



SH 82-Aspen West Transportation Needs Study

Council Update

April 21, 2025

COA: Jenn Ooton, Carly McGowan, PE, Lynn Rumbaugh

Jacobs Engineering: Jim Clarke, AICP; Doug Stremel, PE

Agenda

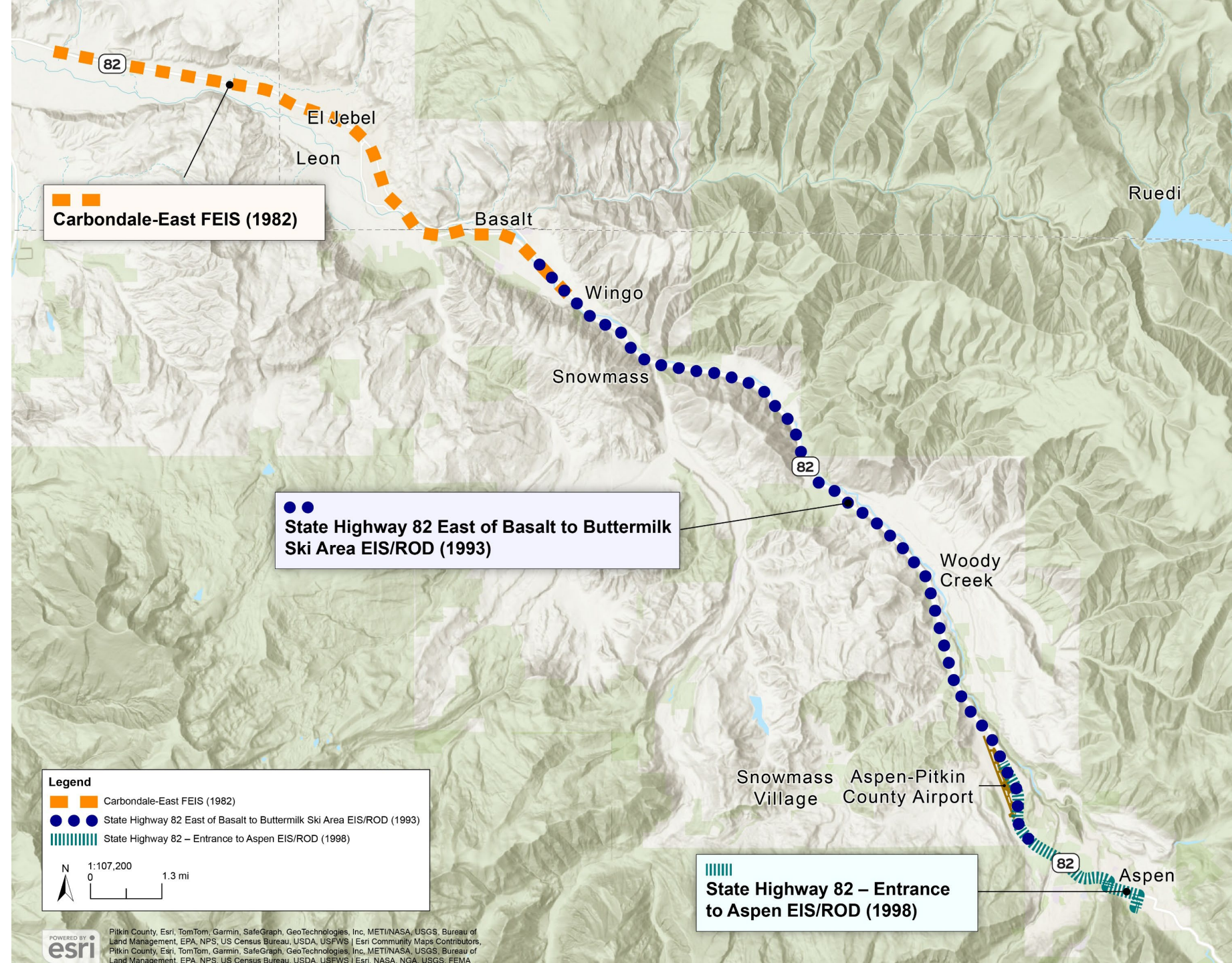
- Background and History
- CDOT/FHWA Coordination
- Purpose and Need
- Available Data on Transportation Needs
 - Traffic and Transit
 - System Redundancy, Emergency Response and Evacuation
 - Safety
 - Infrastructure
- Stakeholder Workshop
- Project Limits
- Next Steps



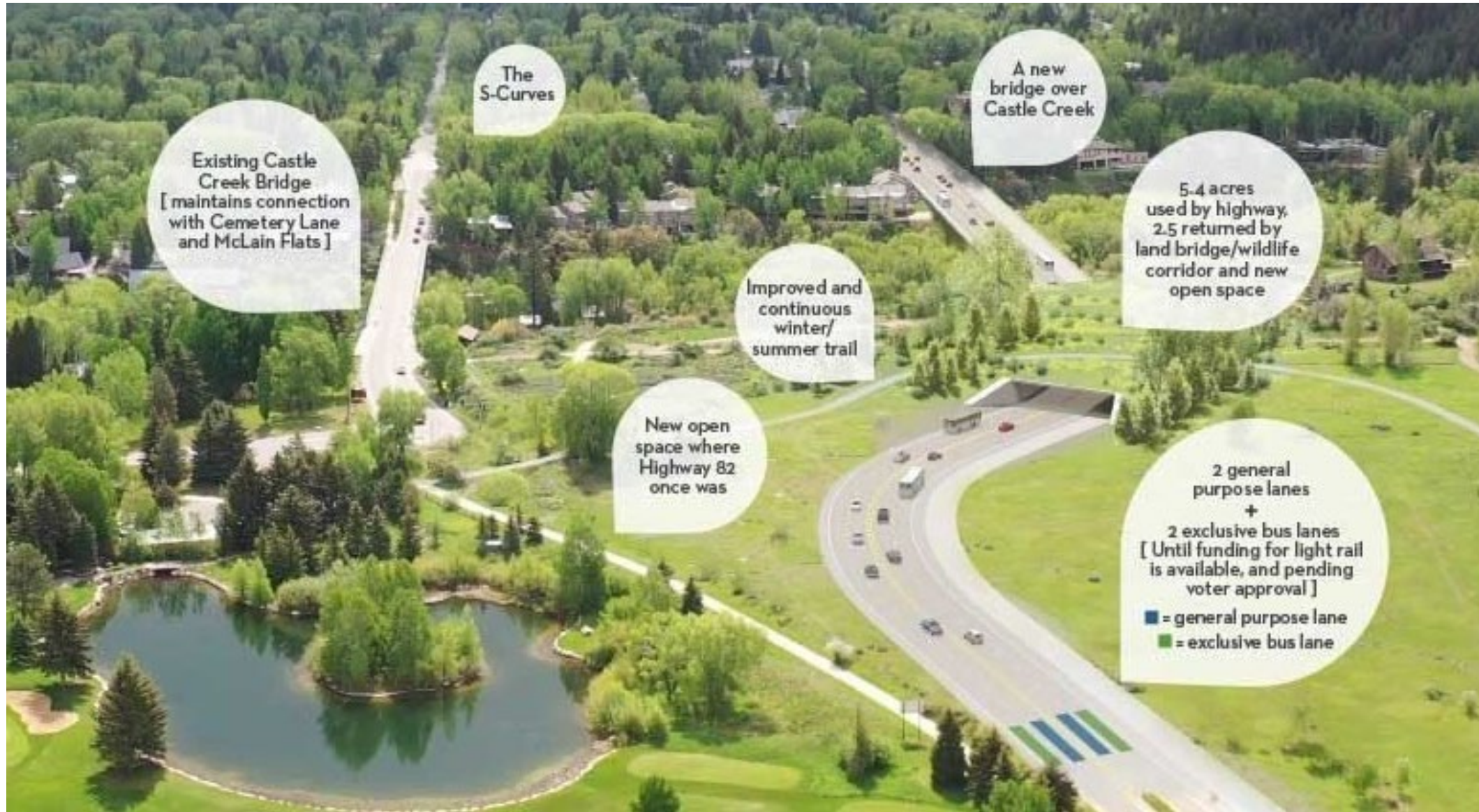
CITY OF ASPEN

Background and History

Background and History – Prior SH 82 Studies



Background and History – ETA Preferred Alternative: Uncompleted Improvements



Background and History – Castle Creek Bridge Studies (2024)

Spring 2024

- Bridge Feasibility Report
 - Rehab Existing Bridge
 - 2-Lane Replace
 - 3-Lane Bridge Options
- S-Curves widening memo
 - 2 to 4 lanes (dedicated transit)
- NEPA Processes

Summer 2024

- Traffic Memo/Alts
- S-Curve refinements
- CCB Sidewalk removal
- Alternatives Sensitivity Analysis
- Funding Options
- Economic Impact Analysis

Background and History – CCB Inspection

CCB Reinspected – Fall 2024

- Fair Condition
 - Deck, Substructure and Superstructure
 - Fair Condition means *structural elements are sound*
 - Preventative maintenance measures may be needed
- No Safety Concerns
- Next inspection 2026



FHWA/CDOT Coordination

- CDOT/FHWA September 2024 Response Letter
 - Reaffirmed new EIS required for 3-Lane Shifted or Split Shot Alternatives IF intended to replace ETA Preferred Alternative
- Resolution 2024-113
 - Directed staff to begin work on new EIS or SEIS

FHWA/CDOT Coordination – November Meeting

Purpose

- Get aligned on process IF COA proposes new EIS
- Establish EIS Ground Rules

Concerns

- Divided community sentiment
- FHWA staffing constraints

Stakeholder and Public Outreach

- Downvalley participation expected



Key Messages

- FHWA/CDOT agreement on new EIS will require a strong, data-driven Purpose and Need.
- FHWA/CDOT are ultimate decision makers



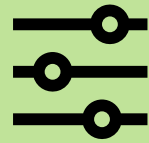
Purpose and Need

Purpose and Need – What is a “Purpose and Need” Statement?

Foundation of Project



Establishes what the agency is proposing and why the project is needed.



Basis for developing the range of reasonable alternatives required in an EIS

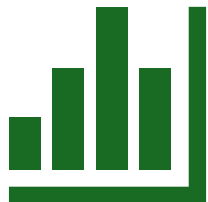


Alternatives are measured by their ability to address the purpose and need

Purpose and Need – Guidance for Developing Purpose and Need



Purpose identifies what the project is intended to achieve but does not specify the solution



Needs clearly define the transportation problems and are supported by data



May also identify other objectives related to the primary transportation purpose



Should be concise and understandable for the general public



Available Data on Transportation Needs

Traffic and Transit

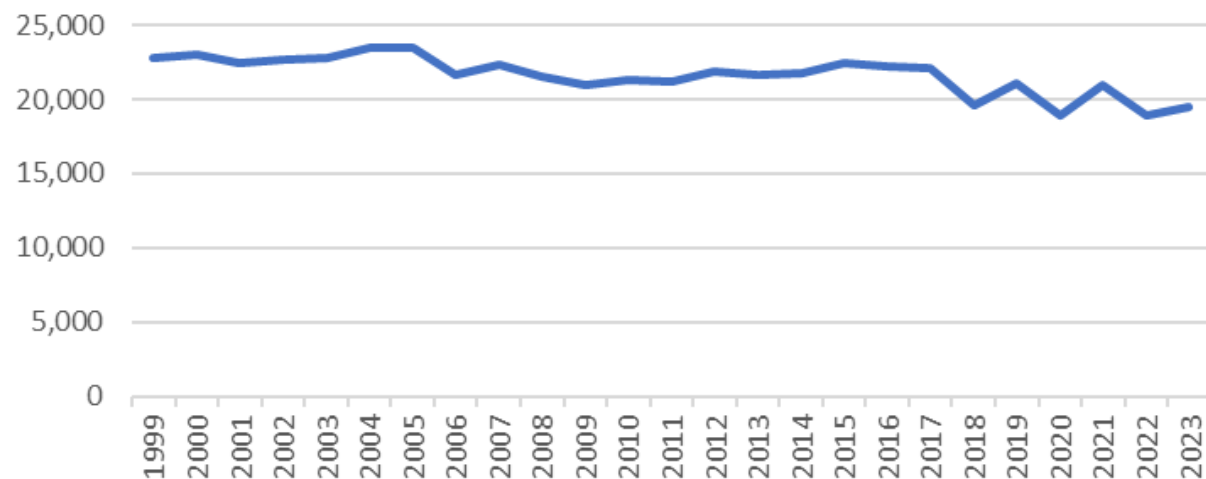


Traffic and Transit – CCB Traffic Volumes

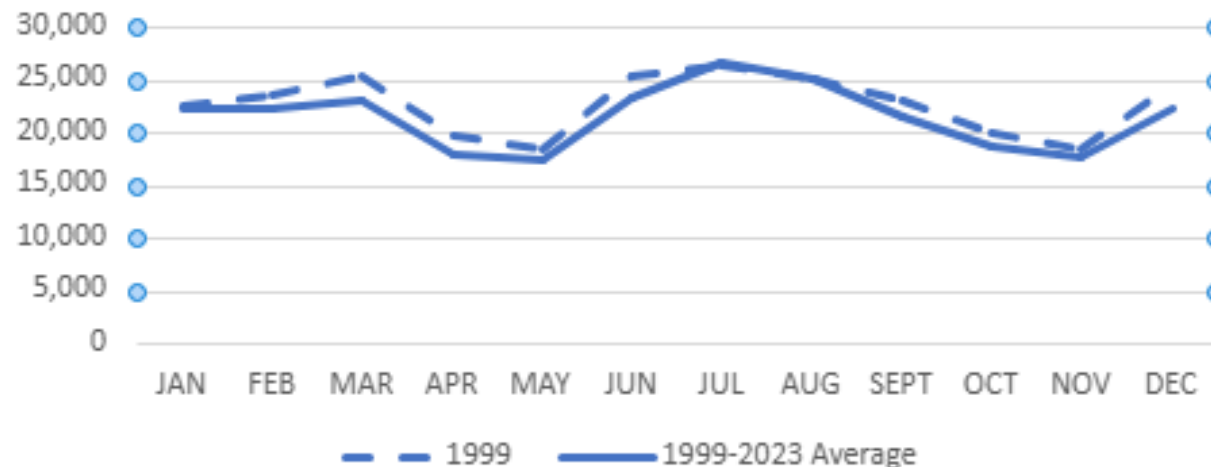
- Key Observations

- Annual bridge traffic has slightly decreased over the last 25 years
- July is historically the peak traffic month, which has remained steady over the last 25 years

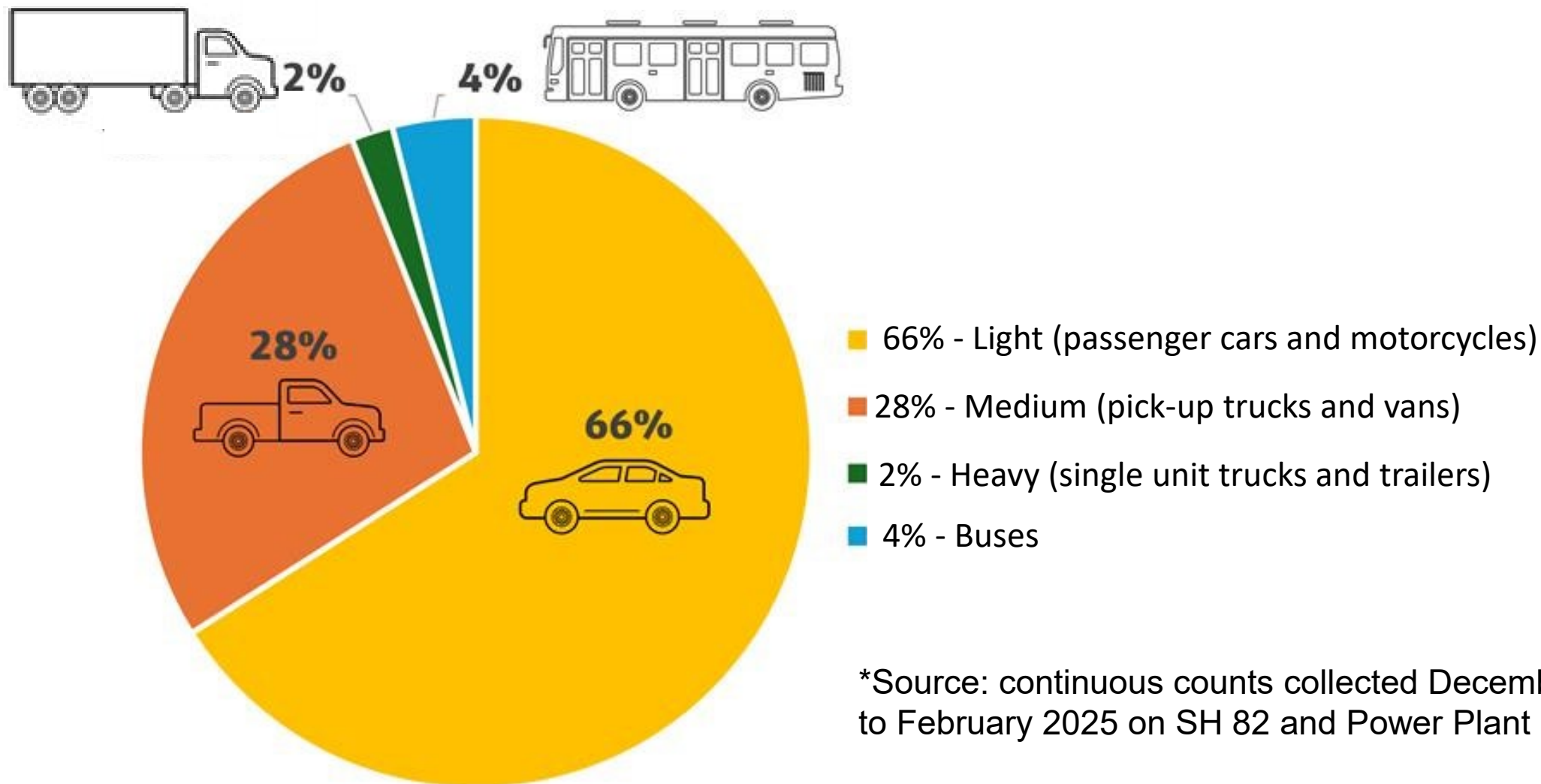
Castle Creek Bridge Annual Average Daily Traffic



Castle Creek Bridge Daily Traffic By Month



Traffic and Transit – Vehicle Types

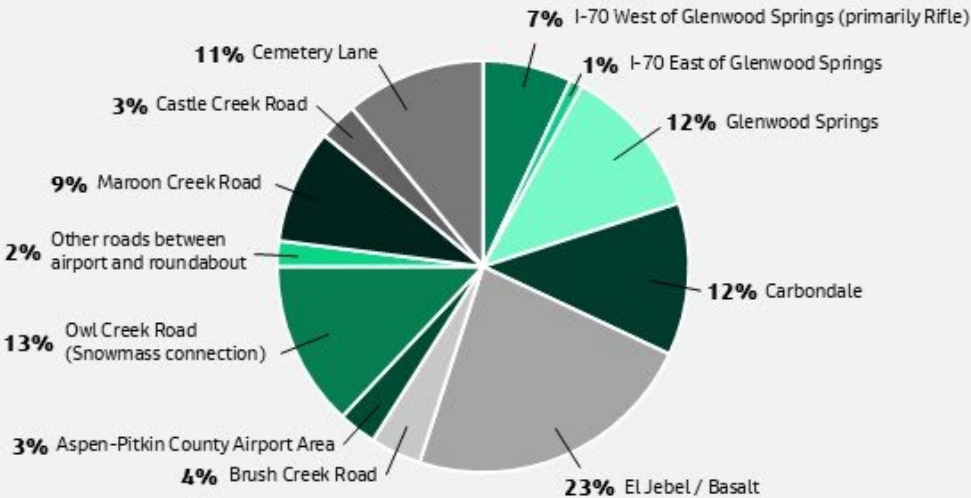


*Source: continuous counts collected December 2024 to February 2025 on SH 82 and Power Plant Road

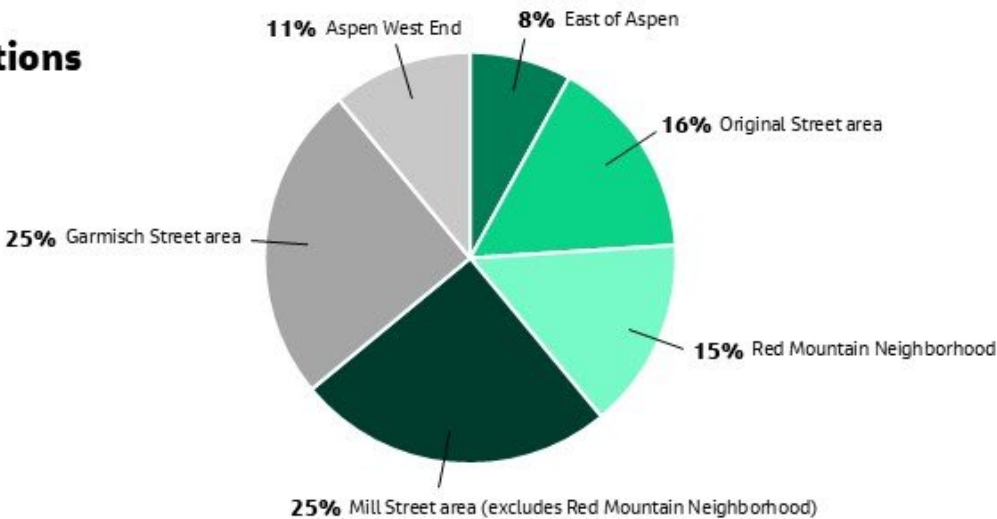
Traffic and Transit – Origin-Destination Study (AM Inbound)

AM Inbound Traffic Crossing Castle Creek

Origins



Destinations



Traffic Crossing Castle Creek

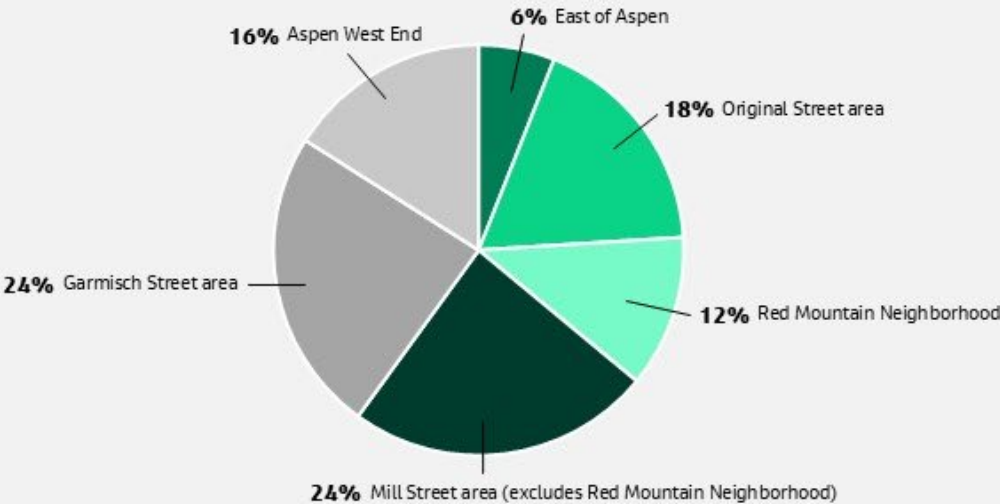


100% = 1,420 inbound peak hour vehicles
(source: 2024 Jacobs traffic study)

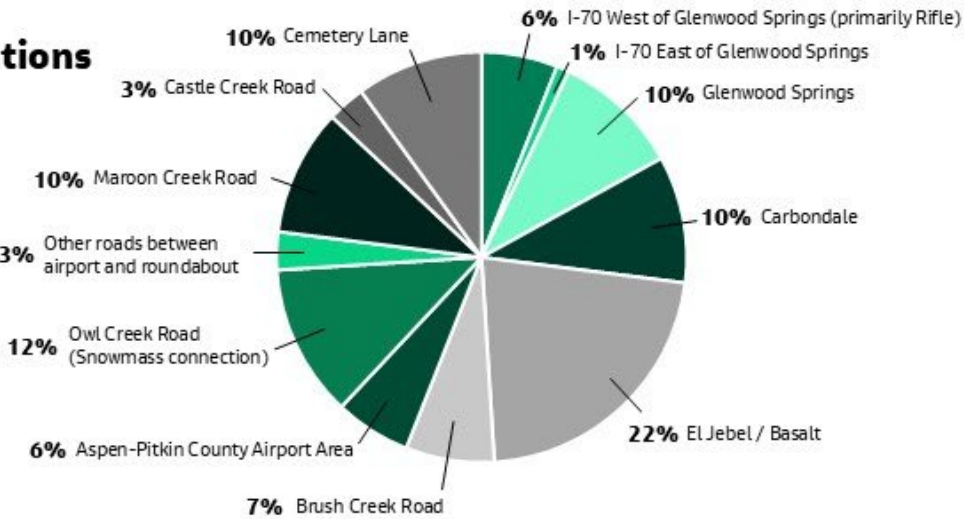
Traffic and Transit – Origin-Destination Study (PM Outbound)

PM Outbound Traffic Crossing Castle Creek

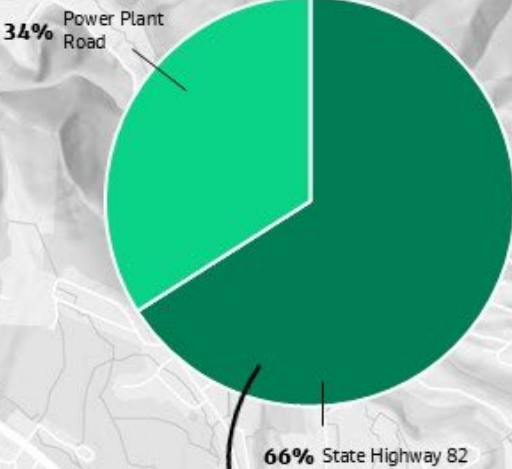
Origins



Destinations

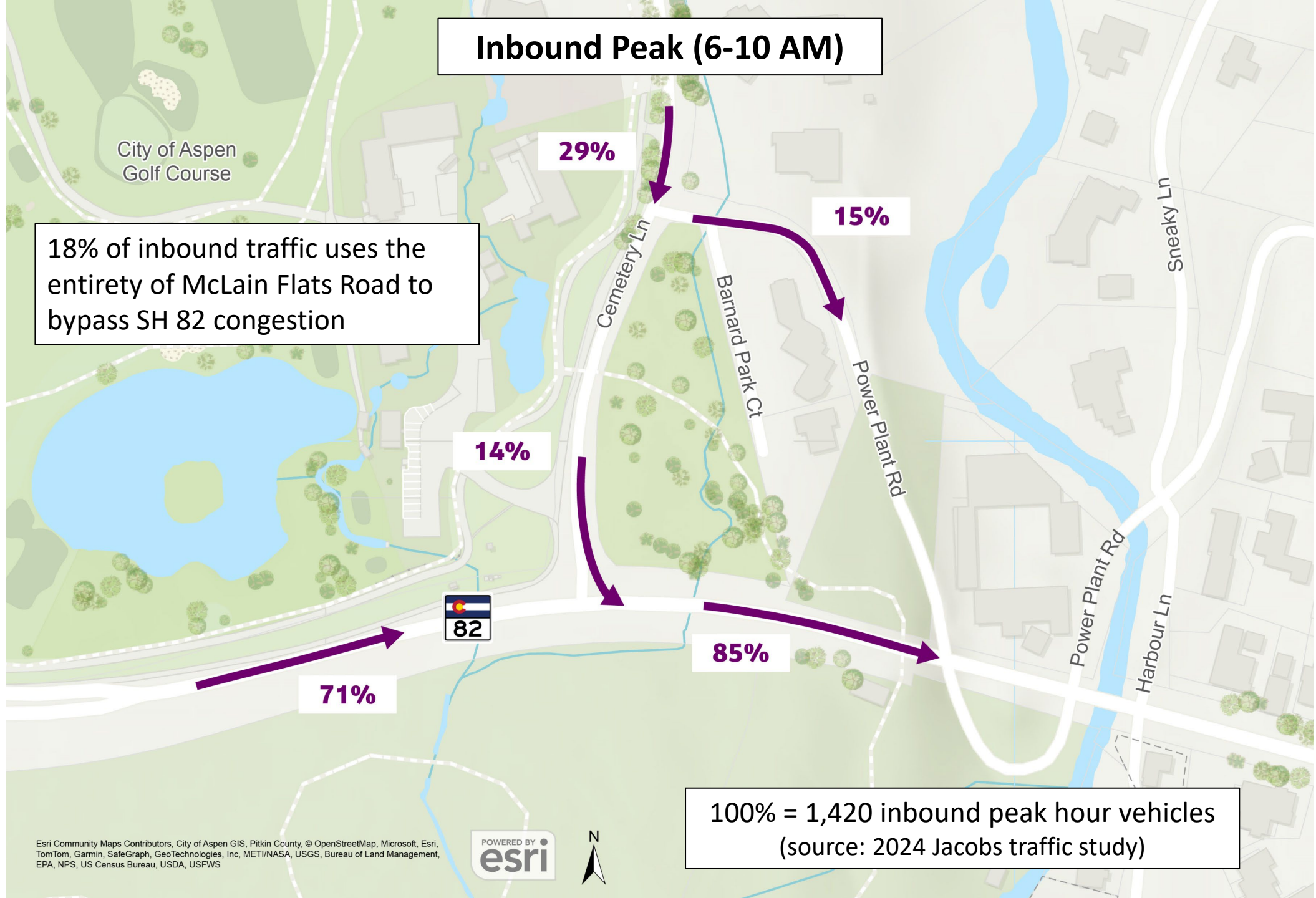


Traffic Crossing Castle Creek

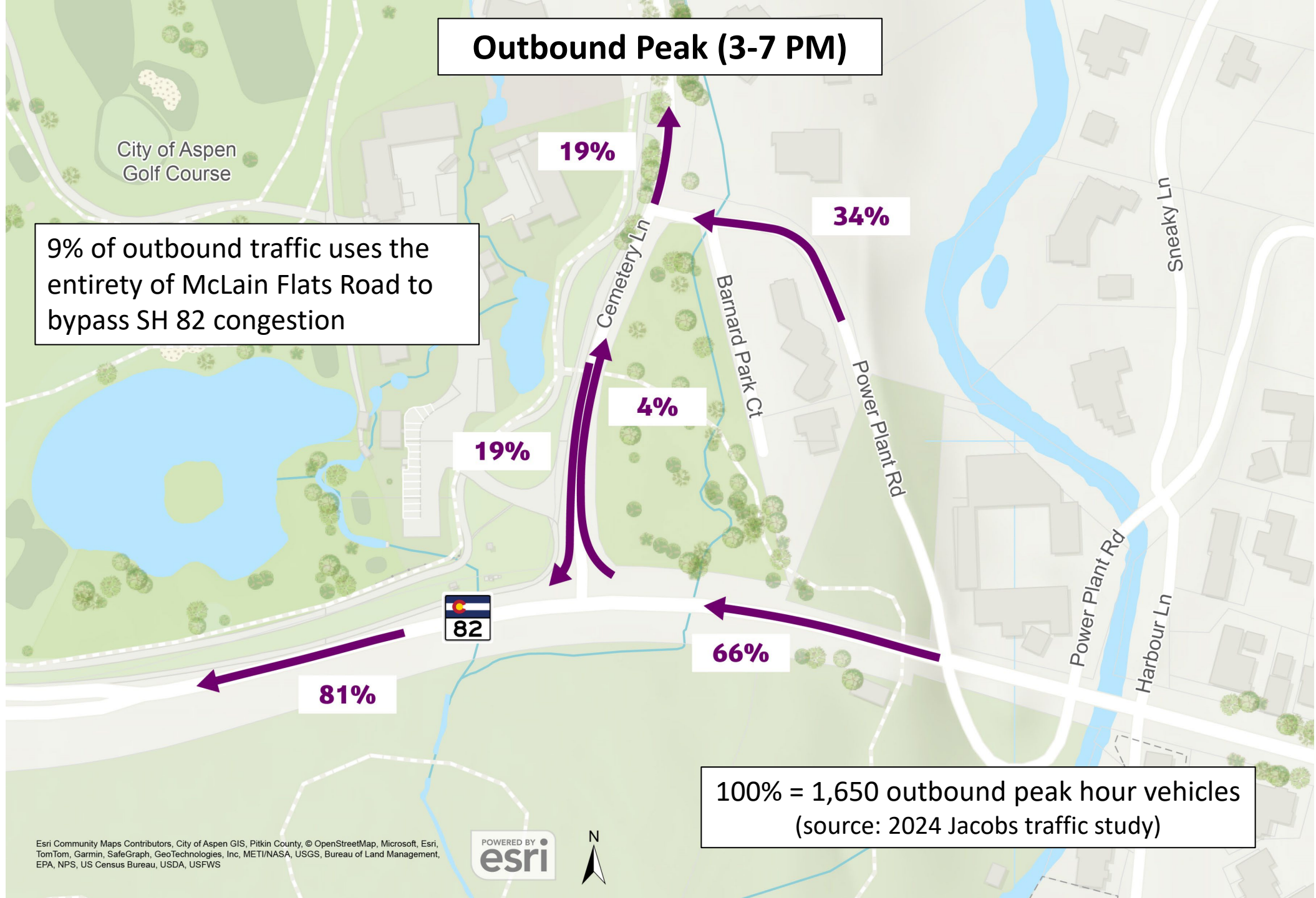


100% = 1,650 outbound peak hour vehicles
(source: 2024 Jacobs traffic study)

Traffic and Transit – Inbound Cemetery Lane Area







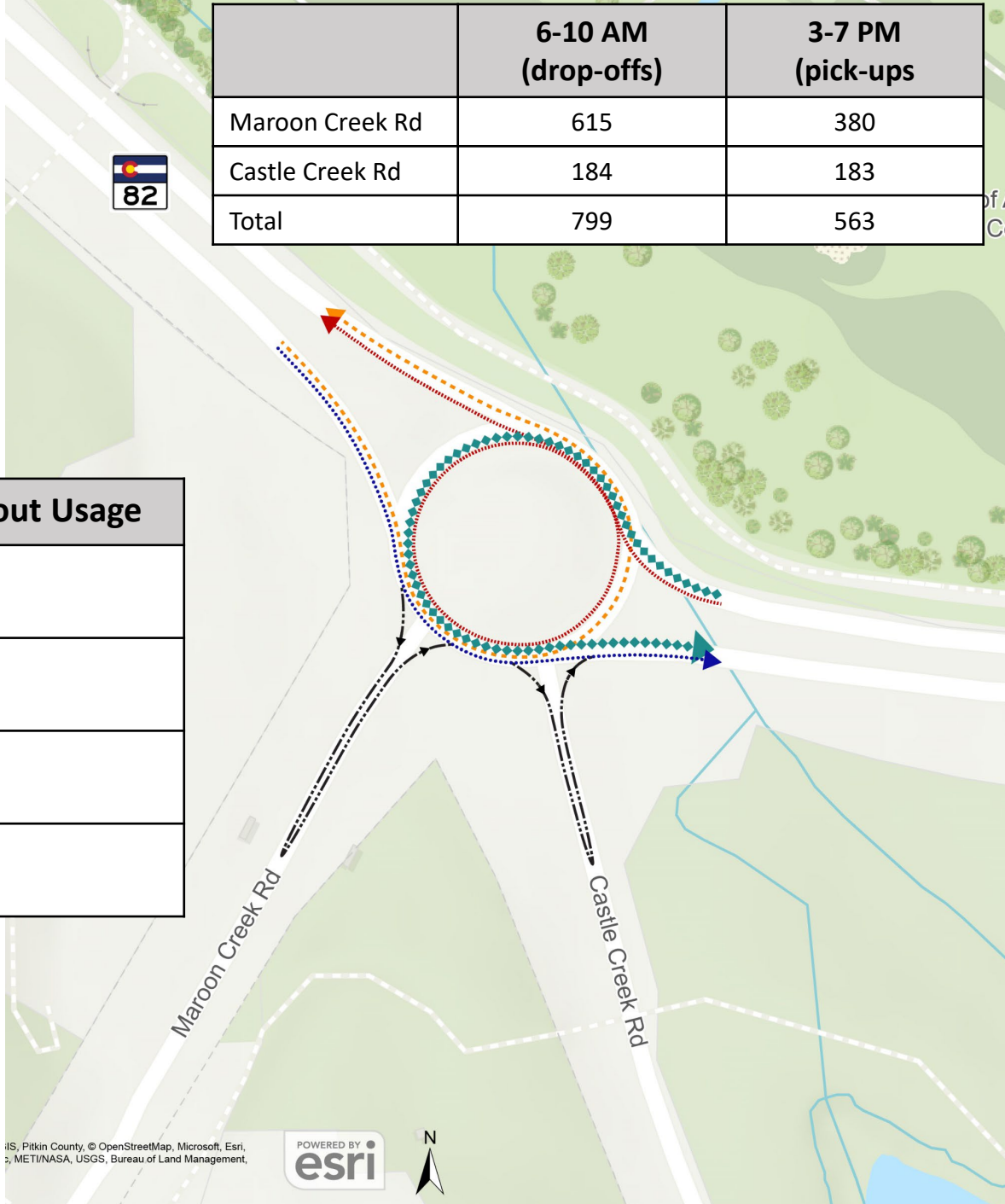
Traffic and Transit – Outbound Cemetery Lane Area



Traffic and Transit – Maroon Creek Roundabout

Note: All vehicle trips in this slide use Maroon Creek Road or Castle Creek Road for a pick-up or drop-off (data from February 2024)

Line Color	Primary Trip Purpose	Percent of Total	Roundabout Usage
	People who live around Downtown Aspen, returning home	43%	1 loop
	People who live around Downtown Aspen, going to work downvalley	21%	1.5 loops
	People who live downvalley, going to work around Downtown Aspen	20%	0.5 loops
	People who live downvalley, returning home	16%	1 loop



Traffic and Transit – Key Findings

- Transit:

- Transit is heavily used to get into and out of Aspen – but not always convenient
- Non-continuous bus lanes lead to transit delay in mixed traffic

- General Traffic:

- Bottlenecks contribute to large queues and travel delays
- Congestion encourages queue jumpers
 - Inbound and outbound commuters use McLain Flats Road - not intended for heavy traffic.
 - Outbound queue jumpers cause congestion in West End neighborhoods (via Power Plant Road).
- Seasonal traffic mixes with commuter traffic at Maroon Creek roundabout:
 - School traffic (single bell schedule)
 - Winter ski traffic
 - Summer visitor/residential traffic

System Redundancy – Emergency Response and Evacuation



System Redundancy/Emergency Response and Evacuation – Key Findings

- Congestion on SH 82 and lack of redundancy results in:
 - Delayed emergency response times
 - Long evacuation times
- Problems will worsen with new development, traffic increases and climate change

Safety



Safety – CDOT Data – SH 82 Total Crashes per Mile

- 760 Segment Crashes

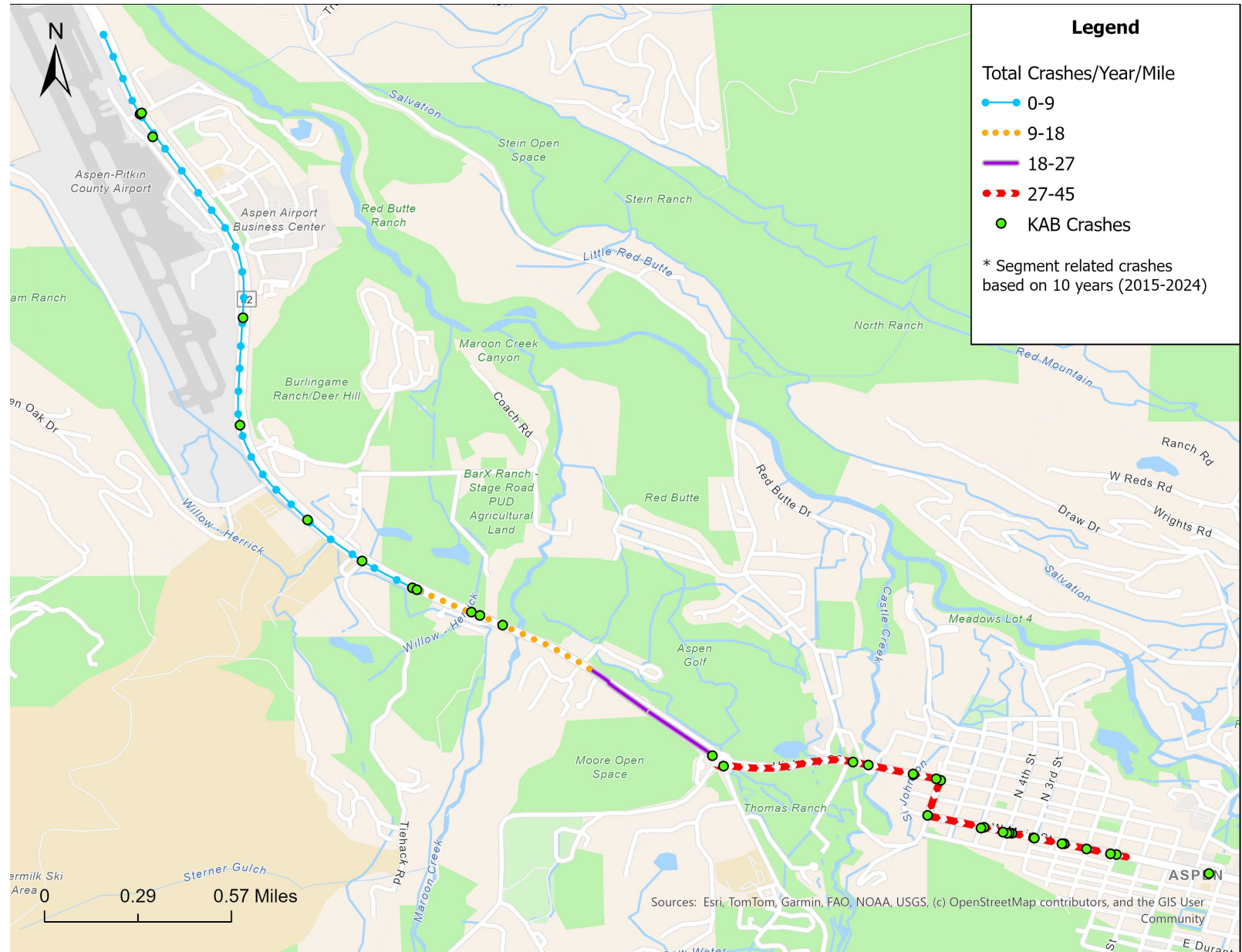
- 31 KAB (injury/fatal)

- Crash Types

- Rear-ends
- Sideswipes
- VRU (ped/bikes)

- Crash Times

- During the Day



Safety – Key Findings

- SH 82

- Traffic crashes progressively worsen as you get into Aspen
- Crash rates higher than similar highways
- Congestion is primary cause

- Intersections

- High intersection crash rates in town and near Rubey Park Transit center –higher crash and injury rates with pedestrians

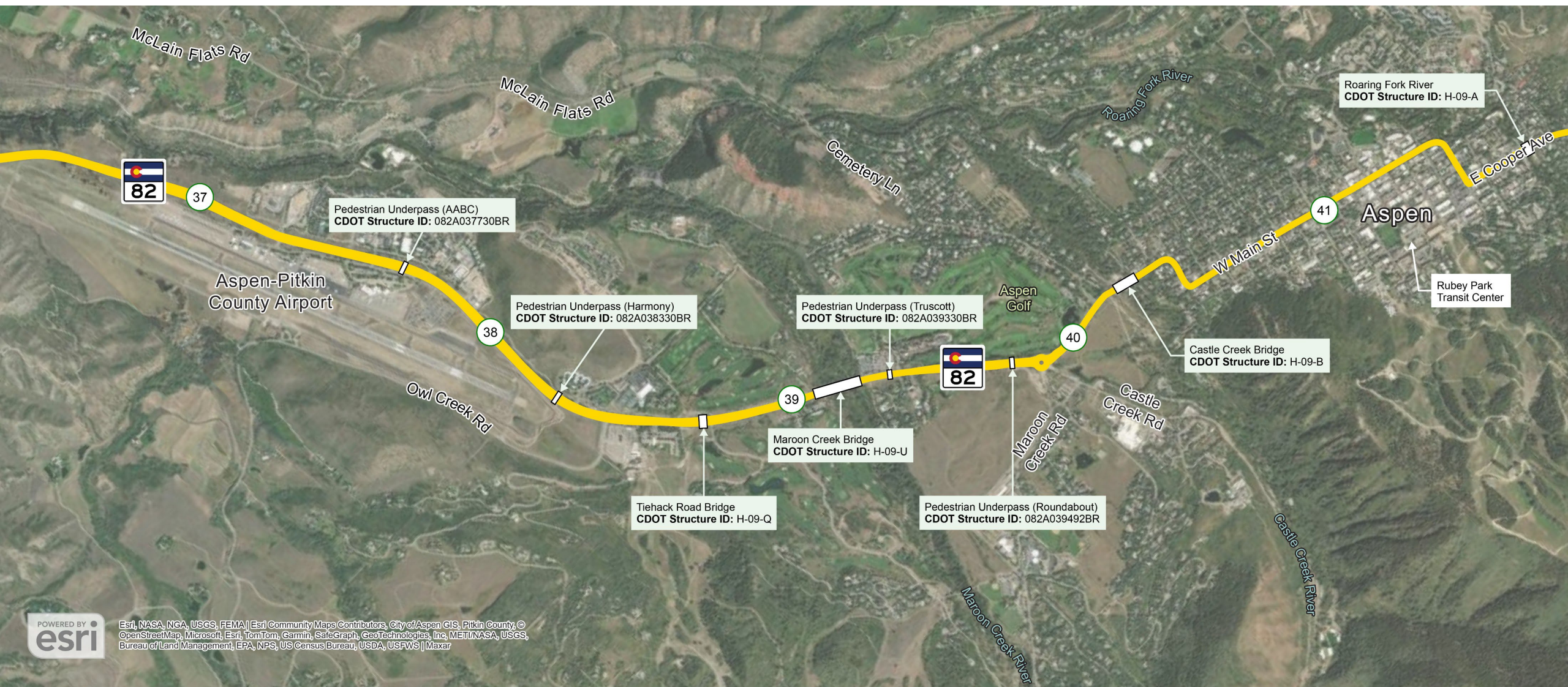
- McLain Flats Road Diversion

- Road not designed for heavy commuter traffic volumes
- SH 82 congestion causing diversion—results in high number of crashes

Infrastructure Condition



Infrastructure Condition – Study Area



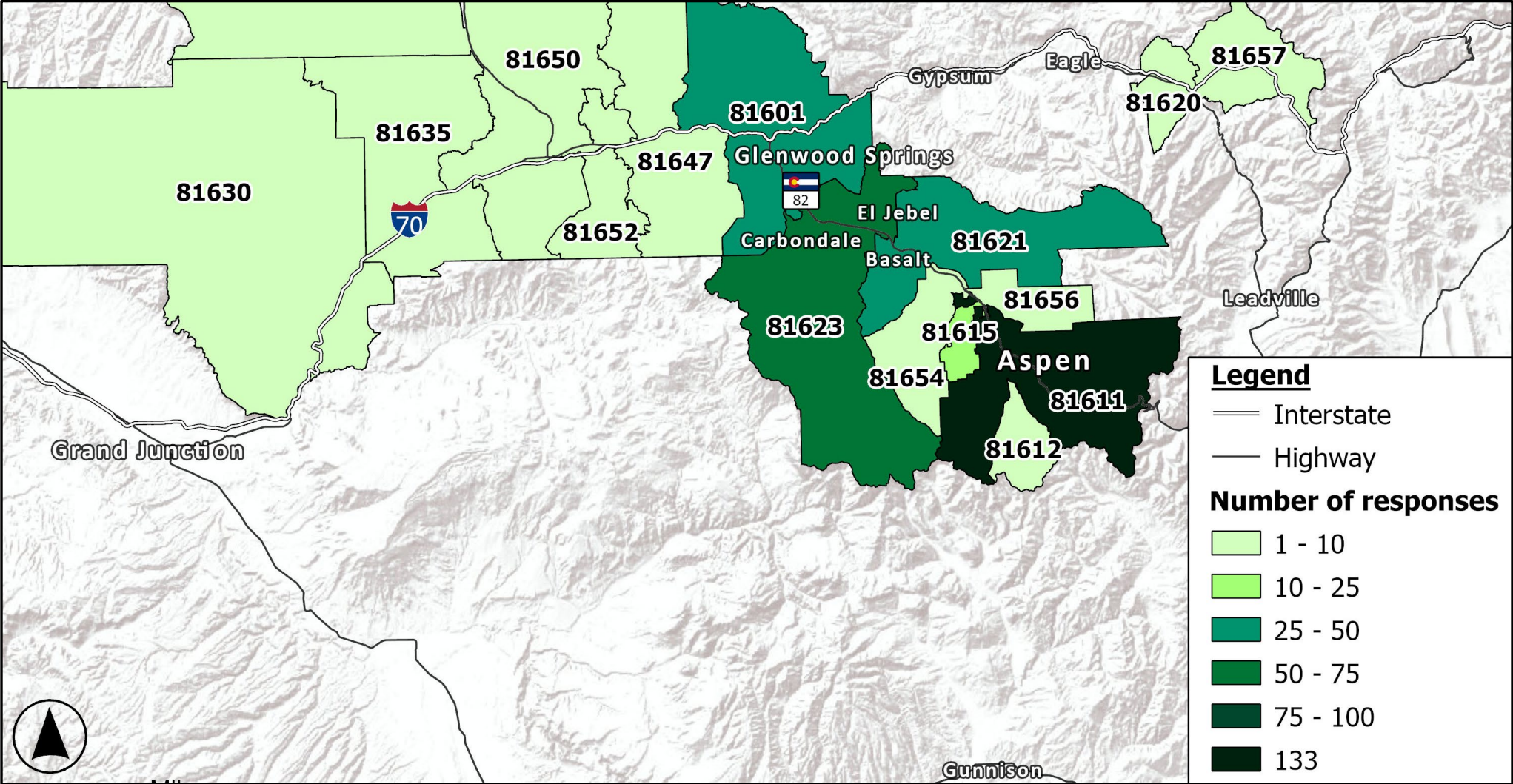
Infrastructure Condition – Key Findings

- Structures/Pavements
 - Aging pavement/structures require more maintenance costs
- Shoulder Widths
 - Standardized shoulder widths to facilitate emergencies
- Bike/Ped Facilities
 - Safe crossings, connectivity and passage (ADA)
- Roundabout is a clog to the SH 82 system
 - Geometry is contributing to delays and conflict points
- Inefficient Transit lanes and facilities
 - Bus lane discontinuity
 - Inadequate staging space and out of direction staging

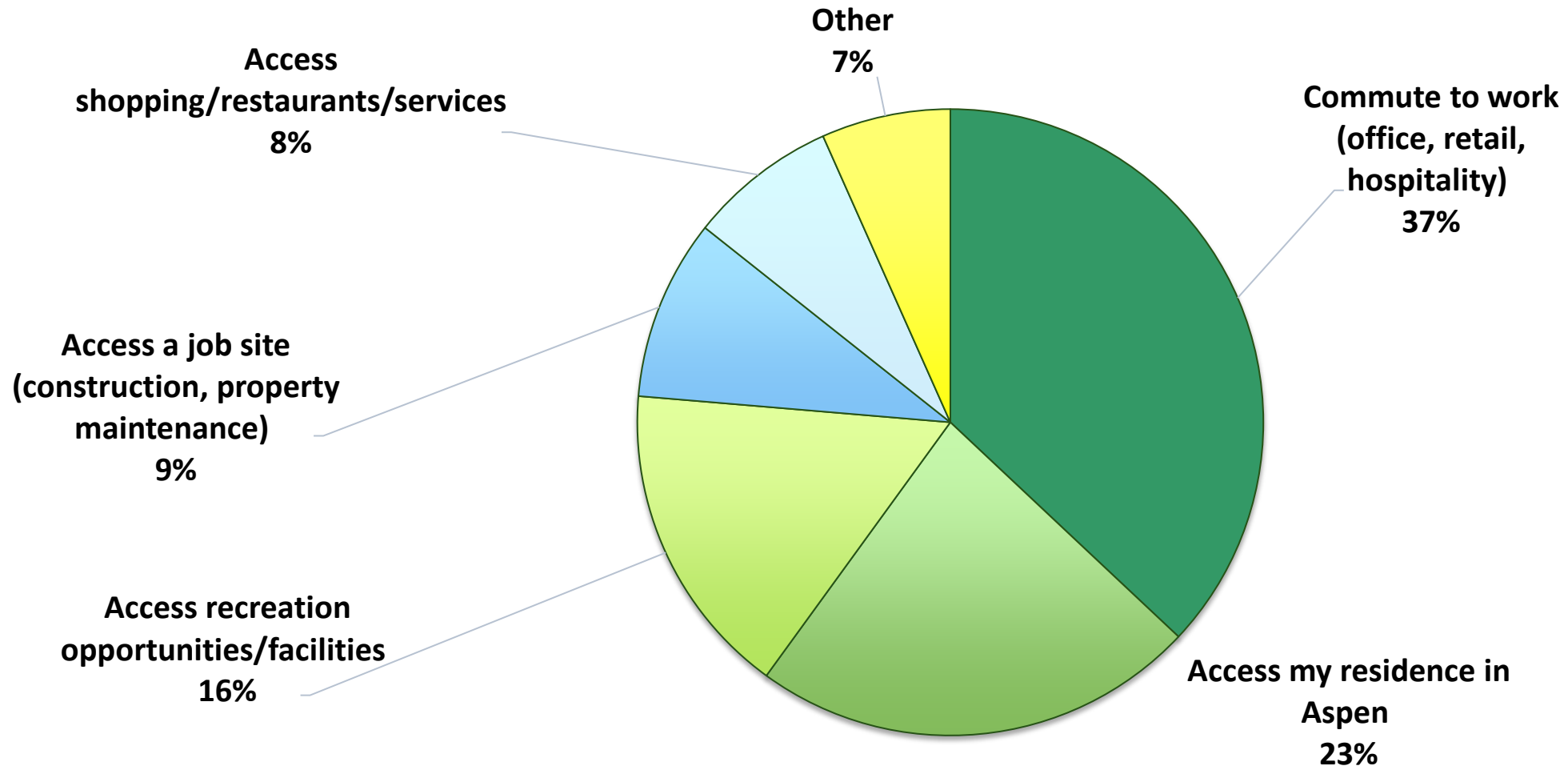
Public Input on SH 82



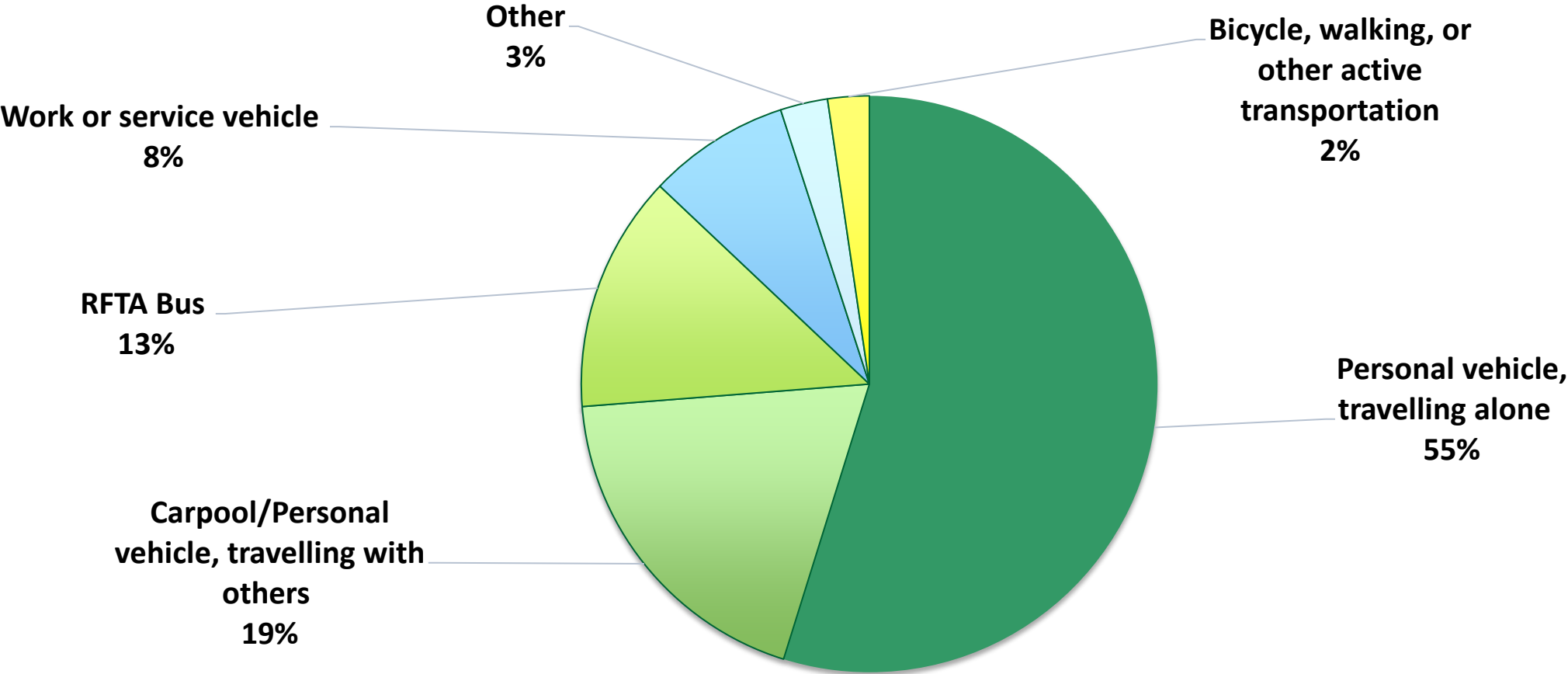
Public Input on SH 82 – Responses by Zip Code



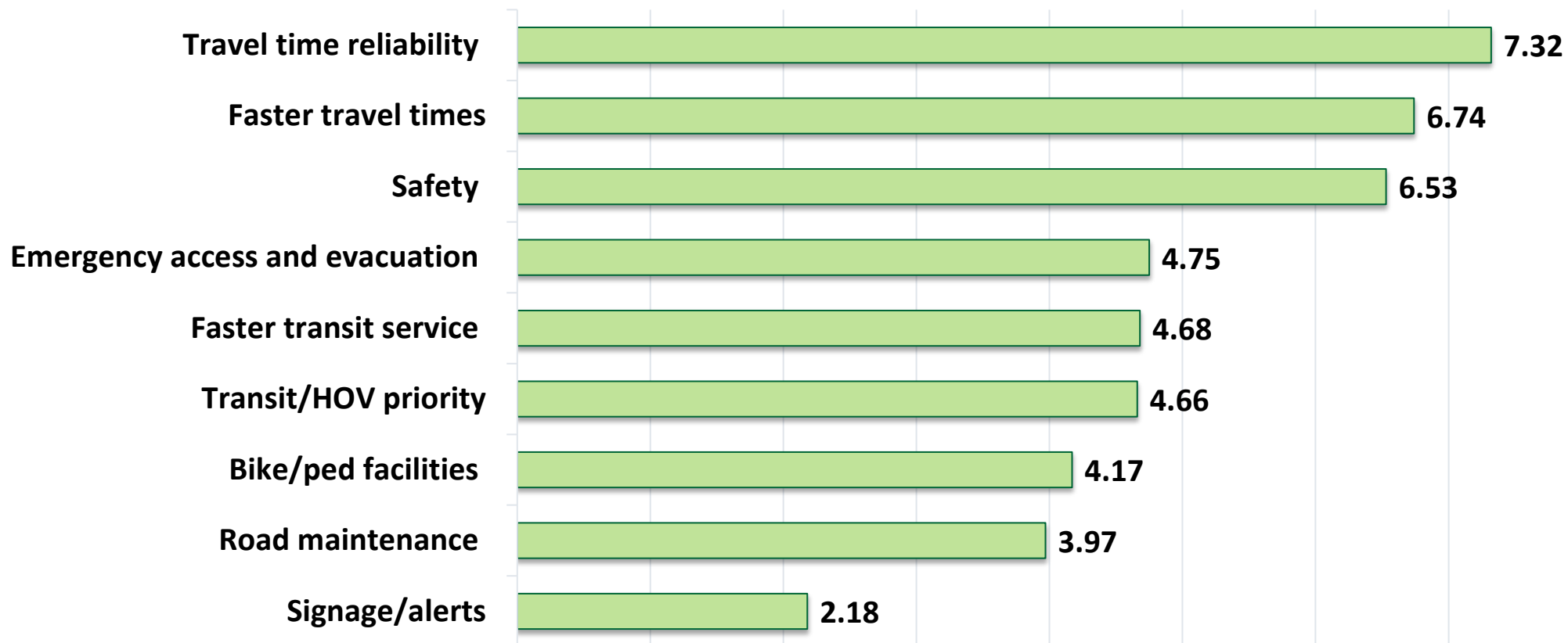
Public Input on SH 82 – Which Statement Best Describes Why You Travel to Aspen?



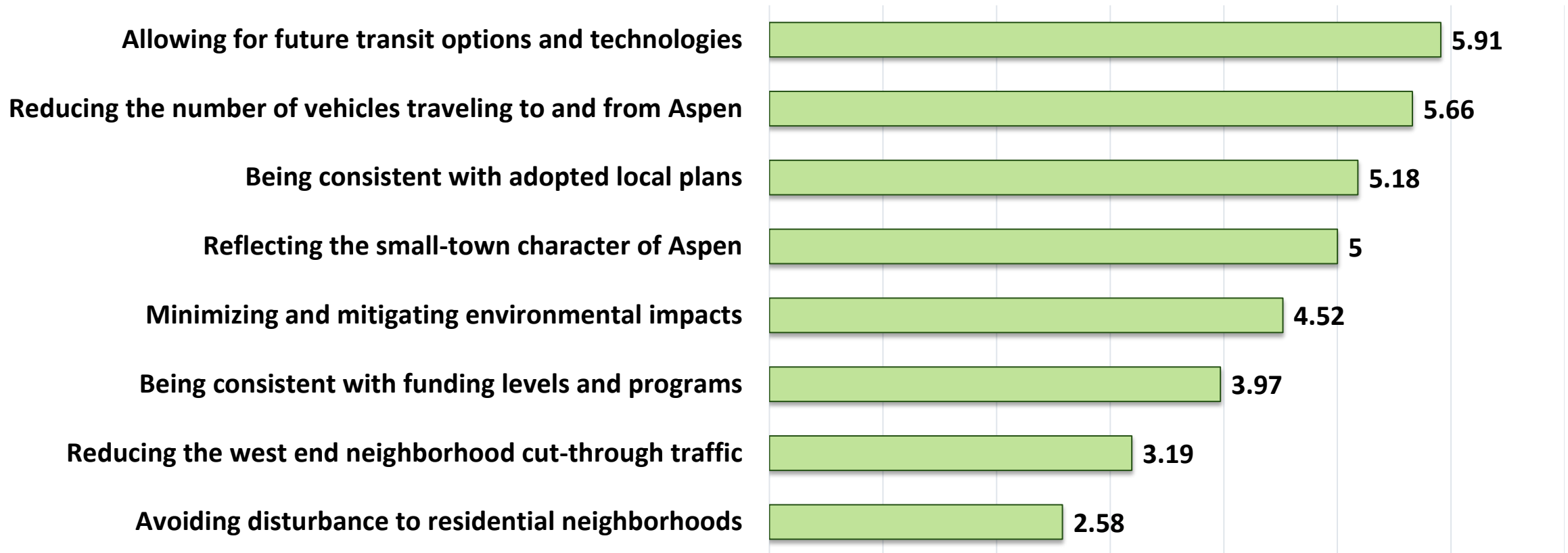
Public Input on SH 82 – What Mode of Travel Do You Use When for Travel to/from Aspen?



Public Input on SH 82 – What is Most Important to You When You Travel to/from Aspen?



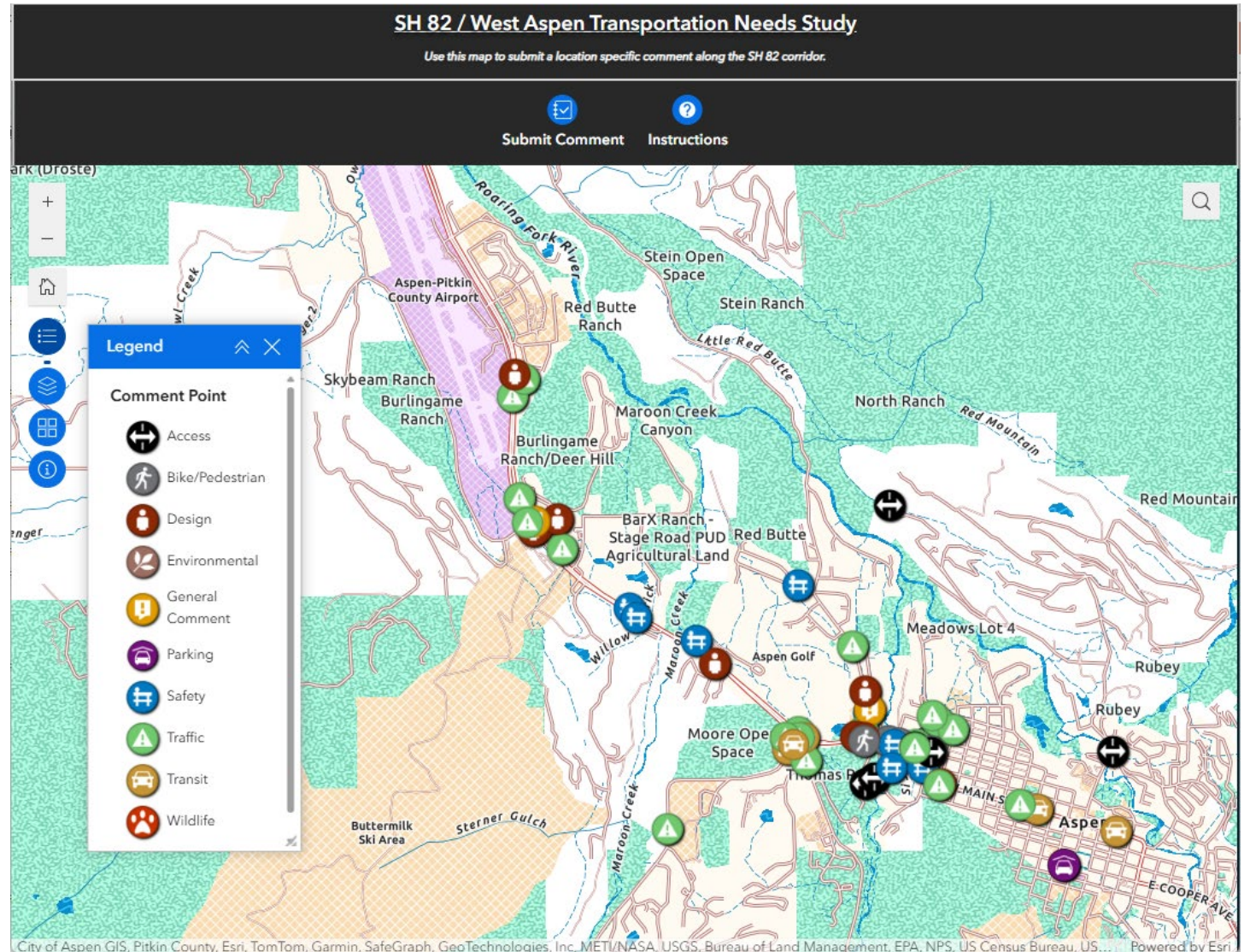
Public Input on SH 82 – What other Considerations are Important for Improving SH 82 to/from Aspen



Public Input on SH 82 – Interactive Map

Top Comment Categories

- Traffic
- Safety
- Bike/Ped



<https://experience.arcgis.com/experience/fe2fb1a983d84c549128b57c0cffae30?draft=true>



CITY OF ASPEN

Stakeholder Workshop

Stakeholder Workshop – Stakeholder Input on Transportation Needs

Study Team

- City of Aspen
- Jacobs Engineering

Stakeholder Organizations

- CDOT
- EOTC
- RFTA
- Aspen School District
- Aspen Country Day School
- Town of Carbondale
- Town of Basalt
- Town of Snowmass
- Pitkin County
- City of Aspen – Engineering, Transportation, Parks, Parking
- Aspen Institute
- Aspen Ski Co
- Aspen Fire
- Aspen Police
- Aspen Ambulance District
- Pitkin County Sheriff
- Colorado State Patrol
- Pitkin County Emergency Management

Stakeholder Workshop – Prioritization of Needs

Votes	Needs
13	Improve Transit Efficiency and Travel Times
11	Reduce Single Occupancy Vehicles Use/Improve Multimodal Options (Pedestrian, Bicycle, Transit)
9	Improve Emergency Access and Response Times
9	Reduce Community Evacuation Time
8	Improve Safety/Reduce Crashes
8	Improve Infrastructure Condition (Roads, Bridges)
6	Provide Faster Travel Times/Improve Bottleneck Operations
5	Provide Travel Time Reliability
2	Improve Park-n-Ride Parking Capacity (Regionally)
0	Improve Signage and Accident/Travel Delay Notifications

Stakeholder Workshop – Stakeholder Input on Community Goals

Public Survey

- Be consistent with adopted local plans
- Be consistent with funding levels and programs

Stakeholder Workshop

- Encourage future transit options and technologies
- Reduce the number of vehicles into and out of Aspen
- Reflect the small-town character of Aspen
- Minimize environmental impacts
- Reduce neighborhood cut-through traffic

- Streamline transit travel time and reliability
- Consider regional impacts
- Provide equitable solutions
- Acknowledge the need for worker vehicles



CITY OF **ASPEN**

Project Limits

Project Limits





CITY OF **ASPEN**

Next Steps

Next Steps – Meetings

- EOTC Briefing (5/15)
 - Report out on Pre-NEPA tasks and activities
 - Listening session regarding project limits, needs and goals
- Transportation Coalition Presentation (5/1)
 - Present transportation needs information
- CDOT/FHWA Coordination Meeting (TBD)
- City Council Meeting (6/24)
 - Present draft Purpose and Need Statement
 - Request Council direction on next steps



Next Steps – EIS for New Alternative(s)



Draft purpose and need for
City/CDOT/FHWA review



City funding authorization



Initiate NEPA



Next Steps – Preferred Alternative Reevaluation



City funding authorization



Consult with CDOT/FHWA on PA modifications (i.e. platform width, new technology)



Initiate Re-evaluation

