

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

A public meeting of the Arizona Geographic Information Council was convened on July 27, 2022 at 10:03 am on Webex. Present at the meeting were the following members or designees of the AGIC Data Committee:

Table 1: Committee Voting Members

Member	Agency/Company	In Attendance
Howard Ward, Co-Chair	TerraSystems SW	Yes, phone
Jenna Leveille, Co-Chair	AZ State Land Department	Yes, phone
Jack Avis	Pima County	Yes, phone
Kevin Blake	Yavapai County	Yes, phone
Jerome Breyer	GIS Works	Yes, phone
Nicole Eiden	AZ Dept of Health Services	Yes, phone
Eric Feldman	Maricopa County	Yes, phone
Bo Guo	Gistic Research	Yes, phone
Ben Hickson	Anderson Optimization	Yes, phone
Boyd Larkin	AZ Dept of Revenue	Yes, phone
Keith Larson	NRCS	Yes, phone
James Meyer	AZ Department of Transportation	Yes, phone
Jason Nyberg	Quantum Spatial	Yes, phone
Phil Ponce	Engineering Mapping Solutions	Yes, phone
Jill Sherwood	ASU	Yes, phone
Susan Smith	AZ Forestry and Fire Management	No w/o notice
Jamie White	City of Phoenix	No w/o notice
Steve Whitney	Pima County	Yes, phone
Andrew Zaffos	AZ State Geologic Survey	Yes, phone

Table 2: Public Members at Large

Name	Agency/Organization	In attendance
Brandon Barnett	AZ State Land Dept	Yes
Matt Bileski	AZ Criminal Justice Commission	Yes
Ryan Blum	GIS Works Consulting	Yes
Mark Christiano	US Forest Service	Yes
Aiko Condon	AZ Dept of Environmental Quality	Yes
Drew Decker	US Geological Survey	Yes
Sage Donaldson	AZ Dept of Transportation	Yes
Kasey Green	AZ State Land Dept	Yes
Elizabeth Heller	AZ Dept of Water Resources	Yes
Sarah Hess	Pinal County	Yes
Cory Homuth	AZ State Land Dept	Yes
Jason Howard	Maricopa Association of Government	Yes
Ayan Mitra	ASU	Yes
David Moss	Sidwell	Yes

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Name	Agency/Organization	In attendance
Veronica Nixon	AZ Dept of Water Resources	Yes
Jason Ramsey	Veterans Geospatial & Land	Yes
Thara Salmone	Dept of Economic Opportunity	Yes
Carrie Schmidt	AZ State Museum	Yes
Cheryl Thurman	TerraSystems SW	Yes
Mark Topping	WGI	Yes
David Waltz	AZ Dept of Water Resources	Yes

- I. Meeting called to order at 10:03 a.m. Introductions were made, and quorum was established.
- II. April Meeting Minutes, on a motion by Steve Whitney and a second by Ben Hickson, were approved unanimously

III. Announcements

Jenna reviewed the following announcements

- AGIC Council Meeting – August 4, 2022 10 AM
Will be 1st hybrid meeting in over two years. DEMA will host at EOC; if interested, the location will be posted on the AGIC website and in the pre-meeting reminder.

AGIC Education and Training Symposium will in person in Prescott for 2022. August 30-Sept 2, 2022. No will be no virtual option; we will do our best to meet safely

- Early bird registration deadline is Friday, July 29
- Award Nominations deadline is Friday, July 29;
- Maps and Apps deadline is Aug 19
- AGIC 911 Committee has been renamed to AGIC Public Safety Committee
This change was approved by the AGIC Council at their last meeting. The change was made to better reflect the broadening scope of activities, from mainly NG 9-1-1 implementation to a wider range of public safety issues. Next meeting will be tomorrow, Thursday, July 28th at 10 a.m.
- WGI acquires Atlantic – Atlantic has collected Lidar in Arizona many times. Their acquisition by the large engineering company, WGI, broadens their ability to support Arizona, especially with airborne LiDAR. Two WGI representatives were in attendance by phone in case there were any questions, WGI kept all Atlantic employees. The company will be at annual AGIC conference.

IV. Workgroup activity summaries and action items

Howard reviewed the following summary and called for votes as noted below

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- **AZCORS Workgroup** – The committee last met on April 26, 2022. Created and distributed a list of pool questions from AZ CORS users to discover use cases. Received 23 responses to the questionnaire and are compiling the information for discussion at a future meeting. NGS and ADOT have met several times to discuss several NCN CORS that are currently experiencing technical difficulties. Corrections to several of these stations are forthcoming, and a few of the stations are probably planned to be decommissioned. Next meeting will be late summer or early fall 2022. **No items for Data Committee approval.**

- **Cadastral Workgroup** – WG met on June 3rd and had a discussion of the Arizona Cadastre and Land Records Questionnaire and what updates needed before sending it out again this year. Discussed next steps on writing the cadastral glossary of terms; discussed the AZGeo parcel administrators' group, and possibilities for this workgroup assisting with statewide dataset development. Eric Shreve joined the meeting to talk about NG911 data. **No items for Data Committee approval.**

- **LiDAR Workgroup** – The LiDAR workgroup collaborated in organizing the Spring Symposium event which combined the efforts of LiDAR, UAS and Natural Resources. It was an overwhelming success; approximately 50 attended in person and 35 virtually. Yavapai college hosted, providing meeting space and lunch/refreshments for those in person and they are interested in hosting an AGIC event in 2023. The LiDAR workgroup met June 28th. Discussed 3DEP projects, the Spring Symposium debrief and the workgroup track for the AGIC Conference. Mark Christiano presented on the use of LiDAR in BAER. (Burn Area Emergency Response) using the Tunnel and Pipeline Fires right outside Flagstaff as the BAER example. The group selected "4D Geospatial Work Group" as its new name. This topic has been discussed for the last year; the main concern was that the workgroup has moved beyond just LiDAR into all 3D data. This includes photogrammetry derived point clouds, terrestrial LiDAR, and mobile LiDAR. The group has begun exploring change detection of datasets of the same area but from different time periods, so the workgroup felt it was important to reflect that in the name with "4D".

Action Item: The Lidar Workgroup requests a motion to change the "LiDAR Workgroup" name to "4D Geospatial Workgroup" (4DWG); Jenna motioned to accept and Jason Howard seconded. Motion was passed unanimously.

Jenna requested a motion to finalize the Workgroup workplan motion; Ben Hickson motioned and Howard Ward seconded. Motion was passed unanimously.

- **Natural Resources Workgroup** - The joint Natural Resources, UAS and Lidar Workgroup Symposium was a success! Presentations are available on the AGIC YouTube channel. The videos of the drone demonstration and control presentation from BadElf were recorded live and are available on AGIC's Facebook page. The WG is actively engaged in planning the Natural Resources Special Interest Group

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(SIG) session for the fall Education & Training Symposium. NRWG Hub site team continues to meet monthly to continue to expand the NRWG presence on AZGeo. They are working on adding authoritative data sources, relevant applications and story map use cases. NHD Pilot project workgroup continues to meet. A developer from ADWR is a new volunteer and will assist with the re-group of the Data Analytics team to conflate batch data into the NHD. USGS is also providing technical direction for this process. The group is exploring Lidar derived elevation data to enhance the current features. Testing necessary resources and workflow for this type of data analysis and feature extraction is still underway. The ideal timeframe for the Data Analytics team to address concerns is the next 2-4 months to keep the project moving. The Protect Areas Database (PAD-US) Update subgroup continues to meet. The group is developing a repeatable workflow for updates. They are currently reaching out to stakeholders to inquire into data availability. **No items for Data Committee approval**

- **SPCS2022 Workgroup** - Work group received a written memo from National Geodetic Survey in June detailing general path forward for the project on a national level. Work group held a meeting to present the memo on 7/21. WG is now holding for outside input from both NGS and APLS (as listed below). The next step is to discuss updates to State Statutes that relate to SPCS2022. There is an Arizona Professional Land Surveyors association committee currently discussing and drafting recommendation to the statutes. That committee hopes to have a draft for this work group in the fall of 2022. Once received this work group will work with other groups in AGIC to move this forward so that we can have recommendations for AGIC on moving forward. **No items for Data Committee approval.**

- **Unmanned Aerial Systems (UAS)** – this group meets on the first Wednesday of each month. Work continues on-going development of content for the AZGEO website including taking advantage of the large data storage plan on that platform. Green Drone has finished all story map lessons and activities associated with the GDAZ middle and high school programs. This material along with pre/post program surveys are stored on AZGEO. The WG also co-sponsored the Spring Symposium event which, as noted previously was a great success. Spencer Coffin completed an impressive drone flight with a drone build at Yavapai College. A tour was provided to showcase some of Yavapai’s satellite campuses. **No items for Data Committee approval.**

V. Spring Symposium Debrief

Mark Christiano showed the Symposium agenda and noted that it was the successful collaboration of three workgroups (LiDAR, NR and UAS) and was a complete success. Day 1 was UAS flight and Yavapai tour. Day 2 included a well-received keynote from Teki Sankey, NAU Professor, who specializes in remote sensing solutions and analysis. Mark Christiano presented on the point cloud; Yavapai College discussed their UAS work and the USFS drone team showed up too. Jenna noted that the Symposium was well done and worthwhile. Kasey Green noted how much he enjoyed

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working with the work groups and looks forward to future events; Jenna noted that each year that the AGIC Council comes up with strategic goals and the big push this year was collaboration. The Symposium was a good example of that collaboration. Jenna also noted that Yavapai College was talking about providing food and space at no charge for the next event this spring. Mark noted that the spring event is a huge opportunity and could be even bigger with more workgroups involved. Jenna noted that Yavapai College has lots of resources and by holding the event during the school year allows students to attend more easily. This supporting of students also fits a DC and AGIC Council goal.

VI. Esri UC Debrief/Discussion

Jenna noted that this event was back in person for the first time in two years. She attended and observed how fun it was to be back and how intimidating to be in a crowd of 14,000 attendees after two years away. Jenna asked if anyone else wished to share their experiences. Veronica Nixon from ADWR noted how valuable it was to have access to the Experience Builder development team as well as networking with other EB users. Jenna noted that EB might be good session to offer through AGIC DC. Sage Donaldson found session on EB and Arcade; very useful and she co-presented which was a good experience; Her presentation can be found at the following [link](#). She also found the networking very helpful. Drew Decker noted that he stayed pretty close to the USGS display but had lots of fun as attendees stopped by with lots of questions about LiDAR and maps. Jenna gave kudos to Jill Sherwood who was part of team that won a SAG award at the conference.

VII. Statewide/Regional Data

- USFS Imagery and Lidar acquisition (Jenna Leveille)
USFS is collecting Lidar and imagery at same with Surdex for post fire use and that imagery will be in public domain. Mark Christiano noted that there has been a shift in world of fire; old way was simply a high-resolution flight post fire; since Surdex was in New Mexico flying those fires, Mark got a deal to upgrade for their post fire flight to include Lidar data; we already have pre fire LiDAR and imagery and now we are getting post fire lidar. He briefly reviewed the contents of the technical proposal which included list of fire names for which they were gathering data; a map of NM and AZ flights; There is no definite date pending approval of Tech Proposal but it should be soon and represents an exciting advancement for USFS;

- AZGeo Updates (Jenna Leveille)
Jenna noted that they are working on large data storage option with access for the community; they are getting closer to availability; they have been testing over the last two weeks and it may be available by the Conference; UAS has outreach project going to teach middle and high school students about drones; Green Drone has put up materials on AZGEO and teachers can enroll and access all lessons from there. Green Drone will be at the Conference and giving more details. She

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noted that 22 middle school and 22 high schools in Phoenix and Tucson are participating. DC members can participate; there will be demo at ASU drone studio this fall. Outreach is working on best practices for identifying and tagging authoritative data for intended use. Jenna noted that they are implementing Portal on back end of AZGEO; for large data set providers there will be improved tools and performance. Kasey continues to work with folks to get best metadata possible; Please reach out to Kasey or JL if you have questions about use or plans for AZGEO.

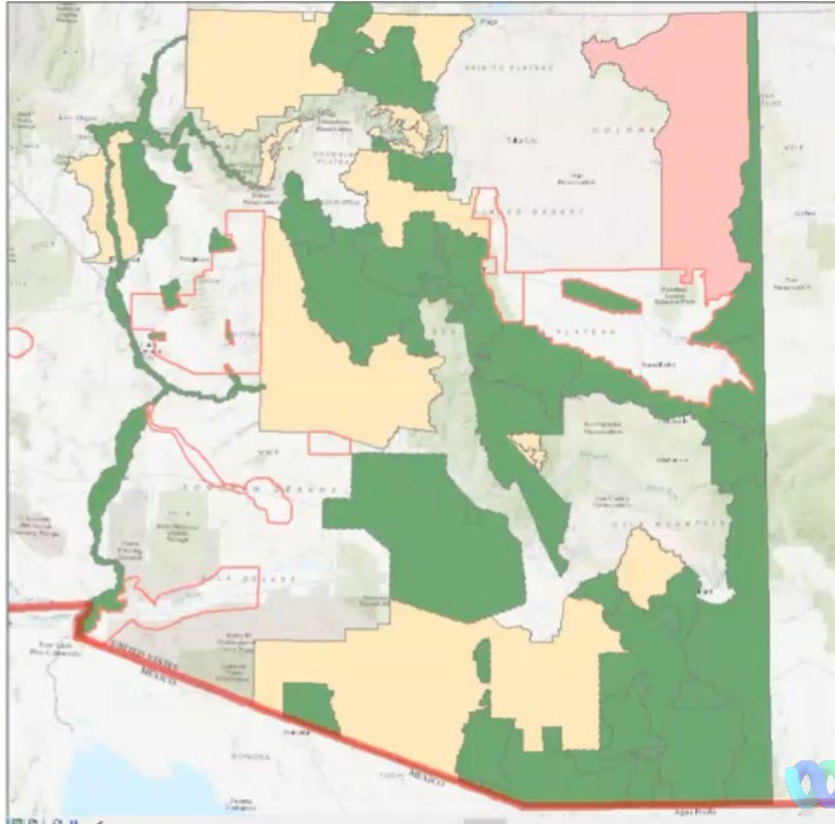
- **NAIP Update (Keith Larson/Jenna Leveille)**

Jenna noted that they have received the 2021 NAIP imagery and are working on making it available as image services on AZGEO; there are issues with time of year it was flown (snow and long shadows); but they did get statewide imagery. Keith Larson noted that now is good time to discuss a 30 cm buy up for 2023; some even want 15 cm; he noted that NAIP program manager now has a blanket purchase program which allows single contracting vehicle which should speed things up.; Jenna can share agreement that agreement with this group on request. Keith noted that the 2023 flight would be a good time to try this; Oregon has been doing 30cm statewide and it is becoming more of standard thing across the country. Jenna offered that she will hold a separate meeting for anyone that wants to participate. The 911 Program and SRP have already expressed interest. Mark Christiano noted that this was incredibly important acquisition for them; the 2021 flight on the Kaibab is useless because of snow. He will pursue at least 30 cm and maybe 15 cm. Jenna will set up a meeting after the AGIC Conference and anyone from the DC is welcome; She asked that you reach out to her with questions.

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

Drew showed the current LiDAR coverage map (shown below). He noted that Tan shade indicates work in progress; green shade is done and pink shade is planned; He noted that the Navajo Nation has been awarded but not yet started. He has also been working with FEMA region 9 on their 2022 on area south of Navajo nation and a sizeable chunk of Mohave County which should start later this year; there are still some modifications to be made on this FEMA project. Drew noted that the Central Coconino kickoff meeting was held yesterday; this project includes NRCS, ASLD, USFS, and the BLM; it amounts to about 5800 square miles. Grand Canyon project has seen all products delivered and is wrapping up; Pima County has received some products. Yavapai County is only waiting final vertical QA and is almost done. Most of the green shown on this map available for download as a standard 1m seamless product and original product with resolution as delivered. Call Drew with any questions. Drew noted that we should anticipate an agency announcement on the website with detail on 3DEP public webinar in August.

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- 911 Office Update (Eric Shreve)
Eric reviewed his NG Core Service slide deck and noted that there was a lot going on; The Program recently awarded ComTech the contract for migrating from E911 to NG; this will give 911 systems the ability to geospatially route calls, increase redundancy and improve response; NAUA is the furthest along and has four PSAP's already cutover and using geo routing; they will be switching WMAT over tomorrow. He noted that the Navajo Nation is not part of NG service plan, using instead a combination of legacy and E 911 technology through Frontier; He has been in discussion with the Nation as well as State representatives from Colorado and New Mexico about migration. He noted that they are also supporting the National Address Database (NAD) and made their first submittal a couple of months ago.

VIII. Presentation: 911 Program Validation/Submission Tool on AZGeo (Eric Shreve)

The 911 Program has implemented a statewide NG9-1-1 data validation and append tool. It uses AZGEO as a data repository and uses existing AZGEO login credentials. The intention is to provide a tool that locals can use to submit and validate their 911 data; it represents a phased approach to meeting NENA standards as contained in the i3 GIS data model; Eric proceeded to do a demo of the site

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IX. **Information or Topics for Future Meetings:** none were suggested.

The meeting adjourned at 11:30 a.m.