

# Minnesota Geospatial Advisory Council

## 3D Geomatics Committee Work Plan

**Work Plan Date:**

February 6, 2017

**Chair and Vice Chair:**

Sean Vaughn, Co-Chair

Minnesota IT Services@DNR

763-689-7100 x226

[sean.vaughn@state.mn.us](mailto:sean.vaughn@state.mn.us)

Gerry Sjerven, Co-Chair

Minnesota Power

218-355-3990

[gsjerven@mnpower.com](mailto:gsjerven@mnpower.com)

**Link to Committee Charter:**

[The 3DGeomatics Charter \(http://www.mngeo.state.mn.us/committee/3dgeo/3dgeo\\_committee\\_charter.pdf\)](http://www.mngeo.state.mn.us/committee/3dgeo/3dgeo_committee_charter.pdf)

### Accomplishments from 2017 - 18

- January 11, 2018
  - Officially formed the 3DGeo Hydro Landforms and Hydrography workgroup
    - Co-Chairs: Andrea Bergman, Rick Moore
  
- January 25, 2018
  - Officially formed the 3DGeo Vegetation workgroup
    - Chair: Erich Grebner
  - Officially formed the 3DGeo Human Infrastructure workgroup
    - Chair: Colin Lee

# Work Plan for 2018

## Planned Activities and Deliverables:

- Engage GIS, remote sensing, and 3D geospatial communities to determine needs for specific data standards, products and workgroup focus. This will be accomplished by:
  - Engaging users through email survey of past committee members
  - Communications through MN GIS/LIS Consortium E-announcements
  - Review previous surveys to identify potential needs and areas of focus
  - Conduct surveys of other sectors of the state using the Geospatial Advisory Council's (GAC) - Outreach Committee, and Minnesota Geospatial Advisory Council meeting summary (GAC Yak publication)
- Create a Workgroup development template containing a generic mission statement, goals, and reporting procedures to guide Workgroup work plan establishment.
- Identify at least two 3DGeo Committee Workgroups by March 2018 and begin to solicit membership and assist with the development of Workgroup work plans.
  - Identify workgroup champions to lead formation of workgroups.
    - Each Workgroup will have a chair or co-chairs.
    - Each workgroup will have at least one member serving on the 3DGeo Executive Steering Team
    - Each Workgroup will strive to represent a wide range of expertise with active participation, minimum 6 meetings a year
    - Chair or Co-Chair will be available for 3D Geomatics Committee panel at the annual MN GIS/LIS Consortium Conference
  - Steer development of Workgroup mission statements, goals, work plans, and timelines
- Establish timelines for Workgroups.
  - Workgroups will develop drafts of work plans for 2018 for the March 2018 GAC meeting
- Explore the potential for a Workshop or user group meetings in 2018
- Expand content on MnGeo website for the distribution of 3D Geomatics Committee educational materials and serve as a clearinghouse of 3D technology information

## Committee Structure

### Potential Workgroups (sectors of expertise):

- 3D-Terrain Derived Hydro Landforms & Hydrography
- 3D-derived Vegetation
- 3D-Terrain Derived Soils & Landforms
- 3D-derived Human Infrastructure
- Agency Managers and Stakeholders
- 3D-derived Emergency Management Products
- 3D Data Acquisition & Sensing
- Systems & Software Technology
- Outreach and Education
- Data Standards, Management, and Governance

**Committee Organizational Diagram**



## Roles and Responsibilities:

The committee is now known as the 3DGeo Executive Steering Team. New members were added to the team to represent future workgroups. Some listed will be on a workgroup. Membership will continue to expand for each workgroup and will solicit invitations to members of related historical committees and workgroups.

## Executive Steering Team

Name	Workgroup/ Sector	Agency	Email
Gerry Sjerven	Infrastructure/ Utility (Co-Chair)	MN Power	<a href="mailto:gsjerven@mnpower.com">gsjerven@mnpower.com</a>
Sean Vaughn	Hydro/State (Co-Chair)	MNIT@DNR	<a href="mailto:sean.vaughn@state.mn.us">sean.vaughn@state.mn.us</a>
Dan Ross	At Large	MnGeo	<a href="mailto:dan.ross@state.mn.us">dan.ross@state.mn.us</a>
Clinton Little	Stakeholder/ Manager	DNR	<a href="mailto:clinton.little@state.mn.us">clinton.little@state.mn.us</a>
Jennifer Corcoran	Vegetation/ State	DNR	<a href="mailto:jennifer.corcoran@state.mn.us">jennifer.corcoran@state.mn.us</a>
Joel Nelson	Hydro/Education	U of MN	<a href="mailto:nels1945@umn.edu">nels1945@umn.edu</a>
Mark Reineke	Hydro/Private	WSN	<a href="mailto:mark.reineke@wsn.us.com">mark.reineke@wsn.us.com</a>
Chris Sanocki	Hydro/Federal	USGS	<a href="mailto:sanocki@usgs.gov">sanocki@usgs.gov</a>
Andrea Bergman	Hydro/State	DNR	<a href="mailto:andrea.bergman@state.mn.us">andrea.bergman@state.mn.us</a>
Rick Moore	Hydro/State	DNR	<a href="mailto:rick.moore@state.mn.us">rick.moore@state.mn.us</a>
Colin Lee	Infrastructure/ State	DOT	<a href="mailto:colin.lee@state.mn.us">colin.lee@state.mn.us</a>
Erich Grebner	Vegetation/ Federal	USFS	<a href="mailto:egrebner@fs.fed.us">egrebner@fs.fed.us</a>

## Resources:

The 3DGeo Committee will use the work and accomplishments of many earlier committee efforts.

## Past Committees

[Digital Elevation Committee](http://www.mngeo.state.mn.us/committee/elevation/index.html) (<http://www.mngeo.state.mn.us/committee/elevation/index.html>)

[LiDAR Research and Education Subcommittee](http://www.mngeo.state.mn.us/committee/elevation/research_education/index.html)

([http://www.mngeo.state.mn.us/committee/elevation/research\\_education/index.html](http://www.mngeo.state.mn.us/committee/elevation/research_education/index.html))

[Hydrography Committee](http://www.mngeo.state.mn.us/committee/hydro/) (<http://www.mngeo.state.mn.us/committee/hydro/>)

## Data Resources

[Elevation Data for Minnesota](http://www.mngeo.state.mn.us/chouse/elevation/index.html) (<http://www.mngeo.state.mn.us/chouse/elevation/index.html>)

[LiDAR Elevation Data for Minnesota](http://www.mngeo.state.mn.us/chouse/elevation/lidar.html) (<http://www.mngeo.state.mn.us/chouse/elevation/lidar.html>)

November 4th, 2015 LiDAR Committee Scoping Meetings Materials

**Committee/Workgroup Needs:**

The Executive Steering Team will be working with the GAC Outreach Committee and the MN GIS/LIS Consortium to help solicit membership for each workgroup, and identify workgroups missing from this plan. The development team and workgroups will utilize the GAC YAK as way to connect and inform state and local agencies.

**Dependencies and Interrelationships:**

As the workgroups are formed and identified, relationships and dependencies will be identified by those groups.

**Risks:**

- LiDAR and other 3D data procurements will not be standardized.
- Inaccuracies will be incorporated into future derived elevation data.
- Lack of standards for data development and data application of 3-D data derived products.
- Projects utilizing state funding will produce data not suitable for distribution and application in other projects.

**Additional Comments:**

**Date approved by the Geospatial Advisory Council:** March 28, 2018