

**MINUTES OF MEETING OF THE ARIZONA
GEOGRAPHIC INFORMATION COUNCIL
November 3, 2022**

A public meeting of the Arizona Geographic Information Council was convened at 10:02 AM on November 3, 2022, as a Phone in (877-309-3457) and Virtual Webex Meeting (azgov.webex.com, meeting number 2458 063 7188 and in person at AZ DEMA - Emergency Operations Center, 5636 E McDowell Rd, Phoenix, AZ 85008. Present at the meeting were the following members or designees of the Arizona Geographic Information Council:

AGIC Officers

Name	Agency/Company	In Attendance
Eric Shreve, Chair	Arizona Dept of Administration – 911 Office	Yes, In Person
Kevin Blake, Vice Chair	Yavapai County	Yes, Virtual
Shea Lemar, Past Chair	Arizona State University	Yes, Virtual
Lucas Murray, Treasurer	Arizona Dept of Economic Security	Yes, Virtual
Phillip Leveille, Secretary	Maricopa County Assessor’s Office	Yes, Virtual

AGIC Board Members

Name	Agency/Organization	In Attendance
Jack Avis	Arizona Public Land Surveyors	Yes, Virtual
Christian Black	United States Air Force	Yes, Virtual
Mark Christiano	United States Forest Service	Yes, Virtual
Jay Corum	USDA - Office of Inspector General	Yes, Virtual
Michael Dennis	NOAA - National Geodetic Survey	Yes, Virtual
Nicole Eiden	Arizona Department of Health Services	Yes, Virtual
Kris Estes	City of Buckeye	No, without notice
Eric Feldman	Maricopa County	No, without notice
Mike Hilstrom	Arizona Department of Water Resources	No, without notice
Jason Howard	Maricopa Association of Governments	No, with notice
Wesley Kortuem	Arizona Department of Health Services	No, without notice
Keith Larson	USDA Natural Resource Conservation Service	No, with notice
Jenna Leveille	Arizona State Land Department	Yes, Virtual
Christopher Lukinbeal	University of Arizona	No, with notice
Ryan McClain	Arizona Department of Public Safety	Yes, Virtual
James Meyer	Arizona Department of Transportation	Yes, Virtual
Julie Mikolajczyk	Arizona Department of Environmental Quality	Yes, Virtual
Veronica Nixon	Arizona Department of Water Resources	Yes, Virtual
Phil Ponce	Engineering Mapping Solutions	No, with notice
Dave Roby	AZ Dept of Military and Emergency Affairs	Yes, In Person
Leslie Stovall	Gila River Indian Community	Yes, Virtual

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Name	Agency/Organization	In Attendance
Gene Trobia	Arizona State University	Yes, Virtual
Patrick Whiteford	Arizona Department of Transportation	Yes, Virtual
Steve Whitney	Pima County ITD GIS	Yes, Virtual

Public at Large

Name	Agency/Company	In Attendance
Ryan Johnson	Arizona State Land Department	Yes, Virtual
Brian Bond	Yavapai County	Yes, Virtual
Howard Ward	Terra Systems Southwest	Yes, Virtual
Morgana Laurie	AZ Dept of Military and Emergency Affairs	Yes, Virtual
Mariah Modson	Arizona State Land Department	Yes, Virtual
Karen Rogers	Dewberry	Yes, Virtual
Sage Donaldson	Arizona Department of Transportation	Yes, Virtual
Kasey Green	Arizona State Land Department	Yes, Virtual
Chuck Powell	Westland Resources	Yes, Virtual
Sue Smith	Department of Forestry & Fire Management	Yes, Virtual
Jeff Wolkove	Arizona Department of Administration	Yes, Virtual
Josh Pope	Pima Association of Governments	Yes, Virtual
Angela Arriaga	Aero-Graphics	Yes, Virtual
Lee Johnston Jr	ESRI	Yes, Virtual
Peter Gamberg	ESRI	Yes, Virtual

I. Call to Order:

Eric Shreve called the meeting to order at 10:02 am. Jenna Leveille took roll call of the council officers and members; attendance was recorded, and Quorum was established. The public should place their name in the chat if they wish to speak to the board when called upon and / or be listed as public members in attendance.

II. Approval of Minutes:

A motion to approve the August 2022 meeting minutes was made by Kevin Blake and seconded by Lucas Murray. There was discussion regarding corrections to the attendance list and a minor correction to Mark Christiano's presentation details. The motion was updated to approve the August 2022 meeting minutes with minor corrections to be made and posted. A vote was held, and the motion passed unanimously with no abstentions.

III. Announcements:

Eric Shreve made the following announcements:

- The 2022 Esri SW User Summit is coming up on November 15th at the Hyatt Regency Downtown from 7:30am to 5:30pm. The event is Free, with registration required. Immediately following the summit, an informal AGIC networking event will be held downtown at Wilderness.

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- Green Drone education engagement opportunities for National Geography Awareness Week coming up November 14 - 18. They have a survey seeking Geospatial Professional Outreach to participate in middle & high schools across Arizona.
- The AGIC Mentorship Program 2023 applications are open; the program is seeking mentors across the community with more details available on the programs story map.
- A new State GIS Manager/Leader Meeting will be held this Friday, November 4 at 9-10am virtually. The goal is to establish a mutually beneficial peer network for developing solutions to common problems specific to State Agencies.
- Eric also announced two upcoming events to save the date:
 - The Natural Resource Work Group will be holding a Virtual Presentation Series on December 8, at 1pm-3:30pm.
 - ADOA State Data Management Conference | Dec 6 & 7 | 8am-12pm
 - More details about registration and agendas for both events coming soon
- Shea Lemar inquired about the State GIS Manager/Leader meeting, and Jenna shared that ASU's involvement is most likely welcome as a state organization. Jeff Wolkove added that if someone is registered this year, he will add them to next year's invite list.
- Jenna also reminded everyone that the mentorship program applications are due by the end of the year.

IV. Budget Update:

Lucas Murray, AGIC Treasurer, reviewed the budget report provided to the Council prior to the meeting. Veronica had one question about how ADWR was noted on the budget report; Jenna clarified that it was timing.

V. Items from the Chair:

A. AGIC Council Appointments

Eric Shreve shared that Eric Feldman is stepping down as he plans retirement after many years of service to AGIC. Julie Jamarta also resigned from the AGIC council, opening an opportunity for a GIS Consortia/Local Government representative seat. Jenna also sent out reminders to those on the council up for renewal.

B. AGIC Vice Chair Nomination and Vote

Patrick Whiteford was nominated to be the next Vice Chair; his resume was shared with the board ahead of time. Eric shared what a contributor Patrick has been and asked him to share a few words. Patrick shared his experience being a member of the GIS and AGIC community for the past ten years. While his background is in transportation, he recognizes that the community is far reaching and highly technical. He plans to use his experience and skill to further the community in finding common ground on a myriad of activities.

A Motion to approve Patrick Whiteford as the next Vice Chair of AGIC was made by Jenna Leveille and seconded by Lucas Murray. There was no additional discussion, a vote was held, and the motion passed unanimously with no abstentions.

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C. AGIC Virtual Meeting Platform change

Jenna shared that some significant challenges exist with the current virtual meeting platform, Webex, such as meeting links changing when users accept or decline a meeting. Webex also carries a significant cost which State Land currently absorbs for AGIC. The thought is to move AGIC meetings to Google meets. Some discussion took place about utilization, access, and any limitations to meeting attendees. More information will be provided and expect to start seeing next year's meeting invites in Google Meets.

D. 2023 Leadership Workshop - logistics discussion

Eric started a discussion on the logistic for the upcoming February 2 Leadership workshop and council meeting. A hybrid option was discussed with potentially paring all the virtual attendees into one breakout session. Other venues were also discussed for in person options, including DEMA, ADOT and MAG. Jenna shared that a survey will be generated to garner the priorities from the group; Suggestions for survey questions are welcome and Jenna suggested that any ideas could be emailed to Eric, Kevin, and Patrick. Jenna also reminded the group that the responses from the Survey are very important when developing AGIC Priorities and strategic objectives for the upcoming year.

E. State Procurement Office and Esri Master Purchase Agreement Update

Ryan Johnson updated the group on the state MPA. The agreement has been extended through December, so it should be available for any license or maintenance purchases needed now. Ryan shared that SPO again asked State Land to provide detailed user stories around all the tools in the platform, which Land is unable to provide.

F. Future Imagery Program coordination update

Kevin Blake shared about progress regarding coordination for a Future Imagery Program. Kevin demonstrated results from the stakeholder community survey detailing resolution, obliques, and 4-Band requirements. Kevin pointed out the 3- and 6-inch resolutions garner the most need and NAIP capabilities should be incorporated whenever possible and buy-up options utilized as a collective to share the cost burden. The next steps will be to organize a meeting with the stakeholders and Kevin and Jenna believed also reaching out to a few key partners, like Prescott Valley, and Coconino County would be beneficial. Jenna will send a survey poll asking for interest and availability. Josh Pope inquired about the timing of a NAIP buy-up and potential budget request timing and about turn-around time. Jenna added that she will work to obtain NAIP submission requirements, as they may be different than state or local fiscal needs and shared that the program has had significant process improvement lately to greatly reduce the lead time.

G. NSGIC Update

1. Midyear meeting travel

Jenna updated the council on upcoming NSGIC travel for the Midyear meeting February 27 to March 2, 2023 in Pittsburgh, PA. She shared that the registration costs increased for 2023 with the Midyear now \$625, and the Annual \$825. Kevin explained that he would only need a financial contribution for airfare from AGIC. Eric stated that his travel approval is

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still in limbo. Patrick will inquire with his organization for support and approval to attend.

Discussion included that typically the chair is covered, but it is up to the council to send others, and typically covering about half of the expenses. Lucas shared that about \$4500 is budgeted annually for NSGIC Travel. Jenna Leveille moved to approve NSGIC Midyear Travel not to exceed \$2000 with Michael Dennis seconding. No additional discussion took place, a vote was held, and the motion passed unanimously with no abstentions.

2. Annual Meeting Debrief

Jenna debriefed the council on the NSGIC annual meeting in Portland in September: Six AGIC Council members attended, so great involvement by many from Arizona. Overall, 31 states were represented along with a strong showing of Federal partners including FGDC, USGS, NOAA, USDA, USDOT/911, and Census, many contributing with presentations. Jenna explained that her tenure as president ended with the handoff to Arkansas' Jonathan Duran during the annual meeting, so she will continue for the next year as the past president. She also shared some highlights, including former governor Kitzhaber as the keynote who demonstrated how important local voices are in a national discussion regarding the GDA or other legislation. Jenna added that he is going to do a similar presentation at the Western States virtual caucus in March. Other discussions were taking place about 3DEP and data dissemination, to reduce duplicative efforts. Census was also present, and already starting to talk about how to better coordinate for the 2030 count. One topic is the potential to eliminate the need for Luca participation by utilizing the NAD instead. A presentation from Florida, Georgia and Alabama highlighted many of the same issues facing Arizona to create a statewide emergency / evacuation plan. Jenna continued that USGS is implementing a new elevation derived Hydro program (3DHP). This impacts Arizona because USGS funding for the new program will not allow continued support of the NHD. Discussions are ongoing within the Natural Resources Workgroup and the NHD Pilot Program Workgroup about an interim authoritative data source, with the current recommendation to use DWR's data set. The eventual goal for the program is to operate like 3DEP with stakeholders pooling resources, and derivative products within a few years; the details are being determined by USGS, and Jenna speculated about a 3-to-7-year timeframe for an elevation derived authoritative data source for Arizona. Jenna continued that Open Geospatial Consortium is doing a series of disaster pilots focused on having geospatial data available ahead of a disaster and what kind of data would be needed to be gathered. One focus was on drought. There is an upcoming summit regarding the needs of the southwest and NSGIC has representation going, so Jenna will follow up with more information. Some other discussion was around using open street maps to fill in gaps NSDI as well as community maps and the ESRI community atlas. Arizona may want to have a similar discussion.

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H. **URISA GISPro Conference Debrief**

Jenna updated the council on URISA's 60 anniversary GIS Pro annual conference, held in Boise, ID this fall. She pointed out that while not always very visible, there is a URISA presence in Arizona and they are doing good work that AGIC should be aware of, so further collaboration discussions should be held. Sara Thompson, with ADOT is a URISA Vanguard Cabinet member, and provided this update for AGIC. Jack Dangermond was one keynote along with Alex Winkler, CIO of Boise. The first two days of the conference featured all day and half day URISA certified training courses, with emphasis on education and knowledge exchange. The courses counted toward GISCI education points and topics included Python, Open-Source Software, and Program Management. Sara noted 17 different courses were offered in the first day and a half! The rest of the week featured ArcGIS Pro skills, enterprise, best practices, communication, emergency response, natural resources, and equity. There was also a Young Professional Social, hosted by the Vanguard Cabinet to give young professionals the chance to network and engage the community. URISA also has a mentoring program and held a panel discussion like what occurred at AGIC; they spoke about the success of the program and encouraged attendees to apply. They also held a lightning talk and a happy hour for GIS and non-GIS topics. Presenters were given 5 minutes to cover topics they felt passionate about; presentations included a spectrum from "The California Water Crisis" to "My Favorite Quotes to Work and Live By". The week was closed out with a hosted dinner social on the Basque Block, one of the largest Basque communities in the US.

VI. **AGIC Symposium Update**

Steve Whitney shared a symposium update including attendee, exhibitor, and sponsorship metrics. Overall, 256 attendees checked in, out of 275 registered, including exhibitor sponsors; there were over 50 first time attendees and 7 student scholarships. There were 22 exhibitor sponsors, with the first ever Platinum sponsorship from Works Consulting, and 8 other Gold, 6 Silver, and 7 Bronze sponsors. Other non-presenting sponsorships included 1 Lunch and 2 student scholarships. Steve re-iterated that the final numbers are being determined, and some items that have come up will serve as good examples of negotiation points next year. For example, there were some questions about how the resort charges for Audio / Visual support. Steve shared that there were over 50 sessions with a great variety of presentations and interest groups. There was , workshops, labs, and general session speakers • Former Oregon GIO Cy Smith was our keynote speaker and discussed the importance of local and state participation at the national level. The National Spatial Data Infrastructure (NSDI) and the Geospatial Data Act (GDA) presentation slides are available. Steve shared the good interest in maps and apps submissions (37) and the number of people voting (93). Steve shared this year's awards, including Arizona Geospatial Volunteer of the Year, David Enriquez, a Red Cross Volunteer, Retired, the AGIC Chairperson's Volunteer of the Year, John Danloe, from Pima County, the AGIC Outstanding Service Award, Morgana Laurie, from AZDEMA, and two newly renamed, Gene Trobia Lifetime Achievement Awards, were honored upon Rudy Stricklan, Mapping Automation, LLC, and Gary Irish, retired, former manager of ALRIS. Steve continued on to planning for the 2023 symposium, which is tentative for September 26 – 29 in Prescott. This will be the 30th anniversary of the conference, so people can share ideas with Steve or Jenna,

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Jami, or anyone on the conference committee on how to honor the anniversary. The Conference Committee has decided not to renew the contract with Cvent, and a workgroup is evaluating alternative event management software platforms, with more information to come out soon. Other council members shared some highlights and experiences from the conference including being back in person, the great networking, sessions, turnout, and many thanks to the conference committee for their hard work. Jenna added that this was the first year they held an orientation to a standing room only, so that will be held again next year.

VII. Committee / Work Group Summaries, Announcements and Action Items

A. Summaries & Announcements.

Kevin Blake shared the following announcements and highlights:

- Admin & Legal Committee: Eight council members are up for renewal, which expired a couple of months ago in September. They are working on a template for a new AGIC Annual Report, and they are updating the AGIC Manual to have meetings run more smoothly and have the NSGIC membership and rules of etiquette better defined.
- AZGeo Advisory Committee: The development of the Portal for AZGeo is complete and the data is currently being migrated onto the platform in preparation for its release soon.
- Data Committee: The Statewide Imagery survey was discussed earlier including potential NAIP buy-up options. The committee is also discussing a statewide parcel dataset development to support State agencies, so we should hear more about that soon. They are also coordinating with Green Drone to facilitate GIS and UAS Career Day for MS and HS students on October 28th.
- The UAS and 4D Geospatial Data workgroups are merging.
- Outreach Committee: They are developing standards for data tagging and what constitutes authoritative data. They're also working on quarterly social events around the State. September went well and the next one will be in February
- Public Safety • Kevin congratulated the committee for completing 911 systems in Apache, Navajo, Mohave, La Paz, Yuma, Santa Cruz, and Gila River Indian Community. Maricopa and Pinal will be completed at the end of the calendar year, putting the project at more than 50% completed.
- Kevin also announced that the Sheriff and other emergency management staff should feel free to join the Statewide Evacuation Workgroup and can reach out to Brian or Eric about it.

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B. Committee / Work Group Action Items (Admin and Legal Committee)

1. Action Item 1: The Admin and Legal Committee feels these changes will clarify processes for members and help meetings run more smoothly. A motion to update the AGIC Manual to add language that outlines the process for managing committee and workgroup voting members, including guidelines for removing voting members as needed with changes regarding work plans was made by Eric Shreve and seconded by Lucas Murray. There was no discussion, a vote was held, and the motion passed unanimously with no abstentions.
2. Action Item 2: The committee believe these updates address processes that are already in place and/or meet NSGICs membership regulations. A motion to update the AGIC Manual to add language about NSGIC, including: • AGIC's obligations to pay half of the annual membership dues • That all AGIC council members are automatically enrolled as NSGIC council members and receive member benefits • That AGIC may add another five people who are not AGIC council members to the NSGIC council if approved by the AGIC Council was made by Shea Lemar and seconded by Patrick Whiteford. There was no discussion, a vote was held, and the motion passed unanimously with no abstentions.
3. Action Item 3: The committee believes these updates address processes that are already in place. A motion to update the AGIC Manual to add rules of etiquette, including a code of conduct for attending meetings and a code of conduct for participating in AGIC online forums, include AGIC-L, social media, and google groups was made by Eric Shreve and seconded by Gene Trobia. There was no discussion, a vote was held, and the motion passed unanimously with no abstentions.

VIII. Committee / Work Group Presentations

A. 4D geospatial Data Workgroup:

Mark Christiano presented on the 4D Geospatial Data Workgroup, which was formerly known as the LiDAR Workgroup. He explained that the group was involved in so much more and shared the 4 D's as 1D - X axis, 2D – Shape, 3D – Depth, 2.5 (DEM), and 4D – to include time & change detection. Mark shared that the LiDAR spring symposium has been successful over the last few years and was changed to the Geospatial Technologies for Natural Resources Spring Symposium this year with great success. One focus is to address a lot of overlapping technologies and work together as a group. Mark shared his feeling that LiDAR is being embraced by the state in new, innovative ways and they are seeing a lot of different applications. He went on to share that compared to 23% in 2018, 65% of Arizona is covered by QL2 or better. It appears that the federal government and tribal areas could be addressed. Jenna added that FEMA has stepped up and is covering a lot of Navajo, Apache, Hopi and San Carlos Apache, continuing that the DOD has stepped up and want to do bombing range. They typically don't work though BAA because they would not want the data in the public domain, in this case they did. Jenna speculated that we could have statewide LiDAR at QL2 within 2 years. Mark also shared that the natural resource panelists at AGIC essentially agreed that if you really want to understand what's happening in in Arizona from a natural resource perspective,

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statewide LiDAR is necessary.

B. Unmanned Aircraft Systems (UAS) Workgroup

Kasey Green and Chuck Powell presented on behalf of the UAS Workgroup. They share how they work to help organizations and individuals incorporate or contract for UAS services as well as identify or develop educational resources, guidelines for using UAS for geospatial data collection, and for post-processing to produce relevant datasets. They also educate on UAS compliance with FAA and other requirements, noting that they are constantly changing. They shared some of this year's networking and outreach opportunities including participating in the SciTech's STEM & Innovation Summit, having a booth, and presenting at AZ Dronefest, and participating in Green Drone's GIS Career Day. The group is also working on a HUB Page Redesign to make us more user friendly. Chuck shared some additional details about the partnership with Green Drone AZ. They had a goal of putting a UAS/GIS Professional at each school Green Drone is working with. The non-profit is working on a restoration site on the Salt River destroyed by Fire, getting rid of invasive species, planting thousands of trees, and using drones to monitor. Chuck shared some additional statistics about the participation, including that they found volunteers from the geospatial community for every school that requested help! He also shared that the Spring Symposium Mark mentioned earlier was a great success, along with the vast UAS tract at the Annual AGIC Symposium, featuring technical presentations and panel discussions. Kasey concluded that the group is working on real world problems and solutions to help people in their day-to-day jobs.

C. AGIC Mentoring Program

Patrick Whiteford presented about the AGIC Mentoring Program and how the group has been working to prepare for next year's program. The concept is to provide a structured environment for professional development within the AGIC community. He shared the mission and vision of the program and some details about 2022 including that 20 Pairings entered and the cadence included two check-in meetings, participant surveys and a Presentation and Facilitated Discussion at the AGIC symposium. He mentioned all the work Sage did on the new HUB site to get all the information you need for the program. The expectations are for a 1-year commitment, to agree on meeting times and cadence, to create goals and a timeline. Quarterly check-in meetings can be expected to check in and share experiences. Patrick shared guidance for mentees to come prepared, be introspective, communicate your needs, and be transparent. The mentee drives the relationship, drive the discussion, build the relationship, and build the trust. He also shared that the mentor is an active listener and provides really good feedback without judgement or blame. The mentor provides leadership, targeted guidance and teaching, but mentorship is a two-way street, and everyone learns. Patrick shared additional details about pairings, and the factors included for selection. There are also some one-page executive level summary flyers available on the HUB site along with FAQ, a story map, and more. Patrick encouraged everyone to participate, applications are open.

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IX. Comments / Requests for Topics in future meetings

Eric Shared that the next council meeting will be February 2, 2023. In conjunction with that next meeting, the Annual Orientation / Leadership Workshop will be held ahead of the council session on February 2. Earlier in the meeting, Julie Mikolajczyk suggested a future topic: how to better coordinate data sharing and acquisition among AGIC organizations.

X. Call to the public

Eric Shreve issued a call to the public, if there was anyone who registered to address the council and received no response.

XI. Adjourn

Without objection, Eric adjourned the meeting at 11:55am.