

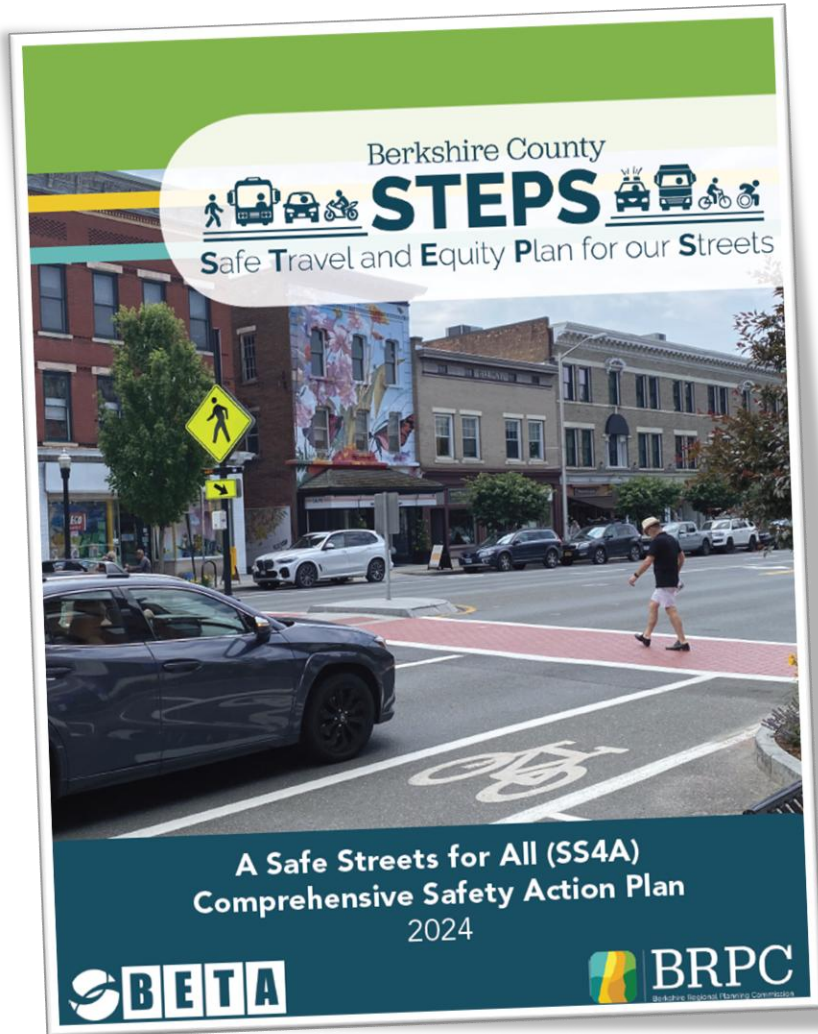
Berkshire County High Injury Network (HIN) Dashboard

FFY 2026 State Traffic Safety Information System Improvements Grant

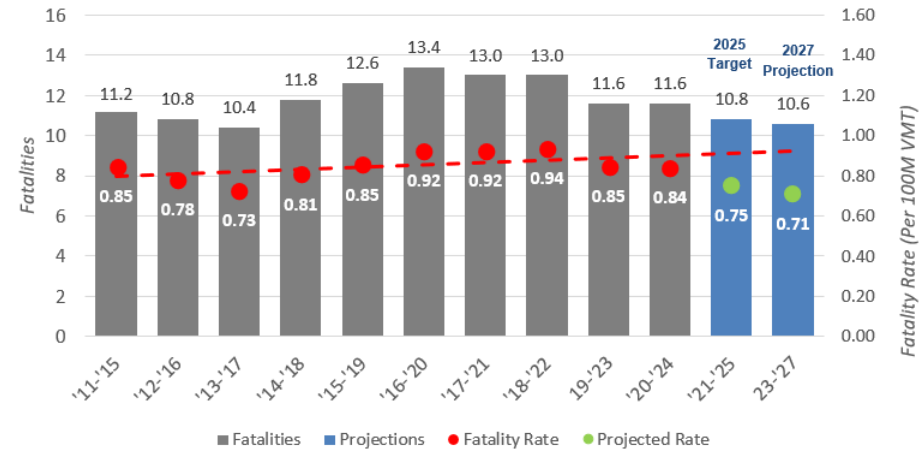


BRPC
Berkshire Regional Planning Commission

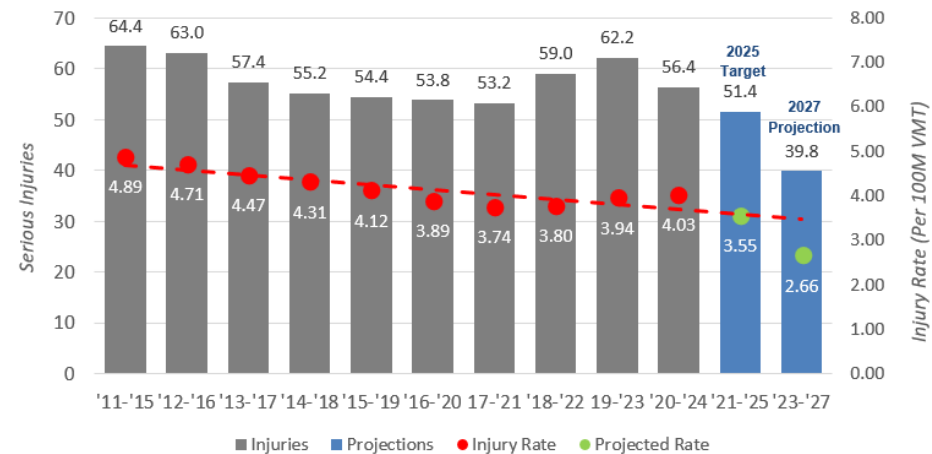
Background on Berkshire Traffic Safety Efforts



Total Berkshires Fatalities and Rate
(5-year averages)



Total Berkshires Serious Injuries and Rate
(5-year averages)



A High Injury Network (HIN) Dashboard Is Needed To Improve Safety

Utilizing existing data on the safety of our roads, a High-Injury Network (HIN) Dashboard of Berkshire County was created. This network highlights the greatest opportunities for implementing safety enhancements to reduce future deaths and serious injuries and make travel by all modes of transportation a better experience.

- The purpose of this project is to establish a next-generation HIN Dashboard for Berkshire County's roads, which will analyze intersections and corridors that have experienced the highest numbers of fatalities and serious injuries over a given time.
- This will assist further development of the region's Vision Zero traffic safety program and would improve core highway safety databases and processes by which data is identified, collected, reported to State and local government agencies, and entered into State core safety databases.



A High Injury Network (HIN) Dashboard Will Improve Data Sharing + Transparency

A High-Injury Network (HIN) Dashboard for Berkshire County will improve the integration and quality of traffic safety data by analyzing high-risk intersections and corridors using multiple data sources, including the MassDOT IMPACT database. This will enhance state traffic safety information systems through providing public access to resources – skilled personnel and user-friendly tools – for use and analysis.

- Consolidating local crash data into a centralized, structured format, making it easier for partner agencies, such as law enforcement, emergency responders, public health officials, and transportation planners, to access consistent and reliable information.
- Enable more transparent sharing of data trends and safety hotspots with the public, supporting informed community engagement and building trust by showing where safety improvements are most needed and what actions are being taken.
- Provide actionable insights that can be shared in real-time or near-real-time with partners, thereby promoting proactive planning and quicker responses to emerging safety concerns. Overall, this project promotes a culture of data sharing and collaboration, enhancing the effectiveness of traffic safety initiatives across Berkshire County.

A High Injury Network (HIN) Dashboard Will Deliver System Improvements

BRPC would partner with Citan to utilize their CRASH software model to build an updated High Injury Network (HIN) Dashboard as a part of the region's Vision Zero traffic safety effort.

The dashboard would enhance the accessibility and completeness of the data transportation staff utilize to make safety investment decisions. Using the modeling available through CRASH, staff will be able to view crash diagrams, an updated High-Injury Network, and tools to make the most informed decisions.

The screenshot displays the Citan Transportation Software interface. At the top left is the Citan logo with the tagline "INFRASTRUCTURE INTELLIGENCE REDEFINED". The main heading is "Transportation Software from Professional Engineers". Below this, a paragraph describes Citan's mission: "Citan empowers users to access data-driven insights to improve the transportation networks in the communities they serve. Pioneered by a team of skilled developers and Professional Engineers, Citan's tools combine transportation engineering know-how, advanced software knowledge, and data science experience to create tools that seek to redefine infrastructure intelligence. Citan's solutions tackle a range of transportation challenges including traffic crash safety, pedestrian mobility and equitable asset management, work zone safety, and enforcement." To the right, a sidebar lists four key areas: **INVESTMENT** (Optimize effective and impactful investments with robust, accurate data and automated decision-support), **COMPLIANCE** (Expedite your ability to fully satisfy an ever-changing regulatory landscape), **SAFETY** (Build safer, more resilient communities with a targeted, data-driven toolkit), and **EQUITY** (Develop thoughtful, context-sensitive, infrastructure investments to meet the full needs of all stakeholders). The bottom of the dashboard features two tool cards: **ADAPT** (Accessibility Design, Assessment, and Planning Tool) and **CRASH** (Crash Reduction through Analysis of Safety Hazards). Each card includes a brief description and a small map visualization showing infrastructure data points.

What The HIN Dashboard May Look Like

Total Crashes

11.55k

Total Injury Crashes

2.2k

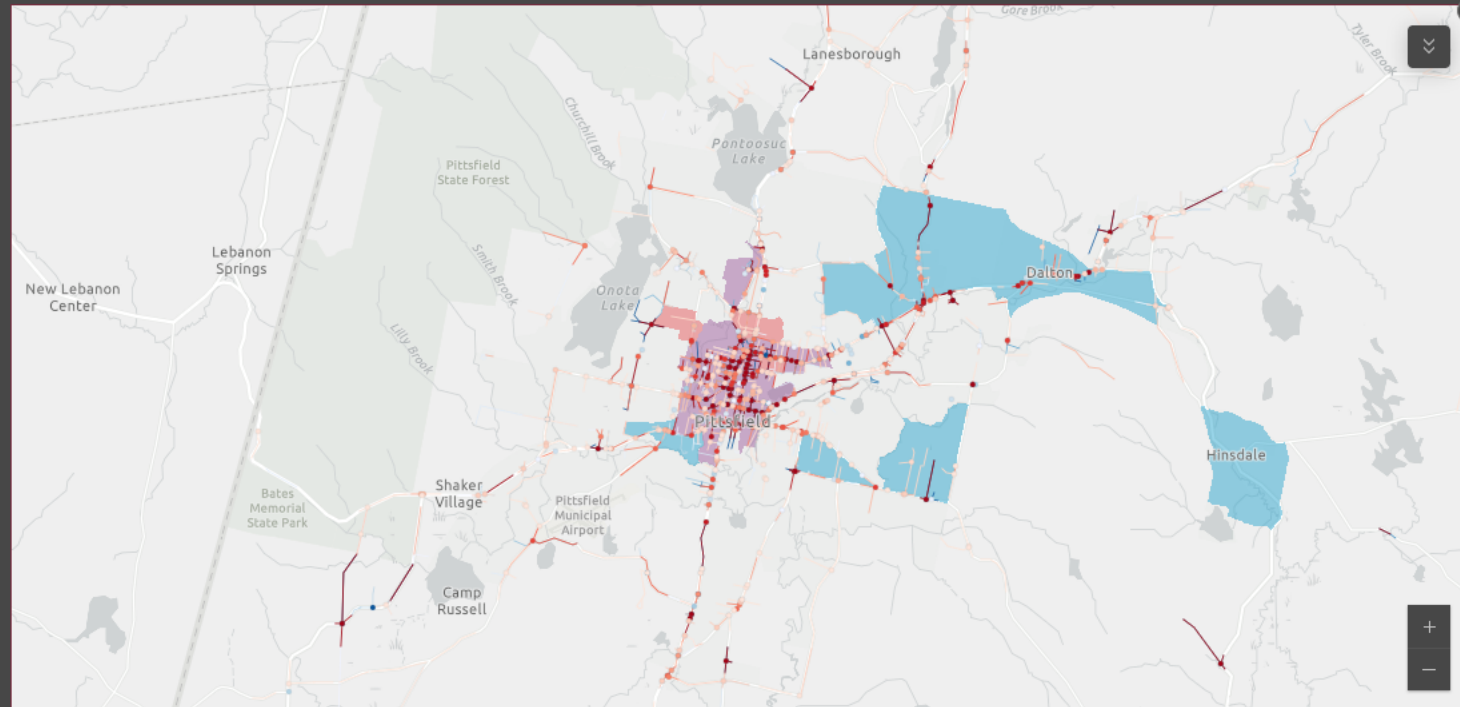
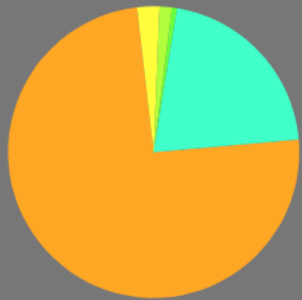
Total Serious Injury Crashes

217

Total Fatal Crashes

63

Crash Severity



Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS | EEA GIS | Massachusetts Department of Transportation (MassDOT), MassGIS Powered by Esri

| Street Name 1 | Street Name 2 | Street Name 3 | City / Town | # of Fatal Crashes | # of Vulnerable User Crashes | # of Serious Injury Crashes | # of Non-Seri |
|--------------------|-------------------------|---------------|-------------|--------------------|------------------------------|-----------------------------|---------------|
| HODGES CROSS ROAD | CURRAN MEMORIAL HIGHWAY | | NORTH ADAMS | | | 1 | 2 |
| FENN STREET | FIRST STREET | | PITTSFIELD | | | 4 | 1 |
| THORNDIKE AVENUE | PLASTICS AVENUE | DALTON AVENUE | PITTSFIELD | 1 | | 1 | |
| COLUMBUS AVENUE | NORTH STREET | | PITTSFIELD | 1 | | 1 | 1 |
| DUBLIN ROAD | STATE ROAD | | RICHMOND | 2 | | | |
| DALY AVENUE | MAIN STREET | | DALTON | 1 | | 2 | |
| SOUTH STATE STREET | CURRAN MEMORIAL HIGHWAY | | NORTH ADAMS | 1 | | | 1 |

Trends Based - Top Intersections

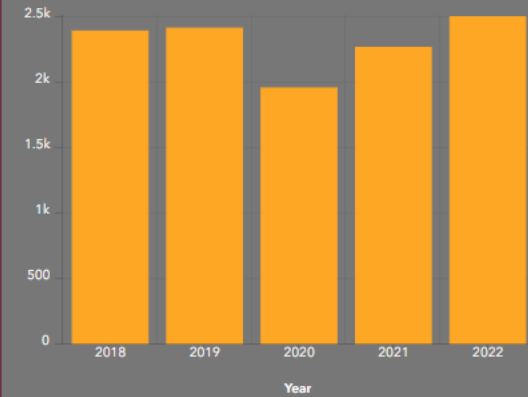
Risk-Based - Top Intersections

Trends Based - Top Segments

Risk Based - Top Segments

Roadway crashes from MassDOT Impact from 2018-2022. This dashboard only includes geocoded crashes with a provided location.

Crashes Per Year



Manner of Collision



Sideswipe, same direction 10.3% Single vehicle crash 34.16%