

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.



National Society of Professional Surveyors (NSPS)

Timothy W. Burch, PLS – Executive Director

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

- Combining of horizontal and vertical datums in one (1) system
- Expansion of low distortion projection (LDP) systems
- Increased accuracy and consistency within vertical datums
- New tools to streamline coordinate transformations
- Elimination of virtually all grid-to-ground conversions
- Closer integration with tidal datum information
- Additional uniformity for surveying practitioners

Challenges of Modernization

We are concerned because...

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

- Lack of metadata within historical information to adapt to the new datum
- Updating of existing surveying equipment to include new datum
- Enticing equipment and software manufacturers to implement
- Users with lack of understanding of a time-dependent datum
- Surveyors making time to learn about new datum

Opportunities Provided by Modernization

Potential business opportunities are:

- Increased collaboration between private entities and public agencies
- More uniformity of data collection between surveyors
- More accurate data collection/dissemination to benefit the public
- More reliable data for monitoring trends in infrastructure
- Increased vertical data for monitoring existing conditions

Next Steps in Collaboration

What are possible opportunities that stem from collaboration:

- Cross promotion of new datums within likeminded professions
- Increased data use to promote better planned environments
- More effective data analysis for reporting climate change

The joint actions to take to promote a smooth transition:

- Promoting awareness to non-technical leadership within AEC industries
- Provide examples of datum upgrade potential:
 - Smart Cities, Digital Twins, autonomous transportation