Committee/Workgroup Report
November 5, 2020

Committee/Workgroup
Admin and Legal Committee

Chairs
Eric Feldman
Shea Lemar

Summary
The Admin and Legal Committee has been working to support its goals with a focus in the following areas:

- Goal: Track Council membership and promote full participation
    - AGIC Council roster review and support
        - There are seven member renewals and three new applications at the Arizona Office of Boards and Commissions. Debra Crouse, the ADEQ representative, has resigned and ADEQ submitted a new application. Currently, there are nine vacancies in addition to the renewals.
- Goal: Track and promote sound Council finances
    - AGIC Budget
        - The AGIC Treasurer continually updates the budget and presents his report at the Council meetings.
- Facilitate interagency coordination in support of Council goals
    - Updated the committee/workgroup reporting template to address requests of the Council.
    - Started discussing the committee and workgroup structure.
- Assist in developing and reviewing requirements and standards for a variety of projects
    - Updates to the AGIC Members Manual
        - The AGIC Members Manual workgroup updated the AGIC Members Manual. The Admin and Legal Committee members have completed their review of the manual and have voted to present it to the Council for approval at the November meeting.
    - Updates to the AGIC website
        - Changes through August to committees, workgroups, and Council members have been incorporated and posted to the AGIC website.

Action Item

- **The Admin and Legal Committee is asking for a motion to the Council to approve the updated AGIC Members Manual.**
    - o Reasoning: One of the Committee's 2020 Work Plan activities was to update the AGIC Members Manual. The Manual had not been updated in five years and updates were made based on requests that have been made in Council and Committee meetings. A summary of the updates as well as the updated AGIC Members Manual were provided to the Councilmembers.
    - o Pros: Updating the Manual helps Councilmembers to be able to see the changes that have been implemented over the years. It also allows new members and new officers easy access to information they need to be effective members.
    - o Cons: None

Committee/Workgroup Report to AGIC Council
November 5, 2020

Committee/Workgroup
AZGeo Work Group

Chairs
Ryan Johnson
James Meyer

Summary

The AZGeo WG has largely met most of their 2020 Work Plan goals. The group has been guiding the development and associated activities of the AZGeo migration to Esri's Hub platform. AZGeo Data Hub was successfully launched (azgeo.az.gov) in July. User accounts and groups have been re-established and there is on-going fine tuning of the functionality and interface. The existing applications are largely migrated with some details still being finalized. AZGIV will be migrated before year end. Storage for AZGeo is a hybrid model of AWS and EC2 instances and ArcGIS Online. Long-term funding is supported through ASLD and ISA's with ADOA, ADOT and DFFM. Currently, ASLD is anticipating approximately $20,000 for FY2021 to support AZGeo in addition to foundational support from ASLD. These activities meet the groups work plan goal to identify resources for sustainable and long-term maintenance of AZGeo and the curation of its content.

There is interest from a number of organizations and agencies to utilize AZGeo. The next additions include initiative pages for ADOT Research Center, AZ Broadband and Sun Cloud. AZGeo initiatives will also be developed for AGIC Committee and Workgroups interested in developing content.

Two sessions at the 2020 Virtual AGIC Conference were focused on AZGeo: a short intro to and overview of AZGeo and an hour-long technical session that did a deep dive into the platform. This fulfills the groups goal to seek out outreach opportunities for AZGeo utilization and data sharing.

The AZGeo Advisory Committee voting members have been identified and the first meeting is scheduled for Thursday November 12, 2020 from 9 – 10 am. This is a public meeting. Anyone interested is welcome to attend. Meeting details are posted on the AGIC website calendar.

Action Items
- o None

AGIC Council Report
November 5, 2020

Committee/Workgroup
9-1-1 Committee

Chairs
Brian Bond
Vacant co-chair

Summary
The 9-1-1 Committee meets quarterly, nearly the same time as the AGIC Council meetings. The 9-1-1 Committee Co-Chair position was both filled and vacated within the last quarter. The changes in co-chair status is not due to AGIC but because of changes to the State 9-1-1 Office. Having a meeting to seek a new co-chair and evaluating the committee's organization. During 9-1-1 Committee meetings, we have been working to:

- Facilitate GIS relationships needed to address individual county overlaps and gaps for emergency service ~~zone~~ boundaries, a key polygon feature for Next Generation 9-1-1 spatial routing.

- Share workflows for data quality, such as a fishbone analysis, which has also led the AZ Geospatial Intake and Validation (AZGIV) system to implement a fishbone. A fishbone analysis, also called a "Cause and Effect" diagram, is one method of relating and exploring the contributing factors of a known outcome. This works by first identifying the outcome, then by identifying the major factors that contributed to that outcome, and then by investigating the specific components of each of the major contributing factors.

- Work with the State 9-1-1 Office, Pima County, and Terra Systems Southwest to coordinate state-wide data collection to support AZ DPS 9-1-1 mapping system update. The map updates are twice a year.

    o The intention of this data collection is also to be able to provide state-wide data sharing for other state, county, and local agencies in support of the use of authoritative data sets. Streets, addresses, parcels, municipal boundaries, and

emergency service zone boundaries covering the entire state were shared on the 911 Public Safety group in AZGeo Data Hub.

- State-wide address data is shared to the federal National Address Database (NAD), used in Address geocoding services. State-wide data collection has been provided support for AZ Department of Health Services, AZ Department of Environmental Quality, AZ Department of Transportation, AZ Department of Economic Security, AZ Department of Revenue, and wildfire GIS personal may have used this data. We hope the data is also be used for updating AZ State Land Department features such as municipal boundaries and other services.

The State 9-1-1 Office Strategic plan that is just getting off the ground this coming year (we hope) will supplement what AGIC has been doing with education, support of the state-wide datasets, and in helping agencies in the State with some additional support. In addition to the State 9-1-1 Office Strategic plan, the State 9-1-1 Office provided staff to ensure formatting was consistent in the finalized revision to Arizona NG911 GIS Guidelines and Best Practices document released in August 2020. The committee's work plan outlines the purpose to foster cooperation among neighboring 9-1-1 Systems to build a seamless state-wide data. We do not where the State 9-1-1 Office Strategic plan might supplement AGIC with building the seamless state-wide data. In the next few weeks as AGIC and the State 9-1-1 Office staff talk, how the cooperation between the State 9-1-1 Office and AGIC might look in the coming year.

All of these items listed above are routine and defined in the 9-1-1 Committee's AGIC work plan. I feel we are getting better state-wide use of this data and we hope to only improve the process, the timeframe, and the methods in more common updates. Standards are being updated by the National Emergency Number Association (NENA) and Association of Public-safety Communications Officials (APCO) and other organizations like the Urban and Regional Information Systems Association (URISA). Therefore, the work of the committee to continue to educate local users in a forum, both to GIS and 9-1-1 System Administrators, is an on-going task as technology changes or standards progress.

The 9-1-1 Committee is considering how we might branch out some of the topics covered in the committee to work with other purposes such as traffic safety standards, crash related tasks, emergency management, indoor mapping, Wilderness search and rescue, etc.

The work groups under the 9-1-1 committee are:
- **Data Sharing** – this work group completed the work to update the revision to Arizona NG911 GIS Guidelines and Best Practices document. The 911 Data Sharing work group can be removed from the AGIC organizational chart.
- **Dispatcher Education** – this work group has completed the work of creating a resource to educate dispatchers. I has been realized that dispatcher have a shorter career length and it difficult to get existing dispatchers to use the mapping resources they have or to

get them to be more interested in learning the mapping. The 911 Dispatcher Education work group can be removed from the AGIC organizational chart.

Action Items
There are NO actions the Council to discuss and vote on at this time from the 9-1-1 committee.

AGIC

ARIZONA GEOGRAPHIC
INFORMATION COUNCIL

Committee/Workgroup Report to AGIC Council
November 5, 2020

Committee/Workgroup
Data Committee

Chairs
Howard Ward
Jenna Leveille

Summary
The Data Committee provides a forum and structure to discuss geospatial data, geospatial initiatives, and geospatial technologies. Each meeting includes a demo or presentation highlighting relevant geospatial projects to support this goal. This group meets quarterly and has had one meeting since the August Council Meeting. The demo at the October meeting was on AZGeo.

Other meeting highlights include:
- Statewide Data Discussion: DPS map data (which is the statewide append of address points, roads, emergency service boundaries, and community boundaries) is now complete (as of August) and new address locators are complete. Data and locators are accessible to AZGEO 9-1-1 Public Safety group members, a membership that is vetted by the Arizona 9-1-1 Office. The next statewide append is planned for November.
- AZGeo Advisory Committee Representative: Howard Ward has been appointed by the committee to be the Data Committee Representative.
- 2021 Work Plan: meeting frequency will continue to be quarterly and the next Data Committee meeting is January 13.
- NAIP
  - 2019 NAIP (4band) is available as a service on AZGeo. The source files are available for download via a google drive. Contact Jenna if access is needed.
  - 4 band, 0.6 m resolution is now standard for all NAIP collection
  - Next AZ flight likely in 2022.
- 3DEP/3D Nation

- o BAA Open; first application review begins Nov 13.
- o Maricopa/Pinal project currently being flown. Data delivery expected in Q1 of 2021
- o 3D Nation report being finalized and should be released in early 2021.
- Future discussion topics:
  - o forming a census work group to discuss alternatives to the Census decennial data products released if differential privacy creates data that is not able to be utilized.
  - o Evaluation of the Data Committee standard agenda and workgroup reports; possibly restructuring items to improve its usefulness for members and participants.

Action Items
- o No action items

Committee/Workgroup Report to AGIC Council
November 5, 2020

Committee/Workgroup
LiDAR Work Group

Chairs
Mark Christiano
Jenna Leveille

Summary
The AGIC LiDAR Workgroup has been working to complete its main goals for the year.

1) Provide spring and fall events for LiDAR
2) Development of educational materials for the AGIC Website

The first goal of providing spring and fall events has been met with the Lidar Workgroup coordinating the Lidar Special Interest Group Session at the Virtual AGIC Education & Training Symposium. There were two sessions, session one had 74 attendees and session two had 40 attendees.

The Workgroup has created a Lidar Education Team that is working on developing and organizing content for a lidar centric webpage. The team has chosen AZGeo as the platform for hosting. This site will house basic information and videos on lidar, it's impact and usefulness, self-guided hands-on lidar lessons based on the US Forest Service Lidar Awareness Classes, and guidance documents created by AGIC and USGS to inform potential stakeholders of the 3DEP grant opportunity.

Action Items
- No action items

AGIC
ARIZONA GEOGRAPHIC INFORMATION COUNCIL

Committee/Workgroup Report
November 5, 2020

Committee/Workgroup
Data Committee / Natural Resources Workgroup

Chairs
Glen Buettner
Jeremy Johnson

Summary
The Natural Resources Workgroup held two virtual meetings this quarter. The meeting minutes provide full details:
- August 11, 2020 – NR Workgroup Meeting – Draft Minutes
- October 8, 2020 – NR Workgroup Meeting – Draft Minutes

In October, the team facilitated two Natural Resources special interest group (SIG) sessions during the AGIC Symposium with a total of 6 presentations. Planning is being finalized to host a second virtual natural resources workshop in early December. This, along with a workshop held in May, completes the workgroup's outreach goals for the calendar year.

A Hydrography Data Pilot Project Workgroup was formed early in the year to begin collaboration on statewide hydrography data and to identify possible ways to improve the National Hydrography Dataset (NHD). This project group also met twice during the quarter, including once with several USGS staff members from their NHD technical team. Progress continues with collection and initial evaluation of data from two 10-digit Hydrologic Units (HUCS) in southern Arizona and several members of the workgroup are slated to attend USGS NHD training as soon as it is available this fall. The Pilot Project Meeting Minutes provide details:
- August 19, 2020 - NHD Pilot Workgroup – Draft Minutes
- October 1, 2020 - NHD Pilot Workgroup – Draft Minutes

The Natural Resources Workgroup is just finishing their first full year in operation and expects successful completion of all goals by year end. Discussion of 2021 Workgroup goals has begun and should be finalized during the scheduled December meeting.

Action Items - None

Committee/Workgroup Report to AGIC Council
November 5, 2020

Committee/Workgroup
Cadastral Work Group

Chairs
Jack Avis
Jenna Leveille

Summary
This group meets irregularly and has had one meeting since the August Council Meeting.

Activities/Highlights include:

- A goal of the group is to improve the Geospatial Maturity Assessment report grade for cadastral data in Arizona
- Group identified a community need for best practice recommendations for cadastral resources at different scales; i.e. what resource to use at state, county or local scale of mapping
- A questionnaire was developed to inventory of available and sharable cadastral data layers
    - Initial response from AZ GIS Communities was incomplete
    - All counties except for Navajo have responded
    - Summarized results
- A decision tree for location and available data has been proposed to deliver best practice methodology by location

Action Items
  o None

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Committee/Workgroup Report to AGIC Council
November 5, 2020

Committee/Workgroup
SPCS2022 Work Group

Chairs
Brian Fisher
Jack Avis

Summary
This workgroup has not met since the May 2020 Council meeting. The preliminary Low Distortion Projections (LDP) for Arizona Counties are still in the design process as previously reported. Please see the May Council Meeting minutes for images and details on the LDP designs being developed.

Activities/Highlights include:

- 58 Preliminary LDP designs have been completed for Arizona
- Review of LDP's with major stakeholders, ADOT, and some City\Counties
- Preliminary LDP boundaries are being adjusted to conform with PLSS, Jurisdictional, and natural features
- A presentation on SPCS 2022 for Arizona was given during the AGIC Virtual User Conference
- Next Workgroup meeting TBD

Action Items
- o None

Conference Committee Report
November 5, 2020

Committee/Workgroup
UAS

Chairs
Chuck Powell
Kasey Green

Summary
UAS workgroup has a new Co-Chair in Kasey Greene. Debby Crouse stepped down at the end of July. The workgroup's main focus of this past quarter was the AGIC Symposium planning. For this year symposium we had two one-hour tracts on the last day of the event. 3 presentations were accepted and presented during the first track(47 attendees). On the second tract we elected to do a brief recap of the fly-in event and open discussion with the presenters from the fly-in (35 attendees). The work group will focus back on work plan and updating the website during the rest of the year's meetings.

Upcoming plans for the UAS workgroup include:
- Hosting another UAS Fly-Event in last spring/early summer 2021 or in the fall of 2021. It is our sincere hope that we can host an in-person fly-in but if we are unable to host a live event, we will hold a virtual event.
- Secondly the UAS workgroup will beginning working on the AZGEO UAS Group page. We are still in the early planning stage, but we are looking forward to creating a place where AZGEO UAS enthusiast can collaborate and share UAS data.

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Conference Committee Report
November 5, 2020

Committee/Workgroup
Conference Committee

Chairs
Steve Whitney
Jami Dennis

Summary
The Conference Committee successfully planned and executed a virtual conference this year, during the week of October 19th. Highlights include –

- Over 600 registrants, which emphasizes the ability for more folks to attend a virtual conference.
- No major technical difficulties!
- 14 Premium Plus sponsors, and 6 Premium sponsors.
- Jack Dangermond (founder and president of Esri) was our kickoff keynote speaker, and referenced several Arizona GIS efforts.
- Lisa Atkins (AZ State Land Commissioner) was our day two keynote speaker, and spoke (and showed a video) of how State departments are using GIS.
- The program included another great variety of presentations, technical workshops, and hands-on training.
- Networking opportunities were provided, and successful, for interaction between attendees, and between attendees and sponsors.

Action Items
Any actions the Council to discuss and vote on. Be sure to include information needed for the action.
- Action Item 1
  - **The Conference Committee is asking for a motion to purchase additional promotional items, for giveaways/prizes during the conference and other AGIC events.** A cap of $250 would be set.
  - Reason for action - Our supply of items has been nearly depleted, e.g. mugs, glasses, water bottles.

- Pros & Cons – Provides incentive for folks to participate, and helps promote AGIC. Although it does cost money, it is a relatively low amount.
- Prior committee actions – None.

Outreach Committee Report to AGIC Council
November 5, 2020

Committee/Workgroup
Outreach Committee

Chairs
Jenna Leveille
Cheryl Thurman
Patrick Whiteford

Summary
Activity highlights include developing standard work related to participation levels for AGIC volunteers. A mentoring program is being developed and is planned for launching at the beginning of 2021. This program will help to enhance systems of engagement within the Arizona GIS community. The Social Media Work Group has acquired the social media software, Hootsuite, approved at the last Council meeting. AGIC and GIS centric news articles continue to be posted and the AGIC website has never been better.

The AGIC Outreach Committee has been hard at work meeting the goals of our annual work plan in the following ways:

- Goal: Increase AGIC Awareness and Participation
    - o Increase annual AGIC Conference attendance
        - ▪ The 2020 AGIC Virtual Conference had 600+ registered attendees. The Outreach Social Media Workgroup reached more GIS Community members through their posting efforts.
    - o Increase outreach to students
        - ▪ The Outreach University team created a general 'What is AGIC & how do you become involved' video that was distributed prior to the conference to educators across the state to share with their students
    - o Actively recruit new members for the Outreach Committee
        - ▪ We added 3 new voting committee members
- Goal: Update and maintain the AGIC Webpage and social media accounts
    - o Maintain AGIC/GIS news and resources sections of the AGIC website
        - ▪ The website is current and relevant
    - o Increase social media presence

- New AGIC Twitter and LinkedIn accounts are active and being managed
- Social media management software has been procured and will be fully implemented by January
- ○ Create standard work
  - Standard work has been created for:
    - How to add an article
    - How to maintain basic website pages
  - Draft Social Media Guidelines are developed and are being finalized in coordination with the Admin and Legal Committee
- Goal: Create outreach materials
  - ○ Design for a Conference banner has been drafted and the group anticipates presenting the final version to the Council in February
  - ○ Flyers for AZGeo, GIS Day Scavenger Hunt, and what is AGIC have been developed
- Goal: Support professional development opportunities
  - ○ Developed a virtual scavenger hunt for GIS Day
  - ○ Inventoried non-AGIC GIS events
    - Actively promoting PhxGeo meet-ups, Tucson Coop meetings, and Northern AZ GIS User group meetings
  - ○ Support social networking and promote profession mentoring
    - Outreach assisted in hosting the Conference Virtual Lounge and Hospitality suite
    - Development of an AGIC mentoring program
      - Flyers and information developed
      - Participation forms developed
      - Guidelines and activity tracking developed

Action Items

- **The AGIC Outreach Committee is asking for a motion from the Council to approve the purchase of AGIC branded lapel pins for AGIC Participant recognition.**
  - ○ Reasoning: The AGIC Council tasked the Outreach Committee with defining AGIC Participation levels for 'membership' at the May Council meeting. Proposed AGIC participation levels were approved at the August Council meeting and the Outreach Committee was tasked with developing appropriate recognition materials. An outline of the participant levels and proposed recognition follows:
    - Friend of AGIC - Public participant in AGIC meetings (including Conference attendees). *No formal recognition beyond what the Conference Committee already does for presenters.*
    - Committee Member - Active in a committee/work group or a voting member of that committee/work group. *Committee Members will receive a certificate of participation after one year of*

involvement; tracked by Committee Chairs and documented in the meeting minutes by calendar year.

- AGIC Leadership – Includes Committee/Work Group Co-chairs, Secretary, and/or additional significant contributors identified by Committee/Work Group Co-chairs. *AGIC Leadership will receive an AGIC branded lapel pin; approval of pins for significant contributors will be requested by Committee Chairs and approved by the Council Chair on a case by case basis. AGIC Leadership will also receive a certificate of participation annually.*
- Council Member - Governor appointment *AGIC Council Members will receive an AGIC branded lapel pin. AGIC Council Members will also receive a certificate of participation annually.*

- **Pin details:**
  - One design is being proposed for simplicity; Additional designs or themed pins will be brought before the Council for approval separately.
  - After initial distribution of pins, all new Council Members and Leadership will receive a pin; one pin per person is proposed (even if an individual has multiple roles)
  - Proposed count: 100 (max estimated cost $2/pin)

- o Pro: AGIC Council Members and active volunteers will receive tangible recognition of their efforts and documentation towards GISP requirements if desired.
- o Con: Tracking participation will require additional effort; metrics on years of participation will need to be gathered for accurate reporting.

Follow-up on Council questions from Aug:

For each of the four categories:
- Who qualifies for each category? *see descriptions above*
- How will AGIC keep track of members? *Committee/Workgroup Chairs primarily through meeting attendance and minutes*
- Who will keep the list updated? *Chairs though meeting minutes*
- How often will it be updated? *Officially - annually (ongoing based on minutes)*
- Will we share the list online? *Yes, via work plans and meeting minutes*
  ·

For the pins
- Does everyone in each category get a pin? *No, anyone who is AGIC Leadership or a Council member*
- Does each category get the same pin? *yes*

- Do people get a new pin every year? ***No, except for new leadership and new Council members***
- If a person is in multiple groups, do they get multiple pins? ***No***
- Do you have to be in a group for a certain time period before you get a pin? ***An individual must participate as leadership***
  -

For the certificates
- Does everyone in each category get a cert? ***No, see details outlined above***
- Do people get a new cert every year? ***Yes***