

# State of 911

**Webinar Series**

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NATIONAL 911 PROGRAM

April 12, 2016

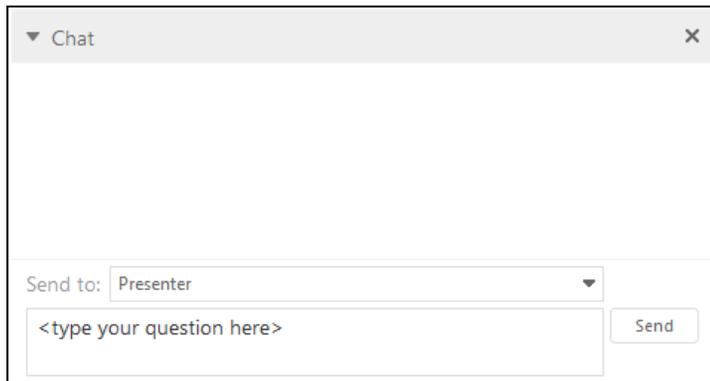
# State of 911 Webinar Series

- Designed to provide useful information about Federal and State participation in the planning, design, and implementation of Next Generation 911 (NG911) coupled with real experiences from leaders overseeing these transitions throughout the country
- Webinars are held every other month and typically include presentations from a Federal-level 911 stakeholder and State-level 911 stakeholder, each followed by a 10-minute Q&A period
- For more information on future webinars, access to archived recordings and to learn more about the National 911 Program, please visit [911.gov](http://911.gov)
- Feedback or questions can be sent to: [National911Team@mcp911.com](mailto:National911Team@mcp911.com)

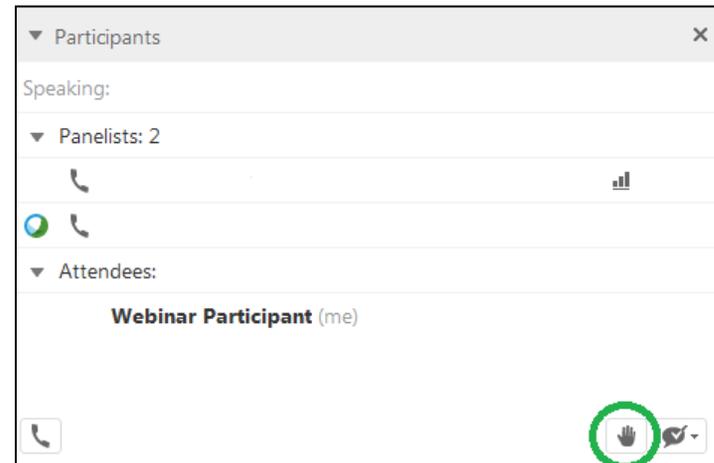
# Questions?

For WebEx Technical Assistance, please call: (866) 229-3239, Option 1

To ask a question, please use WebEx's "Chat" feature located on the right-hand side of your screen.



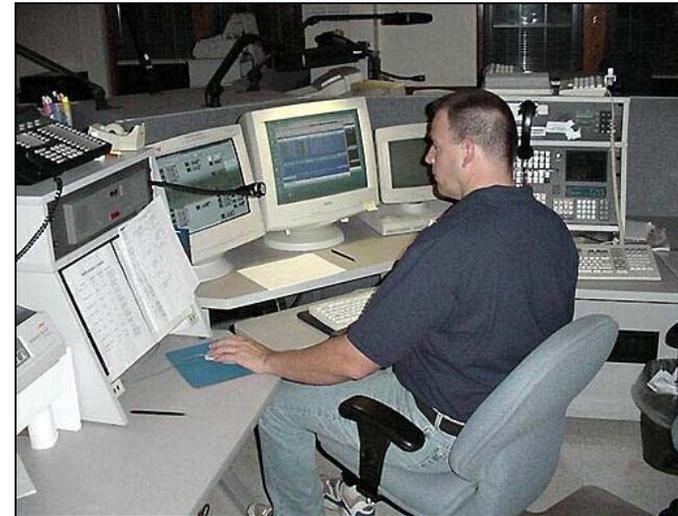
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F E D E R A L R A I L R O A D A D M I N I S T R A T I O N

# State of 911

## Webinar Series



Michail Grizkewitsch  
Federal Railroad Administration  
202-493-1370



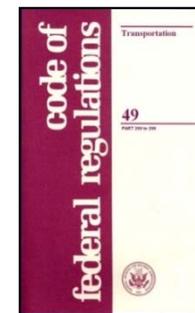
# What Will be Covered?

- Overview of the Federal Railroad Administration
- When to Call
- Emergency Notification System
- NLETS



# The Federal Railroad Administration

The FRA was established by Congress in 1966 to enforce railroad safety laws and regulations throughout the U.S. rail system and to ensure the safety of the public and railroad employees.

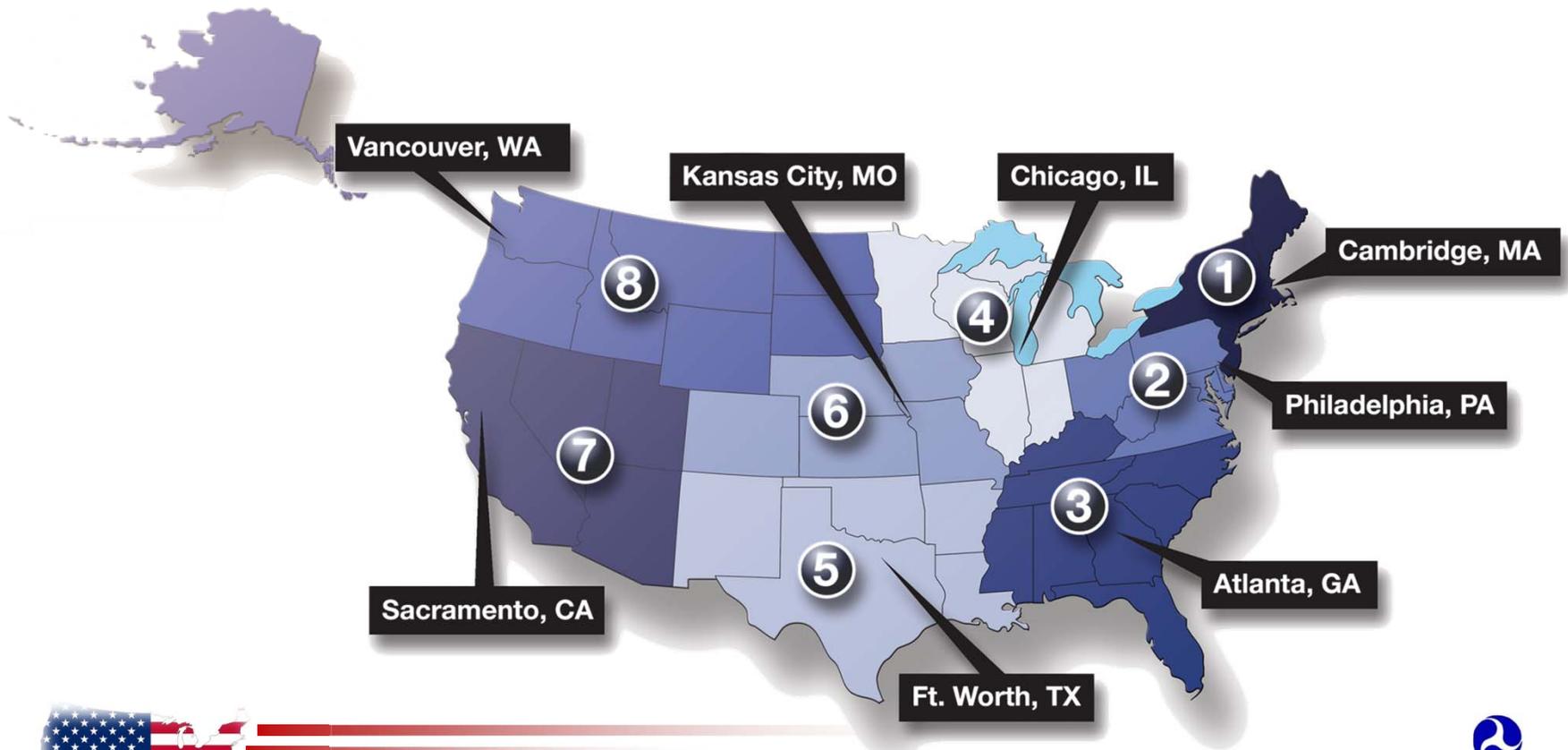


# The Federal Railroad Administration



- Field enforcement teams consist of approximately 400 Inspectors nationwide.
- Support and analysis staff (field and HQ) consists of 350 people.
- State enforcement personnel includes approximately 150 Inspectors from 32 States.

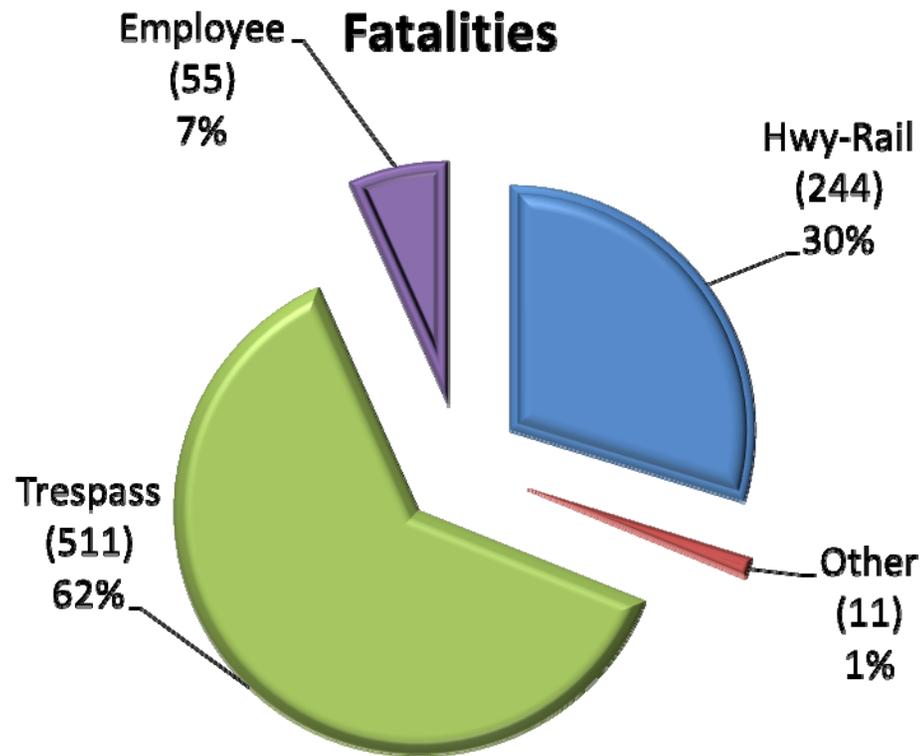
# Eight Regional Offices



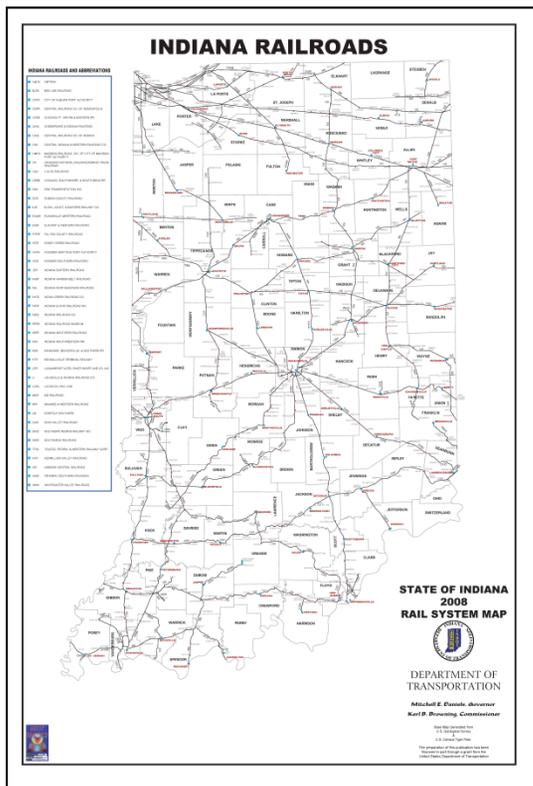
Michail Grizkewitsch  
Federal Railroad Administration  
202-493-1370



# Rail-Related Fatalities in 2015



# The Problem



- What number do you call to contact the railroad?
- How do you tell them the location of the incident?
- Is the railroad going to be able to identify the location using their system and maps?
- What needs to be done first, dispatch local resources or notify the railroad, or both?

# When Do You Call the Railroad?

- ***Immediately*** when comments indicate possible railroad involvement or proximity to the track.
- If not done prior to other dispatches, due so at the same time.
- This can be an extremely dangerous situation!
  - *For the public*
  - *For the Train Crew*

# Emergency Notification System



- Toll-free number (of dispatching railroad)
- Explanation of the purpose of the toll-free number (e.g., Report emergency to)
- DOT Inventory Number

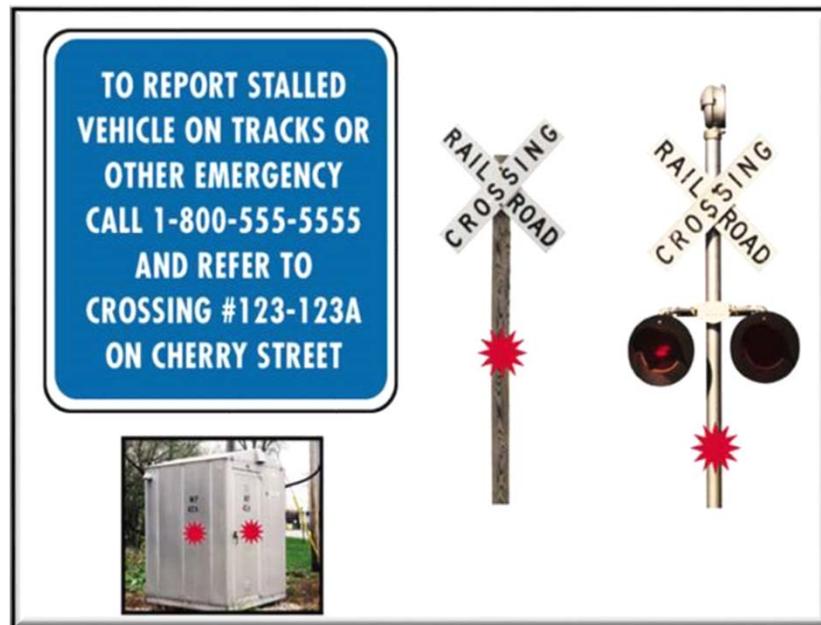
# What is a USDOT Number?

Assigned by the USDOT/FRA to each intersection between roads and railroads to include:

- At grade crossings: Public, Private, and Pedestrian
- Overpasses
- Underpasses

Numbers should be clearly marked on railroad signs and equipment at grade crossings

# Why is the USDOT # Important?



- Accurate Location
- Railroad
- Less Questions
- Faster
- NLETS

# State of 911

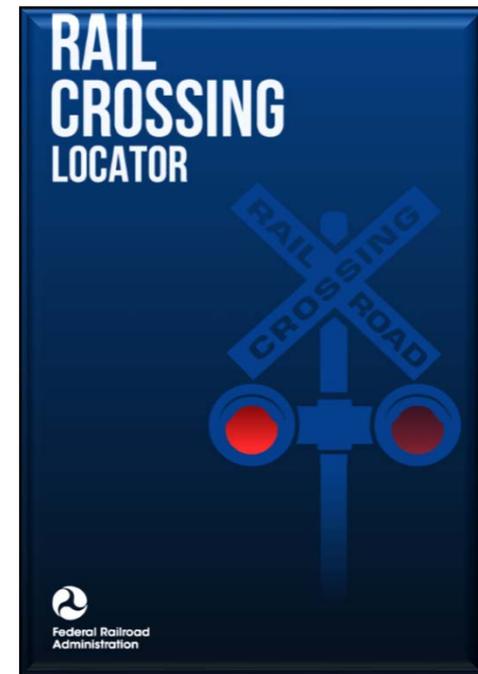
## Webinar Series



- FRA has partnered with NLETS
- USDOT Inquiries
- Provides Emergency Phone #
- Location
- Railroad

# FRA's Rail Crossing Locator App

- Locate and access Safety Inventory Data for Highway-Rail Grade Crossings
- Tool for the public and public safety officials, including grade crossing specialists, safety, 1<sup>st</sup> Responders, communications specialist, and rail specialists
- Available now for Android, iPhone, and iPad



# FRA's Informational Video Series

- Rail Safety for Emergency Communications Specialist.
- Rail Safety for Law Enforcement.
- Rail Safety for Fire Officials (Release date 4/15/16)
- Additional Fire and Police videos in production



[www.fra.dot.gov](http://www.fra.dot.gov)

# State of 911

Webinar Series

Michail Grizkewitsch

Program Manager

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(202) 493-1370



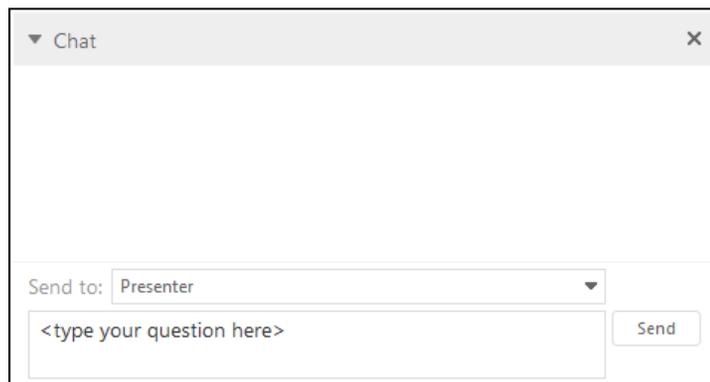
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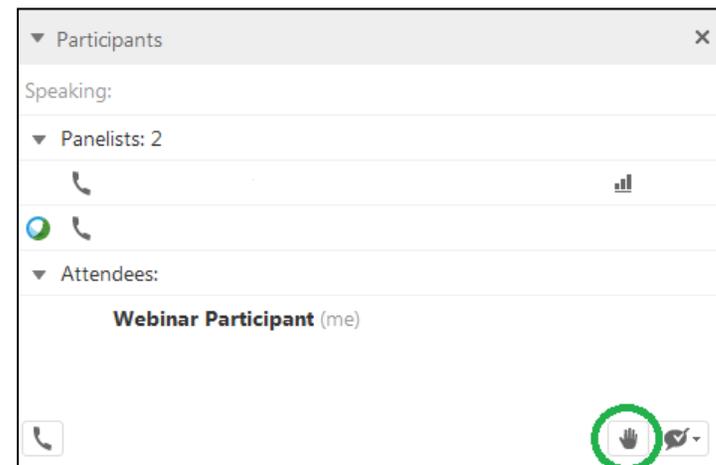
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Administration

# Q&A Period

WebEx's "Chat" feature located on the right-hand side of your screen.



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# State of 911 FRA's GIS Program April 2016

Raquel Hunt  
Federal Railroad Administration  
USDOT



FRA – Office of Railroad Policy and Development

4/18/2016



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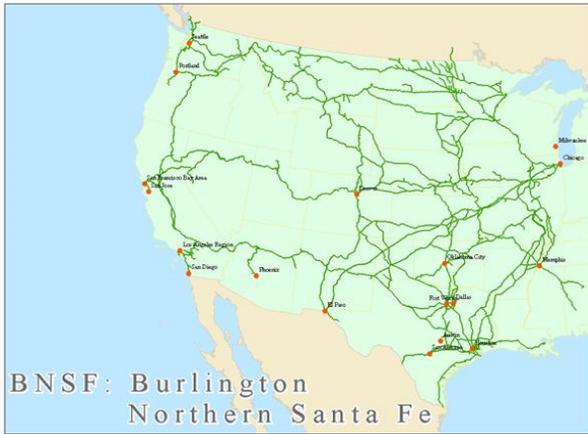
# Classes of Railroads

| 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





# FRA's GIS Data Overview

- Primary
  - Rail network
  - Milepost
  - Freight Stations
  - Highway-rail grade crossings
  - Amtrak passenger stations
- Secondary
  - Yards
  - Subdivisions
  - Accidents
  - FRA Inspections
  - Designated Quiet Zones
  - Bridges
  - Etc.



# Previous Networks

- 1:2 million (USGS): Used for cartographic representation, attributes, and routing
- 1:100,000 (Census): Had a better spatial representation but lack routeability and attributes
- By 2005, the 1:2 million attributes were conflated to the 1:100,000 network & the 1:100,000 was completely routable

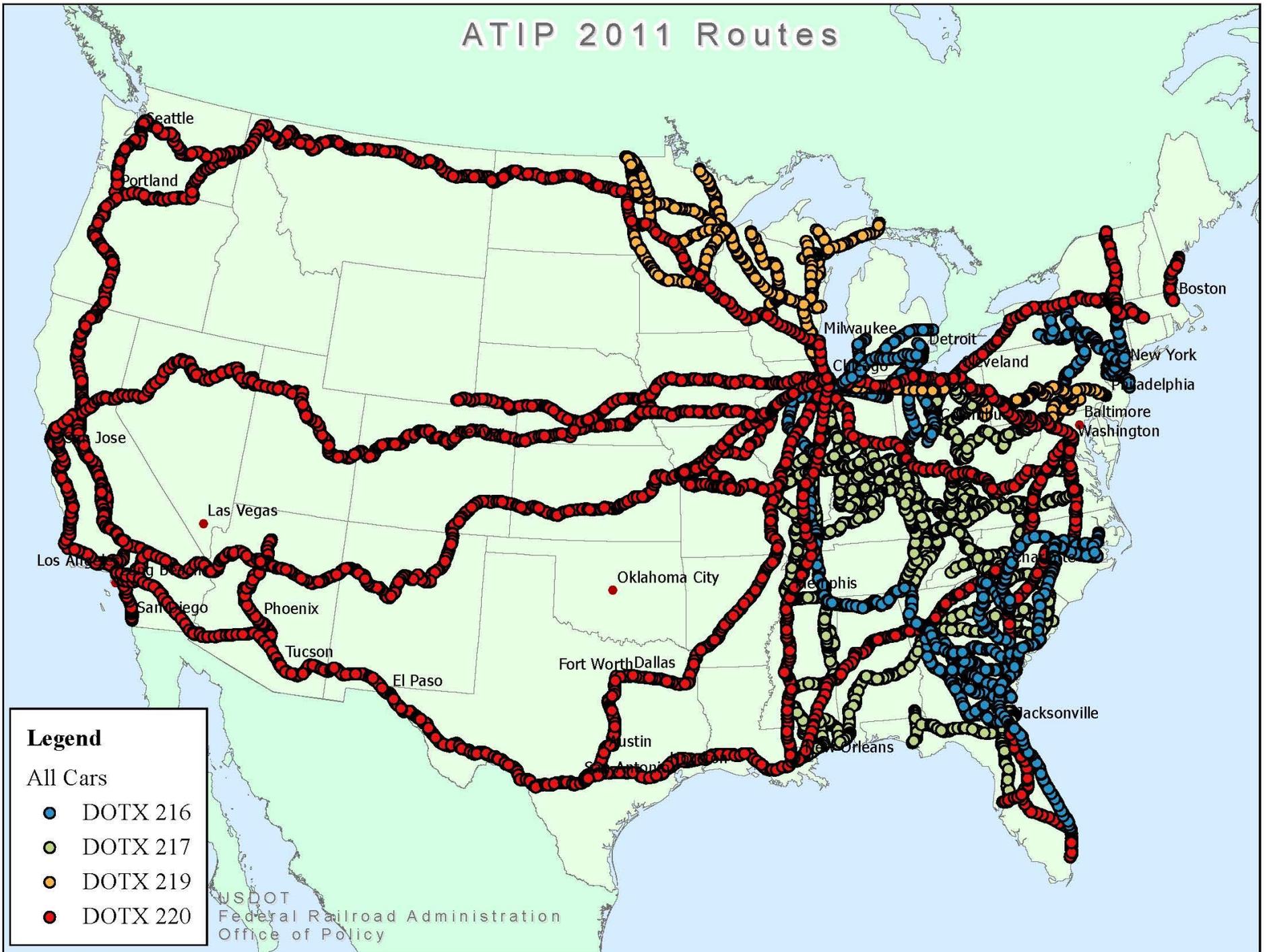


# Spatial Improvements

- Integrating the FRA's Automated Track Inspection Program (ATIP) Data
- The ATIP cars take a latitude and longitude reading every foot.



# ATIP 2011 Routes



**Legend**

- Foot by Foot
- FRA - Before



**Legend**

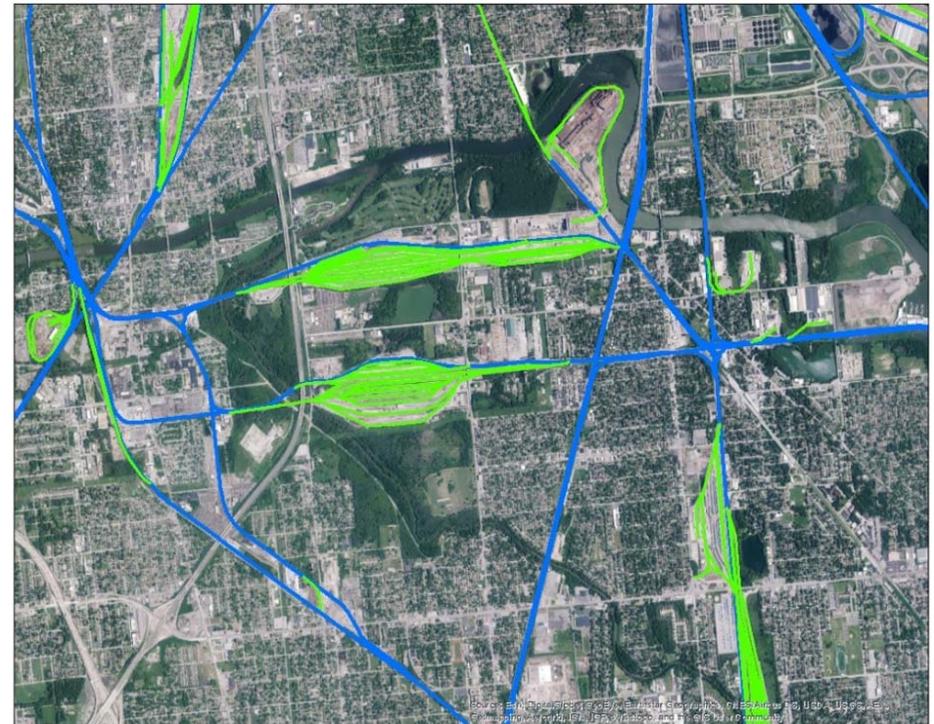
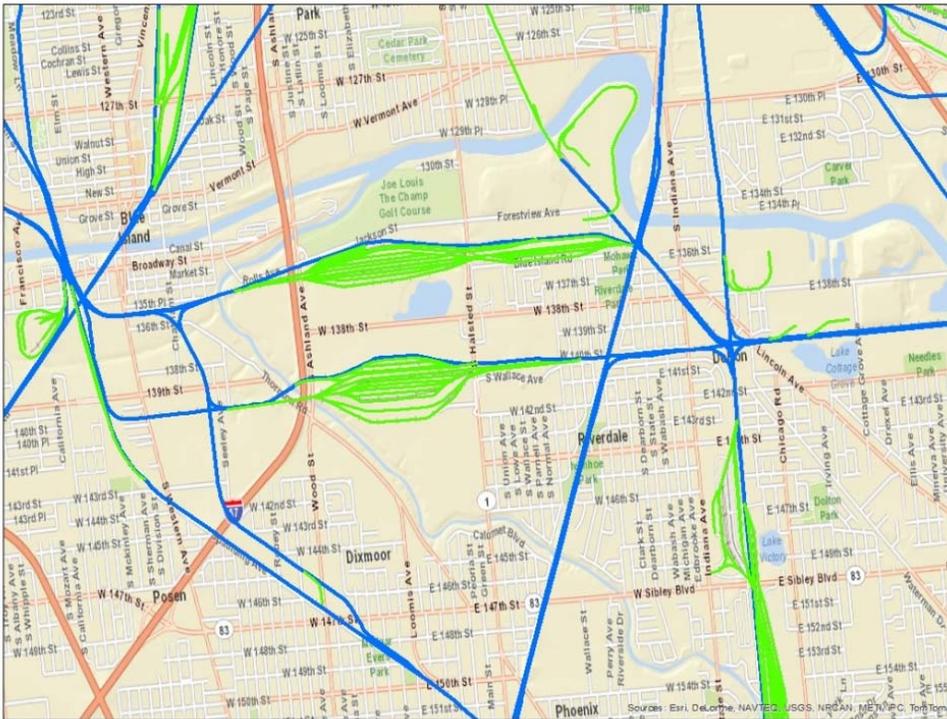
- Foot by Foot
- FRA - After



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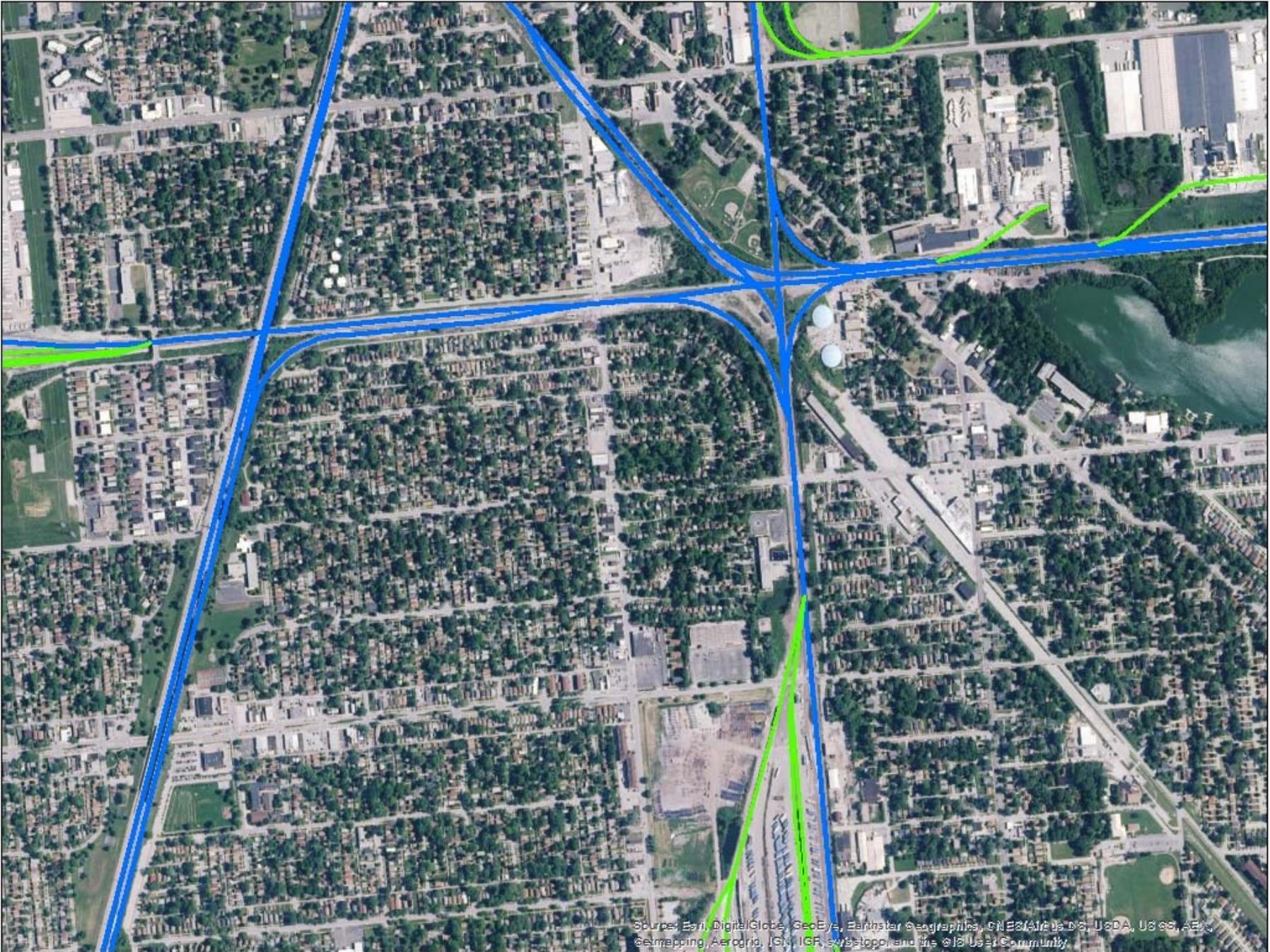
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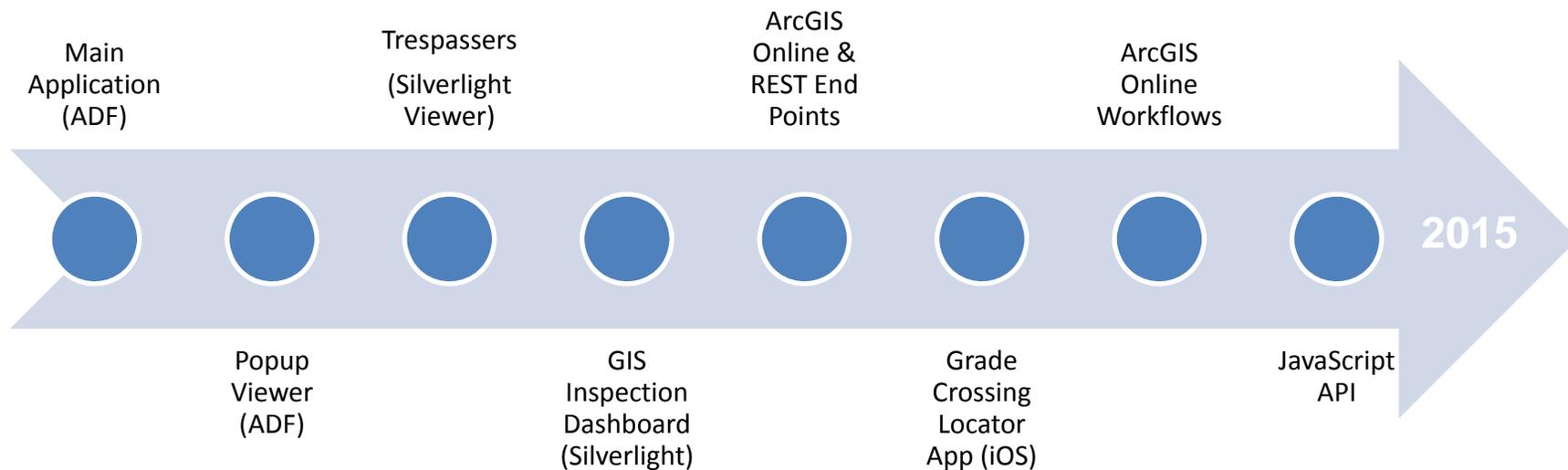
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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroX, Getmapping, AerGRID, IGN, IGR, swisstopo, and the © 2010 User Community.

# FRA GIS Applications



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# JavaScript API

- Common Application Framework
- Standardize User Interface
- Hardware Agnostic



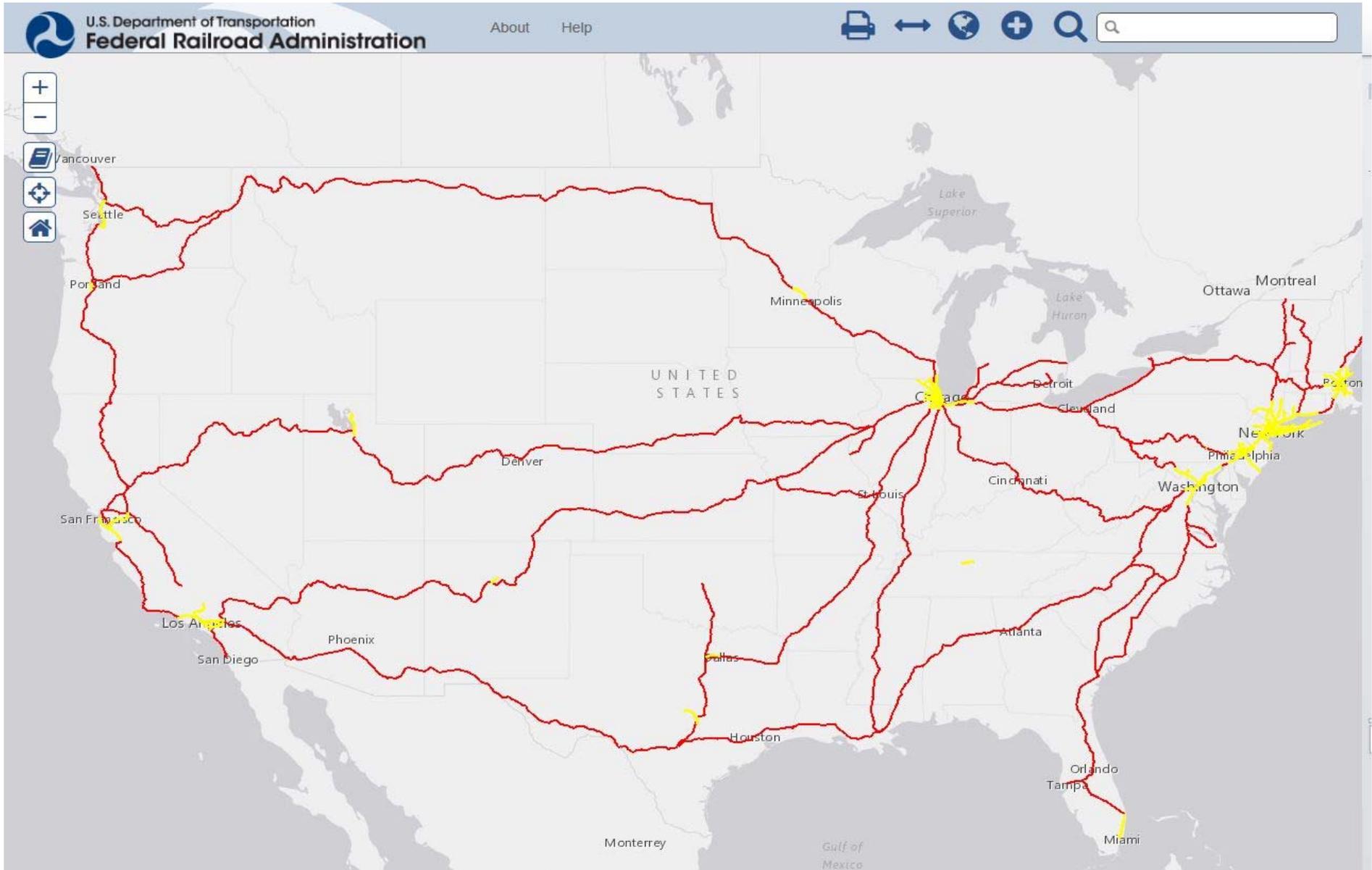
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# Main GIS Web Application



# Popup Viewer

 Federal Railroad Administration  
Office of Safety Analysis

Home Crossing Forms/Publications Downloads Data Documents Policies Support

### 5.02 - Generate Crossing Inventory and Accident Reports

Please click on one of the links below or enter a crossing number, pick the report type and click on the **Generate Report** button to produce the Report.

Report Type:  Inventory  Accident  Contact Sheet

Crossing#:

Inventory:  Current  History

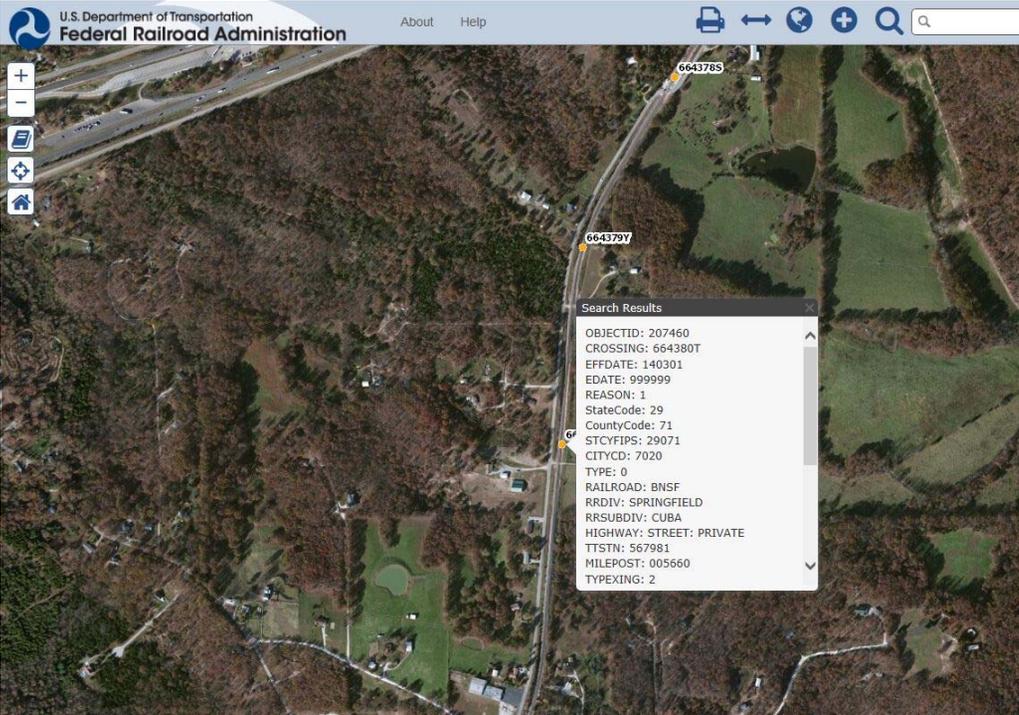
#### Additional Links

[Query by Location \ Railroad](#)  
[Query by Crossing](#)  
[Accident Prediction \(WBAPS\)](#)  
[Crossing Inventory Data File Reconciliation \(CIR\)](#)  
[DOT Crossing Inventory Information](#)  
[Crossing Data help](#)  
[Maps](#)  
[Notice](#)  
[Using this Site](#)

**Crossing Inventory File (hard-copy submissions) as of: 4/30/2012**  
**Crossing Inventory File (electronic submissions) as of: 2/29/2012**  
**Accident file as of: 3/31/2012**

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About Help

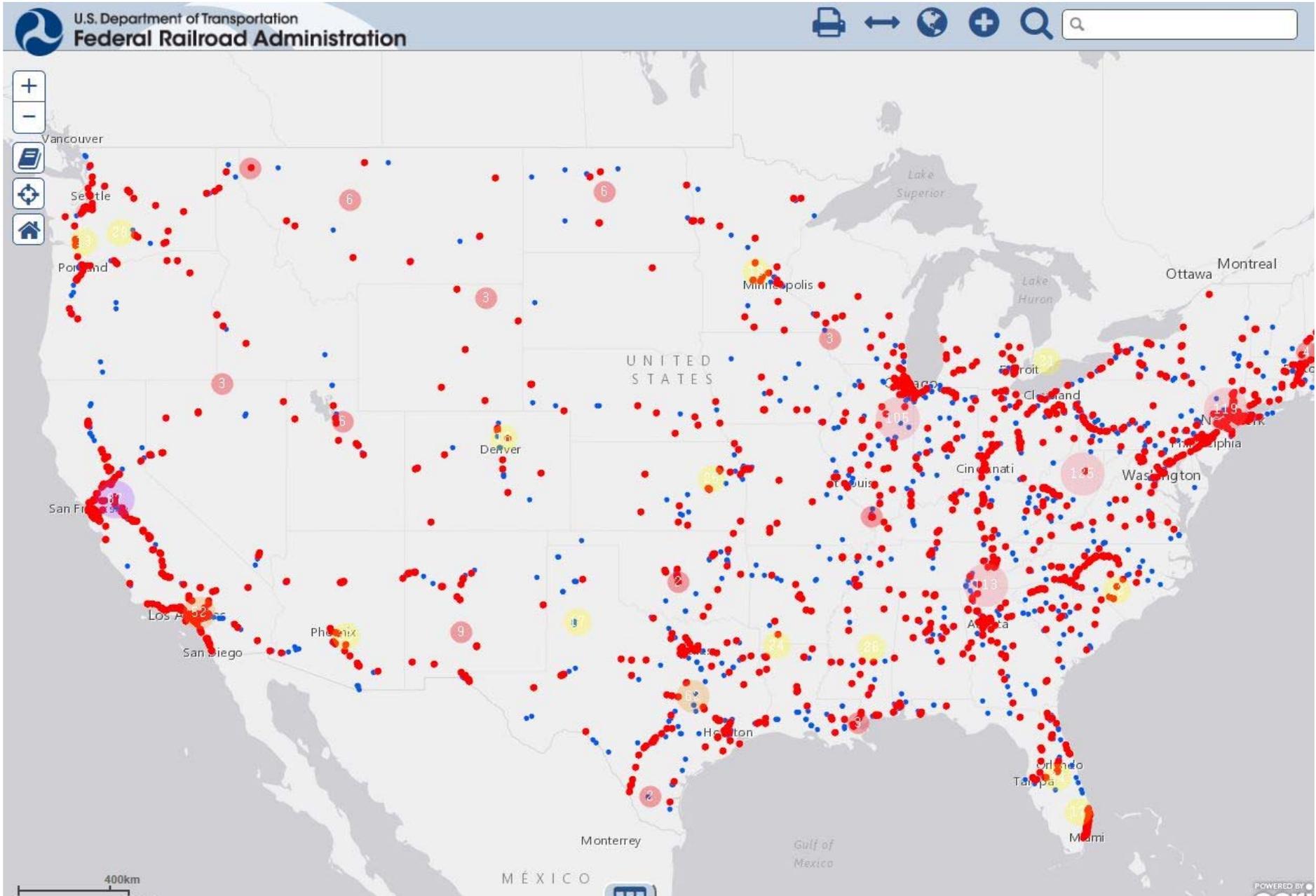


Search Results

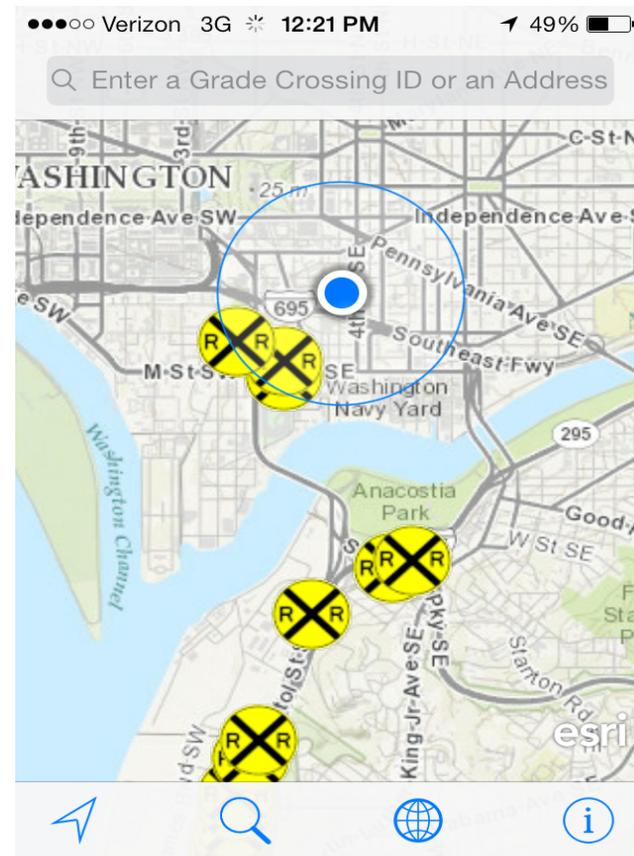
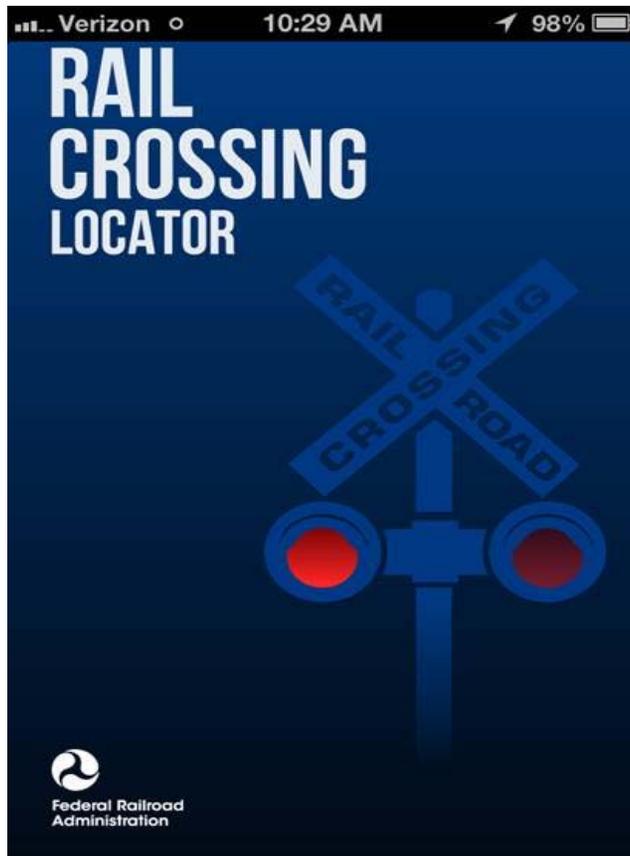
|             |                 |
|-------------|-----------------|
| OBJECTID:   | 207460          |
| CROSSING:   | 664380T         |
| EFFDATE:    | 140301          |
| EDATE:      | 999999          |
| REASON:     | 1               |
| StateCode:  | 29              |
| CountyCode: | 71              |
| STCYFIPS:   | 29071           |
| CITYCD:     | 7020            |
| TYPE:       | 0               |
| RAILROAD:   | BNSF            |
| RRDIV:      | SPRINGFIELD     |
| RRSUBDIV:   | CUBA            |
| HIGHWAY:    | STREET: PRIVATE |
| TTSTN:      | 567981          |
| MILEPOST:   | 005660          |
| TYPEXING:   | 2               |



# Trespassers



# FRA's Rail Crossing Locator App

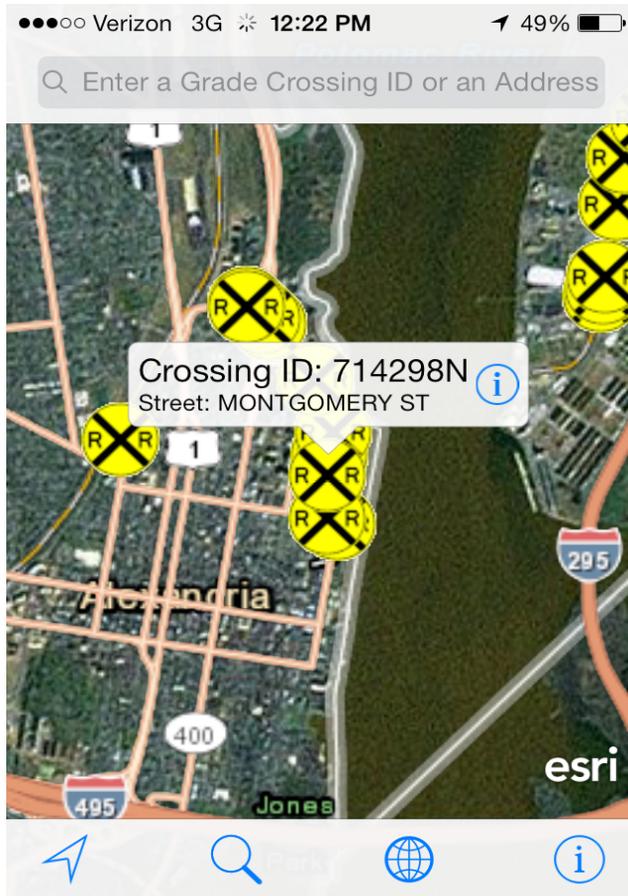


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# View Inspection reports, accident records, query data, and view the ENS number



# Web Mapping Services

ArcGIS REST Services Directory

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[Home](#) > [services](#)

---

[JSON](#) | [SOAP](#)

**Folder: /**

**Current Version:** 10.22

**View Footprints In:** [ArcGIS.com Map](#)

**Folders:**

- [FRADashboard](#)
- [Utilities](#)

**Services:**

- [Class1s](#) (MapServer)
- [county](#) (MapServer)
- [ExportWebMap](#) (GPServer)
- [ExtractFRADData](#) (GPServer)
- [FRA\\_Rail](#) (FeatureServer)
- [FRA\\_Rail](#) (MapServer)
- [FRAAtGradeX\\_iOS\\_Label1](#) (MapServer)
- [FRAAtGradeX\\_iOS](#) (MapServer)
- [FRAGradeX\\_iOS](#) (MapServer)
- [FRAGradeXing](#) (MapServer)
- [FRARegions](#) (MapServer)
- [FRASafety](#) (MapServer)
- [FreightStations](#) (MapServer)
- [HeatMap](#) (MapServer)
- [MainLine](#) (MapServer)
- [Mileposts\\_MapService](#) (MapServer)
- [PassengerRail](#) (MapServer)
- [Popup\\_Viewer](#) (MapServer)
- [QuietZones\\_Region5](#) (FeatureServer)
- [QuietZones\\_Region5](#) (MapServer)
- [RailMainLine](#) (MapServer)
- [SampleWorldCities](#) (MapServer)
- [States](#) (MapServer)
- [STRACNET](#) (MapServer)
- [Trespassers](#) (FeatureServer)
- [Trespassers](#) (MapServer)



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# Stakeholders

- Federal Geographic Data Committee (FGDC)
- National Emergency Number Association (NENA)
- National States Geographic Information Council (NSGIC)
- State DOT's - AASHTO's - GIS-T
- USDOT (BTS, FHWA, MARAD), DOI, Census, EPA, etc.
- Association of American Railroads (AAR)
- American Short lines Short Line and Regional Railroad Association (ASLRRA)
- Academia
- Environmental Systems Research Institute (ESRI)



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# Raquel Hunt

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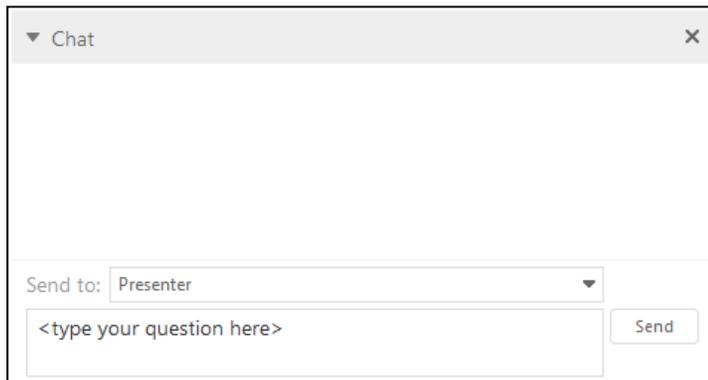
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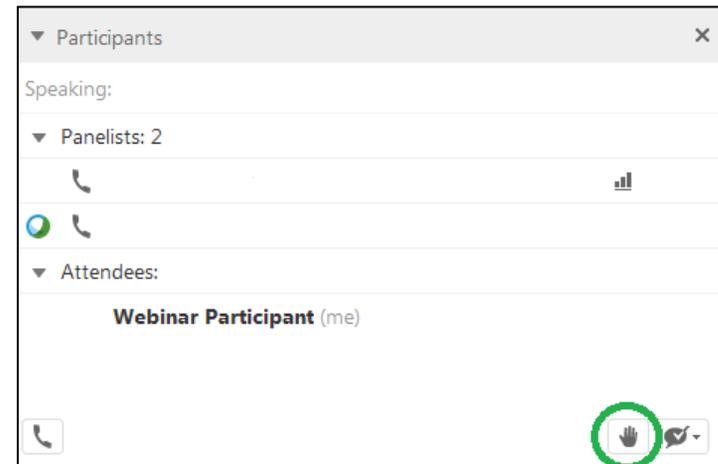
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# Q&A Period

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# Future Webinars

- Next Scheduled Webinar: Tuesday, June 21, 2016 at 12 noon ET
- Presenters will be announced shortly and registration will be available early next month
- To register, visit: <https://mcp911events.webex.com> and click on “2016 ‘State of 911’ Webinar Series”.
- Visit [911.gov/webinars.html](http://911.gov/webinars.html) to access archived webinars

# National 911 Program

- Laurie Flaherty

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- Feedback or questions can be sent to:

[National911Team@mcp911.com](mailto:National911Team@mcp911.com)