



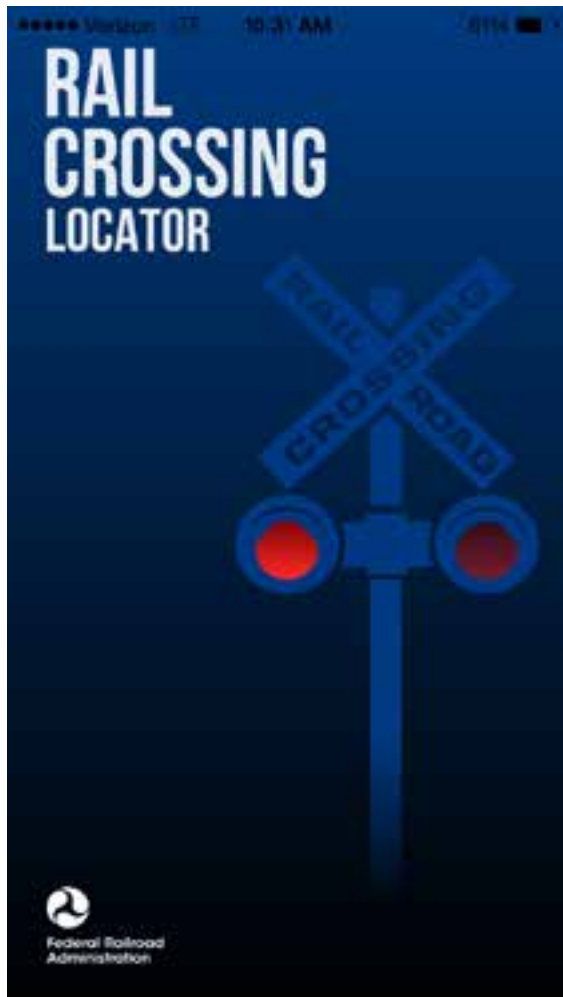
# Rail Crossing Locator

*Judah Lynam*

*office of railroad policy and development*

# contents

- ü FRA 101
- ü grade crossing safety 101
- ü concept & development
- ü technical
- ü functionality
- ü results
- ü future



# RAIL— *Moving America Forward*

## Who We Are

**The Federal Railroad Administration (FRA)** enables the safe, reliable, and efficient movement of people and goods for a strong America, now and in the future.

- Safety is our number one priority
- We are laying a foundation for higher performing rail
- Promulgating and enforcing rail safety regulations
- Investing in America's rail corridors
- Research and development to advance rail safety



## Our Success and Accomplishments

### Rail has never been safer.

FRA is committed to continuous safety improvement:

- Maintaining onsite inspections identifying safety violations;
- Development rules, regulations and guidance; and
- Workforce training

### FRA is the Chief Safety Regulator for all Passenger and Freight Railroads Nationwide

- FRA employs nearly 900 people
- With eight regional offices strategically located across the Nation
- Dedicated to our vision:  
**RAIL**-*Moving America Forward*



## *Laying a foundation for higher performing rail*

### Our Multi-Billion Dollars Portfolio Includes:

- Amtrak Operating and Capital Programs - \$7 billion
- High Speed and Intercity Passenger Rail (HSIPR) Grants - \$10.1 billion
- Research and Development - \$30 million
- Railroad Rehabilitation and Improvement Financing (RRIF) Program – \$1.7 billion
- Transportation Investment Generating Economic Recovery (TIGER) Programs - \$423 million
- Rail Line Relocation Grants - \$86 million
- Disaster Assistance Grants -\$18 million



# grade crossings safety 101

## U.S. Highway-Rail Grade Crossings

at-grade:	212,000
grade separated:	38,000
total	250,000



# grade crossings safety 101

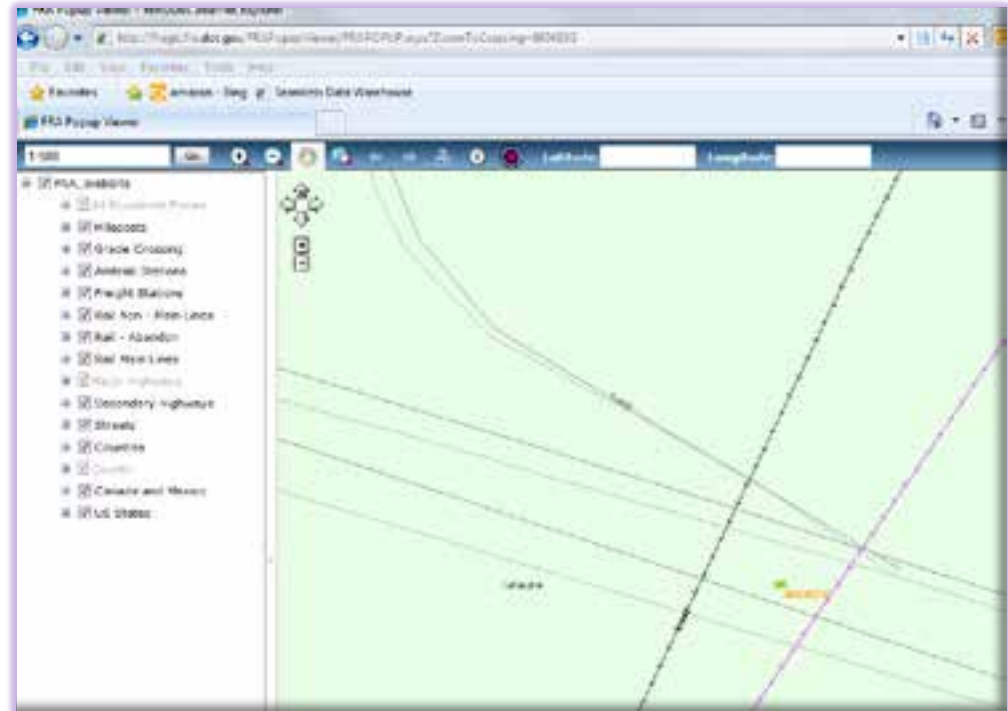
grade crossing incidents are the 2<sup>nd</sup> leading cause of rail-related fatalities

Year	Public	Private	Total
2012	202	31	233
2011	216	34	250
2010	226	35	261
2009	226	22	248
2008	266	24	290
2007	299	40	339
2006	325	44	369
2005	329	30	359
2004	333	38	371
2003	300	34	334
2002	316	41	357



# concept & development

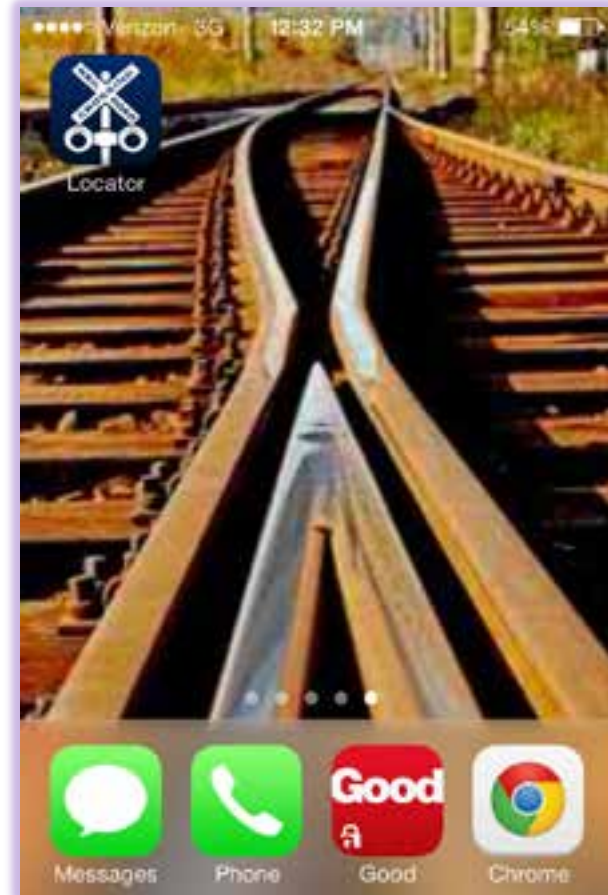
- Rail Safety Improvement Act of 2008 (RSIA)
- FRA's geo-codes crossings from Inventory data
- FRA GIS web apps feature GX's in 2008 and 2009
- NTAD





# concept & development

- convenient and easy access to FRA safety data on **iOS (all) Devices**
- **locate** crossings, **view FRA Safety data and reports**, and **contact FRA or GX Owners** about specific crossings
- **Empower public**, (including transportation, emergency, and safety organizations) to join FRA's effort to further improve grade crossing safety
- Supports **Digital Government Strategy** for USDOT/FRA to provide transparency and improve digital services for customers



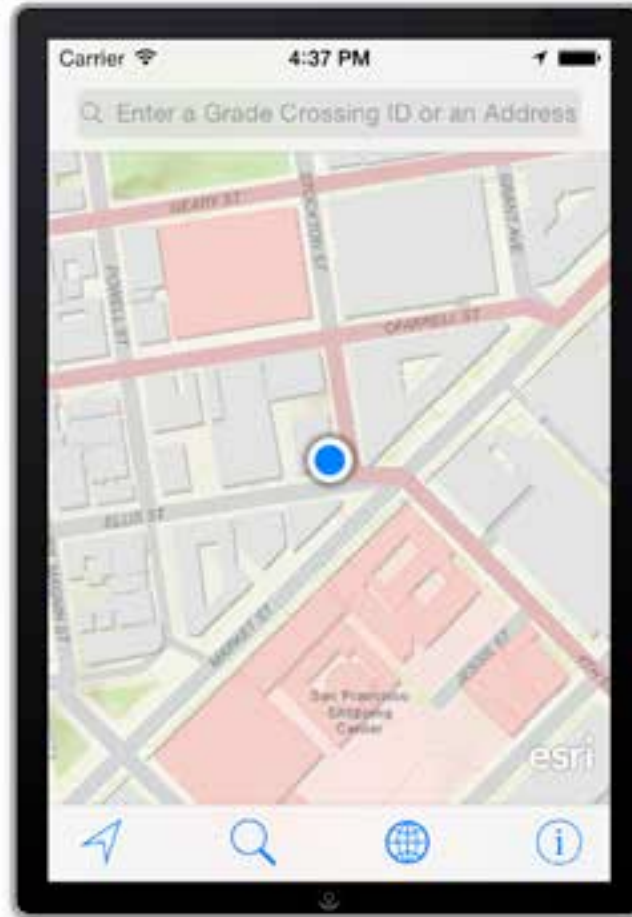
# technical

- ESRI's SDK for iOS
- FRA's (Arc)GIS server
- mapping service
- ESRI world geocode service
- ESRI basemaps



# functionality

native iPhone and iPad apps



# functionality

*locate GX's*

near user



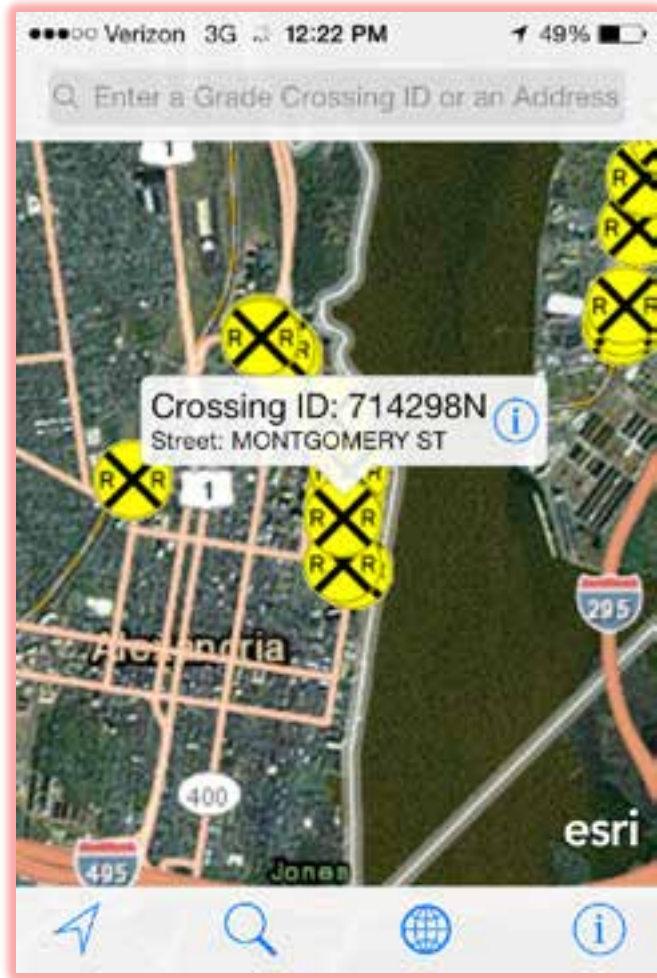
GX ID/address



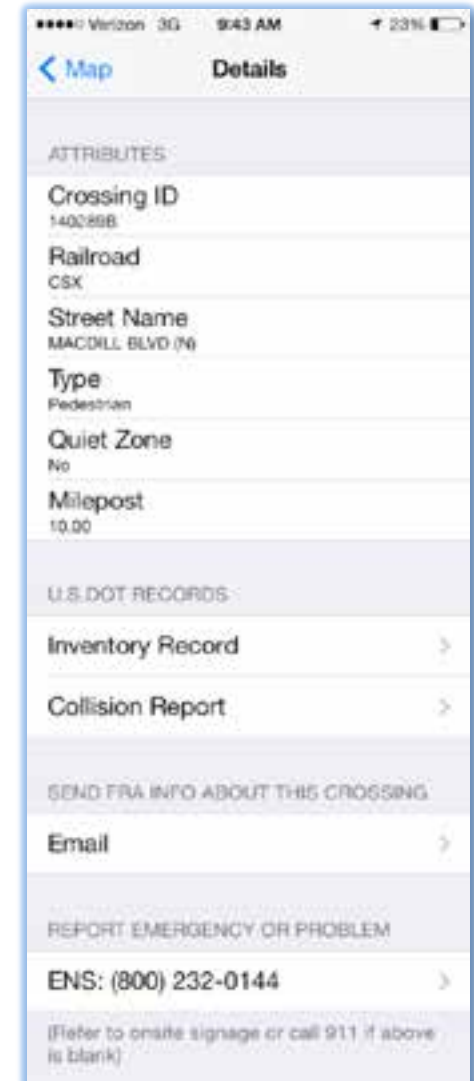
characteristics



# functionality

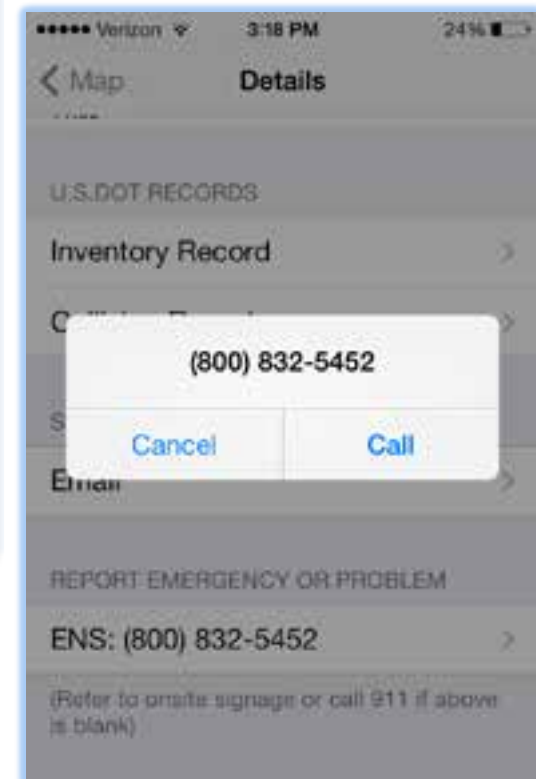
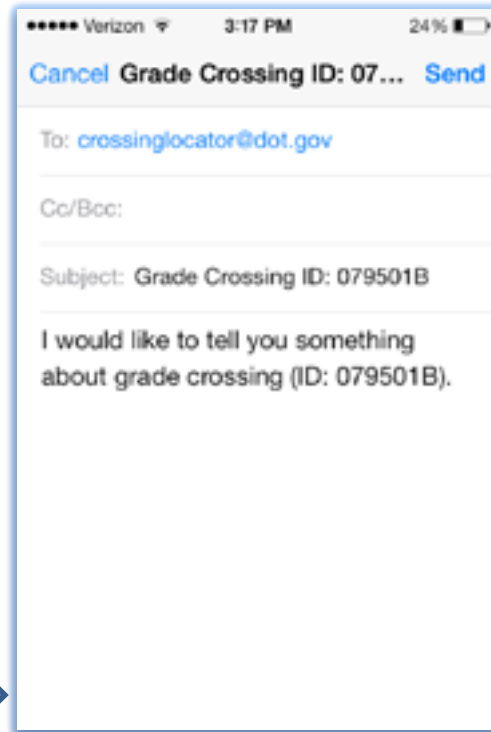


GX attributes



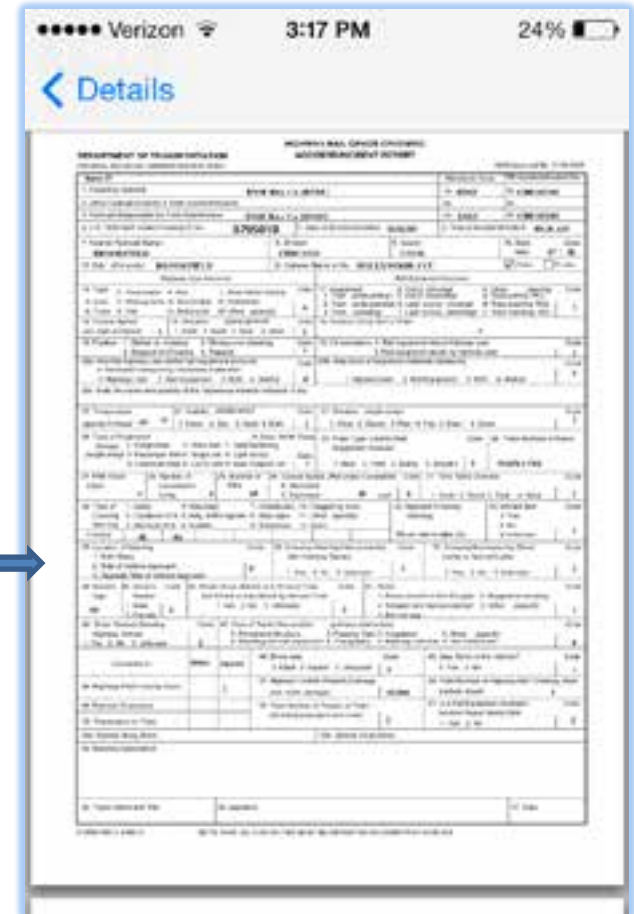
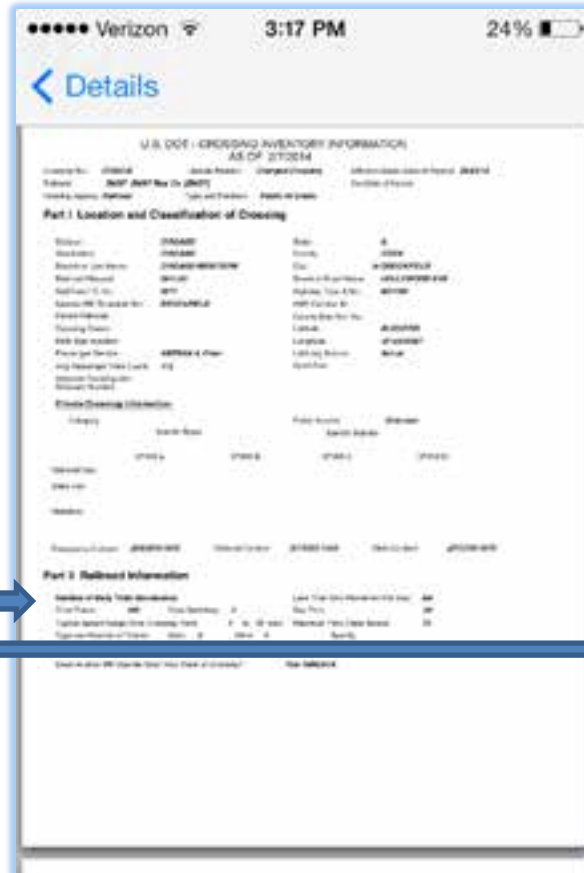
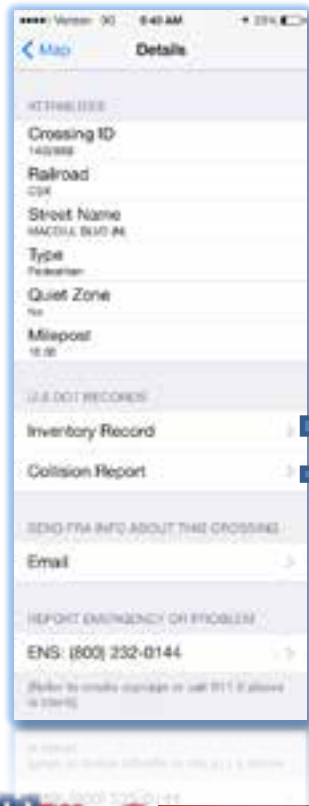
# functionality

contact/report



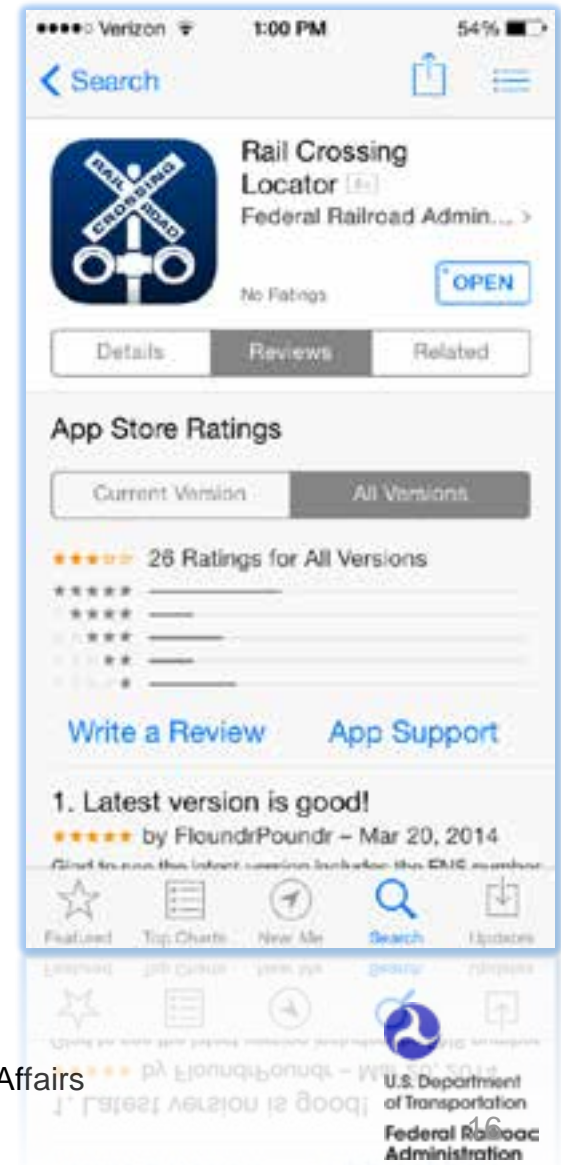
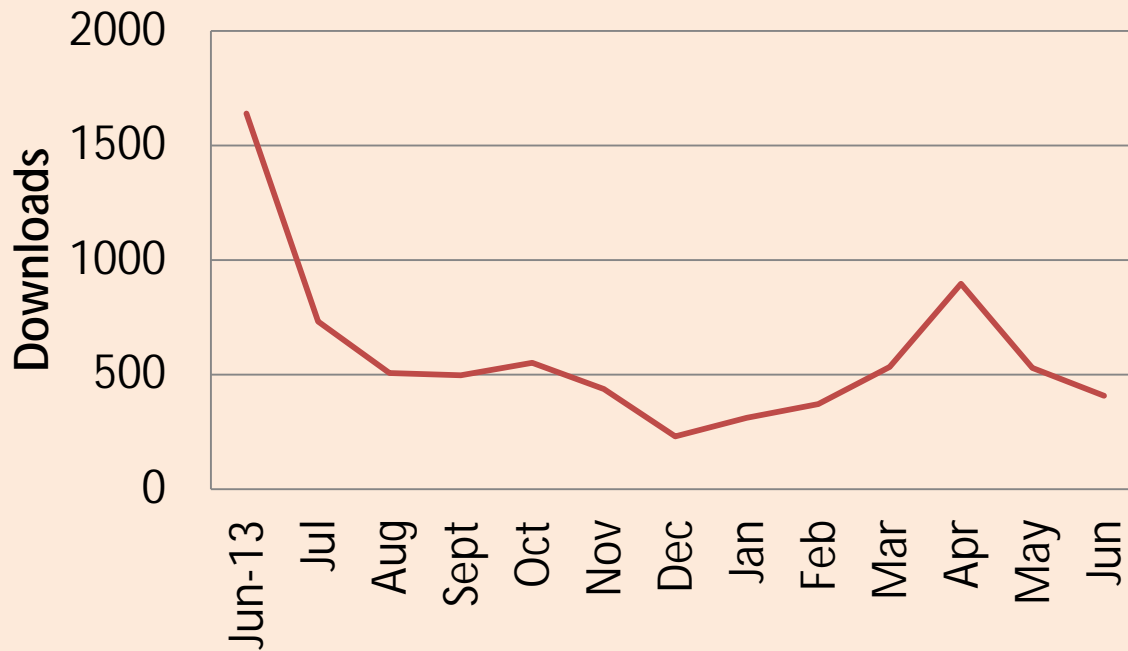
# functionality

USDOT records



# results

Downloads... 7639 as of 6/25/2014





# results

emails from our RCL users

Classifications	% of Total		Total Emails	210
Technical Issues:	0.50%		Unique	104
Data quality (mostly spatial):	61.31%		Avg. emails/person	2

# results

**USA.gov**  
Government Made Easy

**Rail Crossing Locator**  
Federal Railroad Administration

Search

1-800-FED-RAIL (337-7624)

**Description**

The Federal Railroad Administration (FRA) Rail Crossing Locator app empowers the public (including safety, emergency response, and security personnel) to join the FRA's efforts to further improve grade crossing safety by having the (FRA's) grade crossing data more accessible. Use the app to locate highway-rail grade crossings and their unique detailed information from the FRA's grade crossing database(s) including monthly reports submitted by states and railroads, and accident history records (over 100,000 records) from multiple time spans and clearly defined crossings by characteristics. Users and software are responsible for the accuracy of the grade crossing physical and operating characteristics within business records.

**Screen Shots**

Phone Download iPad Download

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Utilities

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## Rail Crossing Locator App

Improving grade crossing safety  
By Matthew Delaney, Feb 2014

The Federal Railroad Administration (FRA) recently released a new mapping app, available from the Apple App Store, that helps improve highway-rail grade crossing safety. The Rail Crossing Locator app provides transportation safety agencies with an enhanced mobile querying tool and the public an innovative channel to learn about the nation's highway-rail grade crossings.

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The FRA is committed to making the grade crossing mapping application to the public available to the public. The FRA is committed to making the grade crossing mapping application to the public available to the public. The FRA is committed to making the grade crossing mapping application to the public available to the public.



# future

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