s Office of Small Business Advocacy (CalOSBA)
 - California Inclusive Innovation Hub ([iHub²](#))
 - Focus: incubation and acceleration programs; technology & science-based
 - Designees (10) each receive \$250K
 - Example: [Larta Institute](#) – 30% of showcased enterprises are geospatial

Disaster & Hazard Management/Response

- ❖ [Strategic Plan for Expanding the Use of Beneficial Fire](#)
 - Released March 30 by [California’s Wildfire & Forest Resilience Taskforce](#)

- See Items 4.3 & 4.5 [here](#) for details on Task Force’s GIS efforts
 - Follow their bi-monthly meetings [here](#)
- See esp. Goal 9: Improve Data Collection and Utilization (pages 42-44)
- See current ignitions at the [Prescribed Fire Information Reporting System](#)
- ❖ California Council On Science & Technology (CCST)
 - Webinar: [Establishing a Data Infrastructure to Effectively Respond to the Next Disaster](#)

Climate, Conservation, & Natural Resources

- ❖ [California Water Watch](#) - statewide drought conditions monitor
 - Mandated by the [2021 Drought Emergency Proclamation](#) (see Order #12 on pages 4-5)
- ❖ [Sea-Level Rise \(SLR\) Action Plan](#) – FY 21/22-24/25
 - Work with FEMA on Advisory Coastal Hazard Maps to update FEMA’s maps
 - Work with CalTrans “to understand spatially how SLR will impact critical infrastructure”
 - Vulnerability mapping with [BCDC](#) (Bay Area) and [DSC](#) (Delta)
- ❖ [Habitat Connectivity Project](#)
- ❖ Internet of Water – [Legislative Approaches to Water Data Policy](#)
 - Mentioned CA’s [implementation](#) of the 2016 Open and Transparent Water Data Act
- ❖ [Snowpack Prediction Challenges & LiDAR Solutions](#)
 - NASA Jet Propulsion Lab’s [Airborne Snow Observatory](#)
 - New approach using [WRF-Hydro Modeling System](#)
- ❖ [California Climate Adaptation Strategy](#) – website launch
 - Links the state’s existing and planned efforts to show how they fit together
 - Highlighted programs for climate resilience [priorities](#) include data-based solutions
- ❖ LAO Series on [Climate Change Impacts Across California](#)
 - [Housing](#) – “understanding how maps of future risks for individual hazards overlay to affect a community’s overall risk will be important”
 - Refers to [Adaptation Clearinghouse](#), a database of climate adaptation resources
 - Many geospatial tools, including [Cal-Adapt](#)

Federal Legislation (U.S. Congress)

The following are federal bills introduced or advanced in *this* quarter:

[HB5512](#) | Reviewing and Updating Regional And Local Broadband Mapping Act

Notes: permits States to submit their own mapping data to use for any broadband-related funding program

[SB3563](#) | Countering CCP Drones Act

Notes: Adds DJI Technologies equipment to the prohibited UAS list under the Secure and Trusted Communications Networks Act of 2019. CA DWR personnel have been advised to take note for state procurement

Links to Past Editions:

[Quarter 1 2021](#)

[Quarter 2 2021](#)

[Quarter 3 2021](#)

[Quarter 4 2021](#)

California's GIS community Links:

[CA GIS Council](#)

[CalURISA](#) – California's URISA chapter

[California Geographic Information Association \(CGIA\)](#)

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