

GeoGov Summit: Community Benefits Discussion

Guest Panelist Instructions

As a panelist, for our discussion on “Community Benefits: Modernized National Spatial Reference System,” we look forward to your insights by helping us to reinforce the benefits we expect, as well as highlighting the challenges as you see them.

More information on the new datums:

New Datums Webpage: geodesy.noaa.gov/datums/newdatums/

New Datums FAQs: geodesy.noaa.gov/datums/newdatums/FAQNewDatums.shtml

Please use the following template slides for your lightning talk. As you will only be allotted approximately 5 minutes to present, please limit your presentation to **no more than these four slides + the title slide**.

Your presentation is scheduled to occur on:

Tuesday, September 10 between 11:00 am and 1:00 pm.

Thank you for providing your feedback!

Please return your slides by Friday, September 6 to Galen Scott and Devin Pace: galen.scott@noaa.gov and devin.pace@noaa.gov.

You may also direct any questions on this to Galen Scott and/or Devin Pace.



U.S. Geological Survey

Michael Tischler, PhD

Community Benefits: Modernized National Spatial Reference System

2024 GeoGov Summit
September 10-12, 2024

Benefits of Modernization

We are excited because...

Expected advantages of the new datums for your organization, its products, or services

- Improved height information will enable us to provide the most accurate data possible
- Many users of the lidar data and derivatives we provide are using data as parts of survey-level activities (e.g., construction, precision ag/forestry, flood mapping, etc), where cm do matter
- We can write NSRS requirements into any task order for acquisition

Challenges of Modernization

We are concerned because...

Expected challenges of the new datums for your organization, its products, or services

- Confusion among end users in understanding geodetic terminology and time-dependant way of perceiving coordinates
- Transformations to new datums may incur costs if partners do not want “modernized” data
 - Potential of needing two copies of data delivered
- Need operational software that reprojects/transforms data- especially large, bulk features (e.g., Lidar Point Clouds).
- Will need to develop policy deciding if we “modernize” all our older/existing data, or just start with the new NSRS at a certain point in time
- Potential impacts with tiling schemes for our data

Opportunities Provided by Modernization

Potential business opportunities are:

- Improved Change Detection estimations
- Better metadata descriptions for understanding times of collections
- Improvements to STAC (Spatio Temporal Asset Catalogs)

Next Steps in Collaboration

What are possible opportunities that stem from collaboration:

- Guidance from professional organizations and societies.
 - We are working with ASPRS to collectively understand and develop roadmaps

The joint actions to take to promote a smooth transition:

- Beta testing software/code to convert/transform data
- Helping develop appropriate standard metadata/STAC templates and information