



# National Trails Office (NTIR) OCTA Mapping Workshop Federal Trail GIS Schema

OCTA Mapping Workshop

September 9-11, 2021

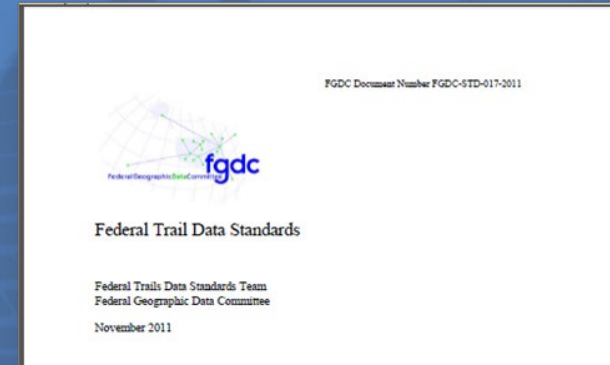
National Park Service – National Trails

Brian Deaton – GIS Specialist



# Background: Federal Trails Data Standard (FTDS)

- 2011 FTDS Established
  - Interagency Standardized Trail Terminology
  - Consistency for Data Sharing
  - Incorporated MET Condition
  - Included National Historic Trails Database Standards
- Implementation Not Developed
  - Lead to Different Implementation Across Agencies



Attribute Name	Data Parameters	Data Parameters (see FTDS Data Parameter Definition / Criteria for definition of each data)						
		Overlap Allowed?	Tabular Display	Spatial Display	Feature Type	GIS Item Name	GIS Alternate Name	LOV Width
NHT NST TRAIL ADMINISTRATOR	No Overlap Allowed	X	X	Line	NHTNST_ADM	NHT NST TRAIL ADMINISTRATOR	60	Text
NHT NST VISITOR CENTER NAME	No Overlap Allowed	X	X	Point	VISCTR_NAM	VISITOR_CENTER_NAME	100	Text
NHT AUTO-TOUR SURFACE	No Overlap Allowed	X	X	Line	NHTATRSURF	NHT_AUTO_TOUR_SURFACE	40	Text
NHT CERTIFICATION STATUS	No Overlap Allowed	X	X	Line	NHT_CERT	NHT_CERTIFICATION_STATUS	40	Text
NHT CONDITION CATEGORY	No Overlap Allowed	X	X	Line	NHT_COND	NHT_CONDITION_CATEGORY	10	Text
NHT HIGH POTENTIAL SEGMENT	No Overlap Allowed	X	X	Line	NHT_HP_SEG	NHT_HIGH_POTENTIAL_SEGMENT	40	Text
NHT HIGH POTENTIAL SITE	No Overlap Allowed	X	X	Point	NHT_HP_SIT	NHT_HIGH_POTENTIAL_SITE	40	Text
NHT PUBLIC USE SEGMENT	No Overlap Allowed	X	X	Line	NHT_PU_SEG	NHT_PUBLIC_USE_SEGMENT	40	Text
NHT PUBLIC USE SITE	No Overlap Allowed	X	X	Point	NHT_PU_SIT	NHT_PUBLIC_USE_SITE	40	Text
NHT SITE NAME	No Overlap Allowed	X	X	Point	NHT_SIT_NM	NHT_SITE_NAME	60	Text
NHT SITE NUMBER	No Overlap	X	X	Point	NHT_SIT_NR	NHT_SITE_NUMBER	40	Text



# Federal Trails GIS Schema

- <https://communities.geoplatform.gov/>
- Standardized Framework
  - Organize trail spatial data
  - Documenting its lineage
  - Facilitating data integration
- Ensure
  - Data Consistency
  - Quality
  - Accuracy
- Assist
  - Administrative/Land Management Decisions
  - Reporting
  - Information Requests

Attribute Name	Alias	Data Type	Data Width	Value Definition	Description	Business Rules	Values
NHTCONDCATEGORY <sup>AAA</sup>	NHT Condition Category	String	75	Domain Menu = NHTCONDHT ONCATEGORY_FTGS2020	Interagency classification category designed to assess the comparative character of visible trail remnants of the NHT at the time of mapping (FTDS, 2011).	Required for NHT <sup>2</sup> only.  For expanded definition of NHT Condition Category, refer to NHT Condition Categories document.	Location Verified, Evident and Unaltered; Location Verified and Evident with Minor Alteration; Location Verified with Little Remaining Evidence; Location Verified and Permanently Altered; Location Approximate or Not Verified; Location Verified with Historic Reconstruction
NHTHIGHPOTENTIALSEGMENT <sup>AAA</sup>	NHT High Potential Segment	String	40	Domain Menu = NHTHIGHPOTENTIALSEGMENT_FTGS2020	NHT trail segment that has been identified as a NHT High Potential Segment as defined in the NHT Comprehensive Management Plan.	Required for all NHT's.  For expanded definition of NHT High Potential Site, see Management Plan.	NHT High Potential Segment, No

Attribute Name	Alias	Data Type	Data Width	Value Definition	Description	Business Rules	Values
						document the specific type of designation in the NOTES field.	
NHTNSTNUMBER <sup>AAA</sup>	NHT NST Trail Number	String	120	Free text.	The National Trail official numeric or alphanumeric identifier for the trail.		Examples: 12; 12A
NHTNSTADMINISTRATOR <sup>AAA</sup>	NHT NST Trail Administrator	String	60	Domain Menu = NHTNST_ADM_FTGS2020	The agency specifically charged with trail wide coordination of National Trails System Act provisions for a designated National Scenic Trail (NST) or National Historic Trail (NHT) by the Secretary of Interior or Agriculture (FTDS, 2011).	Required for all National Trails.	Bureau of Land Management; Bureau of Land Management and National Park Service; Forest Service; National Park Service
HISTSIGNIFICANCE <sup>AAA</sup>	Historic Significance	String	40	Domain Menu = HISTORICSIGNIFICANCE_FTGS2020	The officially recognized historic significance of the trail segment, per evaluation criteria for the National Register of Historic Places (FTDS, 2011).	Required for NHT <sup>2</sup> and NHT <sup>3</sup> only.	Eligible; Not Eligible; Listed; Not Evaluated; Not Applicable
NHTCERTSTATUS <sup>AAA</sup>	NHT Certification Status	String	40	Domain Menu = NHTCERTIFICATIONSTATUS_FTGS2020	Status of NHT certification agreement for the trail segment on nonfederal land (FTDS, 2011).	Required for all NHT's.	Certified; Not Certified





# Schema Information

- Regular Trail: any trail not designated NST or NHT
- National Scenic Trail (NST): Congressionally Designated
- **National Historic Trail (NHT1): Congressionally designated as the National Historic Trail**
- **National Historic Trail (NHT2): NHT associated heritage resources (routes and/or sites)**
- **National Historic Trail (NHT3): NHT associated recreation or interpretive route and/or site**



# NHT Corridor Concept







# MET Mapping Integration into Schema

## Condition Classification Categories

### **OCTA – MET**

1 – Unaltered Trail

2 – Used Trail

3 – Verified Trail

4 – Altered Trail

5 – Approximate Trail

6 – Reconstructed Trail

### **FTGS**

Location Verified, Evident and Unaltered

Location Verified and Evident with Minor Alteration

Location Verified with Little Remaining Evidence

Location Verified and Permanently Altered

Approximate Trail or Not Verified

Location Verified with Historic Reconstruction



# Current Updates

- Currently under Internal Review by Federal Trail GIS Schema Working Group– Reviewing Comments from the Review Period
- Finalized Public Version will be Published in the Near Future



# Summary

- Provides a unifying and common trail GIS data structure
- Enables easier data aggregation and sharing
  - Standardized fields, attributes, and requirements ensure data reliability across agencies and partners





# Questions

