



# TRANSPORTATION CAPITAL IMPROVEMENT

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**Caryn Champine**, Director of Planning, Development & Transportation

**Brad Buckman**, City Engineer

**Dana Hornkohl**, Capital Projects Manager

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Do Councilmembers support the draft methodology, criteria, prioritization, and findings for TCI?

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Do Councilmembers have any questions or feedback on the following specific areas of focus:

- **Criteria Selection**
- **Alignment with Goals**
- **Draft Prioritized List/Dashboard**



## What is the TCI?

It is a tool that prioritizes the City's various transportation infrastructure investments using criteria aligning with the City's strategic goals and objectives.



[arcgis.com/apps/dashboards/487a19faef3948c2916d68b5445098fc](https://arcgis.com/apps/dashboards/487a19faef3948c2916d68b5445098fc)



**Increased Safety** alignment with Vision Zero – zero deaths or serious injuries while traveling on Fort Collins streets by 2032.



**Supports mode shift goals** to further the Active Modes Plan and Strategic Trails Plan – 50% active modes share of all trips by 2032.



**Better environmental outcomes** with decreased congestion, mode shift to active modes, and sustainable design – supports Our Climate Future.





**Transportation infrastructure needs incorporated** into community, equity and environment – alignment with City Plan and Strategic Plan



**2024 STRATEGIC PLAN**



**Supports future BRT planning** and aligns with Transit Master Plan



## Council/Board Discussion and Feedback

- Transportation Capital Projects Prioritization Study, August 22, 2023
- 15-Minute City Context and Work Plan Progress, August 13, 2024
- Local Legislative Affairs Committee, November 22, 2024
- Draft Final Report and Tool Release, January 14, 2025
- Transportation Board, early 2025

## Project Development

- Olsson Associates
- April 2024 Kickoff
- Bi-Weekly Meetings



# Overlapping Council Priorities

## 2024-2026 City Council Priorities

Every two years, following a Council election, the newly seated Council identifies priorities and confirms strategic direction.

- ✓ 1. Operationalize City resources to build and preserve affordable housing
- ✓ 2. Improve human and social health for vulnerable populations
- ✓ 3. Advance a 15-minute city by igniting neighborhood centers
- ✓ 4. Pursue an integrated, intentional approach to economic health
- ✓ 5. Accelerate zero waste infrastructure and policies
- ✓ 6. Reduce climate pollution and air pollution through best practices, emphasizing electrification
- ✓ 7. Protect community water systems in an integrated way to ensure resilient water resources and healthy watersheds
- ✓ 8. Advance a 15-minute city by accelerating our shift to active modes
- ✓ 9. Develop a Hughes site master plan
- ✓ 10. Make government more accessible, approachable and fun
- ✓ 11. Modernize and update the City Charter

## Neighborhood & Community Vitality

Improve human and social health for vulnerable populations

## Economic Health

Advance a 15-minute City by igniting neighborhood centers

## Environmental Health

Reduce climate pollution and air pollution through best practices, emphasizing electrification



## Transportation & Mobility

Advance a 15-minute City by accelerating our shift to Active Modes

# Overlapping Strategic Objectives



## High Performing Government



**HPG 4** Incorporate a management strategy for all new and existing City assets that address deferred maintenance and accessibility.

## Neighborhood & Community Vitality



**NCV 4** Remove obstacles to build interconnected Neighborhood Centers to accelerate progress towards our goal for everyone to have the daily goods and services available within a 15-minute walk or bike ride from home.

## Culture & Recreation



**C&R 2** Implement criteria and prioritization to manage assets and replace equipment that will revitalize parks and recreational facilities, as the planned buildout of the parks and trails system continues.

## Transportation & Mobility



**T&M 1** Make significant progress toward the City's Vision Zero goal to have no serious injury or fatal crashes for people walking, biking, rolling or driving in Fort Collins.

## Environmental Health



**ENV 1** Implement the Our Climate Future Plan to advance the City's greenhouse gas, energy and waste goals; reduce air pollution; and improve community resilience.



# Criteria Alignment With Community Goals



## Transportation & Mobility

- Eliminate fatal and serious injury crashes by 2032
- Encourage shift to active modes



## Neighborhood & Community Vitality

- Strengthen underserved communities
- Support community centers



## Economic Health

- Improve resiliency



## Environmental Health

- Enhance sustainability

Table 1. Criteria versus Community Goals Matrix

Criteria	Community Goals <sup>1</sup>					
	Eliminating Fatal and Serious Injury Crashes by 2032	Encourage Shift to Active Modes	Strengthen Underserved Communities	Improve Resiliency	Enhance Sustainability	Support Community Centers
Safety	●	●	◐	○	○	●
GHG Reduction	◐	●	◐	○	●	◐
HEI	◐	◐	●	●	●	●
Regional Significant/Alignment	○	○	◐	●	○	◐
Synergy (Streets)	○	◐	◐	●	●	◐
Synergy (Utilities)	○	○	◐	●	○	○
Synergy (Forestry)	○	◐	◐	○	●	○
Synergy (Other)	○	○	◐	◐	◐	○
Community Benefit (Bikes)	●	●	●	◐	◐	●
Community Benefit (Pedestrians)	●	●	●	◐	◐	●

1. Community goals aggregated from various relevant plans including: the 2024 Strategic Plan, Our Climate Future, 15-Minute City Analysis, Active Modes Plan, and Vision Zero Action Plan.



TCI

# CRITERIA

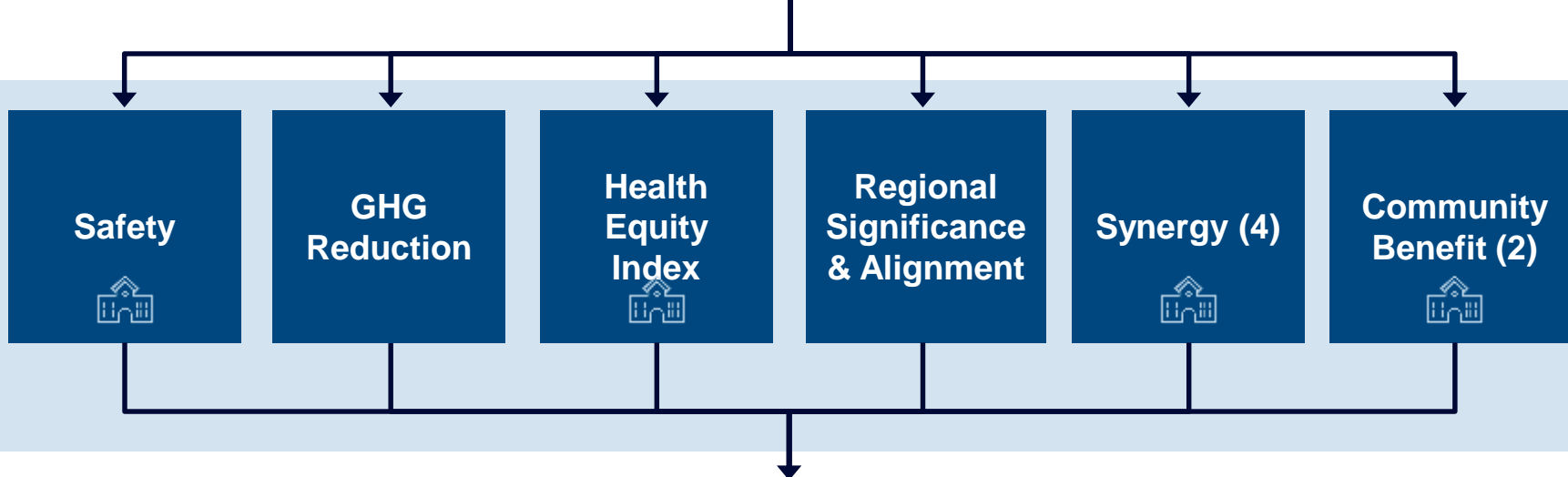
# Project Prioritization: Transportation Capital Improvement

STEP **1** **Project Need & Identification**

**PRIORITIES, OBJECTIVES, PLANS, STUDIES AND PROGRAMS**

- Active Mode Plan
- Strategic Trails Plan
- Transportation Capital Projects Prioritization Study

STEP **2** **Evaluation Criteria**  
(varies by plan/program)



= Includes Impacts to Safe Routes to School

STEP **3** **Project Lists**

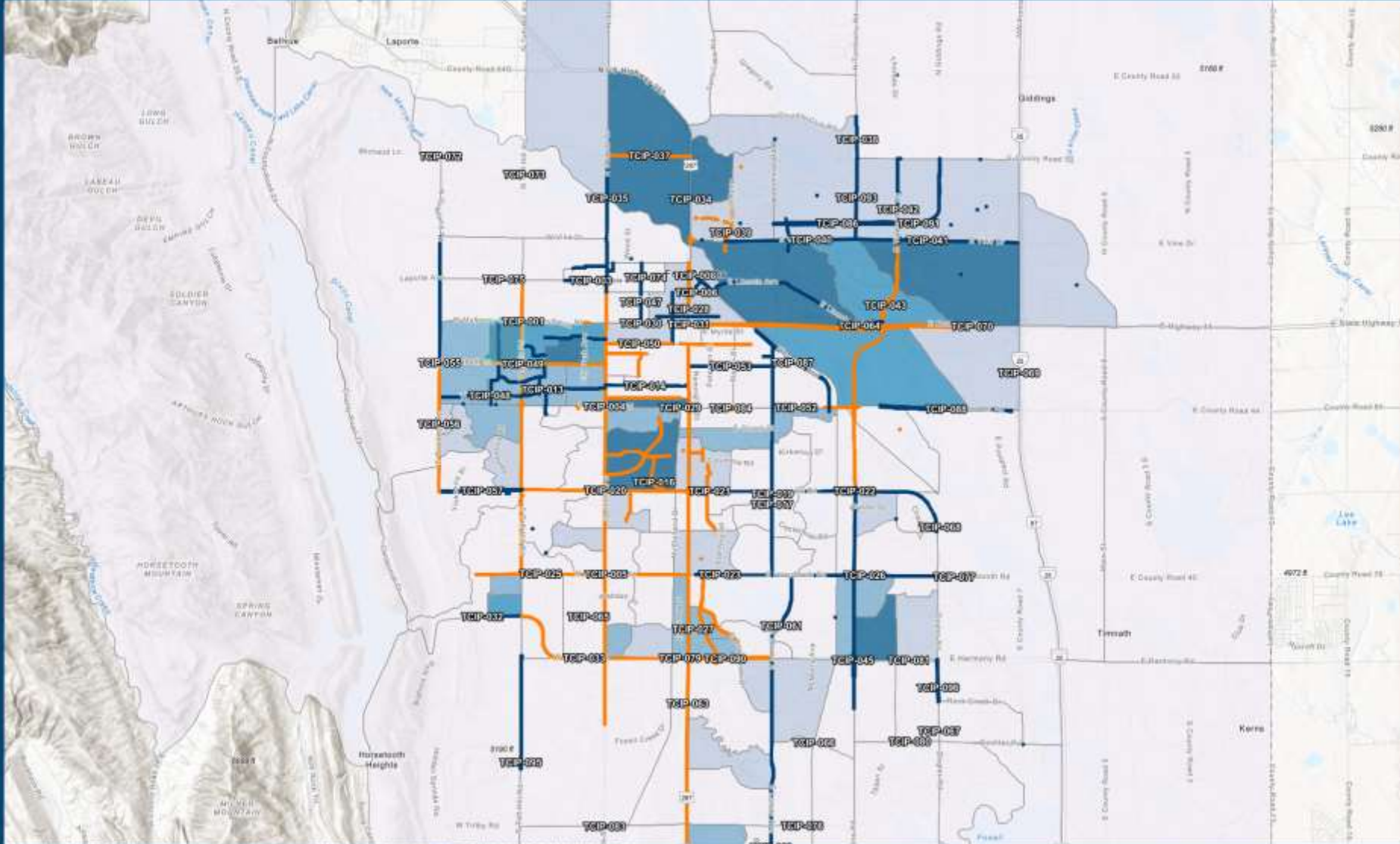
PROJECT TYPES	EXAMPLES
Active modes system improvements	Laporte Bike Lanes, City Park & Mulberry
Road and intersection improvements	College & Trilby, South Timberline
Bicycle/pedestrian grade separated crossings	Siphon, Power Trail at Harmony

**PROJECT INTEGRATION – Transportation Capital Improvement**

# Evaluation Criteria

## Fort Collins TCIP Dashboard (Draft Version: September 2024)

- TCIP Project**  
No category selected
- Primary Street**  
No category selected
- Project Cost**  
\$0 - \$70.747M
- Project Status**  
No category selected
- Primary Project Type**  
No category selected
- Secondary Project Type**  
No category selected
- Begin Construction Year**  
No category selected
- Overall Score**  
1 - 100
- Safety Score**  
1 - 5
- Greenhouse Gas Reduction Score**  
1 - 5
- Health Equity Index (HEI) Score**  
1 - 5
- Regional Significance/Alignment Score**  
1 - 5
- Synergy (Streets) Score**  
1 - 5
- Synergy (Utilities) Score**  
1 - 5
- Synergy (Forestry) Score**  
1 - 5
- Synergy (Other) Score**  
1 - 5
- Community Benefit: Bike Score**  
1 - 5
- Community Benefit: Pedestrian Score**  
1 - 5



**Health Equity Score: 100**

Zoom In Zoom Out

FID	40
STATEFP	08
COUNTYFP	069
TRACTCE	000505
BKGRPCE	1
GEOID	08069005051
NAMESAD	Block Group 1
ALAND	535637
AWATER	0
GEO_ID	130005005080690005051
Population	2059
HEIScore	100
GlobeID	11400585-2667-4E3D-1366-F0004c97d8e
Shape_Area	5745159.558185
Shape_Length	10697.153918

Esri, NASA, NOAA, USGS, FEMA | City of Fort Collins, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS





TCI

# PROJECT PRIORITIZATION

# Web Based Tool

## Fort Collins TCIP Dashboard (Draft Version: September 2024)

- TCIP Project**  
No category selected
- Primary Street**  
No category selected
- Project Cost**  
\$0 - \$70.741M
- Project Status**  
No category selected
- Primary Project Type**  
No category selected
- Secondary Project Type**  
No category selected
- Begin Construction Year**  
No category selected
- Overall Score**  
1 - 100
- Safety Score**  
1 - 5
- Greenhouse Gas Reduction Score**  
1 - 5
- Health Equity Index (HEI) Score**  
1 - 5
- Regional Significance/Alignment Score**  
1 - 5
- Synergy (Streets) Score**  
1 - 5
- Synergy (Utilities) Score**  
1 - 5
- Synergy (Forestry) Score**  
1 - 5
- Synergy (Other) Score**  
1 - 5
- Community Benefit: Bike Score**  
1 - 5
- Community Benefit: Pedestrian Score**  
1 - 5

Total TCIP Projects Selected

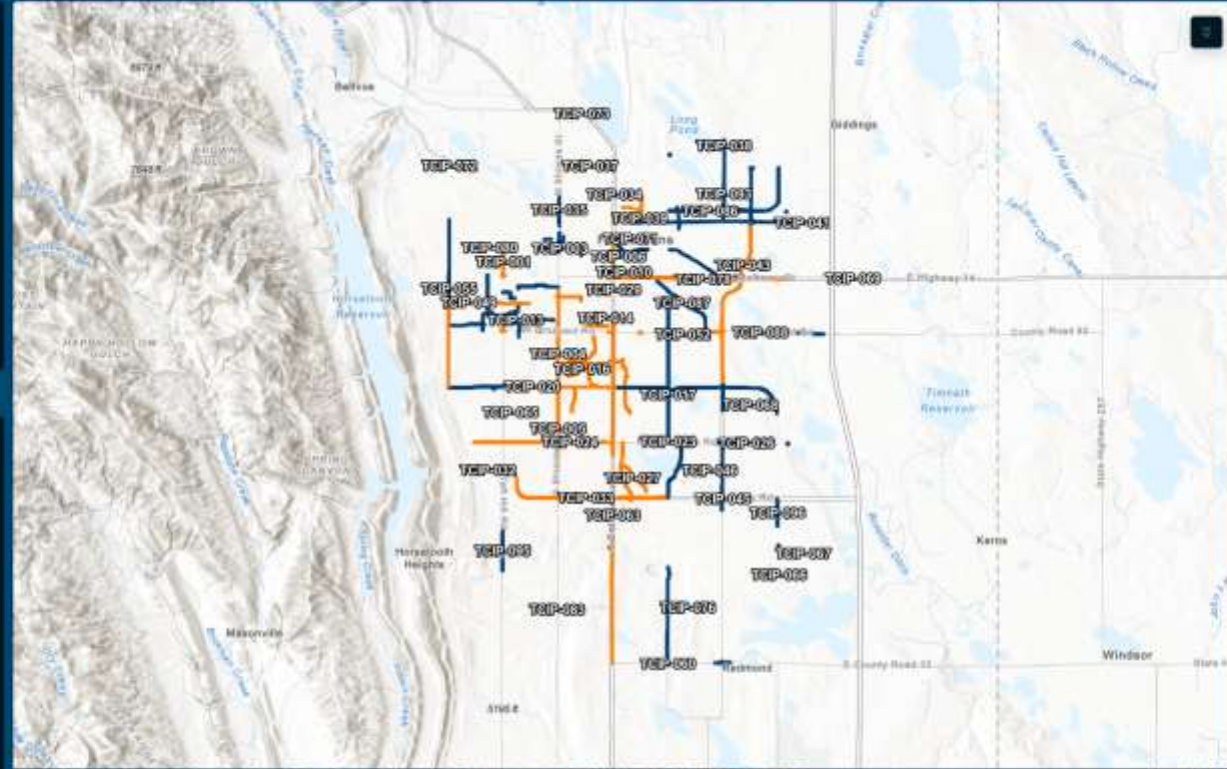
# 88

Map 1 - TCIP Projects

Map 1 - Projects    Map 2 - Projects

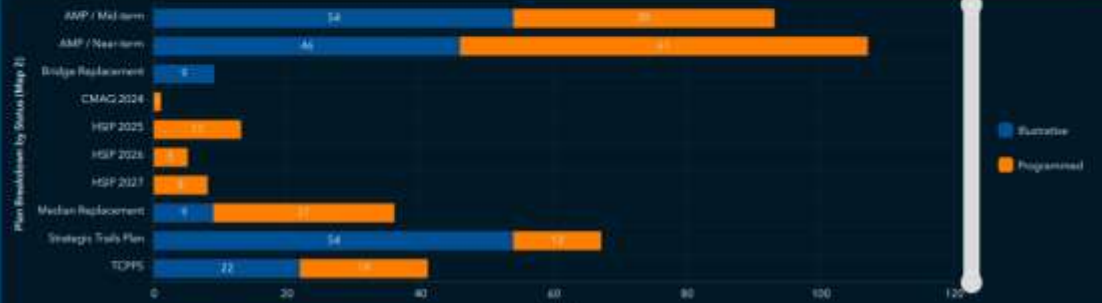
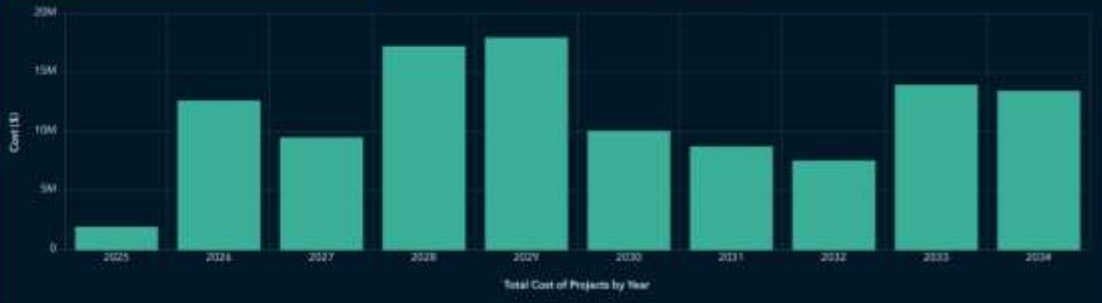
Total Cost of TCIP Projects Selected

# \$382.3M



TCIP Projects    Individual Projects    Table

- TCIP-002: 5 Taft Hill Road - Bronson Street to W Elizabeth Street**  
Intersection improvements, separated bike lanes and pedestrian spot improvements along Taft Hill Road.  
Draft Score: 82  
Cost: \$2,998,800
- TCIP-043: N Timberline Road - E Prospect Road to E Vine Drive**  
N Timberline Widening (Mulberry to Vine). Separated bike lanes from Prospect to Mulberry. Grade separations north of Mulberry. Median replacement along alignment. Intersection improvements from AMP on E Prospect Road and S Timberline Road.  
Draft Score: 81  
Cost: \$14,746,710
- TCIP-030: W Mulberry Street - S Taft Hill Road to S Mason Street**  
Signal operations and geometric redesign along E Mulberry Street (AMP).  
Draft Score: 77  
Cost: \$1,245,200
- TCIP-028: N College Avenue - E Magnolia Street to Willow Street**  
Signal operations (AMP) improvements along College Avenue and Vine Drive.  
Draft Score: 75  
Cost: \$109,000
- TCIP-033: E Harmony Road - S Taft Hill Road to S Lemay Avenue**  
Separated bike lanes and intersection improvements along E Harmony Road.  
Draft Score: 75  
Cost: \$2,384,600
- TCIP-004: S Shields Street - Davidson Drive to W Mountain Avenue**  
Separated bike lanes with pedestrian spot improvements and grade separate crossings along Shields Street.  
Draft Score: 74  
Cost: \$14,016,000
- TCIP-020: W Drake Road - S Taft Hill Road to S College Avenue**  
Separated bike lanes along E Drake Road. Signal improvements at Shields.  
Draft Score: 73  
Cost: \$1,333,000



# Example Project

## Fort Collins TCIP Dashboard (Draft Version: September 2024)

- TCIP Project**  
TCIP-004
- Primary Street**  
No category selected
- Project Cost**  
\$0 - \$70.747M
- Project Status**  
No category selected
- Primary Project Type**  
No category selected
- Secondary Project Type**  
No category selected
- Begin Construction Year**  
No category selected
- Overall Score**  
1 - 100
- Safety Score**  
1 - 5
- Greenhouse Gas Reduction Score**  
1 - 5
- Health Equity Index (HEI) Score**  
1 - 5
- Regional Significance/Alignment Score**  
1 - 5
- Synergy (Streets) Score**  
1 - 5
- Synergy (Utilities) Score**  
1 - 5
- Synergy (Forestry) Score**  
1 - 5
- Synergy (Other) Score**  
1 - 5
- Community Benefit: Bike Score**  
1 - 5
- Community Benefit: Pedestrian Score**  
1 - 5

Total TCIP Projects Selected

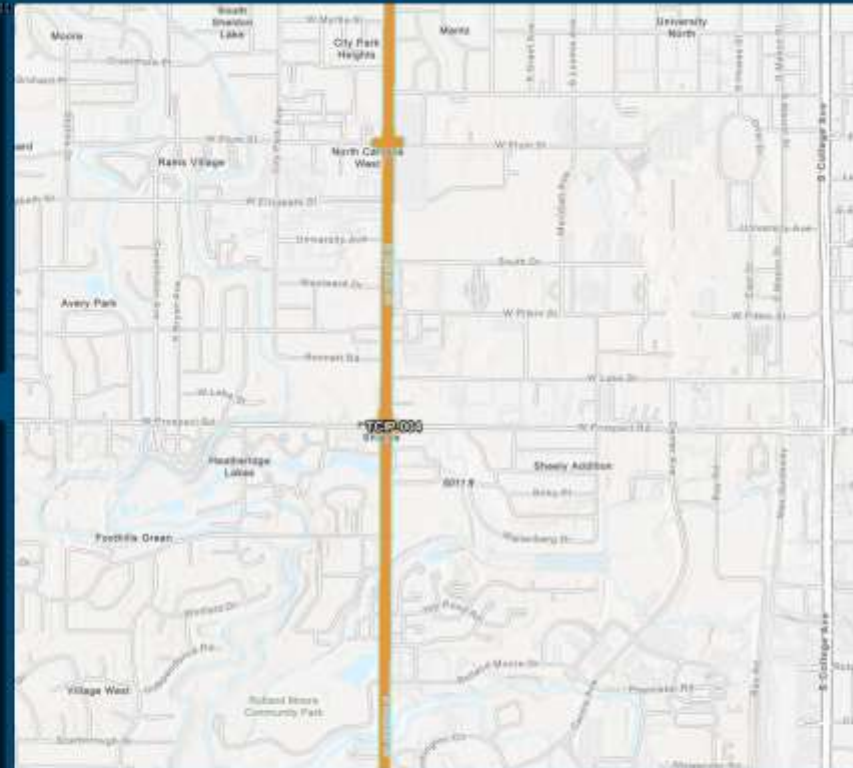
1

Map 1 - TCIP Projects

Map 1 - Projects    Map 2 - Projects

Total Cost of TCIP Projects Selected

\$14M

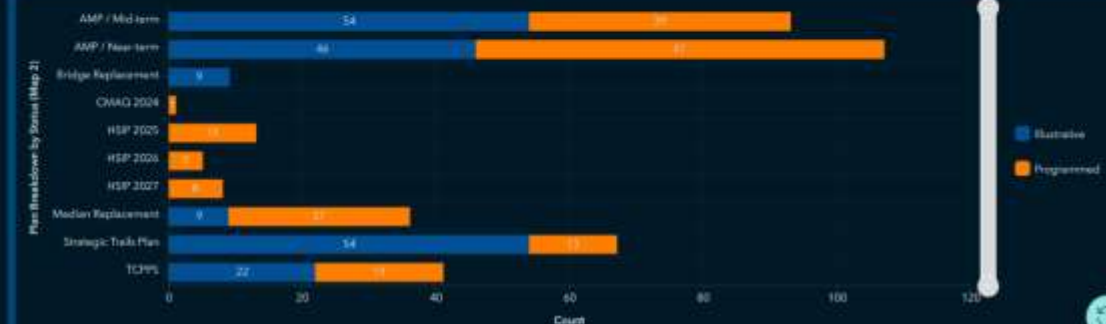
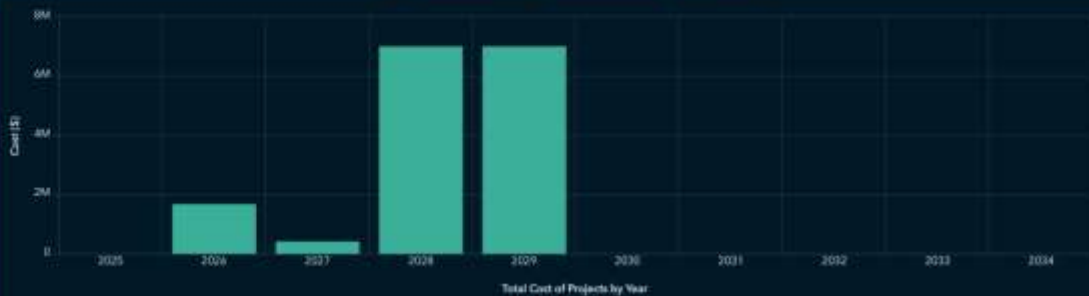


Esri, NASA, NOAA, USGS, FEMA | Esri Community Maps Contributors, City of Fort Collins, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., MET/MASA

TCIP Projects    Individual Projects    Table

TCIP-004	
TCIP Project Number	TCIP-004
Primary Street	5 Shields Street
Project Limits 1	Davidson Drive
Project Limits 2	W Mountain Avenue
Scope	Separated bike lanes with pedestrian spot improvements and grade separate crossings along Shields Street.
Safety Score	5
GHG Reduction Score	4
HEI Score	5
Regional Significance Score	5
Synergy Streets Score	3
Synergy Utilities Score	5
Synergy Forestry Score	3
Synergy Other Score	1
Community Benefit Bike Score	3
Community Benefit Pedestrian Score	4
Draft Score (Base)	74
Average Score	83
Project Cost (\$)	14,016,000
Begin Construction Year	2031

**TCIP-004: 5 Shields Street - Davidson Drive to W Mountain Avenue**  
Separated bike lanes with pedestrian spot improvements and grade separate crossings along Shields Street.  
Draft Score: 74  
Cost: \$14,016,000










# CONCLUSION



# How the TCI helps the City advance a 15-Minute City

Council Priorities		Themes for 15-Minute City Strategy
Operationalize city resources to build and preserve affordable housing		<ul style="list-style-type: none"><li>• Increase housing capacity in areas with strong connectivity</li><li>• Support mixed-use neighborhoods</li></ul>
Advance a 15-Minute City by igniting neighborhood centers	  	<ul style="list-style-type: none"><li>• Expand access to nature and parks</li><li>• Increase awareness through education and outreach</li></ul>
Advance a 15-Minute City by accelerating our shift to active modes		<ul style="list-style-type: none"><li>• Expand the active transportation network</li><li>• Expand transit services</li><li>• Increase safety conditions for vulnerable road users</li></ul>

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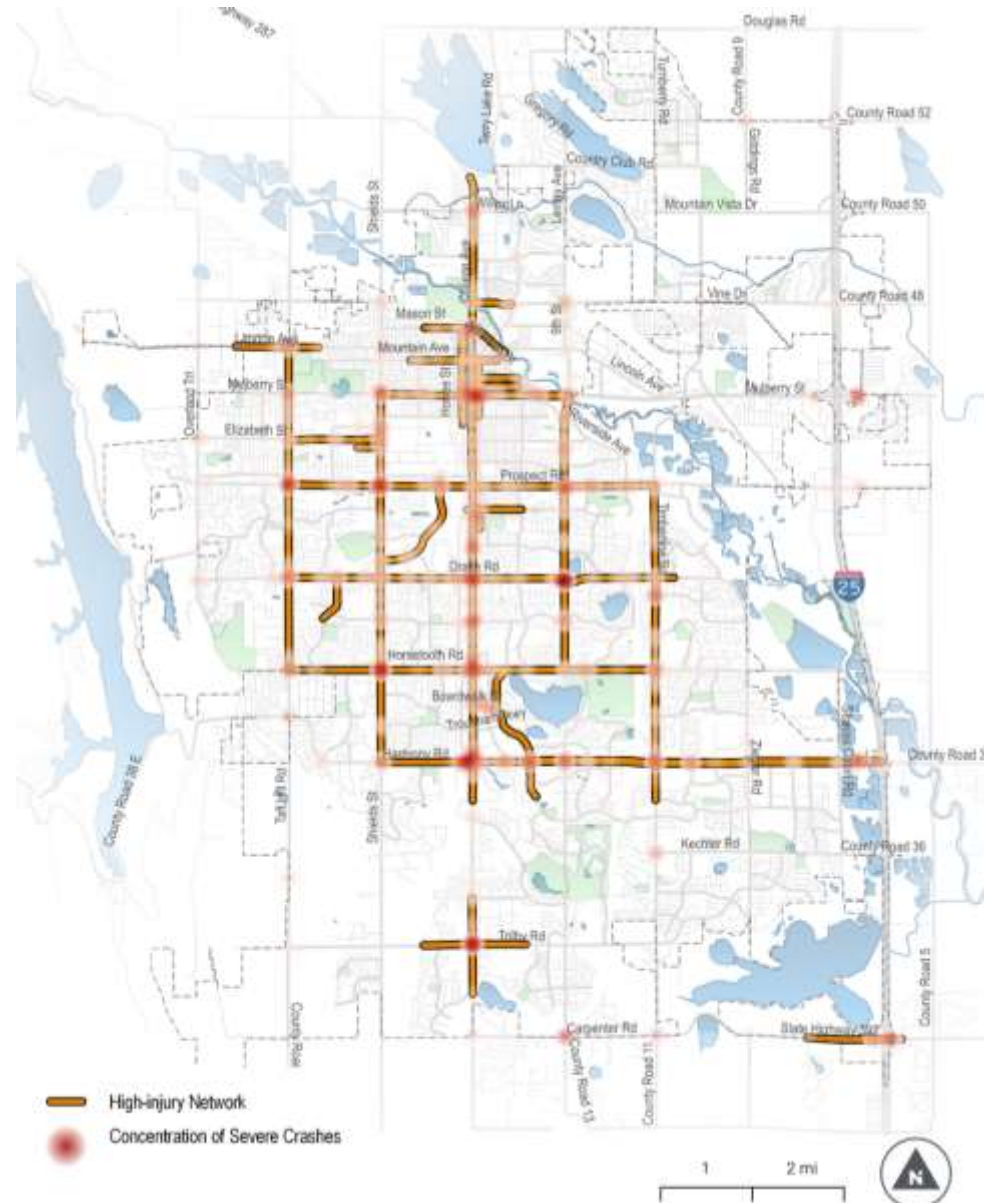


# Back Up Slides



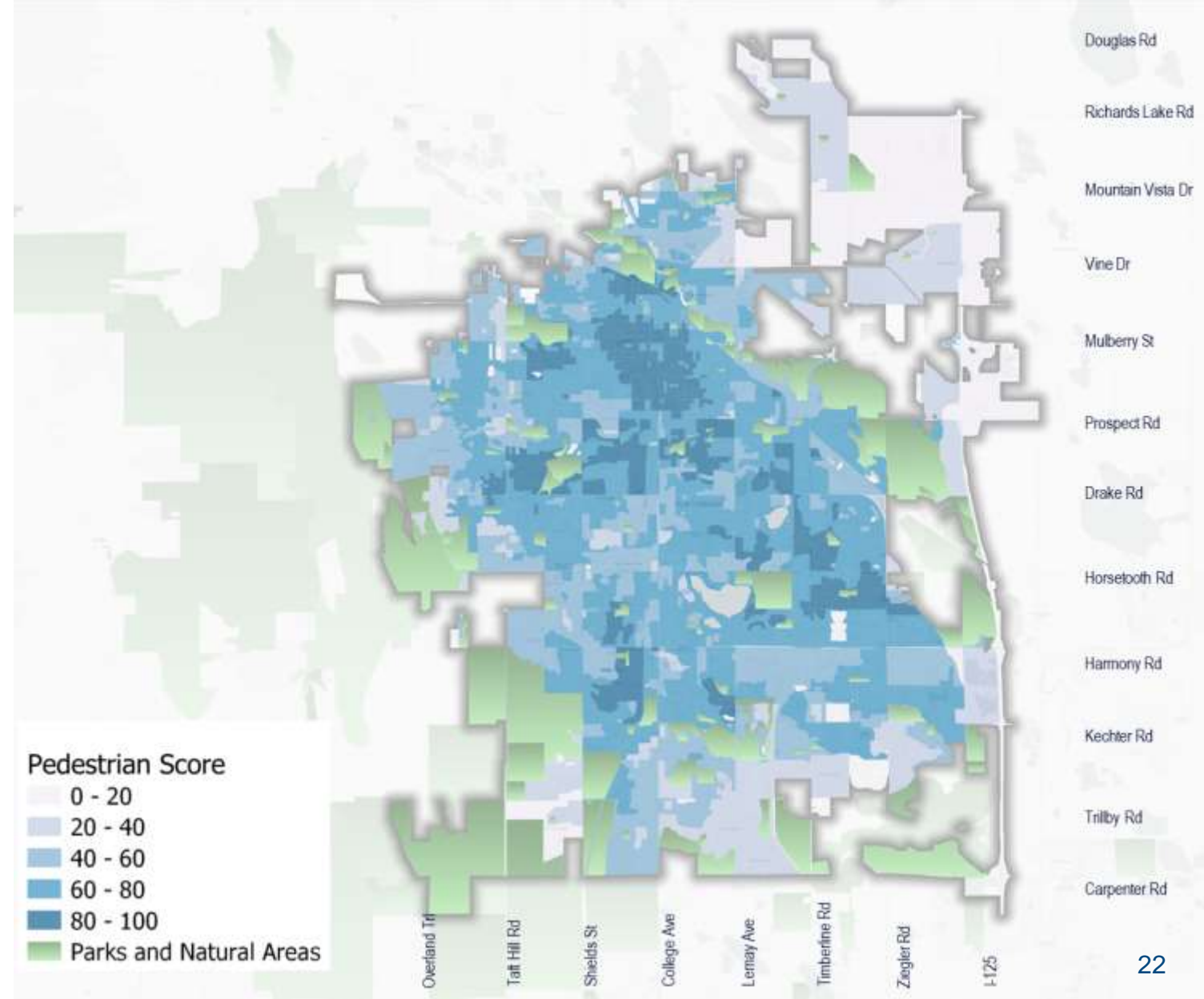
**70%**  
of severe crashes  
occurred at an  
intersection

The HIN is  
91% arterials  
6% collectors  
3% local

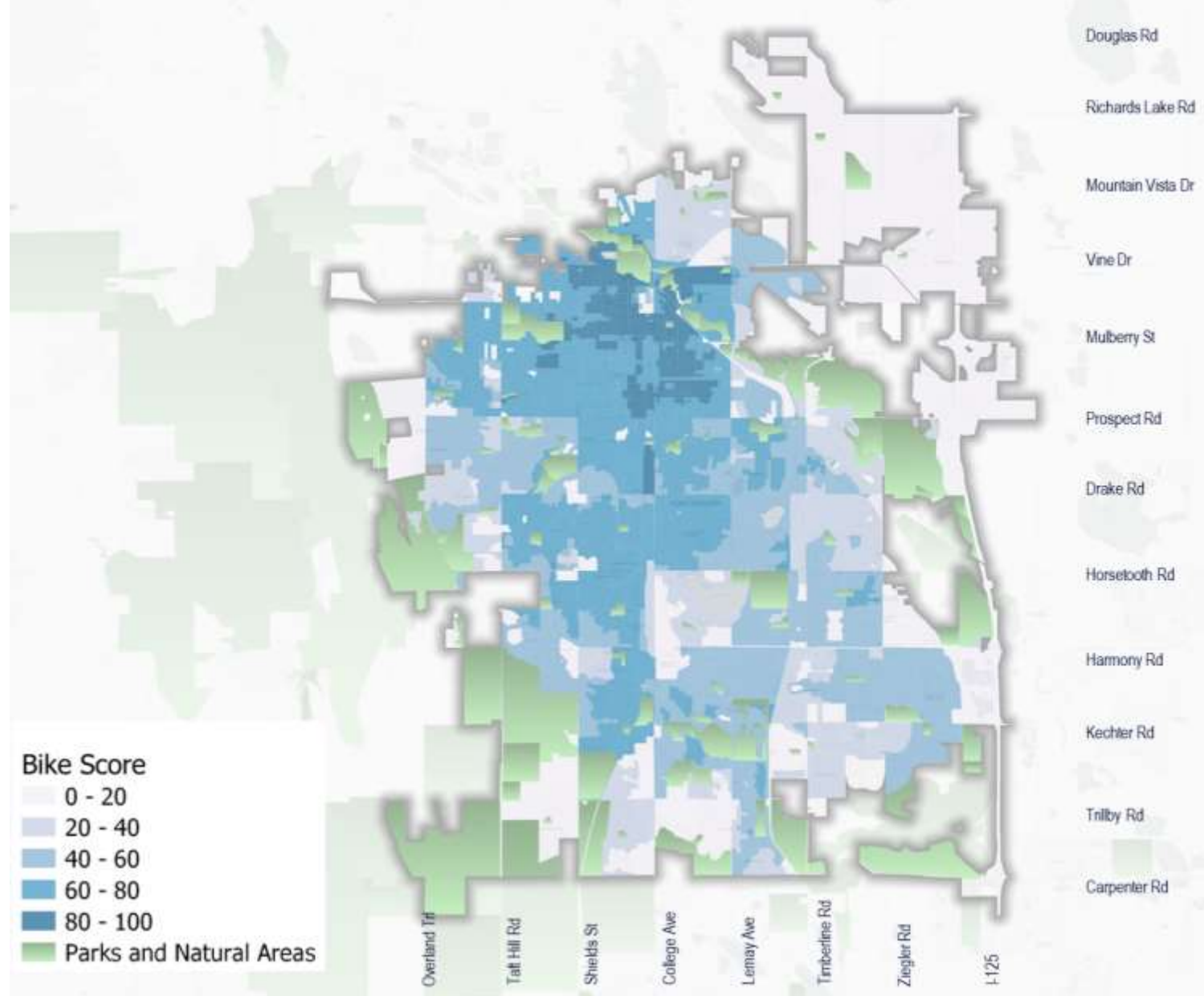


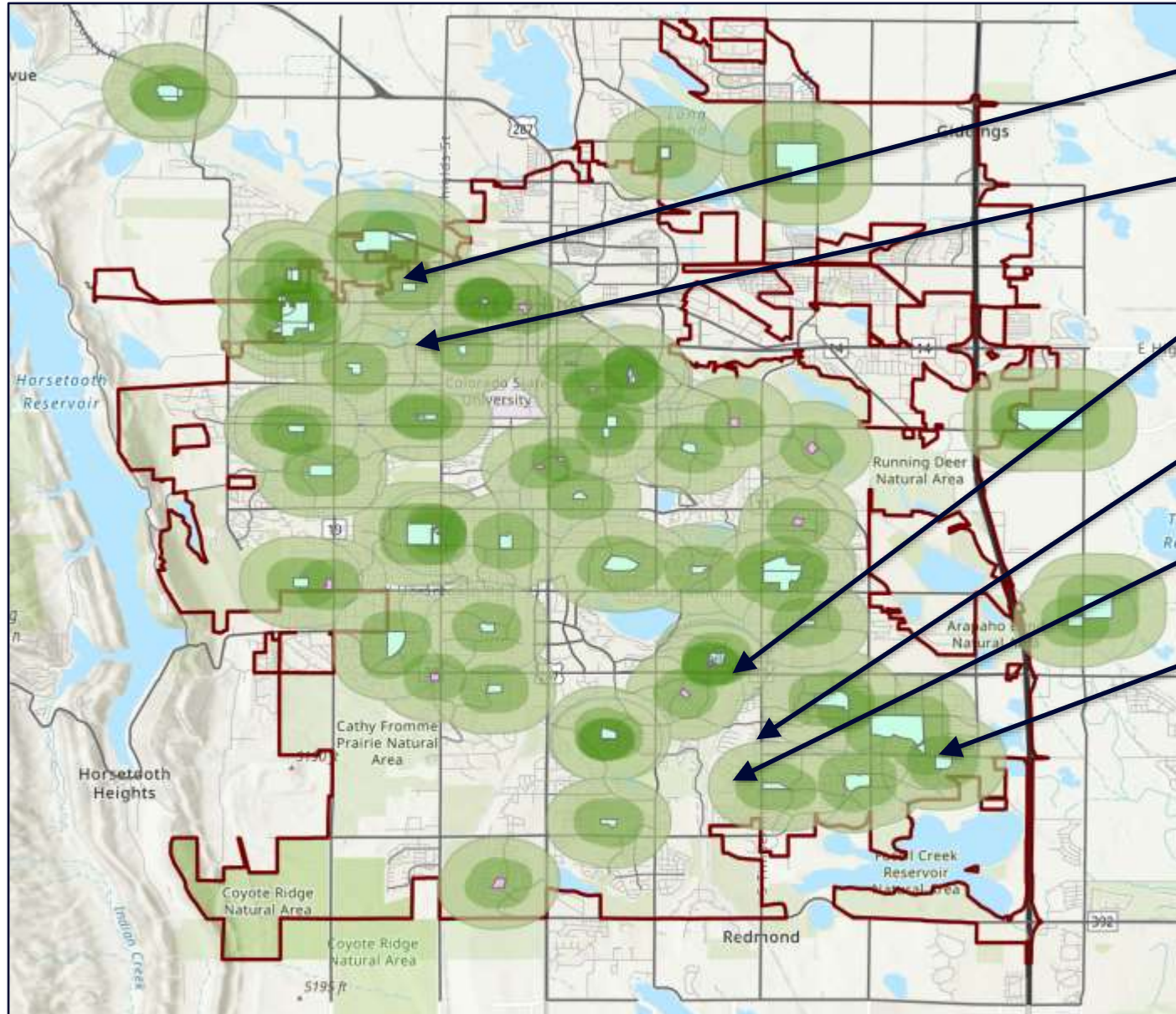
**8%**  
of the roads have  
**63%**  
of all fatal and  
serious injury  
crashes

Score Range	Description of Access and Connectivity	
0-20	Very Poor	Little to no daily destinations accessible
20-40	Poor	
40-60	Fair	
60-80	Good	Most or all daily destinations accessible
80-100	Very Good	



Score Range	Description of Access and Connectivity	
0-20	Very Poor	Little to no daily destinations accessible
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80-100	Very Good	





**Laporte Ave**

- Putnam Elementary, Poudre HS

**City Park Ave and Mulberry Intersection**

- CSU, Dunn Elementary

**Power Trail under Harmony**

- Kruse Elementary, Colorado Early Colleges, Harmony School, preschool

**Timberline Road Improvements**

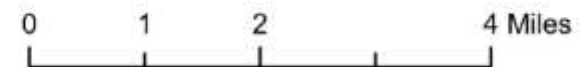
- Bacon Elementary, Kinard Middle

**Mail Creek Trail**

- Bacon Elementary, Kinard Middle

**Kechter Road Crossing**

- Zach Elementary







TCPPS	Active Modes Plan
<b>Quantitative - Identify Top Tier Projects</b>	
<p><b>Crash Reduction</b> Reduction in annual crashes (crashes/year)</p>	<p><b>Safety &amp; Comfort</b> Citywide High-Injury Network; Bicycle or Pedestrian Level of Traffic Stress; Pedestrian distance to low-stress crossing opportunities</p>
<p><b>Peak Hour Delay Reduction</b> Amount of delay reduction (seconds)</p>	<p><b>Access</b> Number of nearby Transfort stations or stops</p>
<p><b>Equity</b> Fort Collins Health Equity Index (unitless)</p>	<p><b>Health &amp; Equity</b> Fort Collins Health Equity Index</p>
<p><b>Growth</b> Expected traffic growth from NFRMPO (%)</p>	<p><b>Network Connectivity</b> Number of connections to existing or proposed bicycle/trail network</p>



TCPSS	Active Modes Plan
<b>Qualitative - Final Ranking</b>	
<p><b>Cost</b> Estimated project cost</p>	<p><b>Cost</b> Estimated project cost</p>
<p><b>Readiness</b> Additional study, analysis, or permitting? Other exceptional complexities? Funding source available?</p>	<p><b>Readiness</b> Is additional study or analysis needed?</p>
<p><b>Multimodal Benefit</b> Supports proposed bike/ped/frequent transit projects?</p>	<p><b>Multimodal Benefit</b> Supports proposed bike/ped/frequent transit projects?</p>
<p><b>Synergy</b> Supports other currently funded or programmed public or private projects?</p>	<p><b>Synergy</b> Supports other currently funded or programmed public or private projects?</p>
<p><b>Community</b> Addresses community needs &amp; interests based on public input and identified community activity centers, open spaces, etc.</p>	<p style="text-align: center;">No comparable metric</p>

TCIP Project Number	Primary Street	Project Limits 1	Project Limits 2	Scope	Project Cost	Safety	GHG Reduction	HEI	Regional Significant/Alignment	Synergy (Streets)	Synergy (Utilities)	Synergy (Forestry)	Synergy (other)	Community Benefit (Bike Scores)	Community Benefit (Pedestrian Scores)	Draft Score (Base)
TCIP-002	S Taft Hill Road	Bronson Street	W Elizabeth Street	Intersection improvements, separated bike lanes and pedestrian spot	\$2,998,800.00	4	4	5	5	5	5	2	3	3	5	82
TCIP-043	N Timberline Road	E Prospect Road	E Vine Drive	N Timberline Widening (Mulberry to Vine). Separated bike lanes from	\$14,746,710.00	5	4	5	5	3	5	3	1	3	5	81
TCIP-030	W Mulberry Street	S Taft Hill Road	S Mason Street	Signal operations and geometric redesign along E Mulberry Street	\$1,245,200.00	4	4	5	5	3	1	5	1	4	5	77
TCIP-028	N College Avenue	E Magnolia Street	Willow Street	Signal operations (AMP) improvements along College Avenue and Vine	\$109,000.00	4	4	2	5	5	3	3	1	4	5	75
TCIP-033	E Harmony Road	S Taft Hill Road	S Lemay Avenue	Separated bike lanes and intersection improvements along E Harmony Road.	\$2,384,600.00	5	4	4	3	3	3	3	3	3	5	75

**TCIP-002: S Taft Hill Road - Bronson Street to W Elizabeth Street**  
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