

Transportation Subcommittee Update

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Mission

- Enhance the Transportation Theme of the NSDI
 - Facilitate Partnerships, Coordinate Efforts, Heightening Awareness
 - Promotes best practices
 - Develops Data Standards
 - Improve Data quality
 - Improve Data Accessibility
 - Improve Data Exchange
- Chair, Derald Dudley, Bureau of Transportation Statistics
- Co-Chair, Ronald Vaughn, Federal Highway Administration

Members

Army Corps of Engineers

Dept. of Agriculture

- Forest Service

Dept. of Commerce

- Census Bureau
- National Oceanic and Atmospheric Administration

Dept. of Defense

- National Geospatial-Intelligence Agency

Dept. of Education

Dept. of Health & Human Services

- Centers for Disease Control and Prevention
- Indian Health Service
- National Institutes of Health

Dept. of Homeland Security

Dept. of Housing and Urban Development

Dept. of Interior

- Fish and Wildlife Service
- National Park Service

United States Geological Survey

Dept. of Transportation

- Bureau of Transportation Statistics
- Federal Aviation Administration
- Federal Highway Administration
- Federal Motor Carrier Safety Administration
- Federal Railroad Administration
- Federal Transit Administration
- Maritime Administration
- Office of the Secretary of Transportation
- National Highway Traffic Safety Administration
- Pipeline and Hazardous Materials Safety Administration

Dept. of Veteran Affairs

Environmental Protection Agency (EPA)

General Services Administration (GSA)

Small Business Administration (SBA)

Partners

National States Geographic Information Council (NSGIC)

Private Sector

- Applied Geographics
- ESRI
- Parsons Brinckerhoff

State Departments of Transportation (DOTs)

- Arizona Dept. of Transportation
- Arkansas Dept. of Transportation
- District Dept. of Transportation
- Mississippi Dept. of Transportation
- North Carolina Dept. of Transportation
- West Virginia Dept. of Transportation

Transportation Research Board (TRB)

Washington Metropolitan Area Transit Authority (WMATA)



NGDA Data Themes and Data Sets

- Airports and Runways
 - U.S. Department of Transportation
- Inland Electronic Navigation Charts, Locks, Ports, Waterways
 - U.S. Army Corps of Engineers
- Intermodal Freight
 - U.S. Department of Transportation
- Intermodal Passenger Travel
 - U.S. Department of Transportation
- National Bridge Inventory
 - U.S. Department of Transportation
- Rail
 - U.S. Department of Transportation
- Roads, ~~and Traffic Analysis Zones~~
 - Census
- Transit
 - U.S. Department of Transportation

TSC Activities

- 4 Meetings per year
- Presentations to Heighten Awareness
 - USGS/ Census Collaboration on Roads and National Map
 - On the Map Emergency Tool
 - 2020 Participant Statistical Areas Program
 - Connecting the American Community Survey's (ACS) Commuting Data to Population-Geographies
 - How BTS uses the ACS
- Review progress of TSC Working Groups
- Discuss Other TSC Initiatives

TSC Activities

- Added 3 Working Groups in 2017 -2018
 - United States Road Network Specification (USRNS) Working Group
 - Federal Land Roads (FLR)
 - Intercity Bus (ICB) Working Group

TSC Initiatives

- Initiating a Federal Track at AASHTO's 2018 GIS in Transportation Symposium
- Proposed Federal Presentations
 - GIS at USDOT - Steve Lewis
 - U.S. Road Networks Specification Update
 - Federal Land Road Update
 - Federal Passenger Travel Update
 - Federal Highway Safety Data
 - Transportation Performance Management at the FHWA
 - Federal Railroad Update
 - Transportation GIS at the U.S. Geological Survey
 - Transportation GIS at the U.S. Census

US Road Network Specification WG

- Mission: Detail an explicit, comprehensive, and consistent definition of the features, attributes, and relationships needed to model U.S. road data
- Why: Ease collection, integration, compilation, publication, consumption, and analysis of US road data by establishing an accurate, concise, stable vocabulary, semantic, format and quality criteria.
- Benefits: Reduce costs and effort
 - Compartmentalization of Responsibility
 - Common Software Development
 - Shared Resources

USRNS-WG Accomplishments

- Defined the requirements the specification should meet
- Cataloged the attributes necessary to fulfill use cases
- Reviewed Conceptual and Existing Road Models
- Identified ISO 14825:2011 as the source standard for the USRNS
- Upcoming
 - Define a base specification to model road identities, locations, and functions
 - Identify model extensions to accommodate other missions

USRNS-WG Upcoming Agenda

- Define a base specification to...
 - Model Identity
 - Model Location
 - Model Classification
- Identify extensions to accommodate other missions
- Build consensus among the greater geospatial-transportation community



Intercity Bus Working Group

- **Mission**
 - Study the density, frequency, and accessibility of intercity bus (ICB) service
 - Understand and promote the benefits of Intercity Busing
 - Demonstrate the benefits of publishing GTFS compliant ICB service data
 - Encourage and aide the publication of GTFS compliant data
- **Why:**
 - Join and publish ICB service fragments as a single layer
 - Provide context, perspective, and spatial awareness
 - Provide a clearer understanding of the complete system
- **Benefits:**
 - Transportation decision makers have the data needed to make informed determinations
 - Gain a clearer understanding of how the ICB industry benefits the nation by connecting and enriching the lives of Americans

ICB WG Accomplishments

- Identified preferred data layers for the ICB Atlas
- Published a draft ICB Atlas
- Identified a method of analyzing populations within bus stop catchments
- Promoted the publication of GTFS data among the ICB community
- Influenced the ICB community to produce and publish GTFS data
- Designed a data collection method from ICB service providers
- Worked with Industry leaders to gain acceptance of data collection and publication methodology

ICB WG Agenda

- Publish BTS/ICB Service Provider Partnership MOU
 - ICB Service Providers grant BTS a Creative Commons license to collect and publish data
- Compile data into the first edition of the ICB Atlas
- Continue to promote the publication of GTFS compliant data
- Continue to mature ICB processes and Atlas

Federal Land Roads-WG

- FLR Update to follow
- Provided by Gita Urban-Mathieux

Coordination Group Vote

- Revised TSC Charter has been forwarded to the FGDC for review
 - Updated Language
 - Clarifies how the USDOT meets its FGDC mission

Questions?

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