

MAPA Safety Targets and SS4A Planning Updates

STAG MEETING 3
February 10, 2026



Agenda

1. Introductions
2. Goals of the Meeting:
 - Countermeasures:
 - Capital Improvements
 - Programs
 - Break-outs for each community:
 - More focused reviews
 - Review Countermeasures
3. Countermeasures Overview
4. Breakout Rooms
5. Next Steps
6. Open Discussion/Questions

Study Process/Approach and Status

DISCOVERY

1



- Crashes:
 - Location
 - Severity
- Contributing Factors
- Local Support/Priorities
- Current Programs/ Activities
- Budget Capacity
- Grant Programs

High Injury Network



Target to Zero

OPTIONS

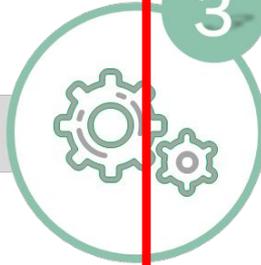
2



- Capital Improvements
- Education Programs
- Enforcement

SCREENING

3



- Effectiveness
- Cost Relative to Budget/Effectiveness
- Adjacent Impacts
- Local Support

ACTIONS

4



- Priority
- Timing
- Project/Program Development
- Outside Actions Required

Current Status

Crash Mitigation Countermeasures

Overview of Countermeasures

- Created a Toolkit:
 - Ideas
 - Applicable conditions
 - Road design
 - Crashes observed
 - Effectiveness
 - Cost
 - Support for Action Plan goals
- Organized by:
 - Vehicle focused
 - Pedestrian Focused
 - Bicycle Focused
 - Programs and Enforcement

Strategy Toolkit of Countermeasures

#	Strategy	Description	Crash Reduction Factor (CRF)	Estimated Implementation Cost	Mitigating Conditions	Quick Build Capable
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Countermeasures

Strategy Toolkit of Countermeasures

#	Strategy	Description	Crash Reduction Factor (CRF)	Estimated Implementation Cost	Mitigating Conditions	Quick Build Capable
Vehicle Focused Countermeasures						
1	 Appropriate Speed Limits For All Users	Assign speed limit based on the context and activity level in corridor.	30%	\$\$	Speeding	
2	 Warning Sign with Edge-Mounted LED Lights	LED lights embedded in the sign to outline the sign itself or the words and symbols on the sign	5%	\$	Angle Crashes Ped/Bike Broad Side	
3	 Access Management - Close Driveway	Driveway consolidation reduces conflict points along a segment and/or near intersections.	25%	\$\$-\$\$\$	Sideswipe Head-on Broadside	✓
4	 Access Management - Divided Roadway	Barrier in the roadway separates opposing vehicular traffic and provides control access to/from side streets and driveways; reducing the number of conflict points. reduces conflict points along a segment and/or near intersections.	40%	\$\$\$	Sideswipe Head-on Broadside Pedestrian	✓
5	 Lighting Improvements	Enhanced lighting at intersections increases the visibility of all road users.	20%	\$\$	Right angle Head-on Broadside Pedestrian	
6	 Remove Sightline Obstructions/ Maintain Vision Triangles	Remove objects that may prevent drivers and pedestrians from having a clear sightline. Red curb (no parking) near intersection, trimming or removing landscaping, or removing or relocating large signs improves sightlines.	30%	\$	Right angle Head-on Broadside Pedestrian	
7	 Roundabout	circular intersection in which road traffic is permitted to flow in one direction around a central island. 75% fewer conflict points than conventional intersection.	50%	\$\$\$	Right angle Head-on Broadside Pedestrian	✓
8	 Turn Lanes (Offset, Channelized)	Offsetting left- and right-turn lanes increases visibility and sightlines and is preferable in many situations; particularly at locations with higher speeds or with free-flow or permissive movements.	25%	\$\$\$	Right angle Head-on Broadside Pedestrian	

Countermeasures

#	Strategy	Description	Crash Reduction Factor (CRF)	Estimated Implementation Cost	Mitigating Conditions	Quick Build Capable
9	 Reflective Traffic Signal Backplate	Retroreflective borders enhance the visibility of traffic signals for aging and color-vision-impaired drivers and may also alert drivers to signalized intersections during periods of power outages when the signals would otherwise be dark.	15%	\$	Right angle Rear-end Head-on Broadside Pedestrian	
10	 Urbanization (reconstruct rural road with curb and gutter)	Urban section provide more opportunity to incorporate sidewalks and bicycle accommodation.		\$\$\$	Run Off Road Pedestrian	
11	 Dynamic Speed Feedback Sign	A speed feedback sign provides a cue for drivers to check their speed and slow down, if necessary.	5%	\$	Speeding	✓
12	 Lane Conversions (4 to 3-Lane Conversions)	Reallocating roadway space by reducing lanes creates room for bicycle facilities, wider sidewalks, or center turn lanes.	30%	\$\$	Right angle Sideswipe Rear-end Head-on Broadside Pedestrian Bicycle	✓
13	 Appropriately Timed Yellow Change Intervals	Appropriately setting yellow times (3 to 6 seconds), significantly enhances intersection safety by reducing red-light running.	10%	\$	Right angle Sideswipe Rear-end Broadside Pedestrian Bicycle	
14	 No Right Turn on Red	Reduces the potential for conflicts between turning vehicles and pedestrians crossing street.	15%	\$	Right angle Pedestrian Bicycle	
15	 Flashing Yellow Arrow	Alerts drivers to proceed with caution and decide if there is a sufficient gap in oncoming traffic to safely make a turn.	20%	\$	Right angle Broadside	
16	 Railroad Crossing - Add Signs and Crossbucks	Provides a clear visual cue prompting drivers to slow down, look both ways, and listen for trains; especially at passive crossings.	25%	\$\$	Broadside Pedestrian Bicycle	
17	 Railroad Crossing - Lights and Sound Signals	Provides both auditory and visual warnings of an approaching train.	75%	\$\$\$	Broadside Pedestrian Bicycle	

Countermeasures

#	Strategy	Description	Crash Reduction Factor (CRF)	Estimated Implementation Cost	Mitigating Conditions	Quick Build Capable
18	 Railroad Crossing - Automated Gates	Enhances safety, efficiency, and reliability by physically preventing vehicles and pedestrians from entering the tracks when a train is present	85%	\$\$\$	Broadside Pedestrian Bicycle	
19	 Clear Zone Maintenance/Enhancements	Unobstructed, traversable roadside area that allows a driver to stop safely or regain control. Clear zone width is informed by roadway context, desired vehicle speeds, and agency design standards.	40%	\$\$	Run Off Road	
Pedestrian Focused Countermeasures						
20	 Add Pedestrian Crossing Signals	Signals provide designated, safe times for pedestrians to cross, reducing the risk of collisions.	35%	\$\$	Pedestrian	
21	 Add Pedestrian Head to Signals		25%	\$\$	Pedestrian	
22	 Sidewalks/Multi-use Path	Adding sidewalks/multi-use paths provides a separated and continuous facility for people to walk/bike along the roadway.	25%	\$\$\$	Pedestrian Bicycle	
23	 Curb Extensions/Bump Outs	Widens the sidewalk for a short distance to enhance the pedestrian crossing. Reduces the crossing distance and allows pedestrians and drivers to see each other better.	30%	\$\$	Pedestrian Bicycle	✓
24	 Grade Separated Pedestrian Underpass/Overpass	Physically separating foot traffic from motor vehicles, railways, and natural barriers. Must of properly located to ensure use.	15%	\$\$\$	Pedestrian Bicycle	
25	 Signalized Mid-Block Crossing	Providing a formal, signalized mid-block option consolidates pedestrian crossings to a predictable location, reducing dangerous "jaywalking" and the risk of unexpected crossings for drivers.	55%	\$\$	Pedestrian Bicycle	
26	 Reduce Lane Width	Lane narrowing shrinks roadway width while keeping lane count, slowing traffic, shortening pedestrian crossings, and adding bike/pedestrian areas.	25%	\$\$\$	Pedestrian Rear-end	✓
27	 Overhead Pedestrian Warning Sign at Mid-Block Crossing	Increases driver awareness and visibility of the crosswalk and any pedestrians within it. Particularly effective in complex environments where standard signs might be missed.	55%	\$\$	Pedestrian Rear-end	
28	 Pedestal-Mounted Flashing Signal Beacons	Pedestrian-activated flashing light with additional signage to alert motorists of a pedestrian crossing. An RRFB increases the visibility of marked crosswalks and provides motorists a cue to slow down and yield to pedestrians.	45%	\$	Pedestrian Rear-end	

Countermeasures

#	Strategy	Description	Crash Reduction Factor (CRF)	Estimated Implementation Cost	Mitigating Conditions	Quick Build Capable
29	 Pedestrian Barriers to Prevent Mid-Block Crossing	Fence or vegetative median barriers improve safety by preventing unsafe, random street crossings and guiding pedestrians to designated crosswalks.	15%	\$\$	Pedestrian Rear-end	✓
30	 Enhanced Signing and High Visibility Crosswalk Markings	A high-visibility crosswalk has a striped pattern with ladder markings made of high-visibility material, such as thermoplastic tape, instead of paint, improves the visibility of marked crosswalks and provides motorists a cue to slow down and yield to pedestrians.	30%	\$	Pedestrian	
31	 Leading Pedestrian Intervals	A leading signal interval (3-7 seconds) gives pedestrians the opportunity to enter an intersection before vehicles are given a green indication. Most effective at intersections with a high volume of turning.	15%	\$	Pedestrian	
32	 Pedestrian Countdown Timers (visual and audible)	Displays "countdown" of seconds remaining on the pedestrian signal.	25%	\$	Pedestrian	
33	 Raised Crosswalk	Crosswalk that is typically elevated 3-6 inches above the road or at sidewalk level.	30%	\$	Pedestrian	✓
34	 Median and Pedestrian Refuge Island	Raised barrier in the center of the roadway restricting certain turning movements and providing a place for pedestrians to wait if they are unable to finish crossing the intersection.	55%	\$	Pedestrian Rear-end	✓
35	 Rectangular Rapid Flashing Beacon	Pedestrian-activated flashing light and signage to alert motorists of a pedestrian crossing. RRFB increases the visibility of marked crosswalks and provides motorists a cue to slow down and yield to pedestrians.	45%	\$	Pedestrian Rear-end	
36	 Parking Restriction on Crosswalk Approach	Restricting vehicle parking within 25-30 feet of intersection can improve sight lines.	30%	\$	Pedestrian Angle	
Bicycle Focused Countermeasures						
37	 Buffered Bike Lane	Standard bike lanes paired with a designated horizontal buffer space, separating the bicycle lane from the adjacent motor vehicle travel lane and/or parking lane.	55%	\$\$\$	Bicycle	✓

Countermeasures

#	Strategy	Description	Crash Reduction Factor (CRF)	Estimated Implementation Cost	Mitigating Conditions	Quick Build Capable
38	 Separate Multi-use Trail	Off-street facilities that provide exclusive use for nonmotorized travel, including bicyclists and pedestrians.	25%	\$\$	Bicycle Pedestrian	
39	 Bike Box	Painted area between the crosswalk and vehicle stop bar at a signalized intersection where bicyclists can wait during a red signal phase; placing bicyclists in a location where they are more visible to motorists.	35%	\$	Bicycle	✓
Programmatic Concepts						
40	 Education Program	Material on topics such as distracted driving, safe intersection crossing, bicycle safety distributed in various formats.		\$		
41	 Media Safety Training	Themed material distributed through TV, radio and digital means can widely share safety information.		\$\$		
42	 School Focused Programs	Campaigns targeting school aged children focus on walking/biking safety, bus safety, and in-vehicle safety.		\$\$		
43	 Actively Advance Pedestrian and Bicycle Safety Projects	Prioritization of pedestrian and bicycling projects, which are generally lower cost, is required to create benefits of planning efforts.		\$		
Enforcement Concepts						
44	 Short-Term, High-Visibility Seat Belt Law Enforcement	Saturation patrols deter drunk driving by increasing the perceived risk of arrest in high-risk areas. These programs should be regular and highly publicized.		\$\$		
45	 Short-Term, High-Visibility Child Passenger Safety Law Enforcement			\$\$		
46	 High-Visibility Enforcement (Speed/Cell Phone Use)			\$\$		
47	 Speed Safety Camera Enforcement	The presence of cameras encourages drivers to comply with speed limits, not just at the camera location but, in the case of average speed cameras, over a stretch of road.		\$\$		

NOTES:

Cost Range

Low (\$) - Less than \$60,000

Moderate (\$\$) - \$60,000 to \$200,000

High (\$\$\$) - Greater than \$200,000

Seven Community Crashes

All Seven Communities

RPA 13/18 CRASHES

Select City
Atlantic, Clarinda, Glenwo... 7
Select Year
2015, 2016, 2017, 2018, 2... 10
Select Severity
Fatal Crash, Possible/Unkn... 5

Total Crashes

3.5k

Fatal Crashes

9

Serious Crashes

57

Minor Crashes

270

Non-Motorist Crashes

58

All Seven Communities

Crash Type

Crash Type	Percentage
Unknown	1%
Sideswipe (same direction)	9%
Sideswipe (opposite direction)	3%
Rear-end (front to rear)	22%
Rear to side	7%
Rear to rear	1%
Other	5%
Not reported	0%
Angle (oncoming left turn)	5%
Broadside (front to side)	29%
Head-on (front to front)	3%
Non-collision (single vehicle)	16%

Vehicle Crashes

Year	Number of Crashes
2015	380
2016	360
2017	340
2018	410
2019	370
2020	310
2021	330
2022	350
2023	340
2024	330

Severity

Locations

Type

Road Class

Vehicle

Non-Motorist

Speed Limit

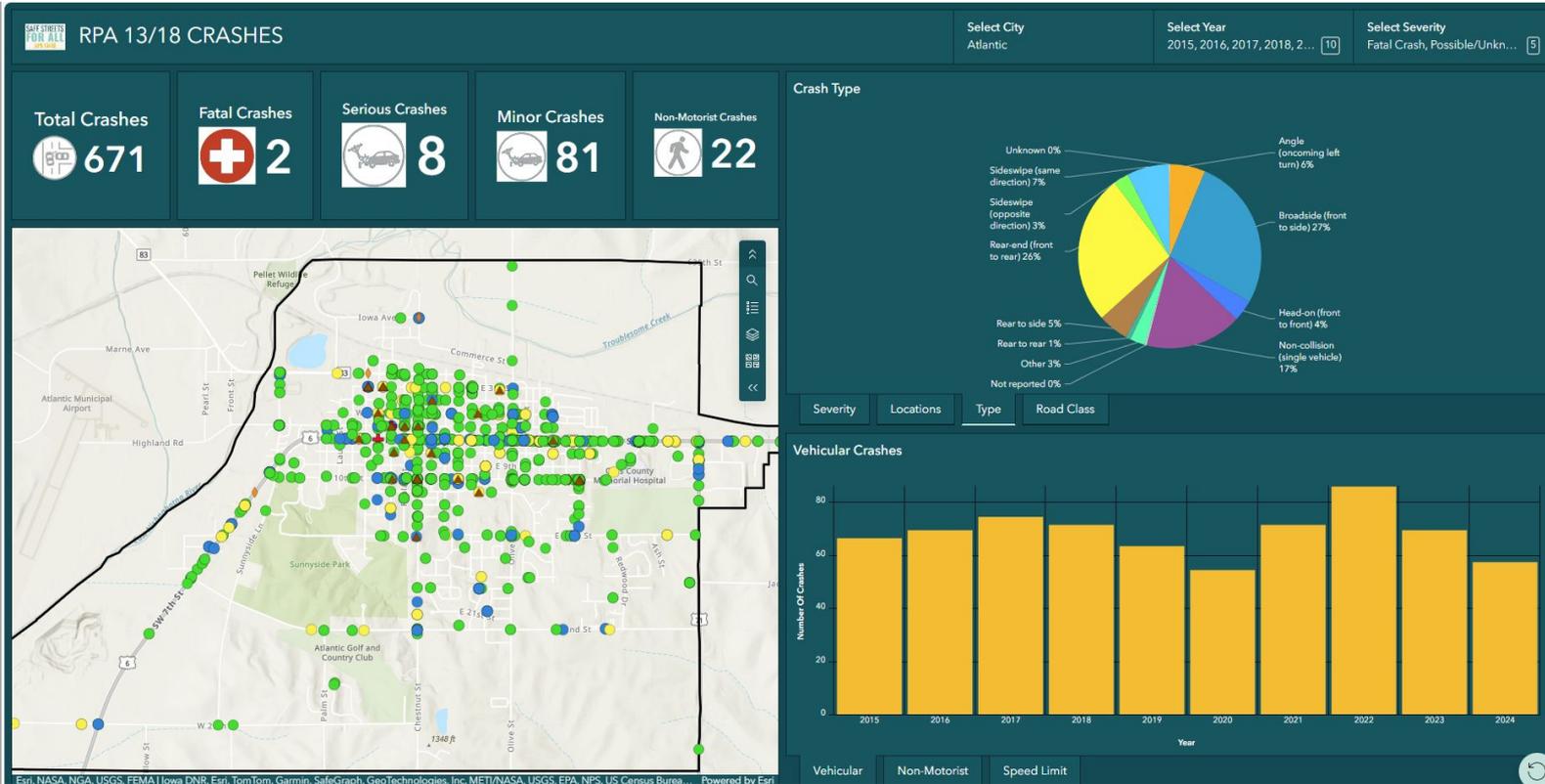
Esi, CGIAR, USGS | Pottawattamie County, Iowa, Iowa DNR, Nebraska Game & Parks Commission, Esi, TomTom, Garmin, SafeGraph, FAO, MET/NAS... Powered by Esi

All Seven Communities

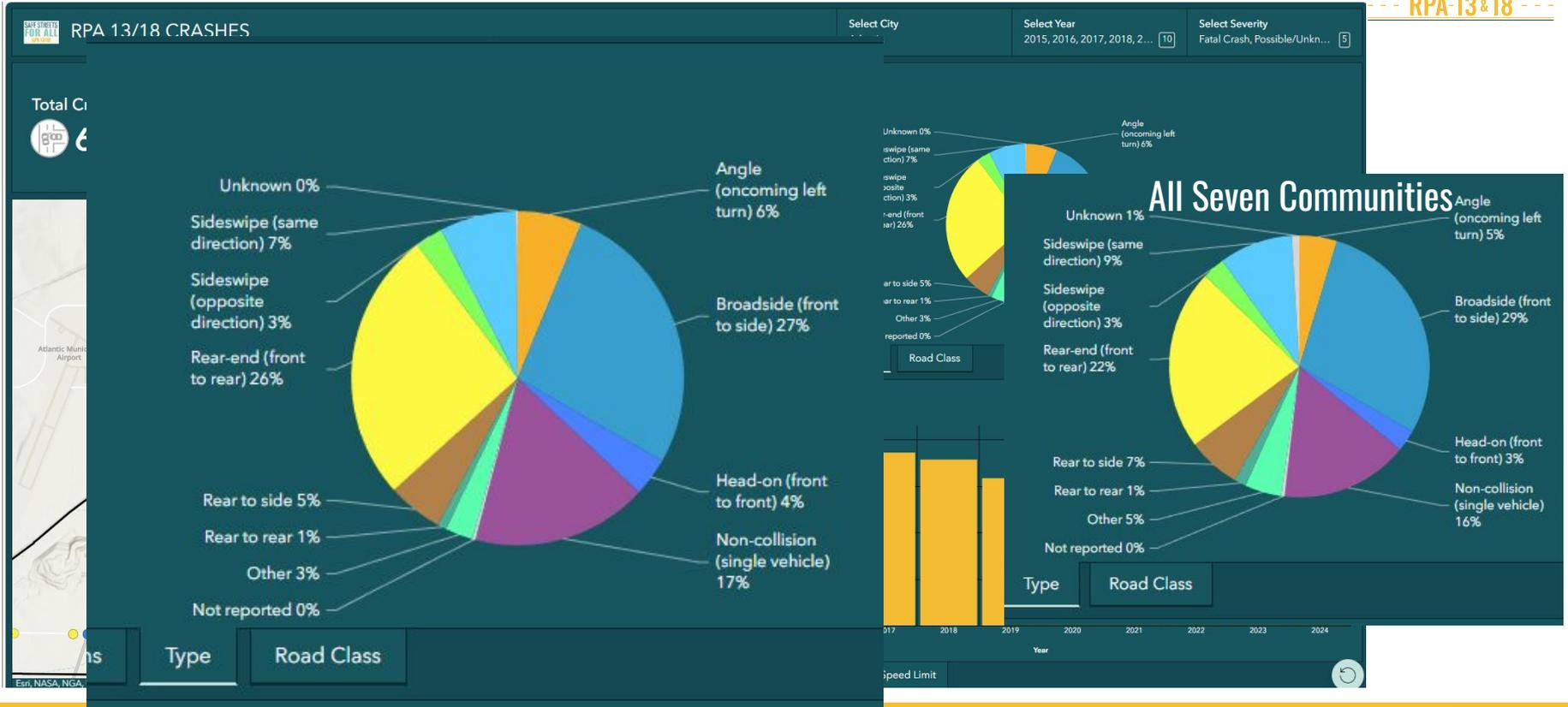


Crash/Safety Countermeasures

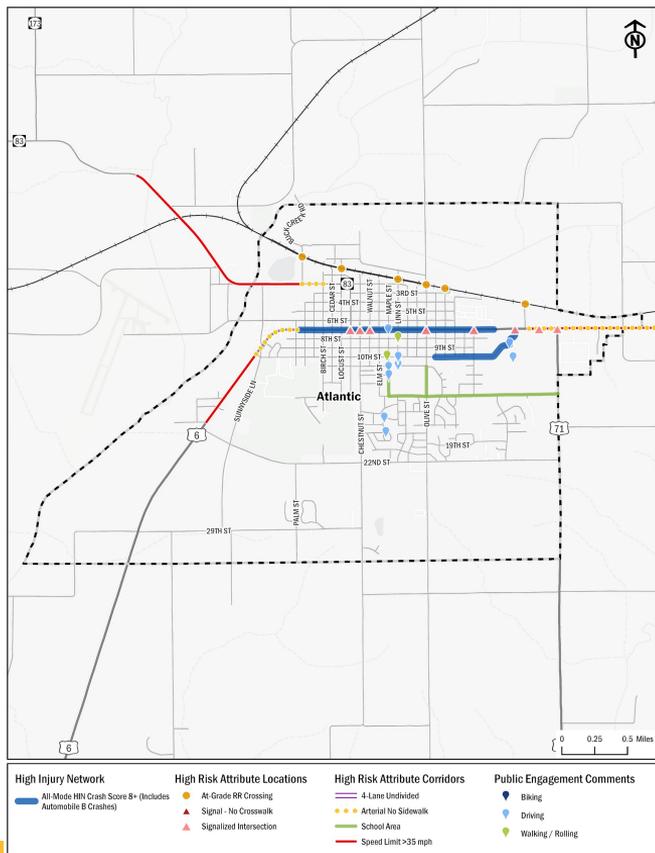
Atlantic – Crash Summary



Atlantic – Crash Summary

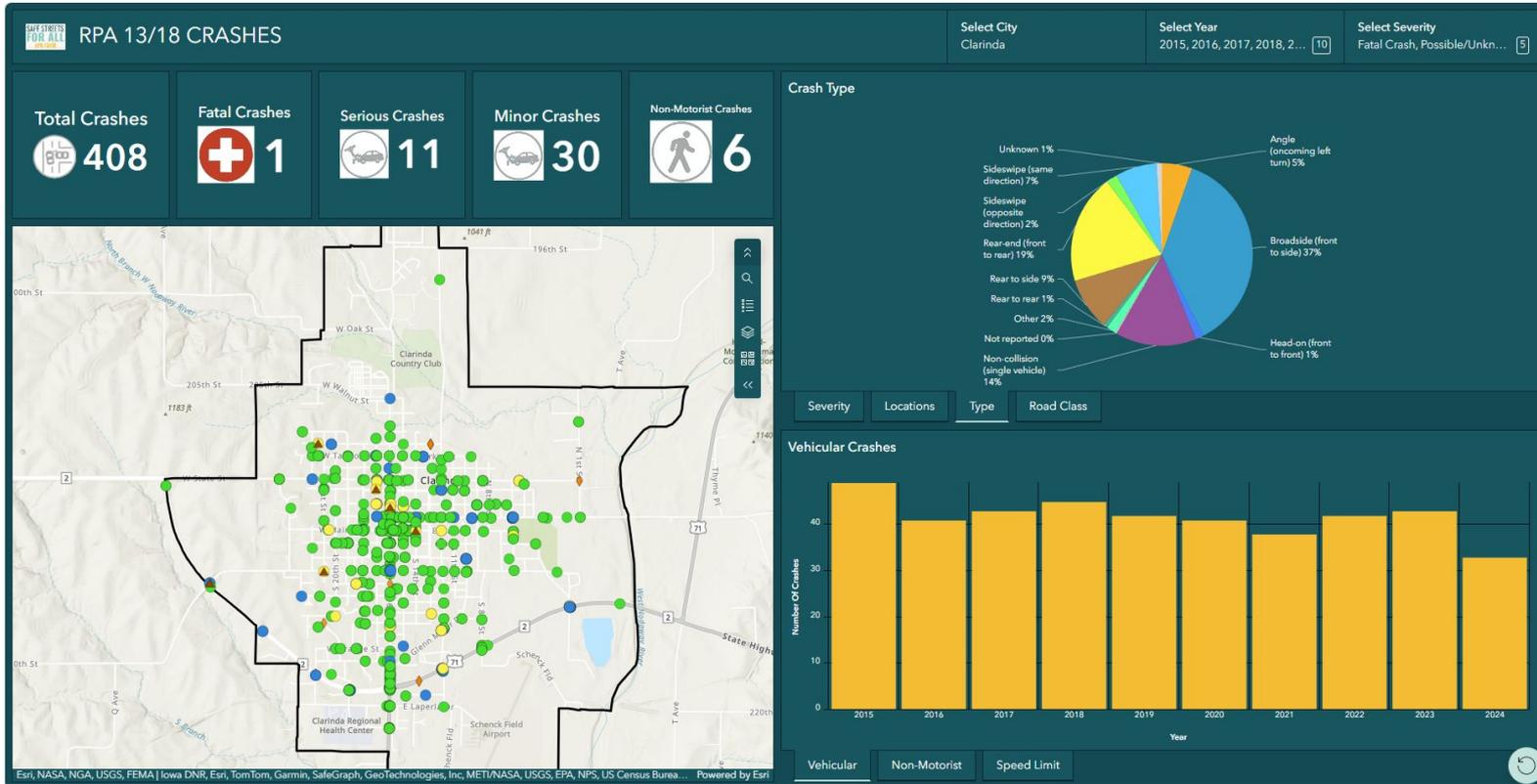


HPN and Priorities - Atlantic

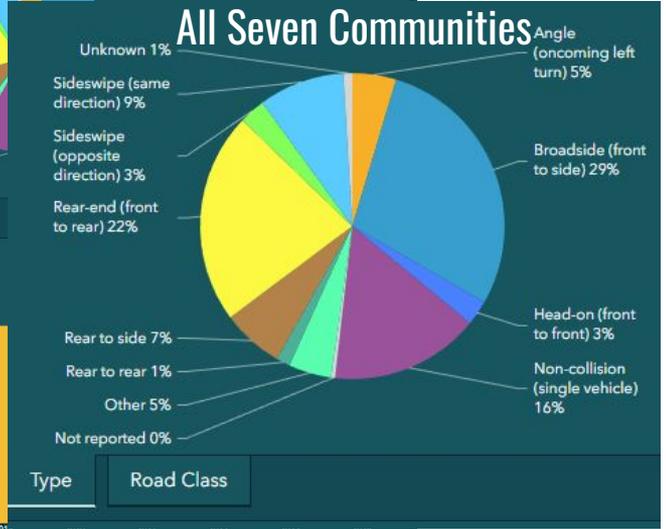
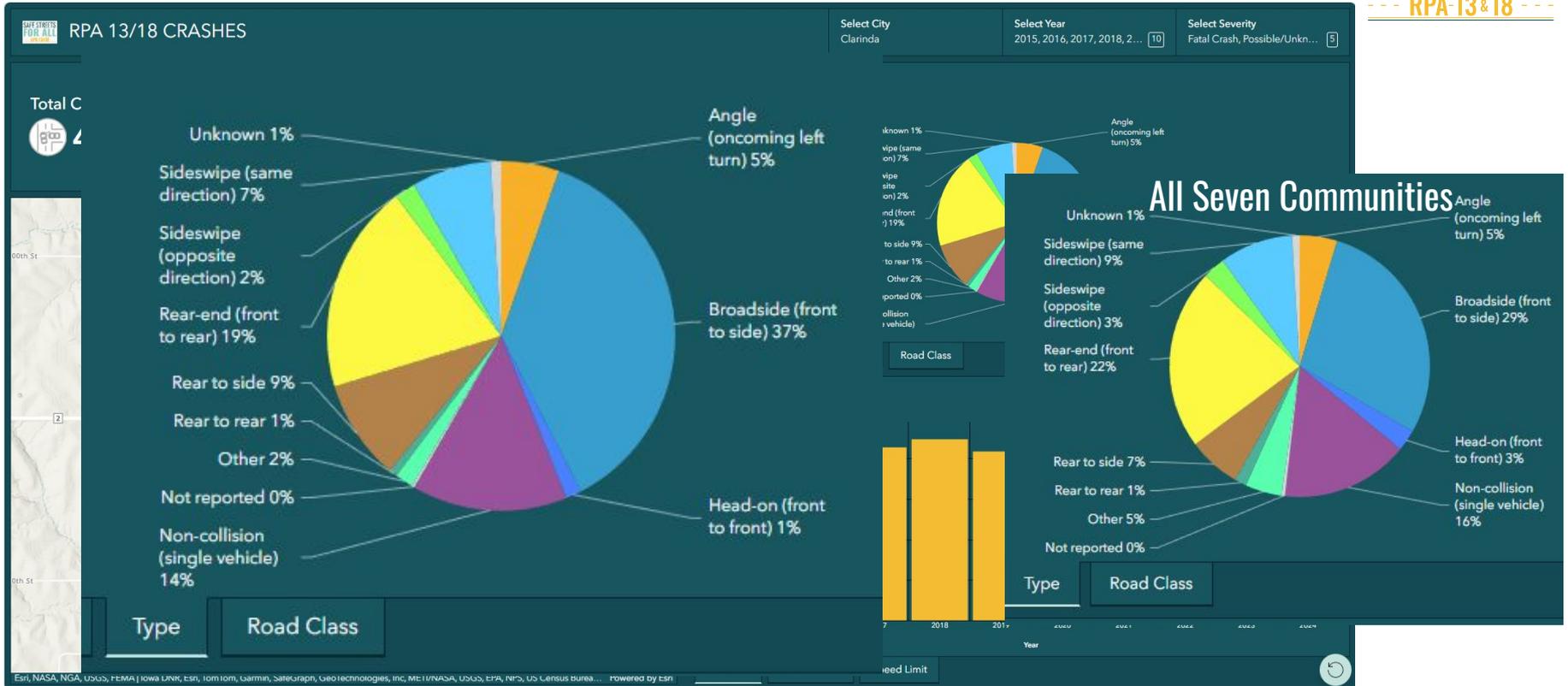


- Speed reduction – IA 6:
 - 22nd Street to 10 Street
 - School area projects:
 - 10th Street/Linn Street
 - 10th Street/Olive Street
 - 14th Street Olive Street
 - 14th Street Plum Street
 - More detail – Washington Elementary School area project
 - US 6/IA 83/7th Street:
 - Rearends – Review signal timing/phasing/yellow interval
 - Broadside – Added intersection control/reduce speeds on mainline
 - Speeds (West end) – Speed indication signs/Reduce speed closer to 22nd Street
- Sidewalks
 - Intersection Control (stop signs)
 - Crossing guards

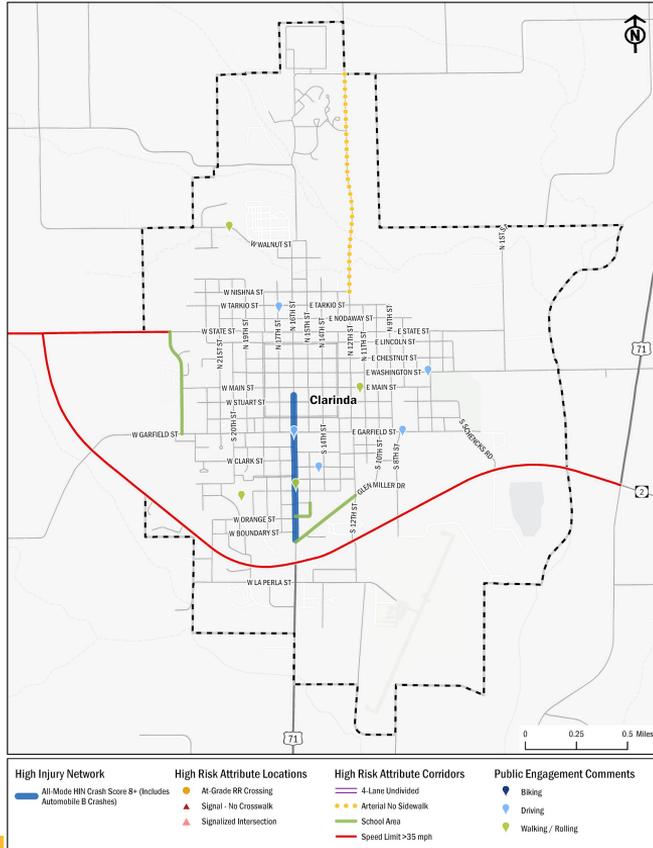
Clarinda – Crash Summary



Clarinda – Crash Summary

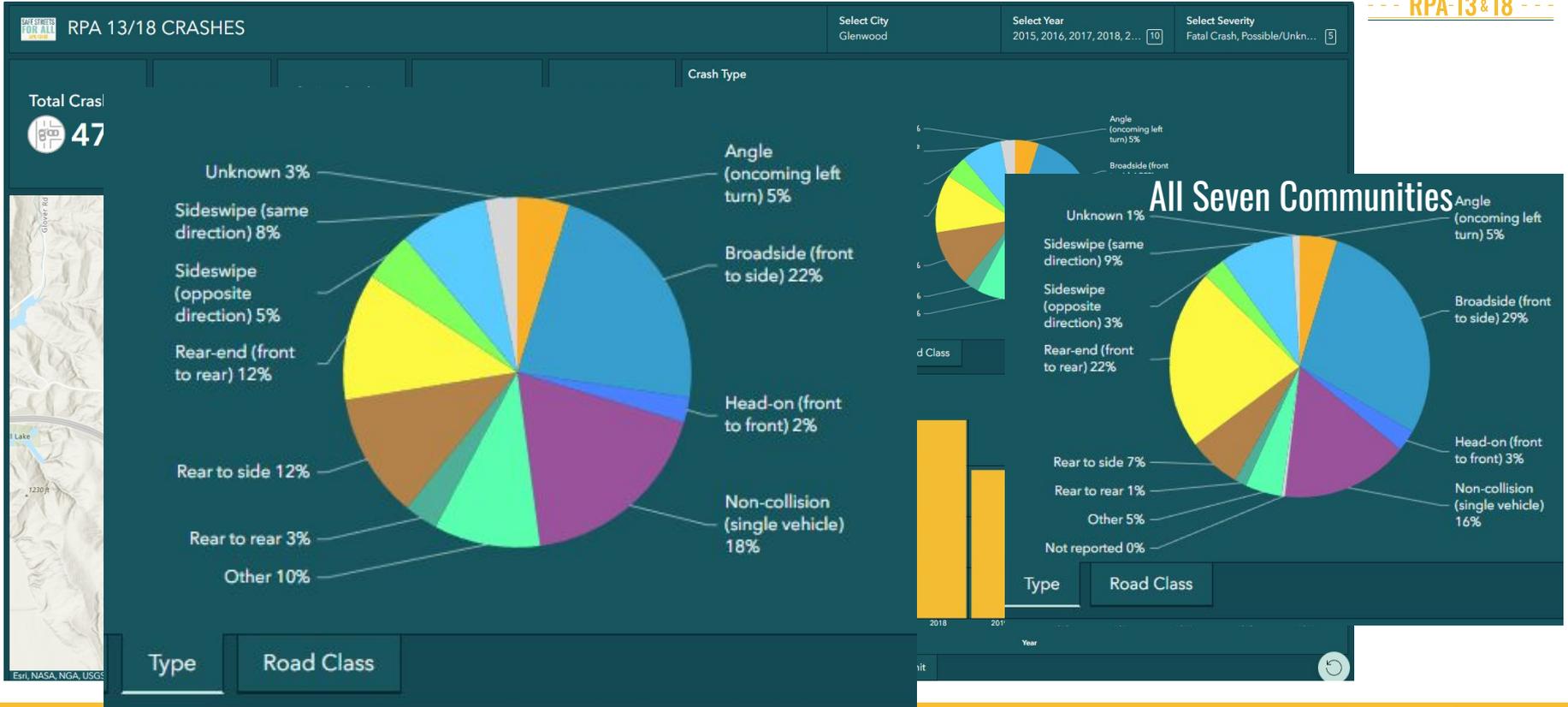


HPN and Priorities - Clarinda

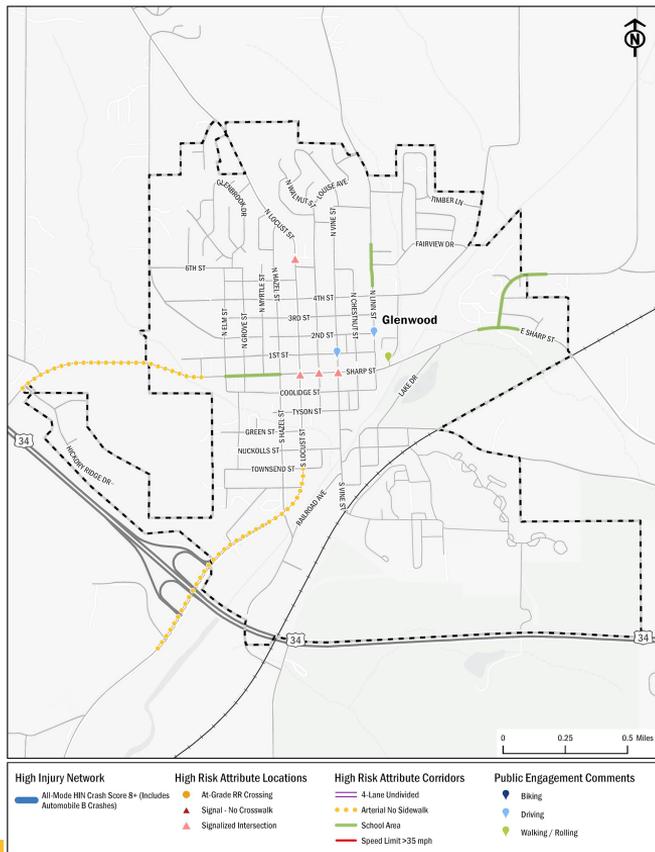


- School Areas:
 - Add sidewalks
- 16th Street South of Downtown:
 - Restripe as 3-Lane
 - Bike lanes

Glenwood – Crash Summary



HPN and Priorities - Glenwood



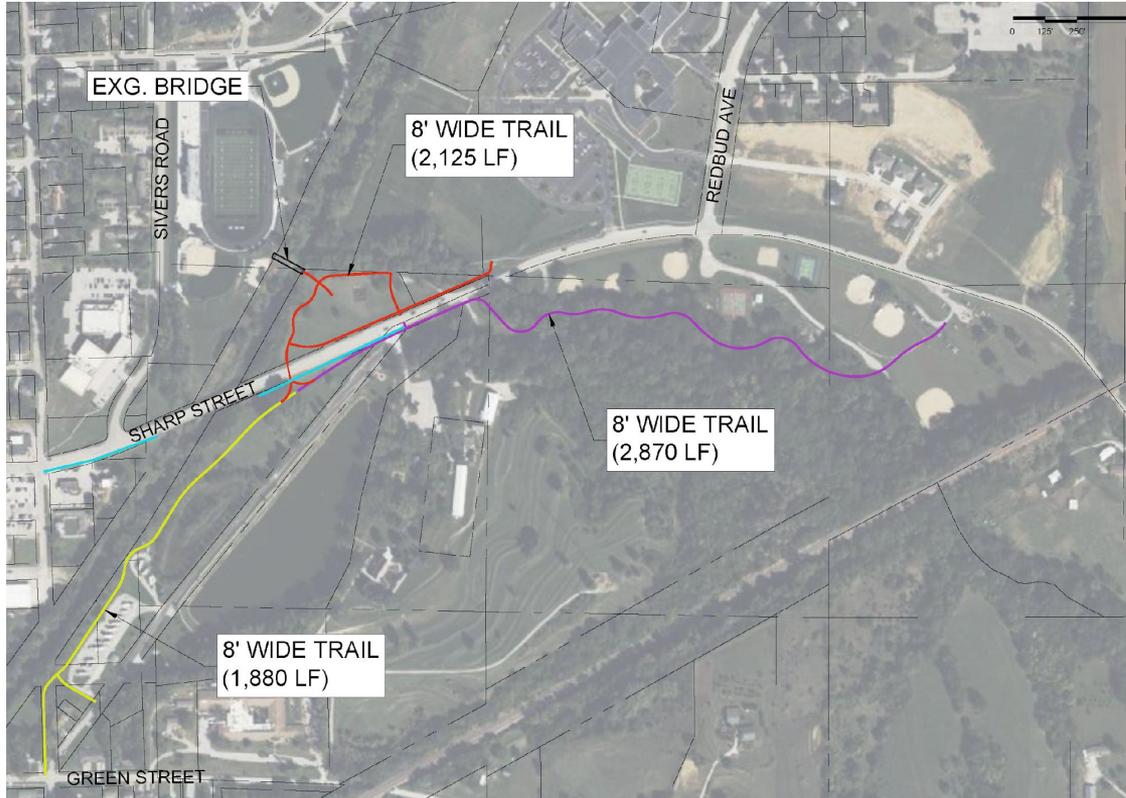
- City Trail Loop
 - North of East Sharp Street
 - South of East Sharp Street
- Mills County Trail Connections:
 - Glenwood to Mineola along Keg Creek
 - Glenwood to Malvern along railroad
 - Glenwood to Malvern along Gaston
- High School – Peak Period Traffic:
 - Congestion: Sivers Road/Sharp Street
 - Mixing of Middle-High School (8:05 AM/8:00 AM start) and (3:25 PM/3:20 PM out)

HPN and Priorities - Glenwood



- High School – Peak Period Traffic:
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HPN and Priorities - Glenwood



- **City Trail Loop**

- North of East Sharp Street
- South of East Sharp Street

- **Mills County Trail Connections:**

- Glenwood to Mineola along Keg Creek
- Glenwood to Malvern along railroad
- Glenwood to Malvern along Gaston

Harlan – Crash Summary

RPA 13/18 CRASHES

Select City
Harlan

Select Year
2015, 2016, 2017, 2018, 2... 10

Select Severity
Fatal Crash, Possible/Unkn... 5

Total Crashes

392

Fatal Crashes

2

Serious Crashes

3

Minor Crashes

37

Non-Motorist Crashes

5

Crash Type

Crash Type Legend:

- Unknown 1%
- Sideswipe (same direction) 10%
- Sideswipe (opposite direction) 2%
- Rear-end (front to rear) 20%
- Rear to side 5%
- Rear to rear 1%
- Other 6%
- Not reported 0%
- Angle (oncoming left turn) 7%
- Broadside (front to side) 33%
- Head-on (front to front) 3%
- Non-collision (single vehicle) 12%

Severity

Locations

Type

Road Class

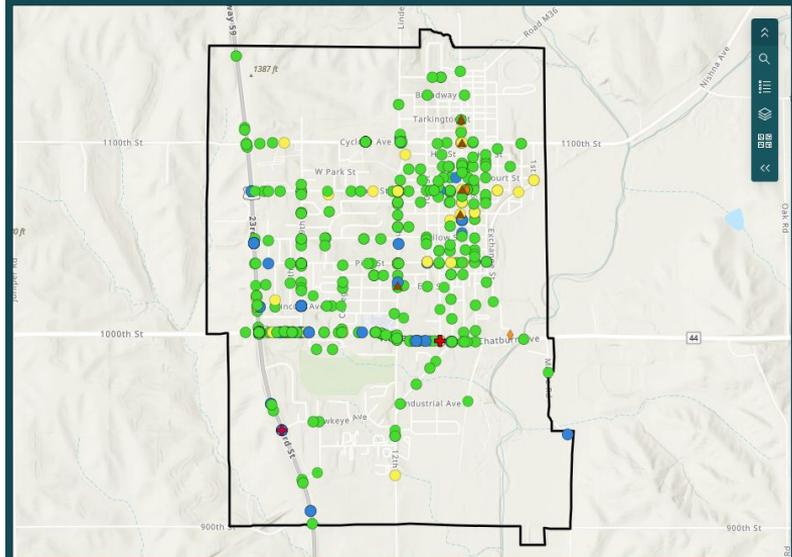
Vehicular Crashes

Year	Number of Crashes
2015	53
2016	40
2017	32
2018	42
2019	41
2020	35
2021	31
2022	29
2023	44
2024	43

Vehicular

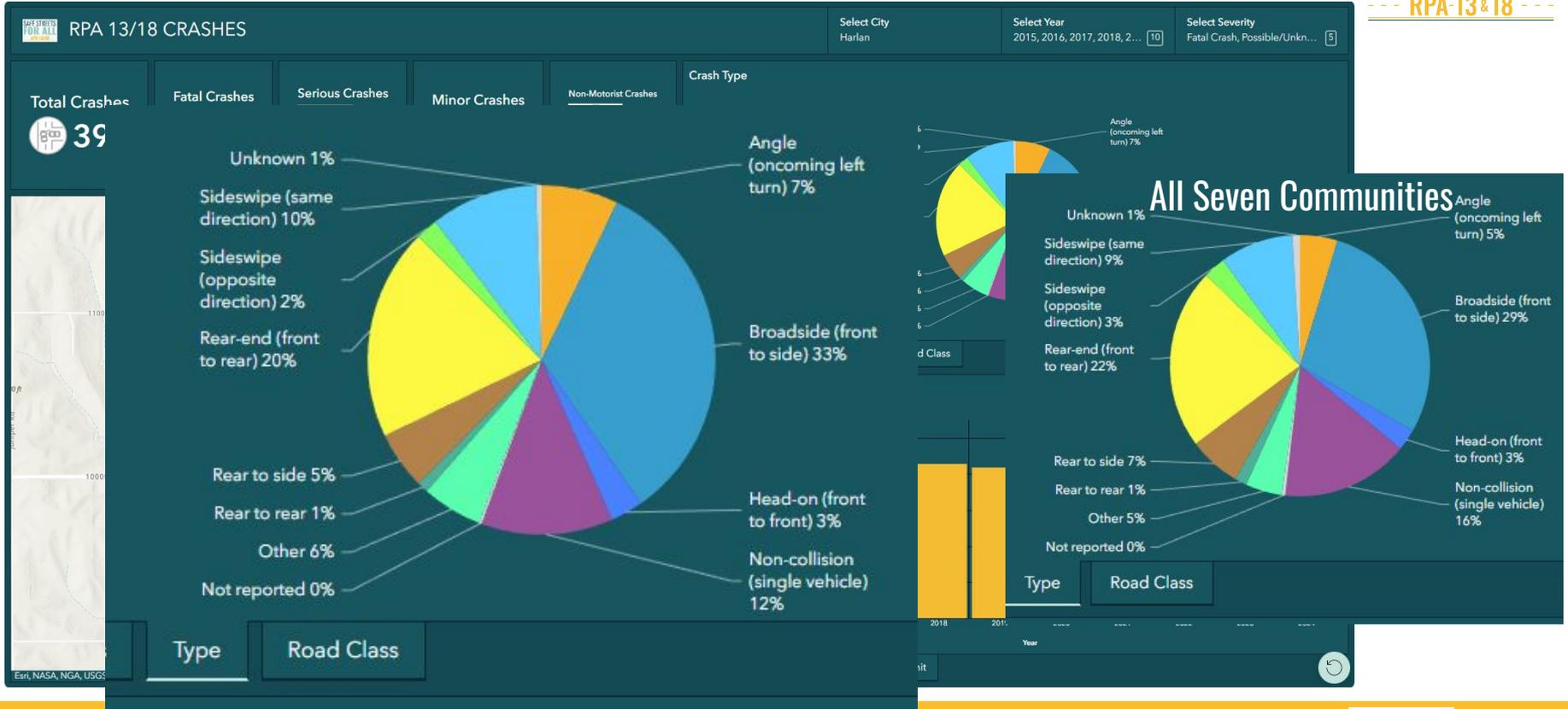
Non-Motorist

Speed Limit

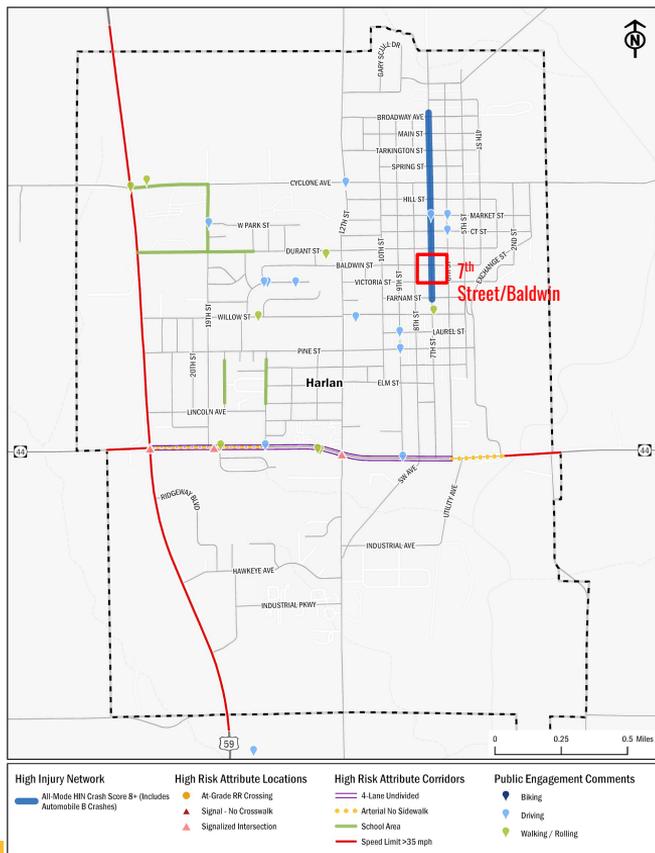


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Harlan – Crash Summary



HPN and Priorities - Harlan



- Crosswalk Addition – Highway 44/12th Street:
 - Painted crosswalk
 - ADA curb cuts/tactile pads
 - Pedestrian refuge island
- 7th Street HIN Corridor:
 - Predominant crash type - Broadside
 - Added intersection control:
 - Stop control (two-way or all-way)
 - Mini roundabout
 - Baldwin Street: Trucks – Why are they there? All-way Stop?
- Crosswalk: 12th Street @ Elm Crest (Not functioning)

HPN and Priorities - Harlan



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HPN and Priorities - Harlan



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HPN and Priorities - Harlan



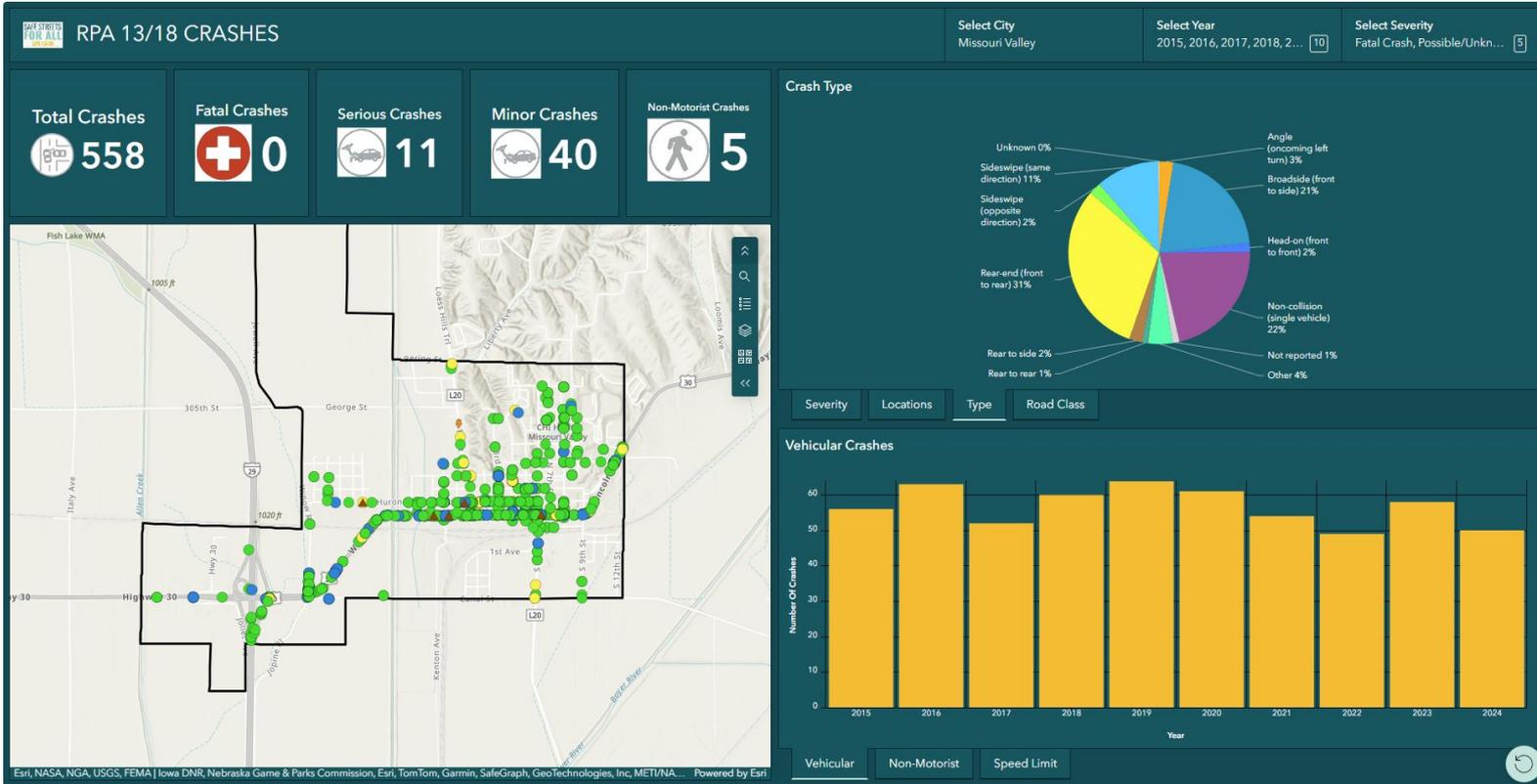
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HPN and Priorities - Harlan



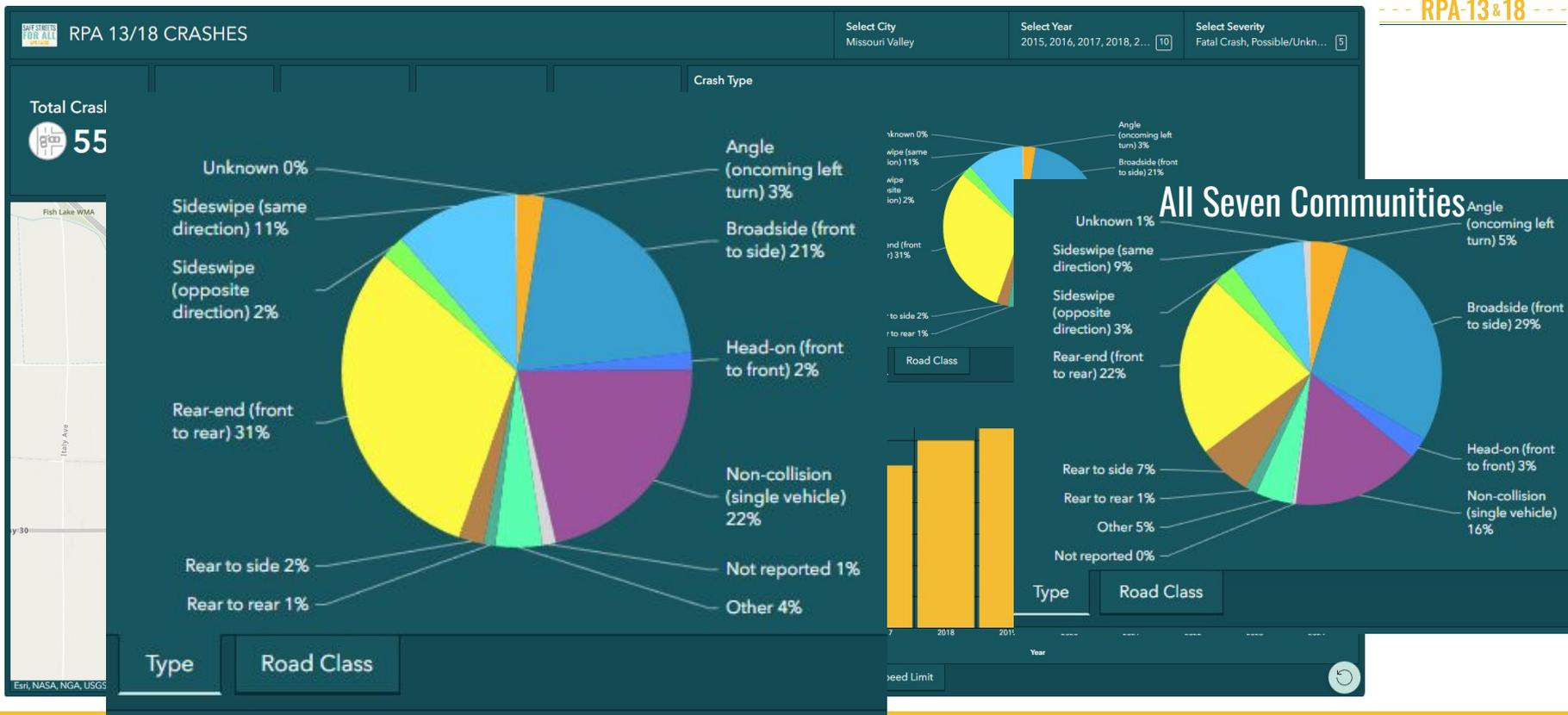
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Missouri Valley – Crash Summary

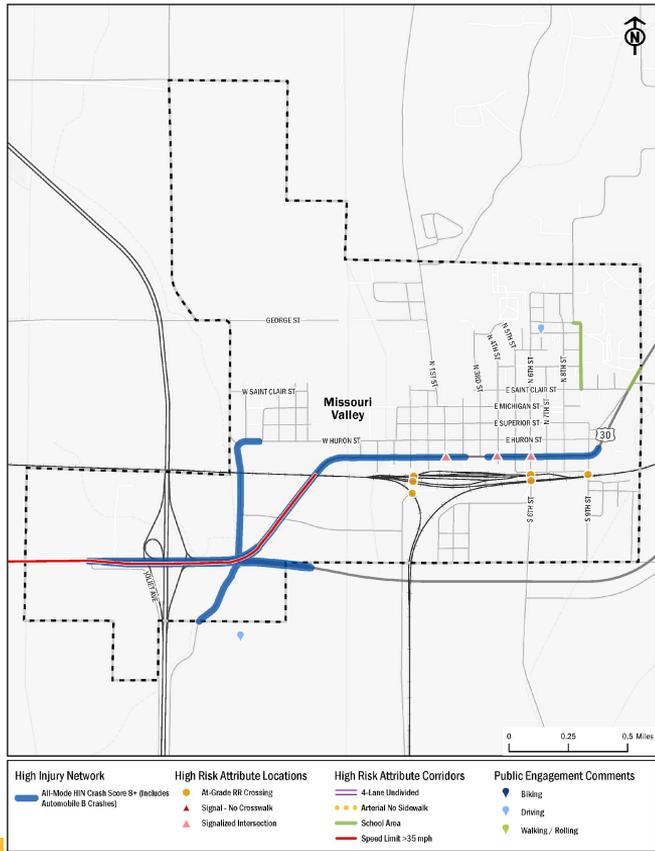


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Missouri Valley – Crash Summary



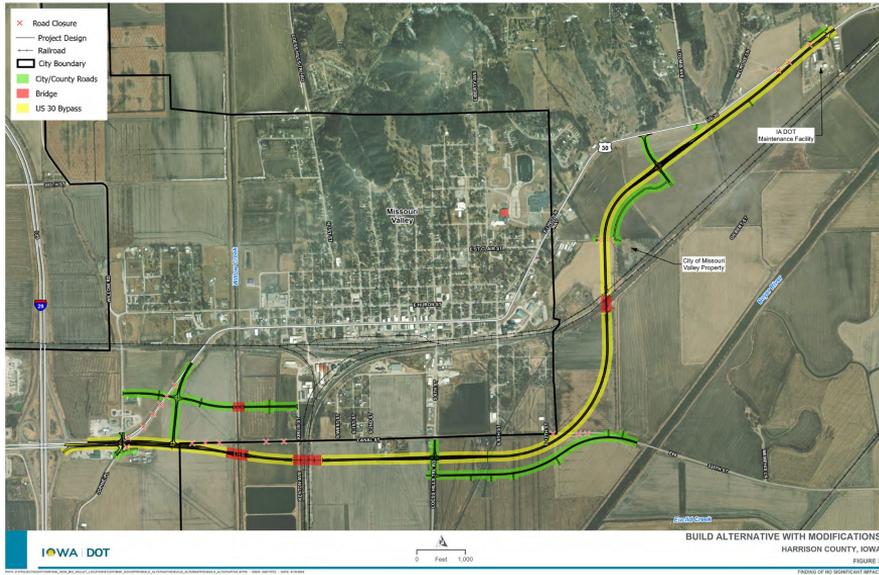
HPN and Priorities – Missouri Valley



- Construct US 30 Bypass
- Priorities:
 - Pedestrian visibility
 - Safe crossings
 - US 30 (Old 30?) freight management
- Assess “Old 30” Options through Town:
 - Lanes
 - Intersections (curb extensions)
 - Intersection control
- 4th Street Crosswalk:
 - Add Audible indication
 - Pavement markings
- 1st Street/6th Street:
 - Pavement markings
- 5th Street/Huron Street:
 - Add marked crosswalk (Culavin Heights)
- US 30 – Turn Lane at High School/Middle School Drive

HPN and Priorities – Missouri Valley

- Construct US 30 Bypass
- Priorities:
 - Pedestrian visibility
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- 1st Street/6th Street:
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- 5th Street/Huron Street:
 - Add marked crosswalk (Culavin Heights)
- US 30 – Turn Lane at High School/Middle School Drive



Red Oak – Crash Summary

RPA 13/18 CRASHES

Select City
Red Oak

Select Year
2015, 2016, 2017, 2018, 2... 10

Select Severity
Fatal Crash, Possible/Unkn... 5

Total Crashes

586

Fatal Crashes

3

Serious Crashes

10

Minor Crashes

42

Non-Motorist Crashes

7

Crash Type

Crash Type	Percentage
Broadside (front to side)	37%
Rear-end (front to rear)	19%
Non-collision (single vehicle)	12%
Head-on (front to front)	2%
Rear to rear	2%
Rear to side	8%
Sideswipe (opposite direction)	3%
Sideswipe (same direction)	9%
Angle (oncoming left turn)	3%
Other	2%
Not reported	0%
Unknown	2%

Severity

Locations

Type

Road Class

Vehicle Crashes

Year	Number of Crashes
2015	~65
2016	~65
2017	~55
2018	~65
2019	~50
2020	~40
2021	~55
2022	~55
2023	~55
2024	~55

Vehicle

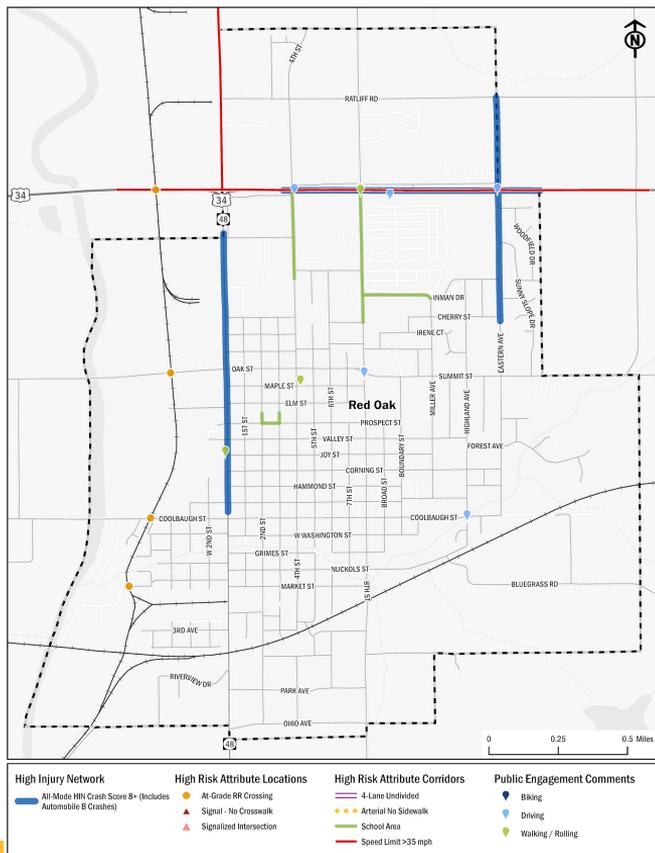
Non-Motorist

Speed Limit

Red Oak – Crash Summary



HPN – Red Oak



- **Crosswalks:**
 - Multiple locations on Highway 34
 - Highest priorities 4th Street and 8th Street
- **School Areas:**
 - Sidewalks - especially on North 4th Street
 - Sidewalk - 8th Street from Hwy 34 to Inman Drive
- **Recent Safety Improvement:**
 - East Coolbaugh Street/Highland Avenue - Stop Signs installed
- **US 34:**
 - Broadside/Rear-end crashes – Reduce speed/add signal

Shenandoah – Crash Summary

RPA 13/18 CRASHES

Select City
Shenandoah

Select Year
2015, 2016, 2017, 2018, 2... 10

Select Severity
Fatal Crash, Possible/Unkn... 5

Total Crashes

408

Fatal Crashes

1

Serious Crashes

13

Minor Crashes

33

Non-Motorist Crashes

7

Crash Type

Severity | **Locations** | **Type** | **Road Class**

Vehicle Crashes

Year	Number of Crashes
2015	55
2016	45
2017	35
2018	52
2019	53
2020	34
2021	46
2022	36
2023	30
2024	28

Vehicle | **Non-Motorist** | **Speed Limit**

Esrri, NASA, NGA, USGS, FEMA | Iowa DNR, Nebraska Game & Parks Commission, Esrri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METU/NA... Powered by Esrri

Shenandoah – Crash Summary

SAFE STREETS FOR ALL RPA 13/18 CRASHES

Select City: Shenandoah | Select Year: 2015, 2016, 2017, 2018, 2019 | Select Severity: Fatal Crash, Possible/Unkn...

Total Crashes: 408 | Fatal Crashes: 1 | Serious Crashes: 13 | Minor Crashes: 33 | Non-Motorist Crashes: 7

Crash Type

Crash Type Data:

- Unknown 0%
- Sideswipe (same direction) 11%
- Sideswipe (opposite direction) 2%
- Rear-end (front to rear) 27%
- Rear to side 4%
- Rear to rear 1%
- Other 7%
- Angle (oncoming left turn) 4%
- Broadside (front to side) 25%
- Head-on (front to front) 4%
- Non-collision (single vehicle) 14%
- Not reported 0%

All Seven Communities

All Seven Communities Data:

- Unknown 1%
- Sideswipe (same direction) 9%
- Sideswipe (opposite direction) 3%
- Rear-end (front to rear) 22%
- Rear to side 7%
- Rear to rear 1%
- Other 5%
- Not reported 0%
- Angle (oncoming left turn) 5%
- Broadside (front to side) 29%
- Head-on (front to front) 3%
- Non-collision (single vehicle) 16%

Year: 2018, 2019

Type: Road Class

Speed Limit

HPN and Priorities – Shenandoah



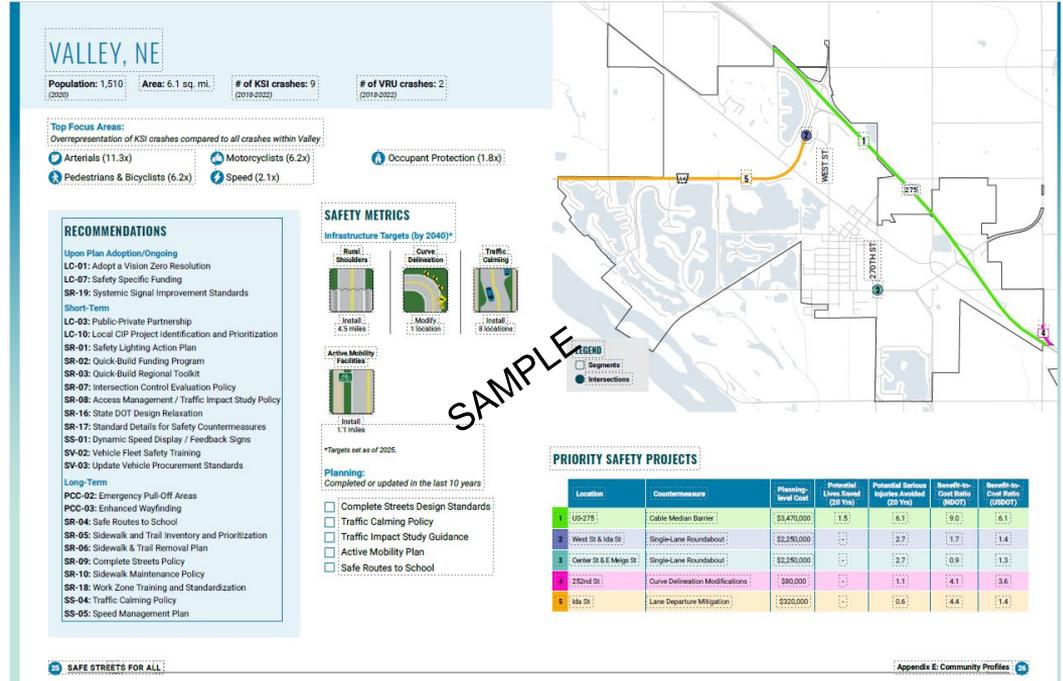
- Intersection of Fremont Street/Nishna Road
- Fremont Street Access at Walmart
- SW Road
- Nishna Road

Group Discussion

- What were the Primary Topics?
- Actions proposed include?

Wrap-Up

- Continued Review – Countermeasures
- Create Profile for each Community



MAPA Safety Targets and SS4A Planning Updates

STAG MEETING 3
February 10, 2026

