



Bureau of Transportation Data & Safety

Traffic & Technology Section

Chris Zajac Section Chief



Our Mission

- 1991 Intermodal Surface Transportation Efficiency Act (ISTEA) initiated Traffic Monitoring System Program
 - > The Act established additional seven management systems:
 - Highway Pavement
 - Bridges
 - Highway Safety
 - Traffic Congestion
 - Public Transportation facilities and equipment
 - Intermodal transportation
- TMS purpose -> provide roadway and travel data to support decision-making with regard to each of the systems alone, and as a part of an overall coordinate, interrelated operational management strategy.
- FHWA -> Highway Performance Monitoring Program Report -> Vehicles Miles Traveled -> Federal Funding
 - Roadway Characteristics
 - Traffic Data —————————

Data Types



Customers

Weigh In Motion

Internal Customers

- Straight Line Diagrams
- Highway Performance Monitoring Program
- Data Warehouse
- Pavement Management
- Congestion Management
- Freight Services
- Crash Records Analysis

Federal Programs

- Traffic Trends
- Strategic Highway Research Program (SHRP)
- VTRIS

Other

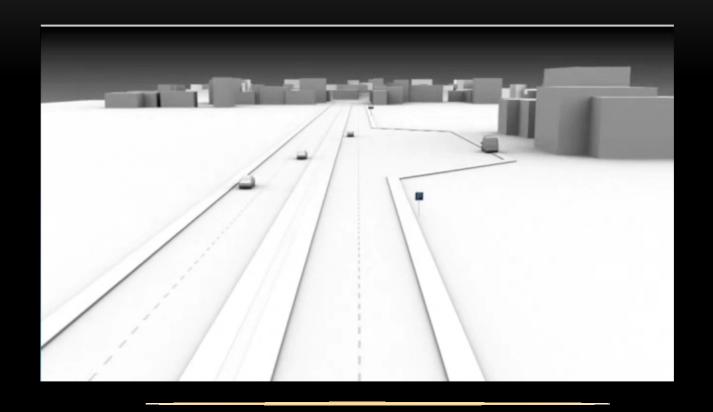
- MPOs
- Commercial Real Estate
- Commercial Mortgage
- Engineering Firms



How did it begin?



WIM station simulation



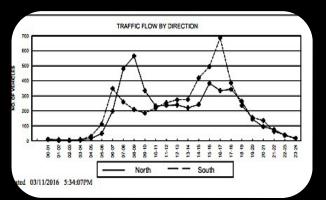






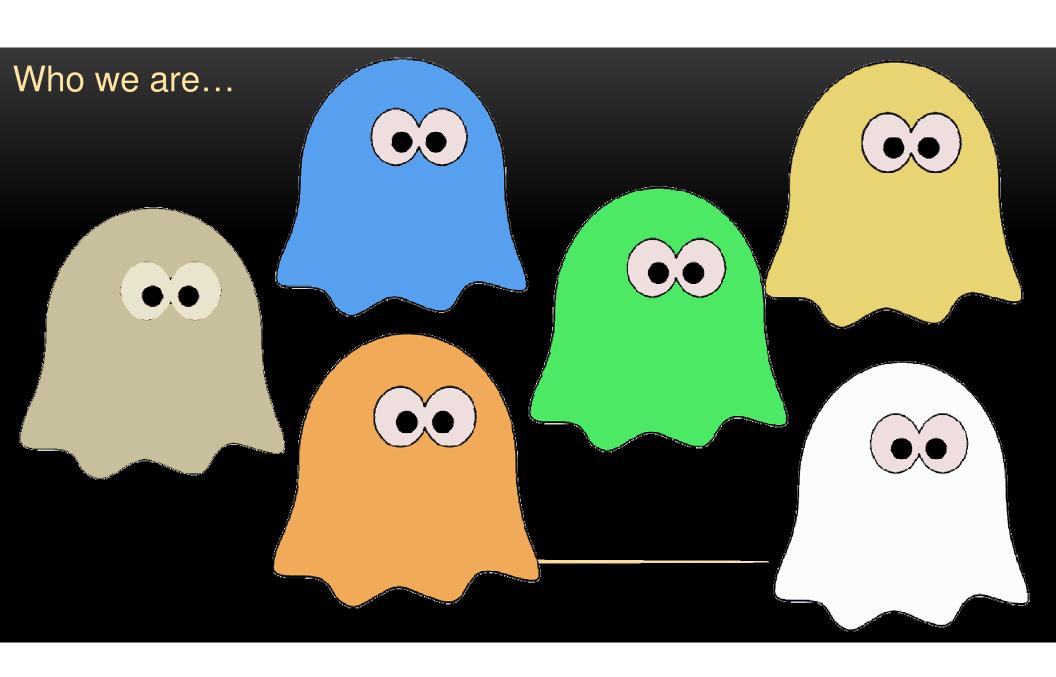






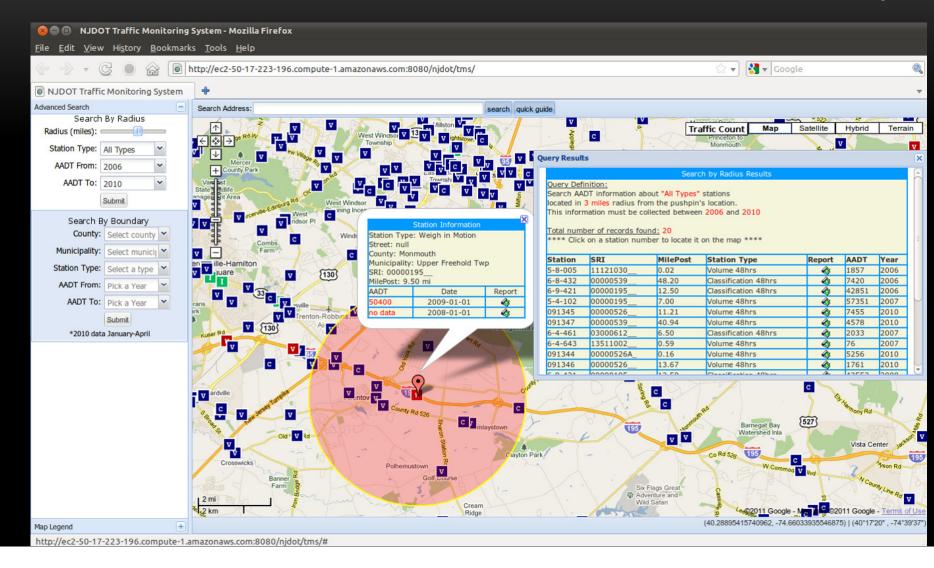


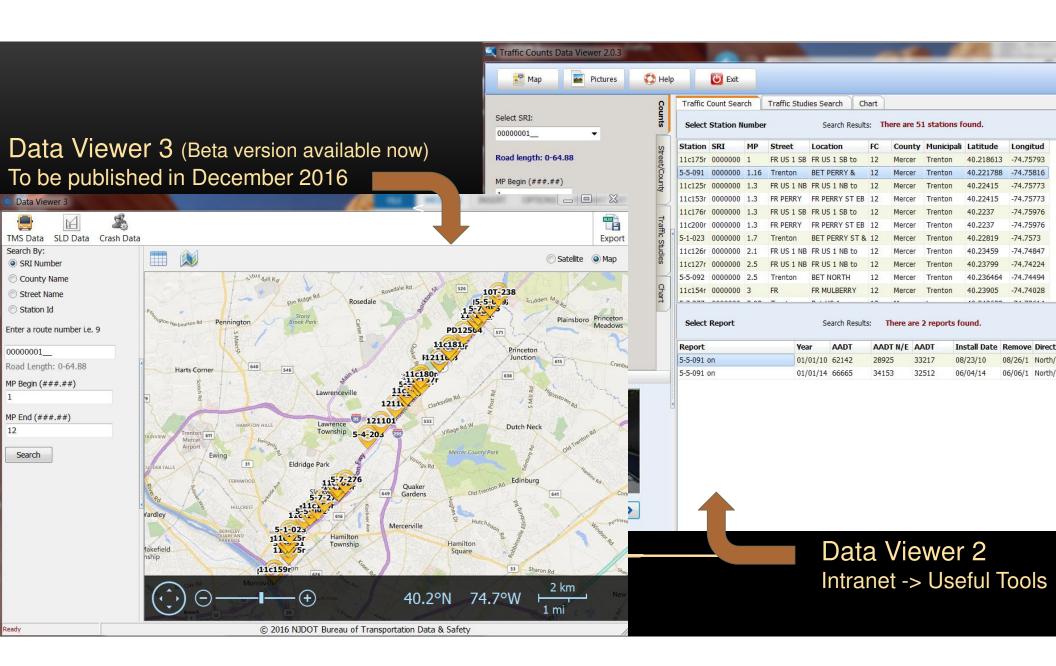




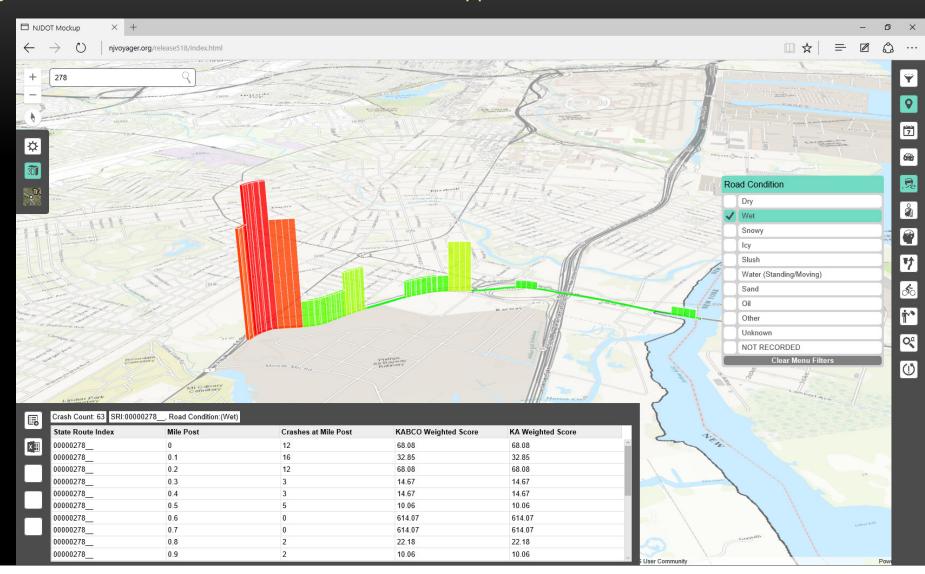
Finding our data...

Online traffic counts web search engine



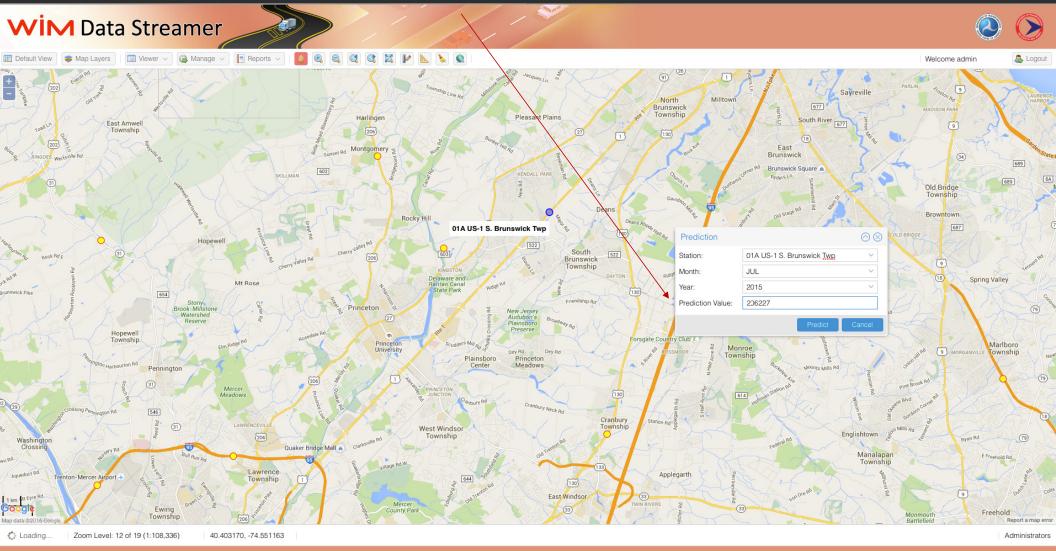


Safety Voyager - online Crash Records and Traffic Counts application. Available - November 2016.



Machine Learning Application – June 2015 Data **WiM** Data Streamer Reports Welcome admin X Advanced Query Tool (01A US-1 S. Brunswick Twp) New Haven New London Report Type Report Type: Daily Traffic Based on Station Report for Daily Traffic Based Station IS-1 S. Brunswick Twp Route Number: US-1 \otimes Chart Report: Daily Traffic Based on Station 3 (4) Date Range From Date: 06/01/2015 To Date: 06/30/2015 nswick Twp • Chart Output Type: 1800 IRD ISINC 1000 Equipment: ,200 Last Calibration: 11/22/2014 1000 Chambersburg Status(100): 800 Out Of Service: 800 WGT: Χ MODE VOL: Martinsburg -74.551473 Longitude: 06/01 06/05 06/09 06/13 06/17 06/21 06/25 06/29 Date Winchester Washington Report a map error Zoom Level: 8 of 19 (1:1,733,376) 38.918819, -76.701050 Administrators Ready

Machine Learning Application – July 2015 Traffic Prognosis



Next chapter

Real Time Speeds from WIM locations

