### Introduction to the Federal Trail GIS Schema A Unified Strategy



### Agenda

#### • Purpose

- Workgroup History
- Current Status: Review Period
- Explore the Schema
- Next Steps: Where we are headed
- •Use Cases
- Summary: Benefits of the schema
- Workgroup
- Question & Answer Session



### Purpose

- Create a nation-wide GIS trail data schema template from the <u>Federal Trail Data Standard</u>(2011) that can be utilized by all agencies and partners to establish a unifying and common trail GIS data structure.
- Federal Trail GIS Schema (FTGS): Flexible to include <u>all</u> trails local and National Trails (FTDS)
- FTGS provides better GIS coordination and collaboration between agencies and partners for:
  - Trail projects
  - Efficient sharing of authoritative trail data with the public and across management
  - GIS decision making support for trails
- FTGS template utilization is highly encouraged, but not required

## Workgroup History

- 2017 Continental Divide NST/Arizona NST Utilizing Federal Trail Data Standard (FTDS) for Geographic Information System (GIS) location database
- June 2018 Workgroup started monthly meetings CDNST (FS), AZNST (FS), Lewis and Clark NHT (NPS), NPS, USFS, some BLM interest
- May 2019 USGS National Digital Trails joined effort
- Federal Geographic Data Committee (FGDC) Transportation Theme Chair and Co-chairs joined effort (DOT and FAA)
- July 2020 Presented to National Trails Roundtable
- September/October 2020 BLM/USACE join working group
- February 2021 Finalized documentation and database template
- March 2021 Public Review until March 31, 2021

### **Current Status**

#### 30-day Review Period March 1- March 31, 2021

- <u>GeoPlatform.gov/ngda-transportation/federal-trail-gis-schema-working-</u> <u>group</u> - *Federal Trail Data Schema Introduction* provides background
- Partnership for National Trails (PNTS) NPS National Trails GIS Network
  - PNTS Blog
  - Pathways Across America magazine (mid-May)
- Agency Review <u>USGS</u>, NPS, USFS, BLM, USFWS, USACE, FAA, DOT, BIA, FHWA
- National Trail Agency Leads and GIS Managers (Agencies and Partners)
- <u>American Trails</u> National Recreation Trails database
- Rails-to-Trails Conservancy | New England Rail-Trail Spine Network map
- Other Non-Governmental Organization's

## **Explore the Federal Trail GIS Schema**

#### Materials for Review:

- Federal Trail GIS Schema Implementation Plan document
- DRAFT Table of Federal Trail GIS Schema Attributes.pdf
   DRAFT Table of Federal Trail GIS Schema Domains.pdf
   DRAFT\_FederalTrailGSSchema\_ImplementationPlan.pdf
   DRAFT\_FTGS\_Template20210301.zip
- Table of Federal Trail GIS Schema Attributes document
- Table of Federal Trail GIS Schema Domains document
- Federal Trail Schema Esri File Geodatabase template includes:
  - Domain tables
  - <u>Core</u> line feature class
  - Extended Core line feature class
  - National Historic Trail Sites point feature class

### **Explore the Federal Trail GIS Schema**

#### Key Takeaways:

- FTGS Minimum Fields focused on publicly facing data
- Add Local Level Managed Fields stays local
- Core line feature class = <u>minimum set of fields for all Trails</u>
  - TRNAME/TRNUMBER = <u>Local</u> trails
- Extended Core line feature class = <u>Core + National Trail minimum fields</u>
  - NATTRDESIGNATION/NSTNHTNUMBER
- National Historic Trail Sites point feature class
  - Specific to NHT's
  - "Intended for heritage sites associated with the National Historic Trails including National Register of Historic Places (NRHP), high potential sites, certified sites, and public use sites."

## **Explore the Federal Trail GIS Schema**

#### Key Takeaways:

- Feature level metadata in Core & Extended Core:
  - Edit Date tracking: EDITDATE
  - Creation method tracking: MAPMETHOD
  - Accuracy tracking: XYACCURACY
- Appendix C Trail Class Matrix & NHT Definitions
- Appendix D Data Stewardship data sharing and authoritative sources for trail information
  - trail administrator
  - land manager
  - partner organization

### **Next Steps**

#### Workgroup Responds to Comments

- $\sim$  30 days to respond
- Adjust the database and documentation based on comments
- Depending on complexity of changes from comments
  - 2<sup>nd</sup> round of review
  - ~ 2 weeks

#### • Final Federal Trail GIS Schema: <u>GeoPlatform.gov website</u>

- FGDC Transportation Theme for public distribution
- Advertise final schema within advocacy groups and agencies
- Change Log track suggested changes over time to improve the schema

### **Use Cases**

#### **USGS National Digital Trails Project**

- USGS *nationwide* public domain digital trails database aggregated from a variety of federal, state, local, and other authoritative data sources
- The nationwide database underpins the TRAILS planning (geospatial analysis) application which enhances connectivity between trails and trail systems
- Federal Highway Administration transportation aggregation trails as transportation
- American Trails National Recreation Trails
  - <u>NRT Ambassador Program</u>
- National Trails (Scenic/Historic) <u>single database of all</u> <u>national trails</u> (public)
- PNTS/Trust for Public Lands <u>Gap Analysis of National Trails</u>

### Summary

- Benefits of Adopting = Original Purpose
  - Create a national GIS trail data schema that can be utilized by all agencies and partners to establish a unifying and common trail GIS data structure (local and National Trails)
  - Better GIS coordination and collaboration between agencies and partners for:
    - Trail projects
    - Efficient sharing of authoritative trail data with the public and across management
    - GIS decision making support for trails
- All government levels & NGO's standardization & aggregation
  Federal Geospatial data acts:
  - 2018 Geospatial Data Act
  - 2019 OPEN Government Data Act
  - 2019 Foundations for Evidence-based Policy Making Act

# Workgroup

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### **Questions?**

