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Coordination Group Meeting

# Transportation NGDA and Status of the Rail Network

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# Introduction

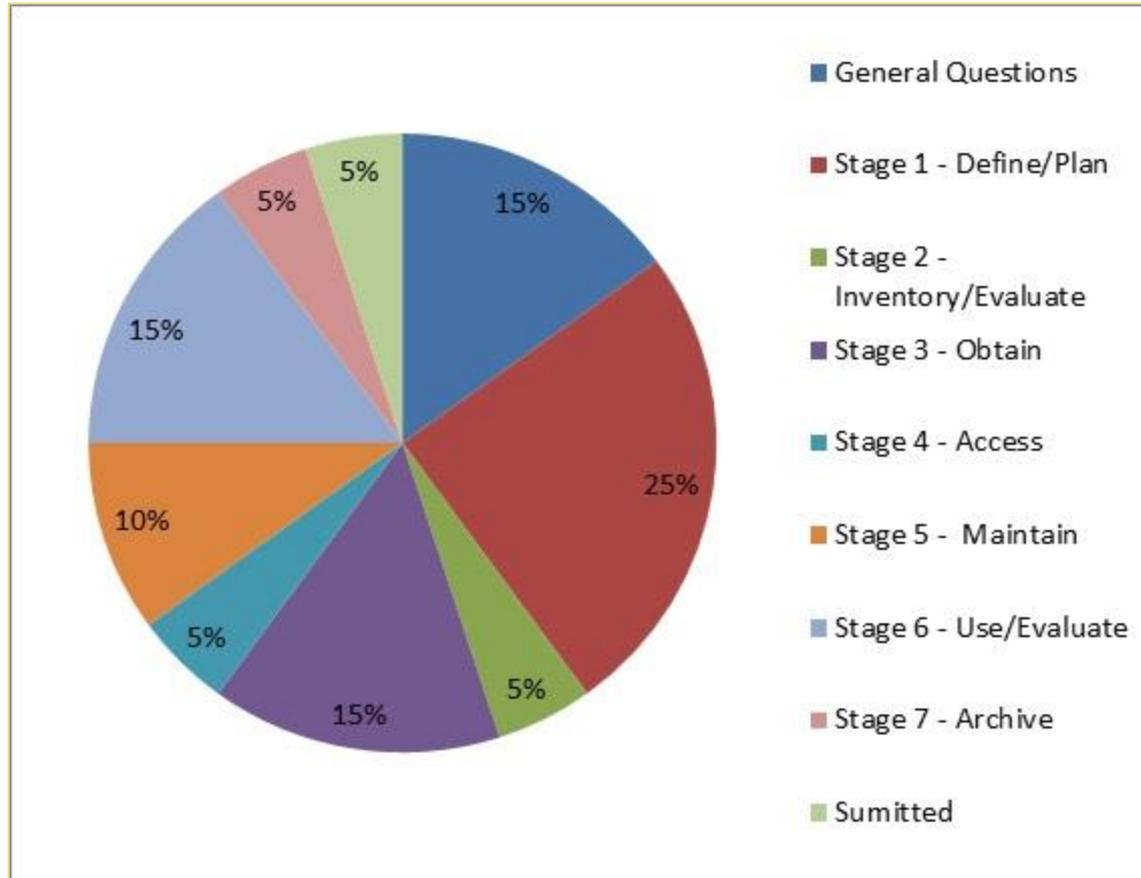
- Update of the Transportation NGDA Data Assessment
- Status of the Rail Network

Presenters include:

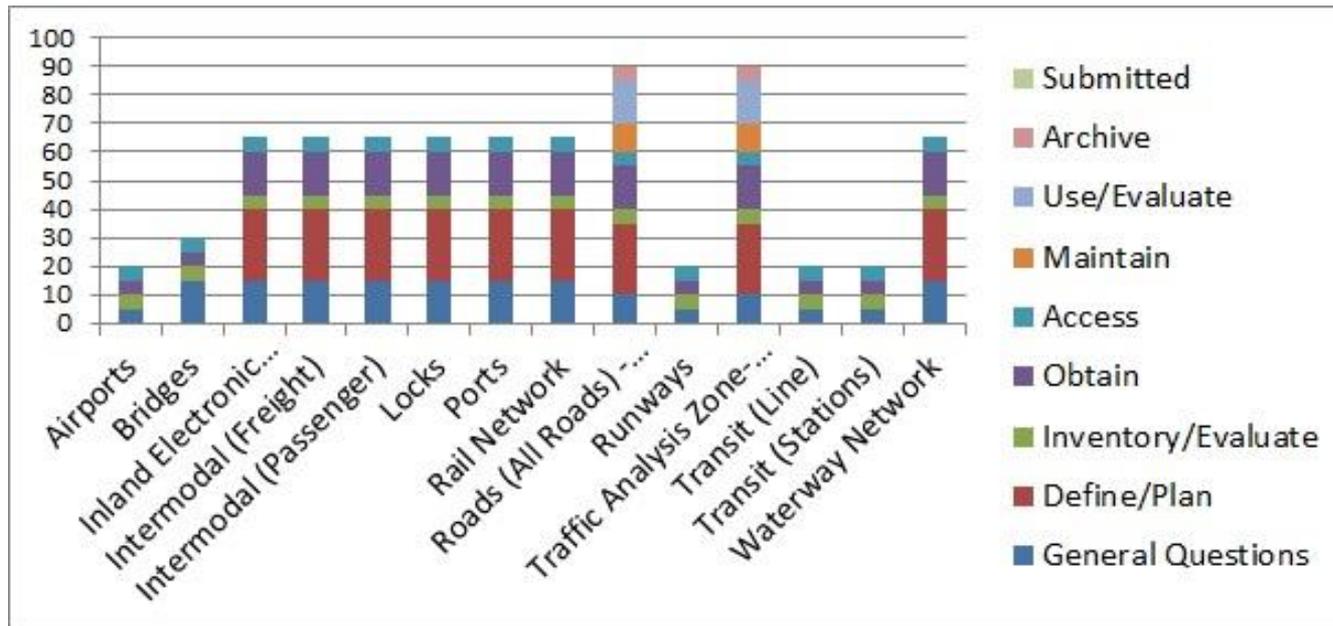
- Raquel Hunt, USDOT/FRA



# Transportation NGDA Data Assessments



# Status By Dataset



- ◆ Working with US Army Corp of Engineers (USACE) on 3 datasets

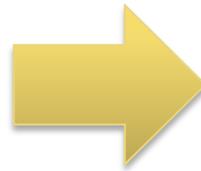


# Completion

- ◆ Plan to be completed by June 1<sup>st</sup>
- ◆ There will be updates next Fiscal year for a number of datasets:
  - Freight Intermodal
  - Transit
  - Rail
  - Bridges



# Rail Conflation



# Background

## ◆ DOT/FRA Rail Network

- Represents 185,000 miles of mainline track
- First created in mid 80s from USGS 1:2million DLGs

## ◆ NGA Rail Network

- Includes all lines and sidings
- In general, more accurate

## ◆ Automated Track Inspection Program (ATIP) Data

- Collects long-lat every foot to locate track defects
- 84,100 miles of main line track collected under ATIP



# Breaking Down a Stovepipe

- ◆ In June 2014, DOT and NGA met
  - Shared information on their respective geospatial data programs
  - Recognized the rail duplication of effort and agreed to end it
  - Agreed to the rail conflation project, with DOT providing funding
  - Agreed to work together in the future to further develop/improve transportation



# RFI & RFP

- ◆ FRA put out a RFI in May 2014
- ◆ FRA put out a RFP in July 2014
- ◆ Contract began in October 2014
- ◆ Planned completion of the North American Rail Network (NARN) September 2015



# Status of Project

## FRA GIS Network Production Schedule

ID	Task Name	Start	Finish	Duration	2015									
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1	Region 1 (Actual: region 7)	1/15/2015	2/27/2015	6w 2d	■									
2	Region 2 (Actual: region 2)	3/2/2015	4/15/2015	6w 3d			■	■						
3	Region 3 (Actual: region 6)	4/16/2015	5/15/2015	4w 2d				■	■					
4	Region 4 (Actual: region 5)	5/18/2015	6/15/2015	4w 1d					■	■				
5	Region 5 (Actual: region 1)	6/16/2015	7/15/2015	4w 2d						■	■			
6	Region 6 (Actual: region 4)	7/16/2015	8/14/2015	4w 2d							■	■		
7	Region 7 (Actual: region 8)	3/16/2015	5/1/2015	7w			■	■	■					
8	Region 8 (Actual: region 3)	5/4/2015	6/15/2015	6w 1d				■	■	■				
9	Region 9 (Actual: region 9)	6/16/2015	7/15/2015	4w 2d						■	■			
10	Mosaic all regions	8/17/2015	9/15/2015	4w 2d								■	■	

# NGDA – Rail Network

- ◆ Met with NGA 06/14, 10/14, 01/15, and 03/15
- ◆ 1 rail network for the Federal Government that will be the best available for the NGDA
- ◆ Primary stakeholders:
  - Railroads
  - Federal Agencies: FRA, FHWA, BTS, NGA, etc.
  - National Emergency Number Association (NENA)
  - Rail Corridor Risk Management System (RCRMS)
  - EPA – Eastern Regional Technical Advisory Committee
  - Academia, i.e. Climate Central
  - Etc.

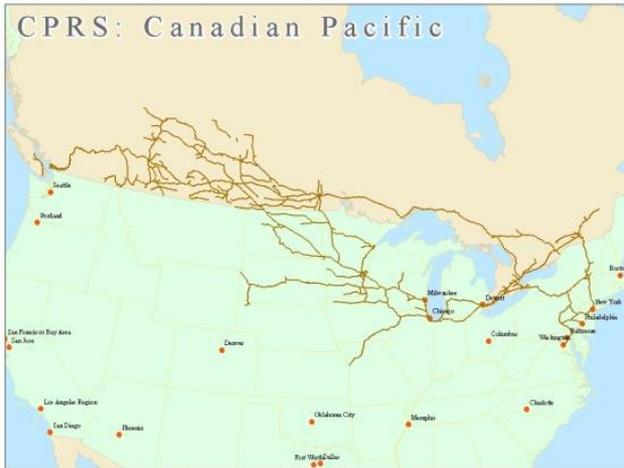


# Classes of Railroads

Class 1 Railroads	Class 2 Railroads	Class 3 Railroads
7 Companies	~ 10 Companies	> 500 Companies

- ◆ Class 1's make up ~ 70% of freight rail miles
- ◆ Class 1's: BNSF, CN, CPRS, CSXT, KCS, NS and UP





# GIS Rail Committee

- Voted to adopt the NARN as their industry network 04/15/15
- Voted to have FRA as a non-voting member 04/15/15
- Currently developing a MOU between FRA and the Railroads
- MOU will:
  - ◆ To protect the railroads, Support mandates, Provide Use Cases, Scheduling, Processes, etc.



# Working from the same Geometry

FRA Network

- FRAARCID
- MILES
- STATEAB
- STATEFIPS
- CNTYFIPS
- STCNTYFIPS
- FRAREGIONS
- RROWNER1
- RROWNER2
- RROWNER3
- TRKRGHTS1
- TRKRGHTS2
- TRKRGHTS3
- TRKRGHTS4
- TRKRGHTS5
- TRKRGHTS6
- TRKRGHTS7
- TRKRGHTS8
- TRKRGHTS9



RR Network

- RailroadID
- FRAARCID
- STATEAB
- LINKID
- RROWNER1
- SUBDIV
- TRK\_NAME

NGA Network

- NGALINKID
- FRAARCID
- STATE
- STFIPS
- CNTYFIPS
- STCNTYFIPS
- FRAREGIONS
- RROWNER1
- RROWNER2
- RROWNER3
- TR1
- TR2
- TR3

# Next Steps

- ◆ Shortlines – Holding Companies
- ◆ Possible MOU between NGA & DOT
- ◆ Work with the HIFLD Subcommittee to resolve issues and/or workflows
- ◆ Developing feedback procedures
  - Internal Wiki



# Questions?

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