

**MINUTES OF MEETING OF THE
ARIZONA GEOGRAPHIC INFORMATION COUNCIL
LIDAR WORKGROUP**

DRAFT

A public meeting of the Arizona Geographic Information Council was convened July 27, 2021 at 2:00 PM on Webex. Present at the meeting were the following members or designees of the AGIC Data Committee – LIDAR Group:

Table 1: Committee Voting Members

Member	Agency/Company	In Attendance
Mark Christiano, Co-chair	US Forest Service	Yes, phone
Jenna Leveille, Co-chair	AZ State Land Department	Yes, phone
Kevin Blake	Yavapai County	Yes, phone
Mary Darling	Darling Geomatics	Yes, phone
Kimberley Denney	Atlantic	Yes, phone
Craig Erdman	Geo Engineers	
Benjamin Hickson	Pima Association of Governments	Yes, phone
Keith Larson	USDA NRCS	Yes, phone
Arron Lee	Merrick & Company	Yes, phone
Roses Lockwood	Campbell Global	
Jason Nyberg	Quantum Spatial	Yes, phone
Eric Shreve	ADOA - 911	
Travis Woolley	The Nature Conservancy	

Table 2: Public At-Large

Name	Agency/Company	In Attendance
Chris Bertrand	Tohono O'Odham Nation	Yes
Jason Caldwell	Sanborn	Yes
Joe Cook	AZGS	Yes
Drew Decker	USGS	Yes
Pat McGarrity	Westland Resources	Yes
Mark Nigrelli	USFS	Yes
Josh Pope	Pima Association of Governments	Yes
Chelsea Scott	Open Topography	Yes
Mike Shelton	ADWR - CTP	Yes
Kristin Straka	National Park Service	Yes
Joe Wagner	Maricopa Flood Control	Yes
Jackie Watkins	Cochise County	Yes
Mariah Modson	AZ State Land Department	Yes

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Name	Agency/Company	In Attendance
Danny Lawlor		Yes
Brandon Barnett	AZ State Land Department	Yes
Ron Birks	Greater Phoenix Orienteering	Yes
Tim Burrows	AeroTech Mapping	Yes
Shauna-Rae Brown		Yes
Paul Keidel		Yes

- I. **Call to order:** Meeting was called to order at 2:04 pm; Introductions were made by the committee; ensuring attendance list was managed and quorum established.

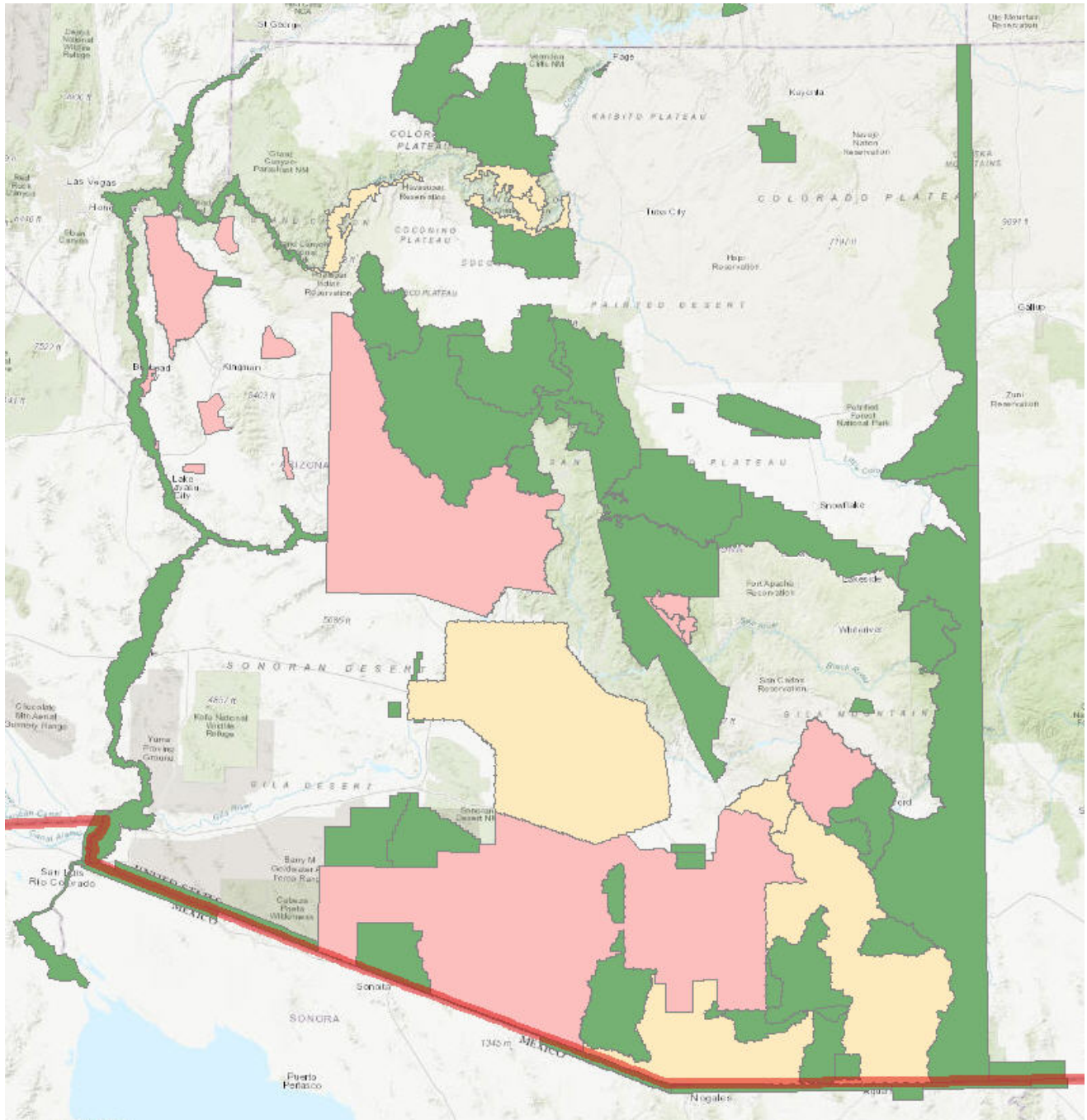
- II. **Approval of April Meeting Minutes:** April meeting minutes were distributed prior to the meeting via email. Jenna asked for a motion to approve the minutes as written. Ben motioned and Kevin seconded the motion. Motion passed unanimously without discussion.

- III. **Announcements:**
 - AGIC Education and Training Symposium will be virtual for 2021. Oct 25-29, 2021 – Call for abstracts deadline is Aug 15, 2021
 - AGIC/Esri hands-on training on Experience Builder | Wednesday, August 4, 2021| Virtual | free | [Registration](#)
 - AGIC UAS Fly-in | September 15, 2021 | Hybrid (Tucson) | Free | Registration and details to come

- IV. **Call for Team Volunteers:** Mark and Jenna spoke to the group about the smaller groups within LiDAR that help put together initiatives. There are those who work on the AZGeo webpage, a group who work together for planning events such as the LiDAR Symposium, as well as the LiDAR Acquisition team. While these are the three main subgroups, there is never a shortage of room for additional folks to join. With these groups running on volunteers, it truly helps the bigger team when others join.

- V. **3DEP/3D Nation Program Update:** Drew Decker from USGS presented his LiDAR coverage map to the group. As seen below, the areas in green are datasets that are currently available. Projects in Cochise County is close to approval and delivery. A project in Maricopa and Pinal Counties is completed and under review at USGS. The rose colored areas are “on-deck” to get started soon, upon award. This includes a project in Yavapai County, Pima County, and FEMA Region 9 in Mojave County.

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VI. **BAA Discussion:**

- 2021 BAA Webinar | Aug 11 at 10AM MST | Free – [registration](#) required
- USGS Planning tools:
 - Seasketch planning tool:
<https://www.seasketch.org/#projecthomepage/5272840f6ec5f42d210016e4>
 - US Interagency Elevation Inventory: <https://coast.noaa.gov/inventory/>

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- Data download for existing lidar data:
<https://apps.nationalmap.gov/downloader/>

Keith Larson shared with the group his areas of interest to cover. This includes the Arizona strip with the Red Rock Ranger District and parts of central Coconino County.

- VII. 2021 Spring LiDAR Symposium Recap:** Mark spoke to Drew Decker's Keynote presentation on 3DEP, Ben Hickson's presentations, data management analysis, Jackie Watkins from Cochise County and her experience using LiDAR flood control. There was also Brian Fisher on coverage of the CAP aqueduct and their specific controls for that corridor. For the Symposium Panel Discussion, Ben Hickson shared on his coordination of over 4,000 people to fund and develop the BAA for Pima County. Mark put out feelers for next year's symposium as to location, topics, etc.
- VIII. 2021 Goals & Future Workgroup Direction (cont'd):** Jenna and Mark continued the conversation regarding what topics this group should cover for 2022. Previous discussions touched on a wider variety of imagery analysis, such as processing the data, and point cloud files. Or now that data is getting collected maybe going through use cases. There was a unanimous agreement amongst the group that doing hands on workshops, training, demonstrations should be part of what this group does going forward.
- IX. NRCS LiDAR Project Presentation:** Arron Lee from Merrick & Company presented on 'LiDAR and Vegetation Solutions'. For a recent project, they flew a few different areas in southern Arizona at QL1 to determine lidar-derived forest biomass indicators. Products that came out of these flights included contours, biomass inventories, and canopy data. To make their air time efficient, their footprint involved long straight routes across the areas of interest. A challenge with this is the changing of elevation, canopy cover, and type of vegetation across the area. A good chunk of their project area had flight restrictions where it could only be flown during the weekend. The team was alert of changes due to wildfires and smoke. One solution for these obstacles involved attaching two sensors to the aircraft, as well as using different equipment to capture at different angles through vegetation. A system that worked extremely well for this project ended up being the G2 Sensor System.
- X. Discussion and Call for Future Presentations:** 3D golf courses in Arizona for water uses analysis.
- XI. Adjourn:** Meeting adjourned at 3:30pm.