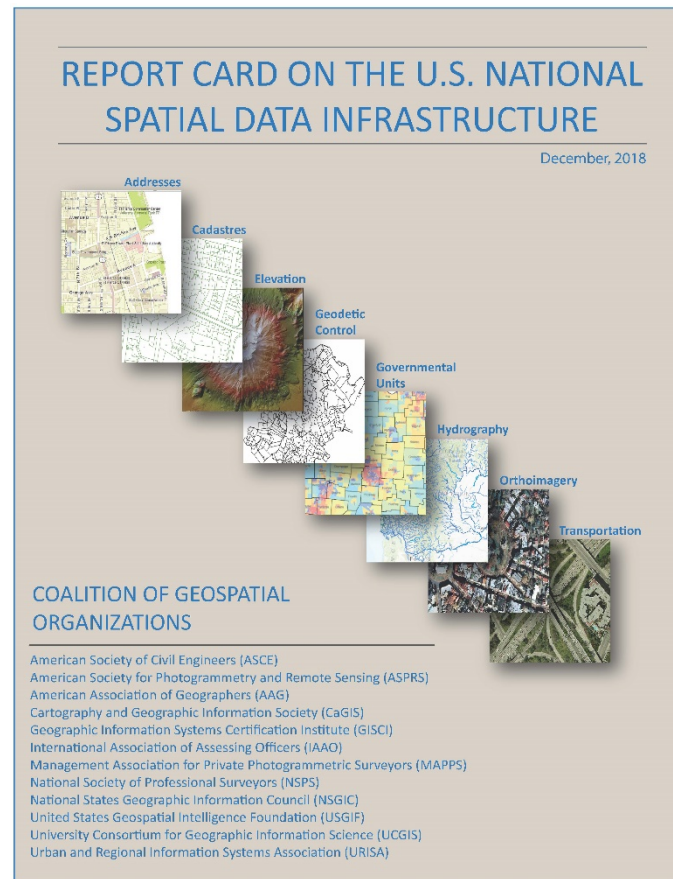
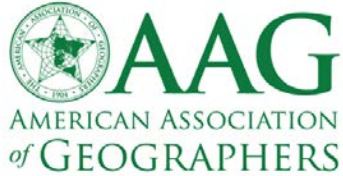


# 2018 Report Card on the U.S. National Spatial Data Infrastructure (NSDI)



# Coalition of Geospatial Organizations (COGO)

Bringing Geospatial Organizations Together



# What is the National Spatial Data Infrastructure (NSDI)?

The National Spatial Data Infrastructure (NSDI) is described by Executive Order 12906 (“Coordinating Geographic Data Acquisition and Access”) as **“the technology, policies, standards, and human resources necessary to acquire, process, store, distribute, and improve utilization of geospatial data.”**

The NSDI has become a critical vehicle for facilitating seamless data development, information sharing, and collaborative decision making across multiple sectors of the economy.

Federal Geographic Data Committee,  
<https://www.fgdc.gov/nsdi/nsdi.html>



# Development of the 2018 Report Card on the U.S. NSDI

- **July 2015:** COGO met with representatives from the FGDC to begin discussions about the next Report Card.
- **August 2016:** Steering Committee established with Scott Friendschuh (CaGIS) as chair.
- **September 2016 - April 2017:** COGO commissioned 24 content-area experts affiliated with its member organizations to evaluate the 8 data themes.
- **June 2017:** COGO and FGDC held a teleconference with the content-area experts to review the FGDC Geospatial Dashboard.
- **July 2017 - June 2018:** The teams drafted their respective sections.
- **August 2018 – December 1, 2018:** Draft of Report Card extensively reviewed by FGDC, COGO members, and the Report Card Steering Committee.
- **December 2018:** the 2018 Report Card completed.

## National Assessment of the NSDI's Ability to Meet Future Geospatial Data Needs

Data Theme	Primary Data Custodian	Previous Grade (2015)	Current Grade (2018)
Address	Census (Commerce) & Dept. of Transportation	N/A	B+
Cadastral	Dept. of Interior	D+	C-
Elevation	Dept. of Interior	C+	B-
Geodetic Control	National Geodetic Survey (NOAA, in Commerce)	B+	A-
Government Units	Census (Commerce)	C	A-
Hydrography	Dept. of Interior	C	B-
Orthoimagery	Dept. of Interior & Dept. of Agriculture	C+	B-
Transportation	Dept. of Transportation	D	C
<b>OVERALL GRADE</b>		<b>C</b>	<b>B-</b>

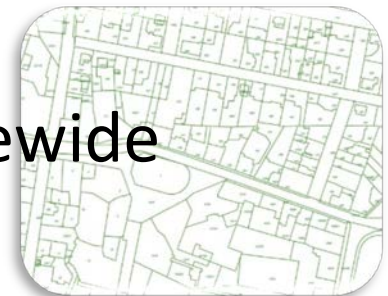


# Cadastral Data Theme

2018 Grade: **C-**  
2015 Grade: **D+**

Theme Evaluators & Recommending Organization	Resource Experts, via FGDC
Shelby Johnson (Lead), NSGIC	Don Buhler, BLM
Dan Fastene, IAAO	Bob Adler, BLM
Ed Crane, URISA	
Doug Vandegraft, CaGIS	

- Cadastral data remains primarily a local responsibility making a comprehensive national database covering public & private lands a daunting task
- Slow but steady efforts continue at the local, state, and other levels for digitization, standardization, and coordination
- Several additional states have created a statewide cadastral database



# Elevation

## Data Theme

2018 Grade: **B-**

2015 Grade: **C+**

Theme Evaluators & Recommending Organization	Resource Experts, via FGDC
Doug Schneider (Lead), NSPS	Diane Eldridge, USGS
Evon Silvia, ASPRS and NSPS	Dan Roman, NOAA
	Ashley Chappell, NOAA
	Lorna Schmid, USGS
	Juliana Blackwell, NOAA

- Creation of 3DEP program and partnerships major accomplishment
- Nation-wide coverage of medium and low resolution data is readily available for download
- Demand and usage are high for high-resolution data. Production is on-going but large gaps remain and funding is uncertain
- Data transition to new datums in 2022 will be important





# Geodetic Control Data Theme

2018 Grade: **A-**

2015 Grade: **B+**

Theme Evaluators & Recommending Organization	Resource Experts, via FGDC
Glen Thurow (Lead), URISA	Diane Eldridge, USGS
Jon Gustafson, NSPS	Dan Roman, NOAA
	Ashley Chappell, NOAA
	Lorna Schmid, USGS
	Juliana Blackwell, NOAA

- Strategic plan for the National Geodetic Survey (NGS) is in place and being followed for updating the National Spatial Reference System by 2022 (horizontal) & 2022+ (vertical)
- Outreach and communication across agencies and stakeholder groups has been active
- Geodetic control coverage for GPS support remains uneven across the states (CORS, OPUS-RS, etc.)



# Government Units

## Data Theme

2018 Grade: **A-**

2015 Grade: **C**

Theme Evaluators & Recommending Organization	Resource Experts, via FGDC
Nancy von Meyer (Lead), URISA	Dierdre Bevington-Attardi, Census Bureau
Hunter Key, URISA	Laura Waggoner, Census Bureau
	Bob Pierce, USGS

- Stewardship and investment by the Census Bureau has been a highly beneficial improvement for these data
- Coordinating the annual and semi-annual updates and contributions from state, regional, local, and tribal entities is essential for continuing the robust quality of the data



# Hydrography

## Data Theme

2018 Grade: **B-**

2015 Grade: **C**

Theme Evaluators & Recommending Organization	Resource Experts, via FGDC
Zsolt Nagy (Lead), MAPPS & NSGIC	Vicki Lukas, USGS
Troy Blandford, NSGIC	Rebecca Anderson, USGS
Thomas Newman, MAPPS	Megan Lang, FWS

- The 2016 Hydrography Requirements and Benefits Study (HRBS) was pivotal in documenting needs and organizational directives
- The National Hydrography Dataset (NHD) is complete at lower resolutions; producing and maintaining seamless data at higher resolutions is an on-going effort requiring significant coordination across entities with varying capacities, resources, and priorities



# Orthoimagery

## Data Theme

2018 Grade: **B-**

2015 Grade: **C+**

Theme Evaluators & Recommending Organization	Resource Experts, via FGDC
Steve Sharp (Lead), GISCI	John Cullen, USGS
Lucia Lovison-Golob, CaGIS	Shirley Hall, USDA-FSA
Roberta Lenczowski, ASPRS	

- Advances in technology have produced new sources of imagery, but on-going funding and support is critical and uncertain
- Commitment to open access has been wide-spread
- Implementing the use of Digital Object Identifiers (DOIs) as a permanent and unique system for images has been beneficial for archiving purposes



# Transportation

## Data Theme

2018 Grade: **C**

2015 Grade: **D**

Theme Evaluators & Recommending Organization	Resource Experts, via FGDC
David Moss (Lead), IAAO	Raquel Wright, DOT
Joe Weber, AAG	
Bert Granberg, NSGIC	
Shih-Lung Shaw, UCGIS	

- Coordination between agencies has been a key improvement
- Partnerships across public and private entities has facilitated access to new technologies and advanced the development and utilization of existing data sets



## National Assessment of the NSDI's Ability to Meet Future Geospatial Data Needs

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Orthoimagery	Dept. of Interior & Dept. of Agriculture	C+	B-
Transportation	Dept. of Transportation	D	C
<b>OVERALL GRADE</b>		<b>C</b>	<b>B-</b>

# National Assessment of the NSDI's Ability to Meet Future Geospatial Data Needs

How will this Report Card encourage and support development of the NSDI?

The NSDI is a ***national***, rather than federal, initiative. We all have a role to play in making sure that it is successful and that it can be realized.

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Transportation	Dept. of Transportation	D	C
OVERALL GRADE		C	B-

For additional information about the COGO Report Card on the U.S. National Spatial Data Infrastructure, please contact Cy Smith at [cy.smith@oregon.gov](mailto:cy.smith@oregon.gov) or Shelby Johnson at [shelby.johnson@arkansas.gov](mailto:shelby.johnson@arkansas.gov).

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