The impact of IMPACT

MassDOT’s new Interactive Mapping Portal for Analysis and Crash Tracking system

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MassDOT Structure

MassDOT

Highway
- Design and Engineering, Traffic & Safety, etc.
- Construction
- Operation and Maintenance

RMV
- Crash Data
- License
- Registration

Mass Transit

Aeronautics

IT

Planning
- Roadway files
Existing Crash System

- Implemented 2004, 15 years old
- Old servers that IT is moving which continuously creates issues with antiquated program
- Geocodes 96% of all crashes, but we want better!
- Geocoding system links crashes to road segments and pulls roadway data from road inventory
- Police submit through 14 different vendors and 80% are electronic, but coordinates are POOR and front-end location information could be improved
Existing Crash System

- Analysis tools are outdated and not intuitive which require MassDOT Highway staff assistance
- Thousands of public users annually, but the system has a lot of down time and does not accommodate users of various skill levels
- Utilizes existing RMV Crash Data System (which was proposed to be updated)
- Uses Highway resources to pull crashes for Road Safety Audit
- Network Screening, Hot Spot, Safety Analysis involves manual intervention and inputs from Highway staff
2019 New Crash System

...Initially proposed to be integrated with new RMV crash system but then that was delayed and projects decoupled, SO, we built IMPACT.

What are the improvements of IMPACT?

1. Geocoding integration with Roads & Highways in Planning
2. Improved geocoding system
3. Improved front-end Police location tools
4. User friendly analysis tools, dashboards & massive data downloads
5. Cloud server, removing current MassDOT servers
6. More automated safety management, screening, hot spot identification
New System Timeframe

- RFP - February 2017
- Interview - May 2017
- Contract - September 2017
- Working copy - April 2019
- Full deployment - June 2019