

UPPER MACUNGIE TOWNSHIP

VISION ZERO ACTION PLAN

Public Meeting #4 (Final) – May 2, 2023

Please note this presentation is being recorded.

During the presentation feel free to type questions in the Q&A box. We will answer question during the Q&A session after the presentation.

Agenda

1. From *Trail Connectivity & Walkability Plan*to *Vision Zero Action Plan*

- Summary of Analysis & Improvement Plans
- Contents of Report
- Probable Cost Estimates
- Recommendations

2. Next Steps

3. Discussion/ Questions

Project Committee

Thank You....!

Jenna Azar

Anitha Baru

Michael Beidler

Janet Bushinsky

Byron (Barney) Cook

Steve Crampton

Courtney David

Amir Famili

Karen Fitzpatrick

Kerri Green

John Helfrich

Tim Helmer

Scott Johnson

Surech Jonnalagadda

Matthew Joseph

Craig Kauffman

Thomas Male

Mandy Marquardt

Gwen McCurdy

Paul McNemar

Gail Micca

Tricia Mohr

Abigail Pasterski

Bradley Reese

Meg Schlauch

Yvonne Schweighardt

Janet Schultz

Lora Spangler

Christopher Strohler

Christopher Svetcov

Jennine Thomas

Expanded Project Schedule

- 4 Public meetings
- 7 Committee meetings
- 18 Total Key Person Interviews
- 4 Township Staff meetings

| Task / Event : <i>Upper Macungie Township Vision Zero Action Plan</i> | 2022 | 2023 | | | | |
|--|------|------|-----|-----|-----|-----|
| | Dec | Jan | Feb | Mar | Apr | May |
| Review of technical reqt's for Action Plan (SS4A Grants) | | | | | | |
| Safety Analysis-Baseline Analysis | | | | | | |
| Demographics/ ACT analysis/ LANTA Coordination/ Justice40 Criteria | | | | | | |
| Policy Recommendations for long-term Action Plan Program; long-term Action Plan Committee; Vision Zero policy goals; supporting ordinance modifications; monitoring plan | | | | | | |
| Coordination Meetings (7) | | | | | | |
| Police; 4-major employers; LANTA; UMT Staff | | | | | | |
| Meetings: UMT Planning Commission (2) | | | | | | |
| Funding Strategy / Implementation Strategy | | | | | | |
| Draft Revisions to TC&WP Plan & Report - Vision Zero Action Plan | | | | | | |
| Thirty (30) day draft plan review | | | | | | |
| Revisions to create final plan | | | | | | |
| Draft Plan + 30 day review | | | | X | | |
| Final Plan | | | | | X | |
| Committee Meetings: <i>Upper Macungie Township Vision Zero Action Plan</i> | | | | | | |
| Committee Meeting #6 - VZAP Update + Review of Plan Priorities | | | X | | | |
| Committee Meeting #7 - Final plan edits/revisions | | | | | X | |
| Public Meetings | | | | | | |
| Public Meeting #4: Final <i>Upper Macungie Township Vision Zero Action Plan</i> Presentation - May 2, 2023 | | | | | | X |



*Trail Connectivity & Walkability
Plan....to*

VISION
ZERO

ACTION
PLAN

An aerial photograph of a town, likely Upper Macungie, Pennsylvania, showing residential areas, commercial buildings, and green spaces. A semi-transparent blue rectangular box is centered over the image, containing text. The background shows a mix of houses, streets, and larger industrial or commercial structures under a blue sky with scattered white clouds.

Why?
*Expanded opportunities for
Design & Implementation
funds!*

An aerial photograph of a suburban town, likely Upper Macungie, Pennsylvania. The image shows a mix of residential housing, a large golf course, and commercial buildings. The sky is blue with scattered white clouds. The overall scene is captured from a high angle, providing a comprehensive view of the town's layout and surrounding landscape.

Analysis & Improvements Plans

Review of the Process

Need Identified

Upper Macungie Township Comprehensive Plan; LVPV

Public Input

Public Opinion Survey; Wikimap input; 15 Stakeholder Meetings; 7-Committee Meetings; 5 Public Meetings

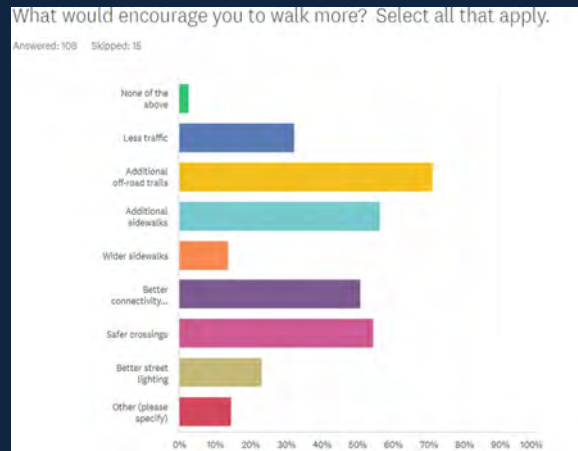
'Toolbox' of Improvement Concepts

Site Verification

Township drive-throughs; full day Township bike ride; meetings with Committee members

Analysis/ Design Guidance

Key Stakeholders



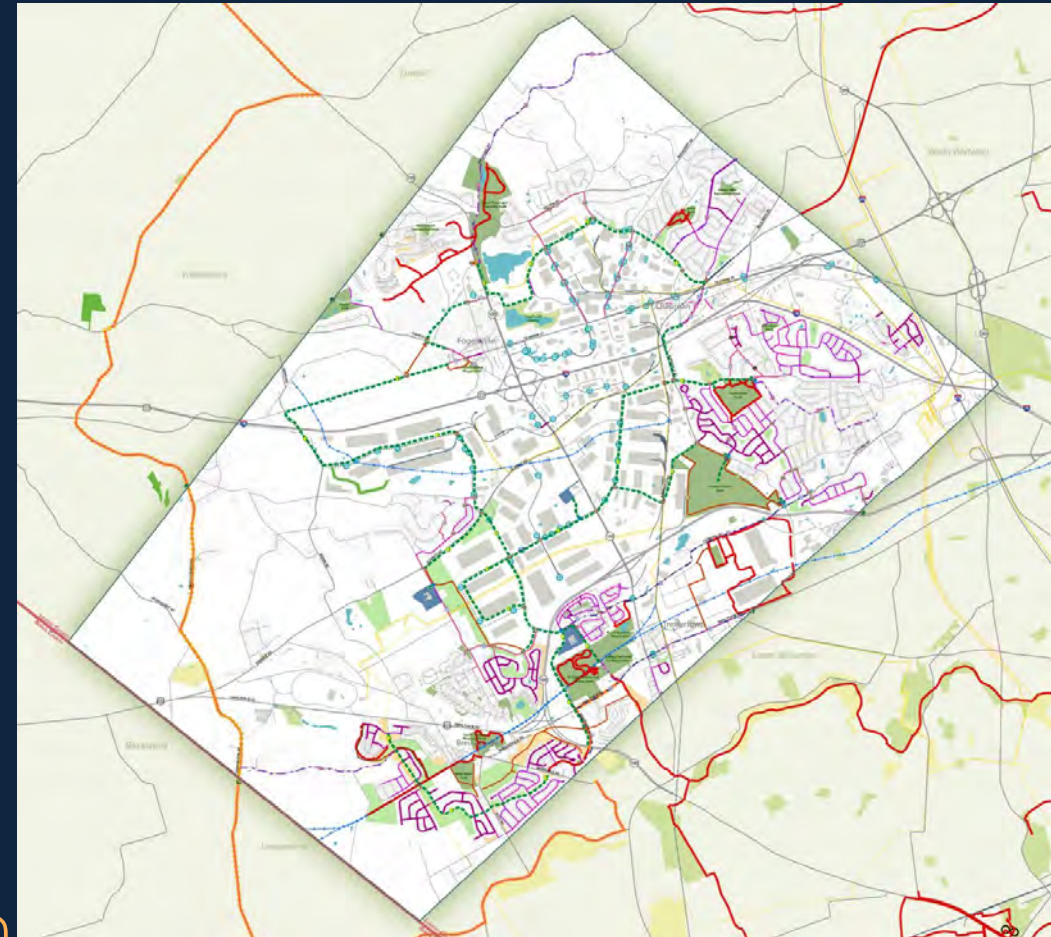
Improvements Analysis

Improvement Toolbox



- 1.Sidewalk
- 2.Crosswalk
- 3.Special Crossing
- 4.Speed Cushion
- 5.ADA Curb Ramp
- 6.Rapid Flashing Beacon
- 7.Hand Man
- 8.Pedestrian Refuge Island
- 9.Stormwater Management BMP
- 10.Multi-Use Trail
- 11.Sharrow
- 12.Bicycle Lane
- 13.Bicycle Box
14. Bump Out / Curb Extension
15. Pedestrian Bridges (Small and Large)

Improvements Plan



Implementation Funding Opportunities

Bipartisan Infrastructure Law (BIL/ IIJA) 2021

- \$4 Billion – Over the next four years to US DOT...*equity, sustainability, resilience, safety emphasis*
- Minimum implementation grants: *Minimum \$2.5M Maximum \$30M*
- Required Local Match: 20%



Action Plan Components

• **Action Plan**



- Leadership Commitment/ Goal Setting
- Planning Structure
- *Safety Analysis*
- Engagement & Collaboration
- *Equity Considerations*
- *Policy and Process Changes*
- Strategy and Project Selections
- Progress & Transparency

Upper Macungie Vision Zero Action Plan

What are 'Complete Streets'...?

Complete Streets is an approach to planning, designing and building streets that enables safe access for all users, including pedestrians, bicyclists, motorists and transit riders of all ages and abilities. This approach also emphasizes the needs of those whose needs have not been met through a traditional transportation approach, such as older adults, people living with disabilities, people who don't have access to vehicles, and Black, Native, and Hispanic or Latino/a/x communities.

---from National Complete Streets Coalition



Upper Macungie Vision Zero Action Plan

What is 'Vision Zero'...?

Vision Zero is a strategy to eliminate all traffic fatalities and severe injuries while increasing safe, healthy, equitable mobility for all.

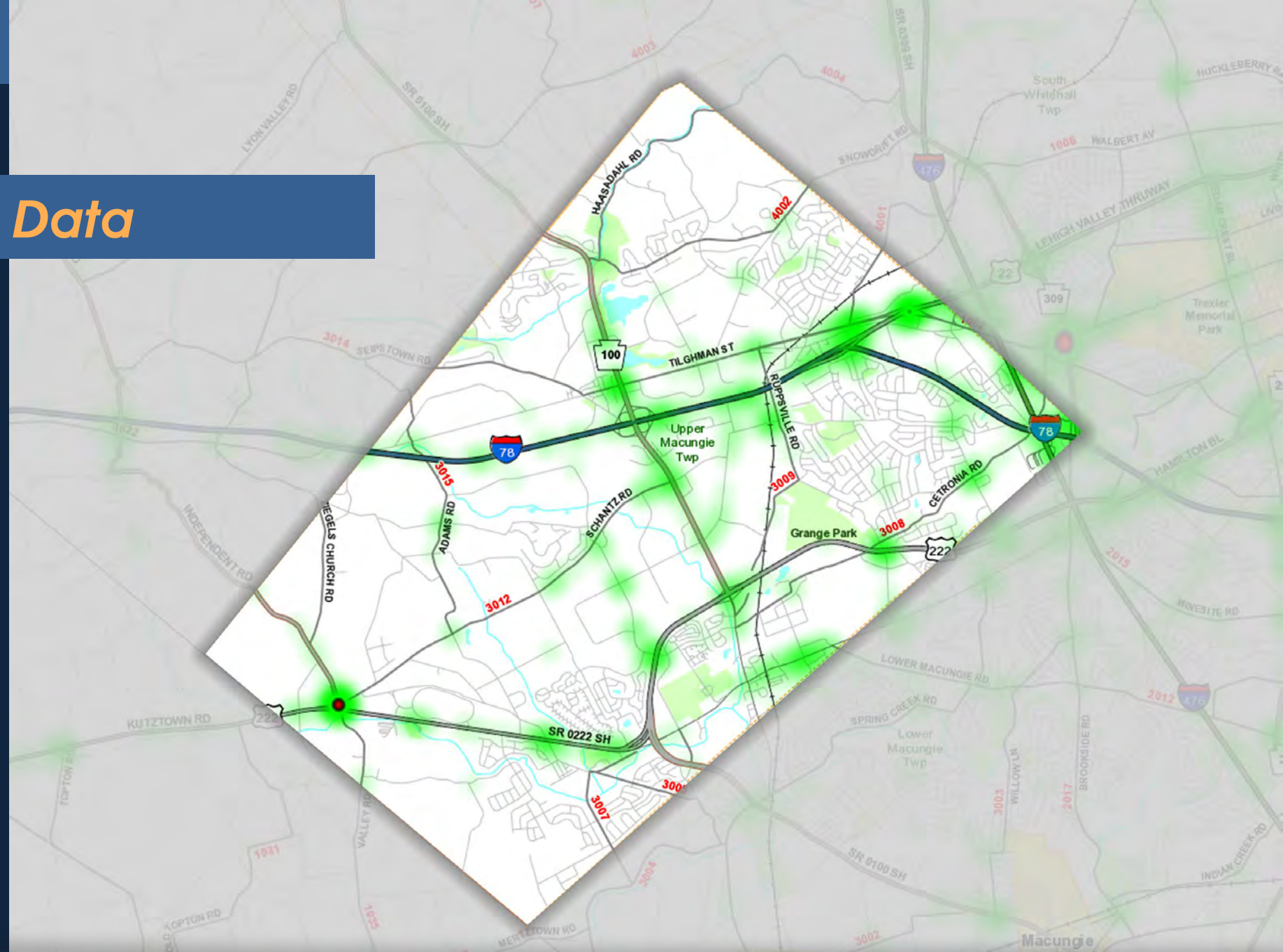
---from Vision Zero Network

Safe Systems = Safe Mobility

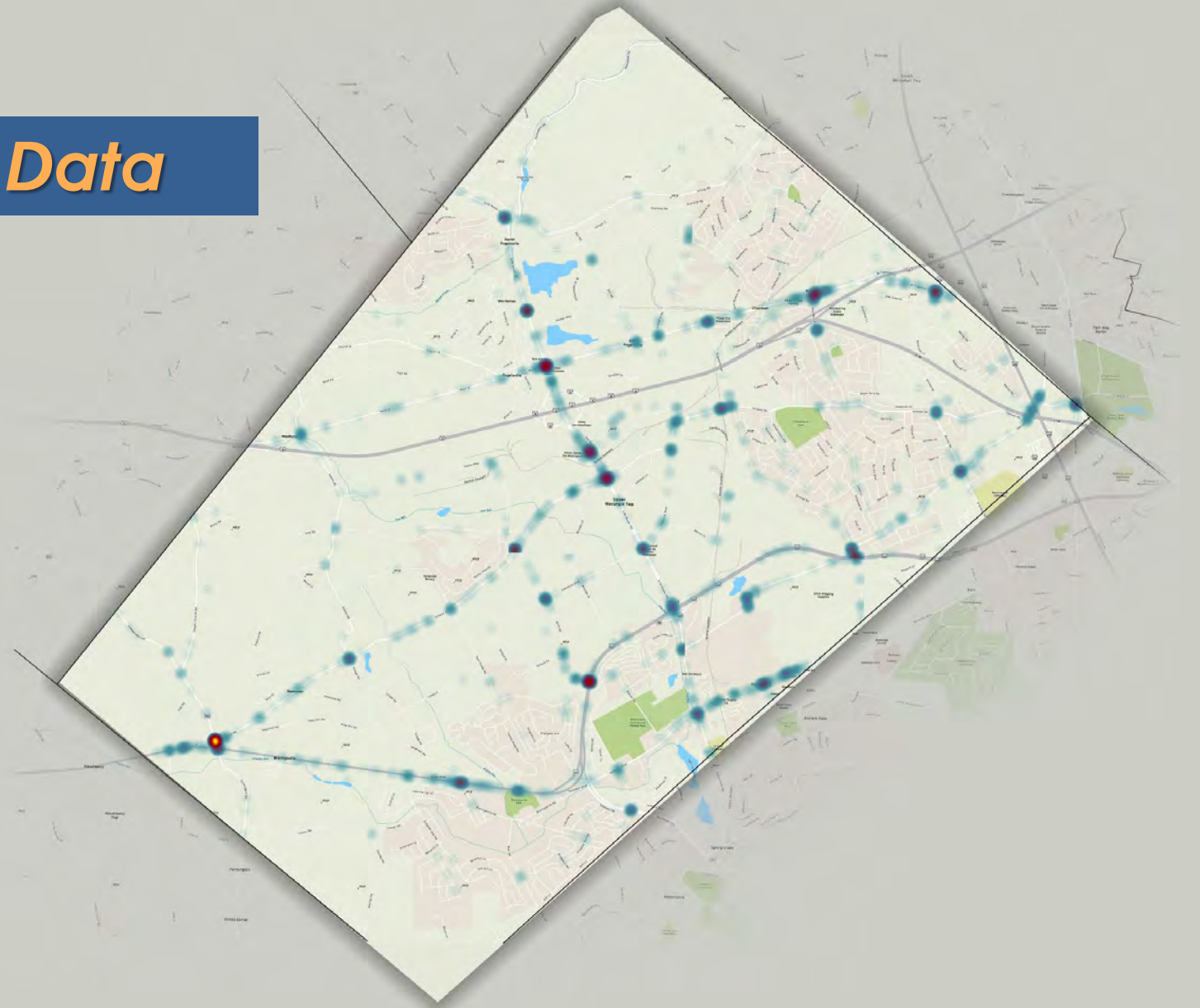


Safety Analysis

PennDOT 5-0 Crash Data



Upper Macungie Crash Data



How do our Proposed Improvements Align with the Crash Data...?

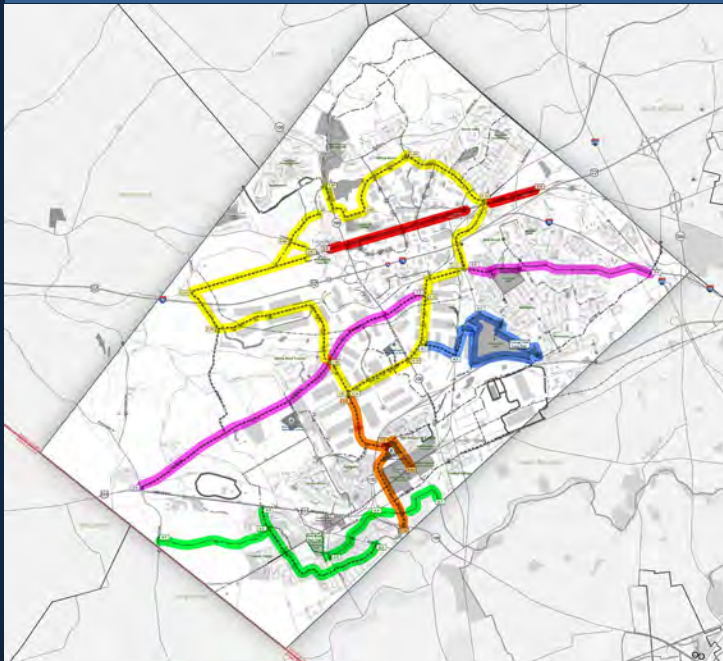


Safety Corridors

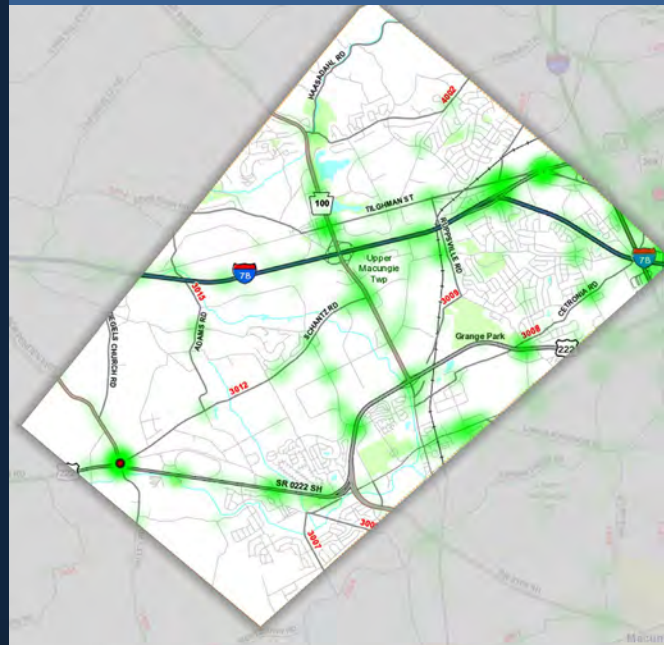
6 Designated Corridors

- Core Sidepath Loop
- Tilghman St
- Schantz Rd
- Grange Park
- Trexler Road
- Grim Road/ Rodale Cycling & Fitness Park

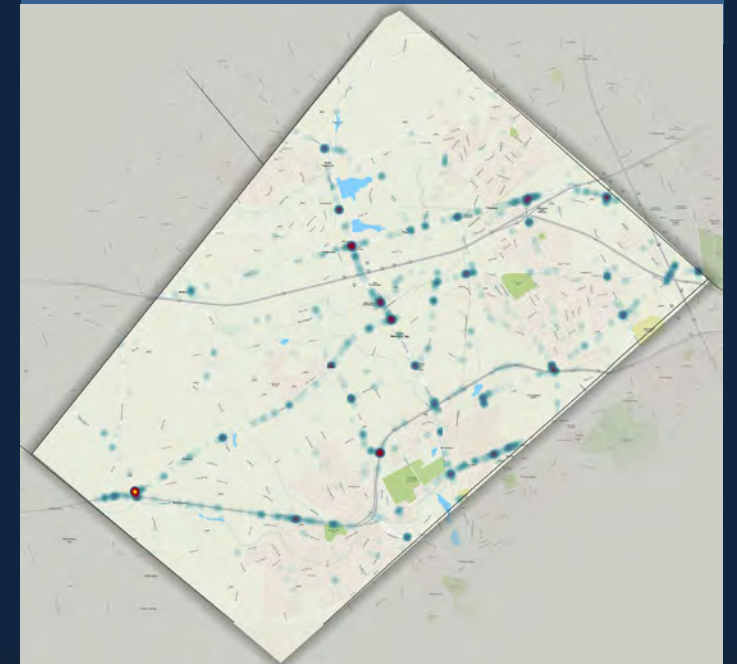
Corridors (Cost Estimate)



PennDOT 5-0 Crash Data



Upper Macungie Crash Data





Report Contents



Upper Macungie Vision Zero Action Plan

Final Report: 8 Chapters + Appendix

1. PLEDGE & COMMITMENT

Letter from Board of Supervisors

What is *Vision Zero*?

What are *Complete Streets*?

2. EXECUTIVE SUMMARY

3. EXISTING CONDITIONS & ANALYSIS

A. Overview & Township Context

B. Existing Planning Documents Review

C. Data

D. Public Participation

- a. Steering Committee
- b. Public Opinion Survey
- c. Wikimapping Input
- d. Key Person Interviews
- e. Public Meetings
- f. Additional Equity/Safety Outreach



Upper Macungie Vision Zero Action Plan

Final Report: 8 Chapters + Appendix

4. POLICY RECOMMENDATIONS

A. Township Policy & Ordinance Review

B. Ordinance Recommendations

Chapter 3: Bicycles

Chapter 10: Health & Safety

Chapter 15: Motor Vehicles & Traffic

Chapter 21: Streets & Sidewalks

Chapter 22: SALDO

Chapter 27: Zoning

5. EQUITY

A. Geographic

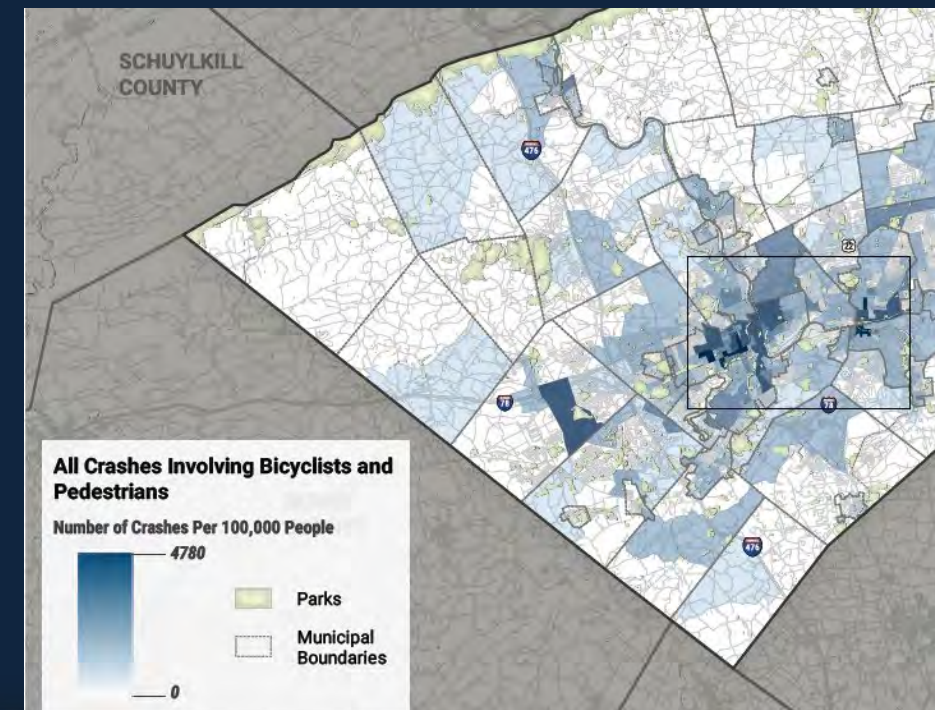
B. Socioeconomic

C. Age & Ability

6. SAFETY

A. Safety Analysis

Motor Vehicle Accident Data



Upper Macungie Vision Zero Action Plan

Final Report: 8 Chapters + Appendix

7. MULTIMODAL SAFETY IMPROVEMENT RECOMMENDATIONS

- A. Multimodal Safety Improvements Plan
 - Safety & Connectivity 'Toolbox'
 - Design & Acquisition Guidance
 - *Multimodal Safety Improvements Plan*
- B. Confirming Attention to Safety and Equity
- C. Probable Cost Estimate of Improvements Plan

8. PLAN OF ACTION/ IMPLEMENTATION

- A. Recommendations
- B. Priority Improvements Plan
- C. Priorities
- D. VZAP Matrix: Metrics for Tracking Progress

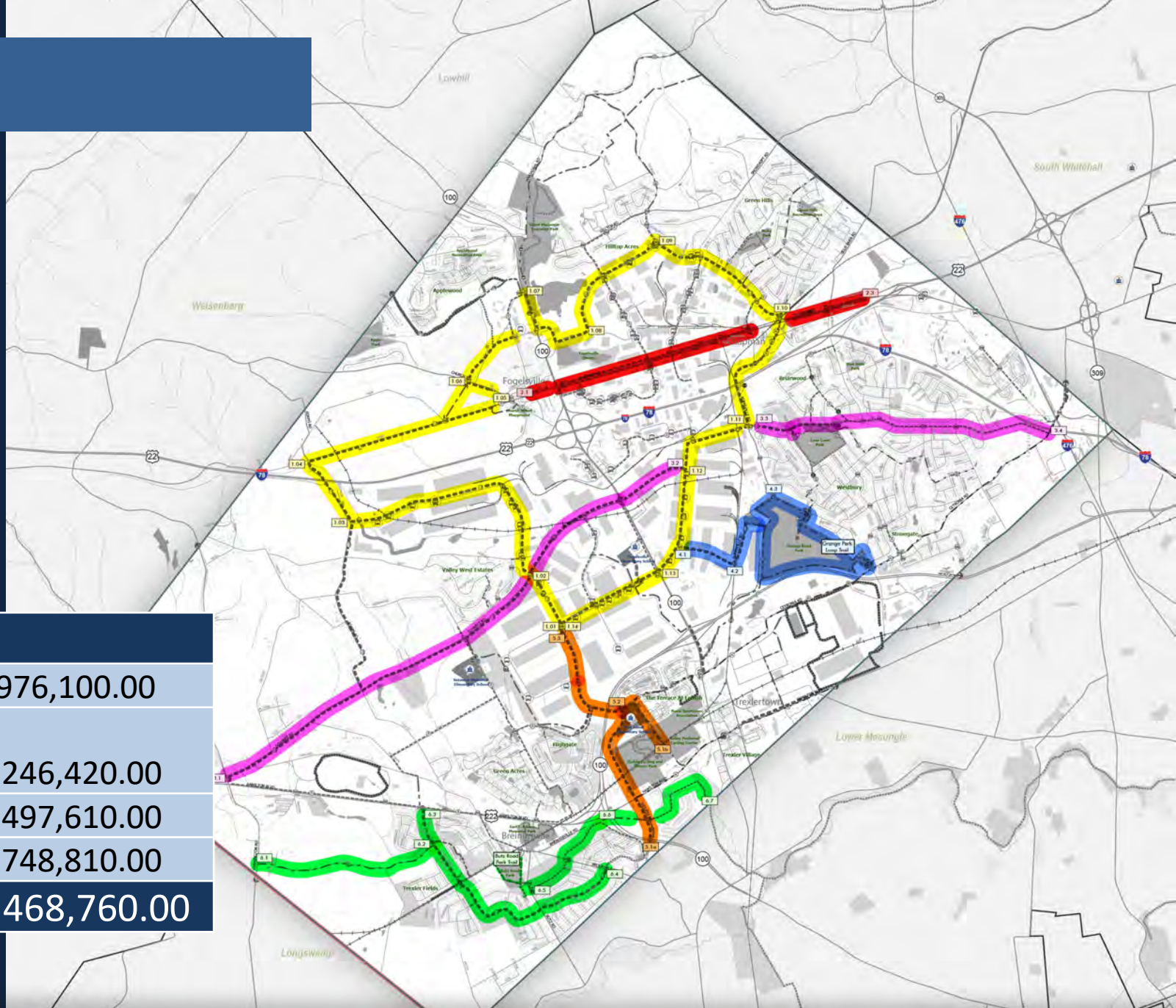
An aerial photograph of a suburban town, showing residential neighborhoods, a golf course, and commercial areas. The image is overlaid with a semi-transparent blue band across the middle, which contains the title text. The top portion of the image shows a wide, flat landscape under a blue sky with scattered white clouds.

Probable Cost Estimates

Probable Costs: Corridors

- 6 Designated Corridors

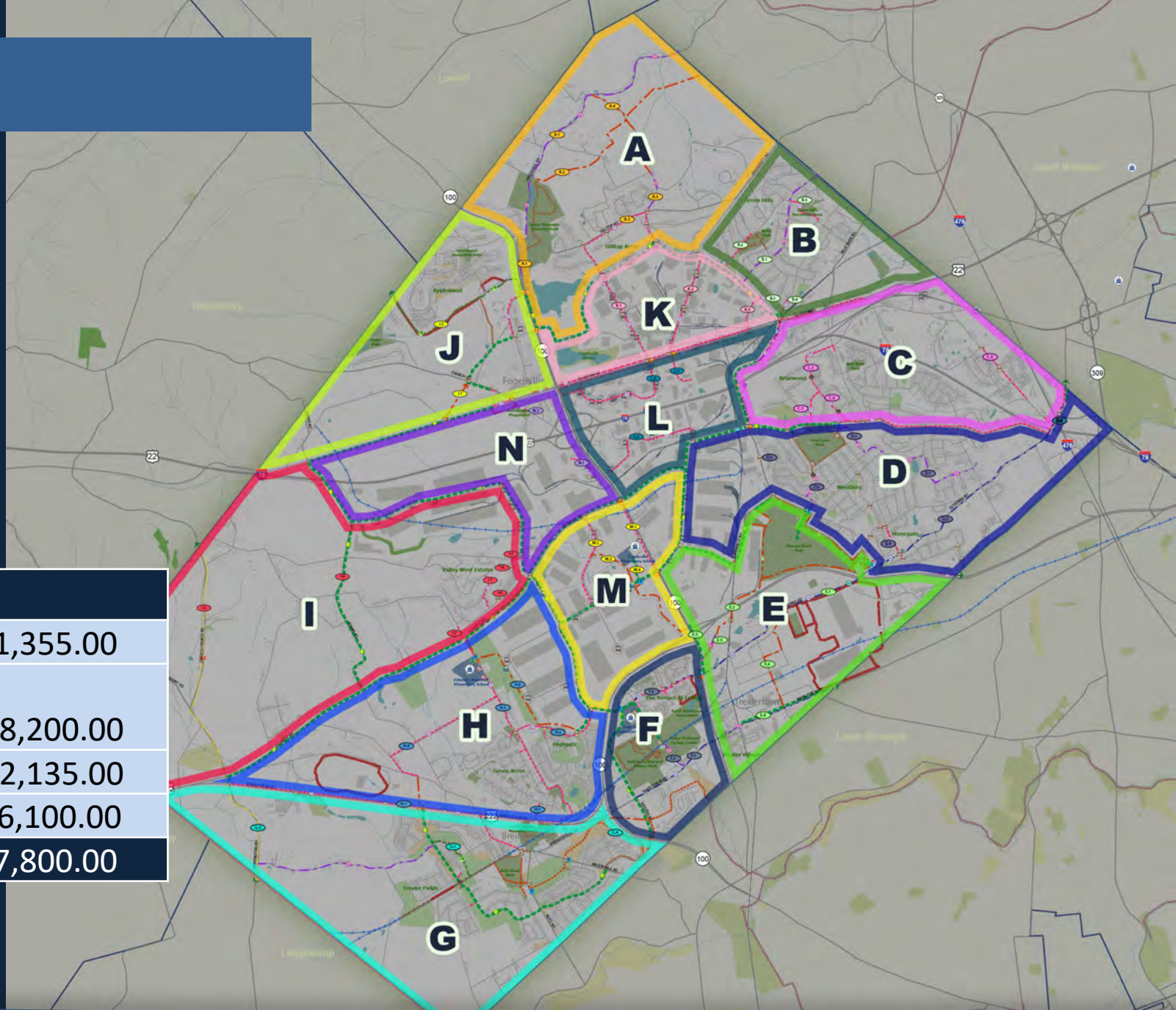
- Core Sidepath Loop
- Tilghman St
- Schantz Rd
- Grange Park
- Trexler Road
- Grim Road/ Rodale Cycling & Fitness Park



| | | |
|----------------------------|-----------|----------------------|
| Corridors: | | |
| Subtotal | \$ | 34,976,100.00 |
| Design + Engineering (15%) | \$ | 5,246,420.00 |
| Contingency (10%) | \$ | 3,497,610.00 |
| Mobilization (5%) | \$ | 1,748,810.00 |
| TOTAL: | \$ | 45,468,760.00 |

Probable Costs: Areas

- All other improvements outside of Corridors
On-road and off-road improvements

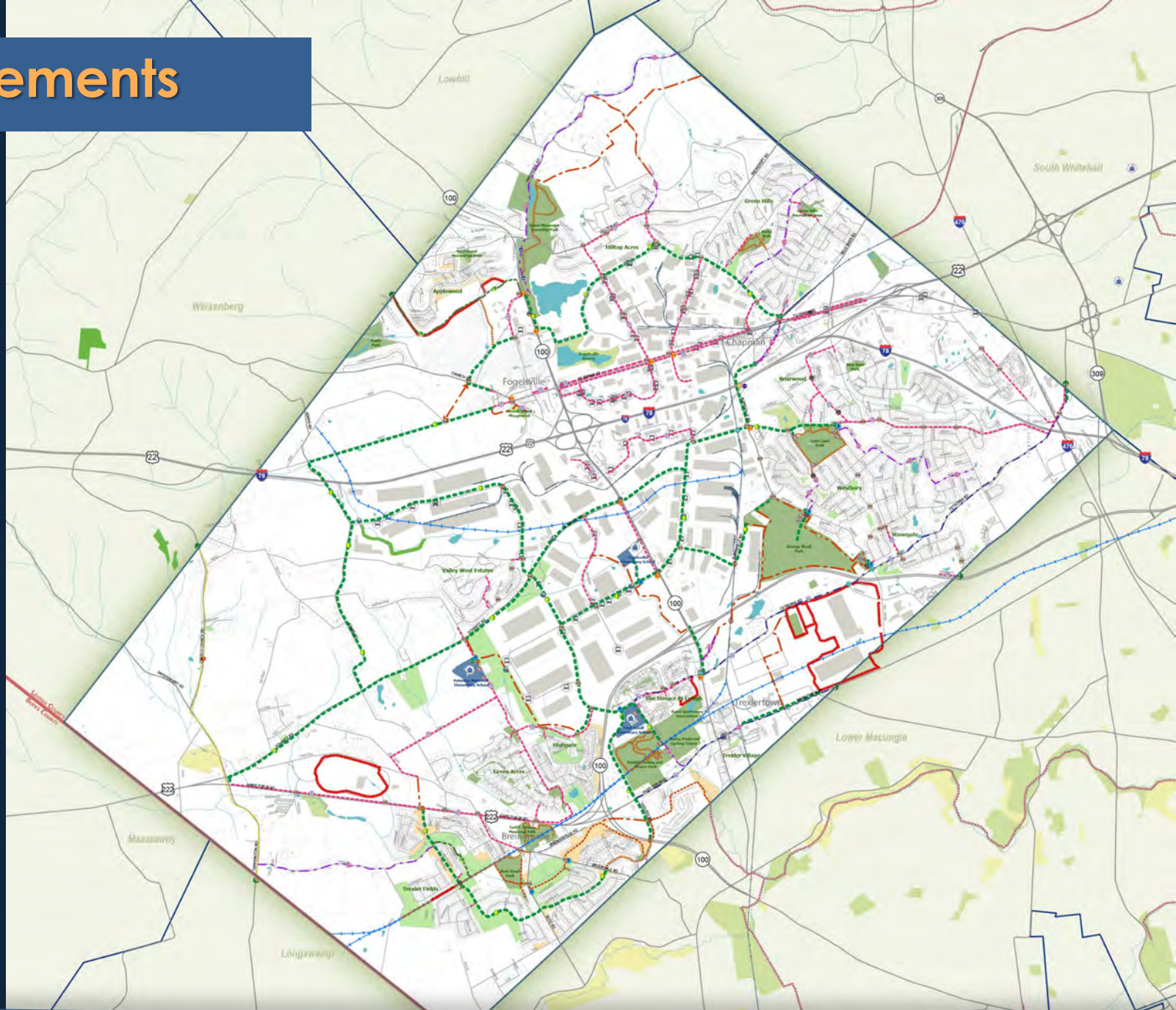


| Cost Areas | |
|----------------------------|-------------------------|
| Subtotal: | \$ 10,921,355.00 |
| Design + Engineering (15%) | \$ 1,638,200.00 |
| Contingency (10%) | \$ 1,092,135.00 |
| Mobilization (5%) | \$ 546,100.00 |
| TOTAL: | \$ 14,197,800.00 |

Probable Costs: All Improvements

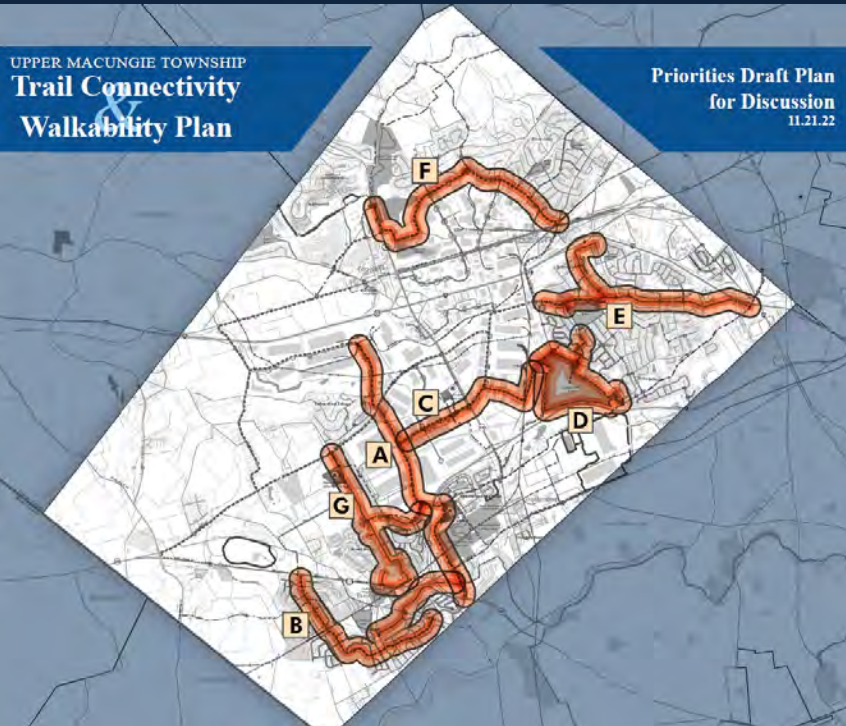
Corridors + Areas

(2023 Dollars):
\$59,666,600

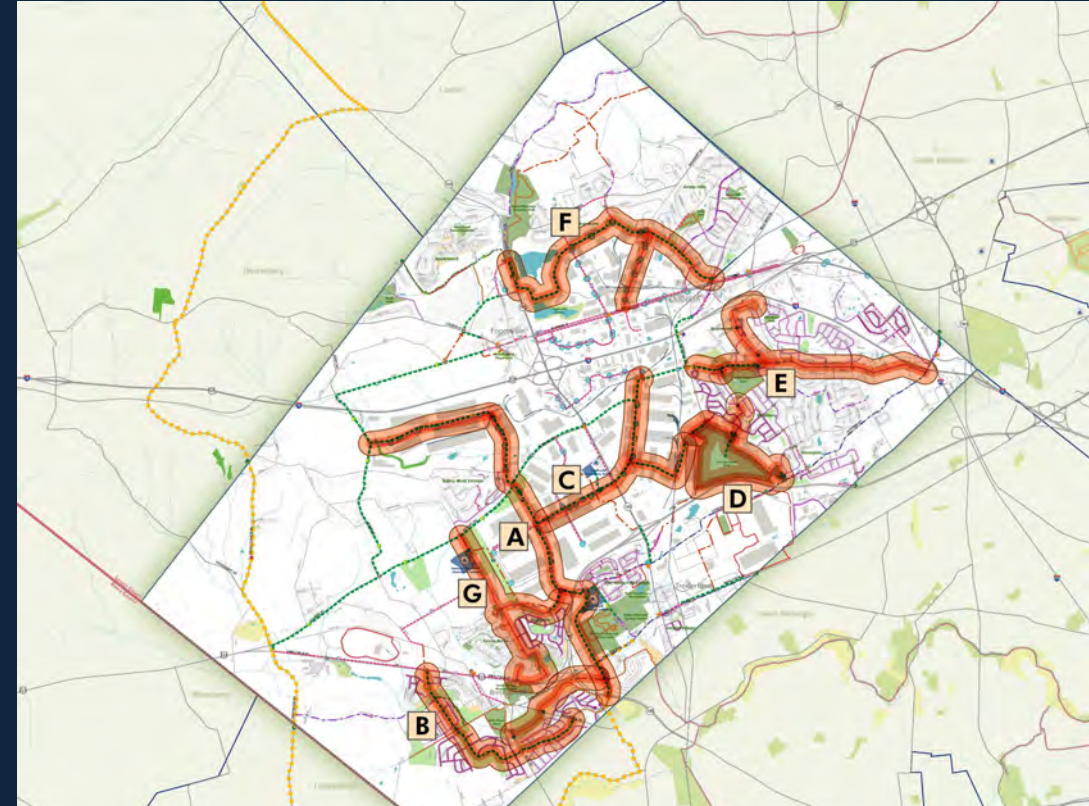


Upper Macungie Vision Zero Action Plan

Priority Improvements Plan



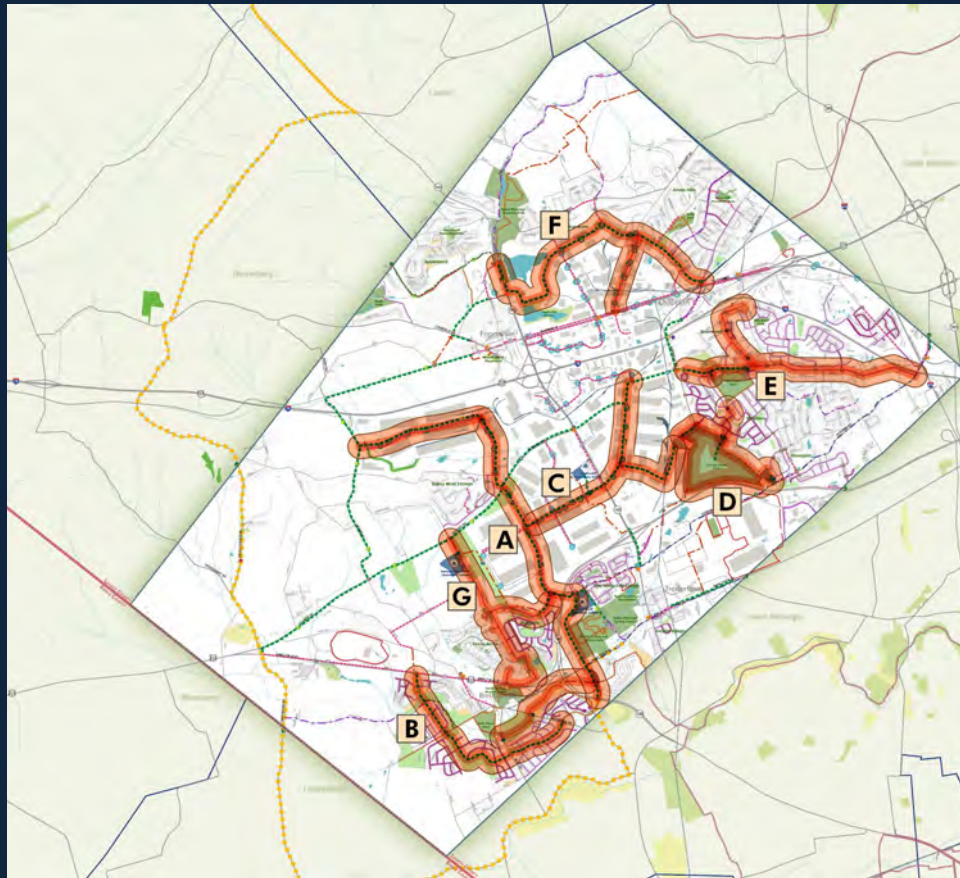
Original Priority Improvements Plan



REVISED Priority Improvements Plan

Upper Macungie Vision Zero Action Plan

Priority Improvements Plan: Updated Costs



| Priority Improvements Corridors | Item Description | Total Item Amount |
|---|--|-----------------------|
| A: Corridor 1 (Segments 1.01-1.03) and Corridor 5 (Segments 5.1-5.3) | | |
| Segment 1.1-1.2 | <i>Grim Rd.</i> | \$901,600.00 |
| Segment 1.2-1.3 | <i>Nestle Way</i> | \$2,229,300.00 |
| Segment 5.1a-5.2 | <i>Weilers Rd.</i> | \$1,095,500.00 |
| Segment 5.2-5.3 | <i>Grim Rd.</i> | \$2,883,100.00 |
| | | \$7,109,500.00 |
| B: Corridor 6 (Segments 6.2-6.3) | | |
| Segment 6.3-6.4 | <i>Schaefer Run Rd. from Hamilton Blvd. to Brookdale Rd.</i> | \$2,409,600.00 |
| | | \$2,409,600.00 |
| C: Corridor 1 (Segments 1.12-1.14) and Corridor 4 (Segments 4.1-4.3) | | |
| Segment 1.12-1.13 | | \$2,760,000.00 |
| Segment 1.13-1.14 | | \$1,804,300.00 |
| Segment 4.1-4.2 | | \$519,300.00 |
| Segment 4.2-4.3 | | \$590,300.00 |
| | | \$5,673,900.00 |
| D: Corridor 4 (Grange Park and Connections) and Improvements from Area D | | |
| Grange Park Loop Trail | <i>Grange Park</i> | \$3,009,500.00 |
| Cost Area D: D.2 | <i>From Grange Road Park to Lone Lane Park</i> | \$15,400.00 |
| | | \$3,024,900.00 |
| E: Corridor 3 (Segments 3.3-3.4) and Improvements from Area C | | |
| Segment 3.3-3.4 | | \$774,400.00 |
| Area C: C.2 | | \$69,950.00 |
| | | \$844,350.00 |

| | | |
|---|-----------------------|-----------------------|
| F: Corridor 1 (Segments 1.07-1.10) | | |
| Segment 1.07-1.08 | | \$726,300.00 |
| Segment 1.08-1.09 | | \$901,300.00 |
| Segment 1.09-1.10 | | \$1,068,100.00 |
| Area K: K.2 | | \$53,900.00 |
| | | \$2,749,600.00 |
| G: Cost Area H | | |
| Improvement H.1 | <i>Twin Ponds Rd.</i> | \$108,000.00 |
| Improvement H.2 | <i>H.2 Mosser Rd.</i> | \$280,500.00 |
| | | \$388,500.00 |

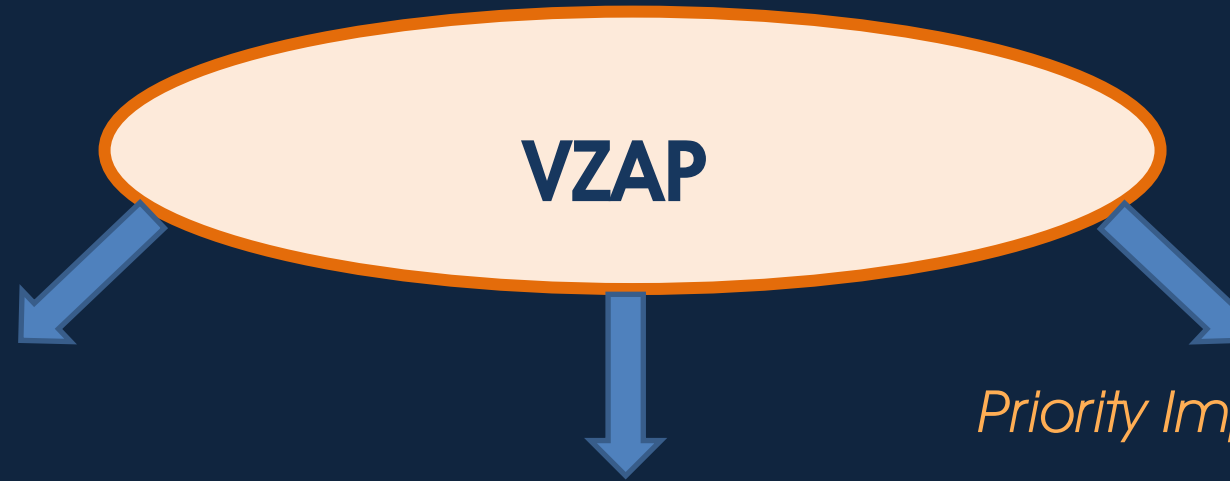


VZAP Plans

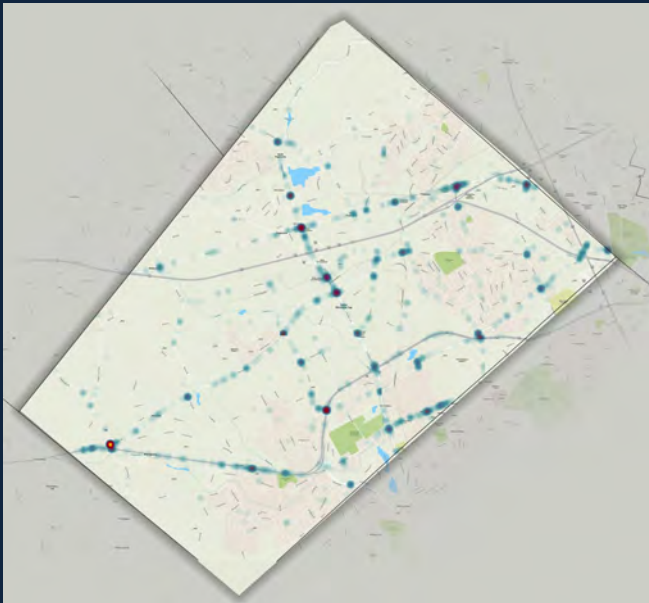


Upper Macungie Vision Zero Action Plan

Final Report: Plans



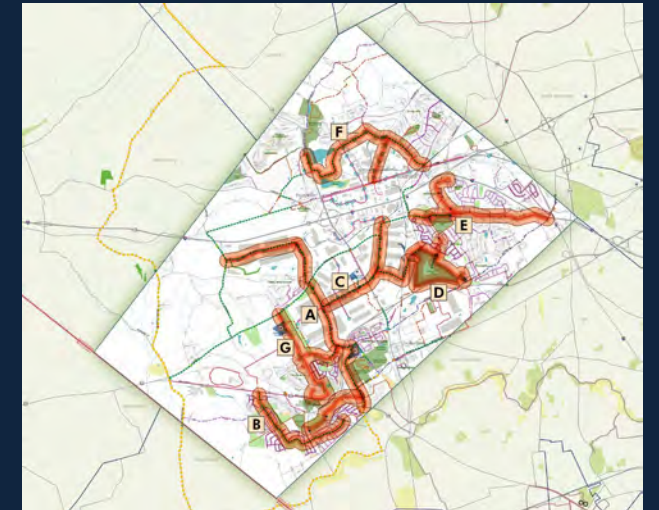
UMT Crash Data Map



Multimodal Safety Improvements Plan



Priority Improvements Plan





Recommendations



Recommendations

Overall VZAP Recommendations

1. Adoption of Complete Streets Policy
2. Adoption of Vision Zero Policy
3. Adoption of VZAP
4. Inclusion of *Multimodal Safety Improvements Plan* into Township 'Official Map'

Upper Macungie Vision Zero Action Plan

Recommendations

Multimodal Safety Improvements Plan Recommendations



1. Acquisition & Design Recommendations
2. Implementation strategies (agreements, easements, etc.)
3. Inclusion of Complete Streets design standards in SALDO
4. VZAP Checklist for development applications.

Recommendations

Other Recommendations

1. Coordination of *Improvements Plan* elements into annual streets maintenance projects.
2. Township detailed study of traffic calming options for high crash areas.
3. Education initiatives for residents
4. Education initiatives with Parkland School District
5. Engagement of Corporate/Facilities managers and solicitation of corporate involvement



Next Steps

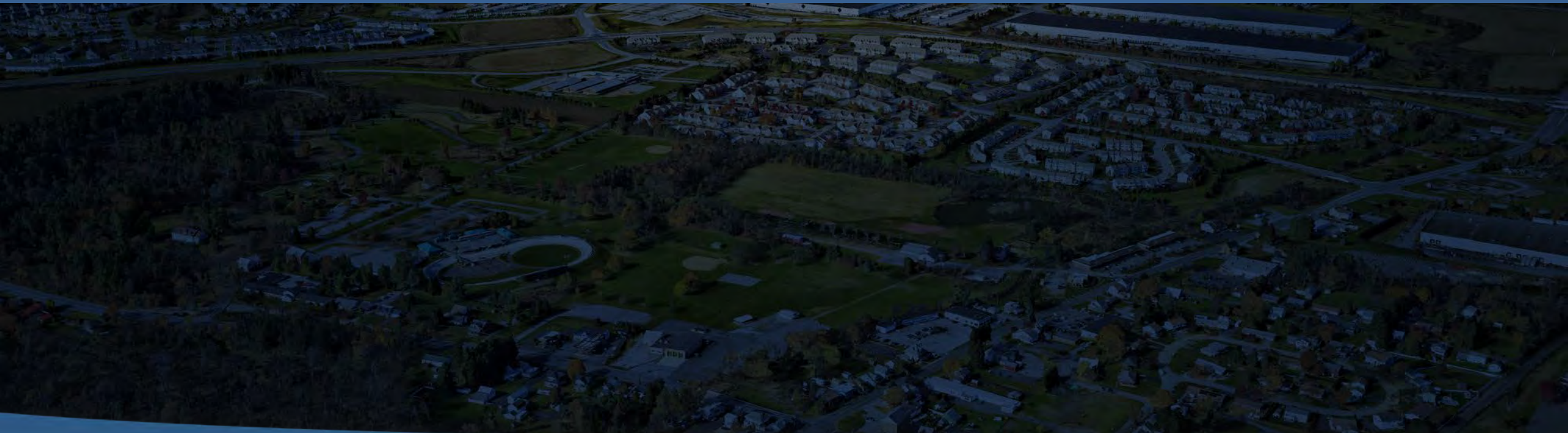


Next Steps

1. Coordination with UMTPD & Planning/ Engineering Staff on Final Report Contents
2. Adoption of Complete Streets & Vision Zero Policies
3. Adoption of VZAP
4. SS4A Grant Application due July 10, 2023.
DCED MTF Grant Application Due July 31, 2023



Discussion



Project Consultants

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