

**MINUTES OF PUBLIC MEETING OF THE  
ARIZONA GEOGRAPHIC INFORMATION COUNCIL  
DATA COMMITTEE**

A public meeting of the Arizona Geographic Information Council was convened on January 10, 2023 at 10:01 am on Google Meet. Present at the meeting were the following members or designees of the AGIC Data Committee:

**Table 1: Committee Voting Members**

<b>Member</b>	<b>Agency/Organization</b>	<b>In Attendance</b>
Howard Ward, Co-chair	TerraSystems SW	Yes
Jenna Leveille, Co-chair	AZ State Land Department	Yes
Jack Avis	AZ Public Land Surveyors	Yes
Kevin Blake	Yavapai County	Yes
Jerome Breyer	GIS Works	Yes
Chris Chalmers	WGI	Yes
Nicole Eiden	AZ Dept of Health Services	Yes
Eric Feldman	Maricopa County	Yes
Bo Guo	GISitic	No, without notice
Ben Hickson	Anderson Optimization	Yes
Boyd Larkin	AZ Dept of Revenue	Yes
Keith Larson	AZ USDA - NRCS	No, with notice
James Meyer	AZ Dept of Transportation	Yes
Jason Nyberg	NV5	No, without notice
Susan Smith	AZ Dept of Forestry & Fire	No, without notice
Jamie White	Phoenix Police	Yes
Steve Whitney	Pima County	Yes
Adrew Zaffos	AZ Geologic Survey	Yes

**Table 2: Public Members at Large**

<b>Member</b>	<b>Agency/Organization</b>	<b>In Attendance</b>
Nahide Reynolds-Aydin	Westland Resources	Yes
Lynda Bell	National Geodetic Survey	Yes
Matt Bileski	AZ Criminal Justice Commission	Yes
Jason Caldwell	Sanborn	Yes
Mark Christiano	USFS Kaibab NF	Yes
Brian Colson	Salt River Project	Yes
Conor Cousins	AppGeo/Sanborn	Yes
Drew Decker	US Geologic Survey	Yes
Patrick Dongarra	Maricopa County	Yes
Glenn Emanuel	Central Arizona Project	Yes
Brian Fisher	Central Arizona Project	Yes
Karen Fisher	Central Arizona Project	Yes
Kasey Green	AZ State Land Department	Yes
Elizabeth Heller	AZ Dept of Water Resources	Yes
Jason Howard	Maricopa Assoc of Governments	Yes
Mary Hurley	Sanborn	Yes

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<b>Member</b>	<b>Agency/Organization</b>	<b>In Attendance</b>
James Johansen	Maricopa Co Sherriff's Office	Yes
Paul Keidel	Tucson Airport Authority	Yes
Maurice Kholman	AppGeo/Sanborn	Yes
Shea Lemar	ASU	Yes
Colby McCormick	ADOA Risk Management	Yes
Ayan Mitra	ASU	Yes
Mariah Modson	AZ State Land Dept	Yes
Bill Nye	AZ Dept of Economic Security	Yes
Tammy Peterson	VeriDaas	Yes
Thara Salamone	AZ Office of Economic Opportunity	Yes
Brooke Serpa	ADOA 911 Program Office	Yes
Jill Sherwood	Salt River Project	Yes
Eric Shreve	ADOA 911 Program Office	Yes
Patrick Terry	AZ Dept of Environmental Quality	Yes
David Waltz	AZ Dept of Water Resources	Yes
Jeff Wolkove	ADOA – ASET	Yes

The meeting was called to order at by Jenna at 10:04 a.m.; established a quorum

The October Meeting Minutes, on a motion by Steve Whitney and a second by Andrew Zaffos, were approved unanimously

**I. Announcements:** Jenna reviewed the following announcements

- AGIC virtual meeting platform change for 2023 - Google Meet
  - AGIC Annual Leadership Workshop | Feb 2, 2023 | 10a - 12p | Hybrid | ADOT Training Facility (community feedback survey)
  - AGIC Council Meeting | February 2, 2023 | 1p – 3p | Hybrid | ADOT Training Facility
  - Historical Orthos on GTAC Image Server  
Mark Christano reported that USFS Region 3 has digitized historic aerial imagery from negatives or 9x9 prints at 30 cm resolution and made them available to the public.
1. [ResourcePhoto Region03/AZ Apache Sitgreaves NF 25cm 1968](#) (Image Server)
  2. [ResourcePhoto Region03/AZ Coronado NF 25cm 1966](#) (ImageServer)
  3. [ResourcePhoto Region03/AZ Kaibab NF 25cm 1956](#) (ImageServer)
  4. [ResourcePhoto Region03/AZ Prescott NF 25cm 1968](#) (ImageServer)
  5. [ResourcePhoto Region03/AZ Tonto 25cm 1958 1959](#) (ImageServer)
  6. [ResourcePhoto Region03/NM Carson SantaFe NF 25cm 1958 59 Pan](#) (ImageServer)
  7. [ResourcePhoto Region03/NM Cibola NF 25cm 1958 59](#) (ImageServer)

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8. [ResourcePhoto Region03/NM Cibola NF 25cm 1963](#) (ImageServer)
9. [ResourcePhoto Region03/NM Cibola NG 25cm 1964](#) (ImageServer)
10. [ResourcePhoto Region03/NM Gila NF 45cm 1967](#) (ImageServer)
11. [ResourcePhoto Region03/NM Gila NF 45cm 1958 Pan](#) (ImageServer)
12. [ResourcePhoto Region03/NM Lincoln NF 25cm 1957 1959 Pan](#) (ImageServer)
13. [ResourcePhoto Region03/NM SantaFe NF Jemez RD 1m 1935 Pan](#) (ImageServer)
14. [ResourcePhoto Region03/NM SantaFe NF Jemez RD 9in 1963 Pan](#) (ImageServer)

- **NSGIC Geospatial Maturity Assessment 2023 Survey**  
Jenna reported that the GMA is done every two years to assess where each State is relative to the NSDI Framework datasets. For 2021, Arizona received a B- grade. For 2023, Jenna will be working with subject matter experts from around the State to complete the survey. The results are helpful for our discussions with State leaders. Here is a link to the GMA webpage: <https://www.nsgic.org/NSGIC-GMA>

## **II. Workgroup activity summaries and action items**

Howard read the summaries from the following groups except for AZCORS which Brian presented verbally and submitted to Jenna after the meeting

- **AZCORS Workgroup** – The executive members met on 14 November 2022. Attendees were, Brian Fisher (CPA/APLS/NGS), Lynda Bell (NGS), Jenna Leveille (ASLD), Virgil Coxon (ADOT), Clifton Clark (ADOT). We met to get an update from ADOT on the access and management of the server that manages the AZCORS data. This is still a work in progress and requires more follow-up. We also discussed strategies for future management of the network. Some discussion was made about what a minimum number of stations would be to have a reliable and functional backbone for GNSS observables.
- **Cadastral Workgroup** – This group last met October 7, 2022. They discussed the results of the Arizona Cadastre and Land Records Questionnaire and best next steps. It was determined that specific county outreach is required to have a more complete understanding of where counties are with the development and maintenance of their parcel data. We also discussed next steps on writing our cadastral glossary of terms, the AZGeo parcel administrators' group, assisting with statewide dataset development and the use of parcel fabric for parcel maintenance. No current action items for the committee

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- **4D Workgroup** – The 4D workgroup held its Q4 meeting on December 6th. They had a presentation by Robert Davis on remotely sensed data, where to access it and how to determine if it will fit the needs/scope of a project. It highlighted ‘good’ (in Robert’s opinion) sources of remotely sensed data to use for natural resource landscape scale analysis. The temporal aspect was also highlighted and the value in analyzing changes to the landscape over time. Jenna reported on Drew Decker’s behalf on the status of 3DEP data in AZ. The group had an open discussion on possible collaborations for BAA applications in 2023 and looked ahead to what the goals could be for 2023. Several members of the UAS workgroup attended the meeting as the co-chairs of the workgroups have been considering a merging of the two groups.

The 4D Geospatial Co-chairs met independently to discuss 2023 goals. We plan to propose a collaborative data development project, a refresh of the AZGeo website to reflect the new name, and the idea of a spring geospatial summit. discussion item: Data Committee Spring Geospatial Summit; a collaborative event of the Data Committee Work Groups.

Discussion Item: Data Committee Spring Geospatial Summit; a collaborative event of the Data Committee Work Groups.

Mark noted how successful last year’s two-day event was at Yavapai involving three DC workgroups. He recommends we expand this year to entire data committee. Jenna agreed and noted that we had an invitation at the end of the event from Yavapai to come back; Kasey agrees we should do it again across all groups and with a clearly defined focus. Nahide also thinks it is a good idea; she attended last year and had fun; she agrees we need overarching topic and then participants can more easily prepare. Jenna will coordinate with various folks and get back to the DC at the April meeting on progress

No current action items for the committee.

- **Natural Resources Workgroup** - This group last met Dec 13, 2022. The next meeting is scheduled for Feb 14, 2023. In the time since the Data Committee has last met:

The Natural Resources Fall Virtual Presentation Series was held on December 8 and was a success. The Presentations covered Water Conservation & Drought Mitigation. We had three presenters covering a diverse range of GIS/Remote Sensing topics and 98 attendees.

NRWG Hub site team continues to meet monthly to continue to expand the NRWG presence on AZGeo. They continue to add authoritative data sources, relevant

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applications and story map use cases. This group has revamped the content survey and simplified the hub site design. The Protected Areas Database collaborative has been added and additional Story Maps have been organized. They are requesting that workgroup participants submit information on publications to add to the site.

NHD Pilot project workgroup has been sunset

- This group has learned that the USGS will stop accepting NHD edits after Dec 1, 2022. The NHD will become a static dataset until the Elevation Derived Hydrology data is released, sometime in 2024/25. Without statewide lidar data, Arizona is at a disadvantage.
- Issues with certain features such as streams and intricate elevation geometries need to be addressed for forward movement on the development of tools.
- The need for a sub-group will be re-evaluated considering USGS goals for the 3DHP program
- ADWR is evaluating if they can provide their modified NHD dataset to the general public via AZGeo as an interim 'best available' hydro data for AZ. This data was identified as such by the subgroup after evaluation of all available data.

The Protect Areas Database (PAD-US) Update subgroup continues to meet monthly. The group is developing a repeatable workflow for updates. Contacts have been made with roughly 50% of Arizona Counties.

At the Dec 13 meeting the group discussed Statewide LiDAR, the work plan due in May and a possible Spring event. Goals for this coming year were also discussed; goals include a presentation to be given by the USGS, Tribal & Rural community outreach and a spring collaborative event with other AGIC workgroups.

No current action items for the committee.

- **SPCS2022 Workgroup** – Michael Dennis with NGS sent a Provisional Approval email on 14 November 2022. There were seven bullet points for discussion/information. Some were compulsory and some were proposed and open to some discussion. Brian Fisher is presently reviewing the points and is planning a response in Q1 2023. AZ Statute Updates are presently in committee in APLS and have been shared with AGIC. The plan for 2023 is to request an informational sharing meeting with AZ legislature committee (TBD) to prepare them for a proposed bill in 2024. No current action items for the committee.
- **Unmanned Aerial Systems (UAS)** – For this quarter the UAS Workgroup reports the following in support of the approved 2022 Workplan goals:

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**UAS TECHNOLOGY INFORMATION EXCHANGE AND BEST PRACTICES  
DOCUMENTATION DEVELOPMENT**

- The UAS Workgroup section on the AZGeo Website continues ongoing development and content gathering. The new UAS Workgroup hub site will be live by the end of January with new searchable UAS Data added to the site.

**COORDINATE UAS EDUCATIONAL OUTREACH**

- The UAS Workgroup plans to continue its partnership with Green Drone for 2023. Cultivating a symbiotic relationship between the two groups. In 2023 we are excited about expanding the UAS workgroups outreach success by helping Green Drone with greater volunteer cultivation and support. AGIC volunteers went to 11 schools for GIS day in November to help with Green Drone curriculum.

**Upcoming Events**

- The UAS Workgroup is currently planning a Spring Fly-In event for 2023. Potential topics include: New Pilot skills, Emerging technologies in UAS, FAA Regulation (emphasis on Remote ID), Orthometrics, UAS Metadata, Data Processing (emphasis on classification), Artificial Intelligence and Underground Flight Planning.

**III. AZ Data Conference Debrief**

Jeff Wolkove reported on the annual AZ Data (virtual) Conference that was held on 12/6 and 7. They had 150 registrants and 110 participants which is a new record; 150 registrants. The keynote speaker discussed data ethics and Eric Shreve presented the geodata spatial pipeline. There were many good sessions letting people know about the latest in statewide data coordination and management. There was lots of demand for training. The event drew good reviews and attendees want more. We should think about the spring event in 2024, perhaps making it a statewide data conference. Eric expressed support for this idea.

**IV. Statewide & Regional Data**

- **Imagery Program Discussion Meeting Debrief & Update** (Jenna Leveille, ASLD/Kevin Blake, Yavapai County)

Kevin discussed the need for a new DC workgroup to help coordinate statewide imagery collection and management. He mentioned the 2023 NAIP buy up as a missed opportunity as we likely won't have time to coordinate before June deadline. An imagery group could help ensure we get this done for 2025 acquisition. In the meantime, the WG could research other vendors and/or imagery subscription services and coordinate cost sharing for such acquisition. He noted that 30 cm would likely be the minimum resolution for rural areas and 15 cm for urban areas. Urban areas would be on annual cycle; rural areas would be every 2 years. He has been

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tracking what other States like Michigan, Oregon and Utah have been doing for their statewide imagery program. Next steps will be for Kevin and Jenna to continue to meet with stakeholders; the first meeting of potential stakeholders was in December where it was determined that interest level is high with needs that are not being met, locally and regionally. A new WG would have the benefit of AGIC structure and resources with regular meetings to consistently pursue statewide imagery.

Jenna called for a motion to create a new WG. Andrew Zaffos made the motion and James Meyer seconded. Mark discussed how Oregon saved 1.4 million dollars because of the buy up synergy with NAIP. The new WG was approved unanimously. Jenna noted that the first meeting would be posted on AGIC calendar and would likely be monthly. She invited anyone to contact her to be added to the WG

- **Arizona Virtual Earthquake Clearinghouse (Adrew Zaffos, AZGS)**

Andrew reported that EMA and AZGS will be creating an EQ Clearinghouse which amounts to straightforward process for implementing a data sharing pool after an earthquake event. A good example of this was in California which implemented this after the recent large Kerrville EQ. The process is as follows: a group of people have a call to discuss and vote to initiate broader meeting of data providers to share what they have, need and are doing. The members of this group then provide data either virtually or in a digital depository. Andrew asked that you contact him if you want to be part of this group and he and Jenna will be reaching out to obvious candidates for participation. Andrew noted that it may be logical to expand the mandate of this group to other disaster events; wildfire and landslides would be logical for Arizona.

- **State hazards mapping (Colby McCormick, ADOA Risk Management)**

Colby introduced himself and reviewed the three large hazard mapping projects his group has completed in last three years: the mapped flood risks on State land; they mapped all defense sites located on State Trust lands; and they worked with the State School Board to map lands with known hazards which led to the state hazard map. Colby worked with Kasey and Jenna to find authoritative maps for hazards. He noted that State agencies can use this map as they plan their projects. He noted the several layers that are already on the map and showed the map. Jenna noted that if you join the Government Group on AZGEO, you will have access to this map. Private users will generally not have access.

- **AZ Zoning Atlas (Shea Lemar, ASU)**

Shea noted that she began discussion with Jenna about eight months ago about statewide mapping of zoning. There is a national map developing that will help standardize zoning information across the nation. This is a big job: every local jurisdiction across the county has at least a slightly different take on zoning regulations and categories. She showed a map of states doing state level mapping (<https://www.zoningatlas.org/>) She is working with a group of ASU professors and also includes MAG. They are developing a pilot in Maricopa County and envision the effort as a public/private partnership. This project is just beginning and she urges

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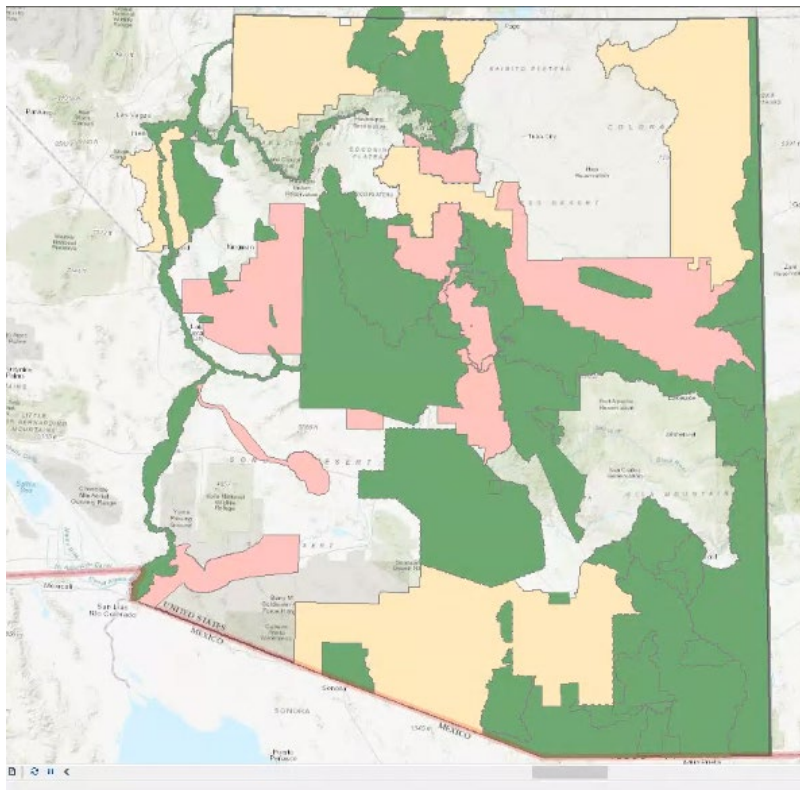
anyone to reach out to her if interested (shea.lemar@asu.edu).

- **Broadband challenge mapping (Jenna Leveille, ASLD)**

Jenna noted that this Challenge is a big deal: the FCC is providing millions of dollars to States to improve the Broadband maps the FCC has published nationally. The first deadline is this Friday. The State has hired a contractor to provide the initial data. She noted that the 911 address data is one of the base datasets. They are also contracting for the creation of statewide building footprints and the assembling of statewide parcels. The parcel append may be processed through the AZGeo Data Portal. Once that is complete, they will work on allocating funds across the State. She noted that statewide parcel licensing will allow parcel data access to public entities. There are lots of meetings ahead. Jenna hosts a monthly meeting at ASLD. She will keep us posted.

- **3DEP Update (Drew Decker, USGS)**

Drew reported making substantial progress across Arizona on LiDAR. He displayed and reviewed his status map: green is complete; tan is in progress; and pink is planned. He noted that the Yavapai point cloud is now available for download from USGS. Drew noted that the BAA for further LiDAR projects is open until the end of June 2023 and he can help anyone that would like to submit a project. Jenna noted that ASLD is hosting the derived DEM from the Maricopa/Pinal County LiDAR on AZGeo.





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- **Public Safety Committee & 911 Office Update** (Eric Shreve, ADOA 911Office)

Eric noted that the Public Safety committee has expanded beyond just 911 and includes such things as evacuation zones and assisting with Superbowl planning. Regarding 911, Eric noted that 27 PSAP's had been cutover so far, representing about half the land area and one quarter of the population of the State; Eric introduced Brooke Sherpa the new GIS support person for the 911 office; The 911 office is supplying statewide address points in support of Broadband Mapping and is submitting them to the National Address Database (NAD) program. He shared the link to the 911 Office strategic plan (<https://az911.gov/overview-ng9-1-1-project>). Jenna noted they are working on a hub site for Public Safety (currently the 911 site). They are hoping to have the site ready by 2<sup>nd</sup> quarter.

**V. Presentation:** *Discover what you are missing in a statewide imagery program: new approaches to funding, viewing, sharing and analyzing geospatial data, AppGeo/Sanborn, Conor Cousins and Maurice Krollman*

Conor, Mo and Jason Caldwell from Sanborn/AppGeo presented and the slides are available from Jenna upon request.

**VI. Information or Topics for Future Meetings**

Steve Whitney suggested we discuss the results of the Leadership Retreat

**VII. Adjourn 11:54 AM**