

# CALIFORNIA GIS COUNCIL

## Quarterly Meeting - March 12, 2020 10:00 a.m. – 12:00 noon

Isaac Cabrera, Chair and Jane Schafer-Kramer, Vice Chair

901 P Street – Department of Water Resources Bonderson Building – Sacramento, CA 95814

Enter from corner of 9<sup>th</sup> and P, sign in at the security desk, proceed to 2<sup>nd</sup> floor, Room 213B, Oceanside Room (224)

Skype for Business link: <https://meet.lync.com/cawater-water/jane.schafer-kramer/8HB350T4>

To join by phone: (916) 573-2034 conference code 309929715

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10:00 – 10:10	<b>Welcome and Introductions</b> <b>Call for Nominations for Vice Chair</b>	Isaac
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10:10 – 10:25	<b>Executive Committee Announcements</b>  New Tribal Representative – Donna Begay Website Re-Design – Shital Dhakal	Isaac
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10:25 – 10:55	<b>Item #2</b>  California Geoportal – CA Department of Technology	
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10:55 – 11:20	<b>Item #3</b>  Role of the GIS Council Now and Moving Forward <a href="http://cgia.org/cagiscouncil/wp-content/uploads/2020/03/StrategicPlanWorkgroup_Report_20200312.pdf">http://cgia.org/cagiscouncil/wp-content/uploads/2020/03/StrategicPlanWorkgroup_Report_20200312.pdf</a>	Strategic Plan Workgroup
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11:20 – 11:50	<b>Item #4</b> <b>Workgroup Reports</b>  Elevation/Statewide LiDAR – Nathaniel (Nate) Roth <a href="http://cgia.org/cagiscouncil/wp-content/uploads/2020/03/WorkgroupReport_Elevation_20200312.pdf">http://cgia.org/cagiscouncil/wp-content/uploads/2020/03/WorkgroupReport_Elevation_20200312.pdf</a>  Emergency Response – Phil Beilin  Statewide Emergency Response ArcGIS Online Group – Isaac  Next Gen 9-1-1 – Rachel Rodriguez  Hydrography – Jane <a href="http://cgia.org/cagiscouncil/wp-content/uploads/2020/03/NHD-Workgroup-Report-CA-GIS-Council-March-2020.pdf">http://cgia.org/cagiscouncil/wp-content/uploads/2020/03/NHD-Workgroup-Report-CA-GIS-Council-March-2020.pdf</a>	

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Geodetic Control – Scott Martin  
(see Attachment 1)

State Plane Coordinate System 2022 – Nate  
[http://cgia.org/cagiscouncil/wp-content/uploads/2020/03/WorkgroupReport\\_SPCS\\_20200312.pdf](http://cgia.org/cagiscouncil/wp-content/uploads/2020/03/WorkgroupReport_SPCS_20200312.pdf)

US Census and Differential Privacy Methodology – Nate  
(see Attachment 2)

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**11:50 – 12:00**

**General Announcements and Closing**

**Next meeting: June 11, 2020, 10-12, Location TBA**

**Attachment 1**

**Geodetic Control Workgroup – Scott Martin**

I will not be able to attend this meeting. However, the reason is directly related to the Geodetic Control Work Group.

On March 12, 2020, a meeting will be held at CalOES to discuss the integration of geodetic instruments (Real-Time Continuous GNSS stations) into the **California Earthquake Early Warning (EEW) System**. Dr. Glen Mattioli, Director of Geodetic Infrastructure for UNAVCO and Dr. Yehuda Bock, Director of the Scripps Orbital Permanent Array Center and the California Spatial Reference Center at UC San Diego will be sharing their research on the July 2019 Ridgecrest earthquakes.

The EEW Business Plan identifies that more than 500 Continuous GNSS stations be incorporated into the completed EEW system. This would substantially reduce the number of stations that would need separate dedicated state funding to support geodetic control. A win-win situation.

Thank you.

Scott

Scott P. Martin, PLS

**California Geodetic Coordinator**

Geodetic Control & GPS Surveys

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California Department of Transportation

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**Attachment 2**

**Differential Privacy in the US Census - Nate Roth**

Heads up: 2020 Census and Privacy

The 2020 Census will include privacy protection practices that go far beyond those of the 2010 census.

A short background: using the 2010 data released publicly the US Census Bureau has demonstrated that through the use of their publicly released data with commercially available datasets the confidential records collected can be reconstructed leading to the identification of individuals. The Census Bureau interprets this as a violation of their responsibilities under Title 13 to protect the anonymity of respondents to their census and surveys. As a result they're applying a technique being called "Differential Privacy" that quantifies the risk to privacy for all data products. It does this by injecting calibrated levels of noise into the data. There is a total privacy budget (Epsilon) and each statistic uses a portion of it. The Census Bureau has applied a draft version of these protections to the 2010 Census data and released them.

A simple summary of implications:

1. The state totals used to reapportion the House of Representatives will be the actual enumeration. i.e. the total population of each state will be reported exactly as enumerated
2. All values below that will have Differential Privacy applied to them. Many products have had protections applied in the past.
3. The Census Bureau is evaluating what data and what portions of the privacy budget will be used for each data element.

Here's the Census Bureau's page on it.

[https://www.census.gov/about/policies/privacy/statistical\\_safeguards/disclosure-avoidance-2020-census.html](https://www.census.gov/about/policies/privacy/statistical_safeguards/disclosure-avoidance-2020-census.html)

A National Academies work workshop:

[https://sites.nationalacademies.org/DBASSE/CNSTAT/DBASSE\\_196518](https://sites.nationalacademies.org/DBASSE/CNSTAT/DBASSE_196518)

The presentation by Beth Jarosz in particular is pertinent for California related to housing and transportation planning and mandates.

Here's an ESRI Story Map comparing the 2010 Census with the version with Differential Privacy applied.

<https://storymaps.arcgis.com/stories/ec6d9711a3364d3db5c18fc9061e312f>

The National Conference of State Legislatures (NCSL) seems to have pretty good coverage with some additional resources at the bottom of the page. In particular the state responses, as well as that of Caliper (who make travel demand modeling software dependent on population data) are interesting.

<https://www.ncsl.org/research/redistricting/differential-privacy-for-census-data-explained.aspx>