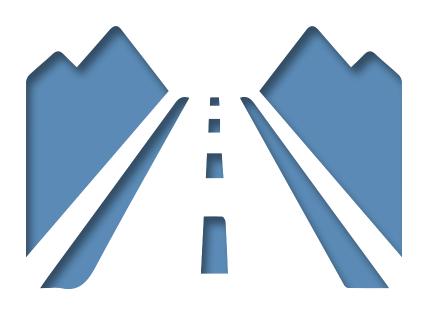


HOW DID WE GET HERE?





Traffic Congestion

This rapid growth has caused major road congestion issues. During the 2016 winter and summer seasons, a combined 2.1 million vehicles traveled the I-70 Mountain Corridor.

BIG IMPACT FROM POPULATION BOOM

Colorado has become the second fastest growing state.* The total current population is over 5.5 million, with 91,726 new residents in 2016.

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT A PATH FORWARD

*

According to the Dec. 20, 2016 U.S. Census Bureau report



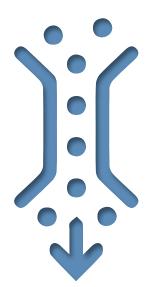
HOW DID WE GET HERE?

PLANNING PROCESS IS UNDERWAY Recognizing the need for westbound improvements, CDOT and Clear Creek County have begun a planning process for the top of Floyd Hill to Empire Junction.



Programmatic **Environmental Impact** Statement (EIS)

Process ended in 2011 and resulted in an official Record of Decision (ROD) that identified list of selected improvements.



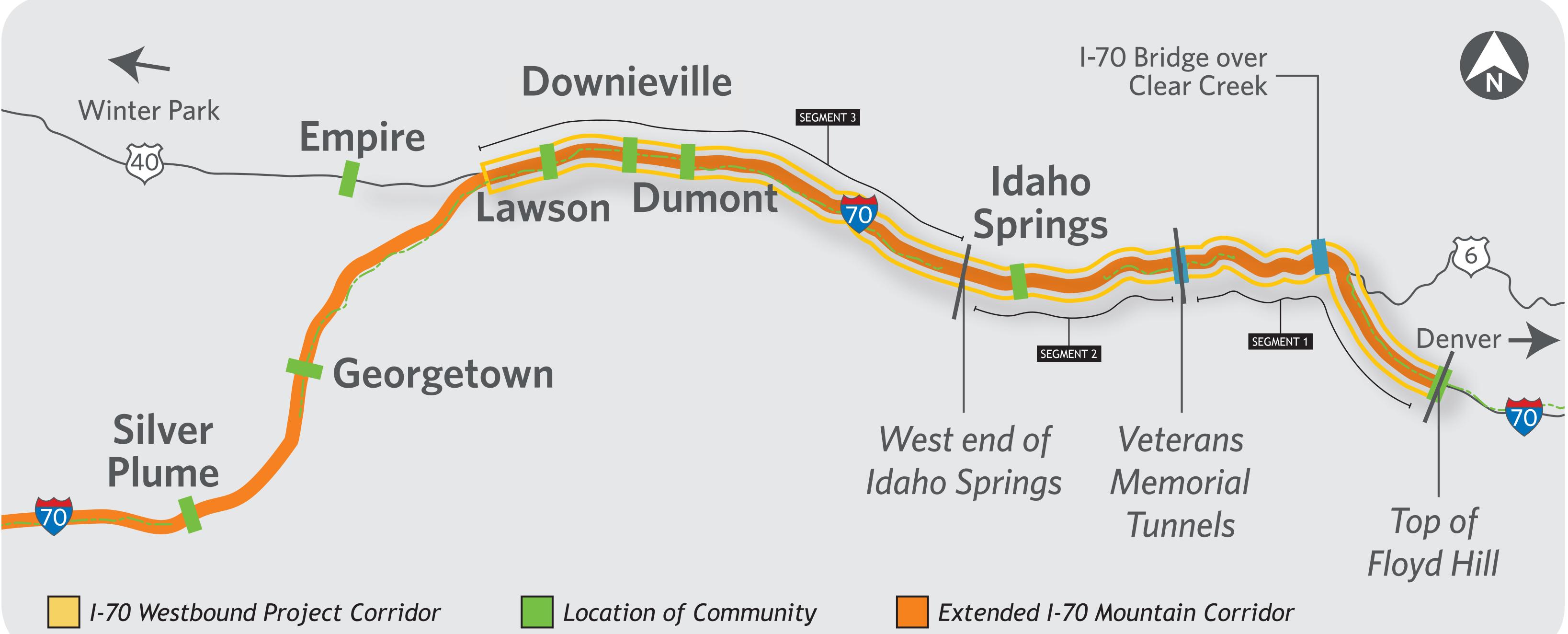
WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT 1.02 A PATH FORWARD

Goals of the Concept Development

+ Identify concepts for the roadway to be advanced into the National Environmental Policy Act (NEPA) Process. + The work will examine context of the communities and landscapes through which I-70 travels while identifying any fatal flaws with concepts.



PROJECT CORRIDOR



WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT







I-70 MOUNTAIN CORRIDOR IMPROVEMENT PROJECTS



Additional Capacity

- + Six lane capacity from Floyd Hill through the Veterans Memorial Tunnels, previously known as the Twin Tunnels
- + Frontage road from Idaho Springs to US 6



Interchange Efficiency

+ Empire Junction interchange improvements



Safety Improvements

- + PARTIALLY COMPLETED: Eastbound acceleration lane from the Eisenhower-Johnson Memorial Tunnels to Herman Gulch
- + Westbound acceleration lane from Bakerville to Eisenhower-Johnson Memorial Tunnels

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT A PATH FORWARD



Multimodal Improvement

+ PARTIALLY **COMPLETED:**

Bike trail from Idaho Springs to US 6





ADVANCED GUIDEWAY SYSTEM (AGS)

CDOT'S Advanced Guideway System feasibility study was completed in 2014. It came to the following conclusions:

- + 4.6 to 6.2 million annual riders
- + \$13.3 to \$16.5 billion in capital costs
- + \$114 to \$157 million in annual operating revenue
- + Technically feasible



OTHER IMPROVEMENTS IDENTIFIED

+ Not currently financial feasible without local, state, or federal funding sources that can cover capital costs + Westbound concepts will not stop future Advanced Guideway System

+ Truck operations improvement in non specified locations

+ Interchange improvements at Georgetown, Downieville, Fall River Road, and base of Floyd Hill + Non-infrastructure strategies such as: Expanding use of existing infrastructure, bus service, programs for improving truck movements, and traveler information

> WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT 1.05 A PATH FORWARD

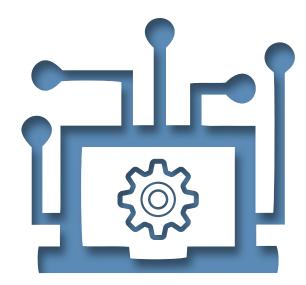




ADVANCED TECHNOLOGY OPPORTUNITIES



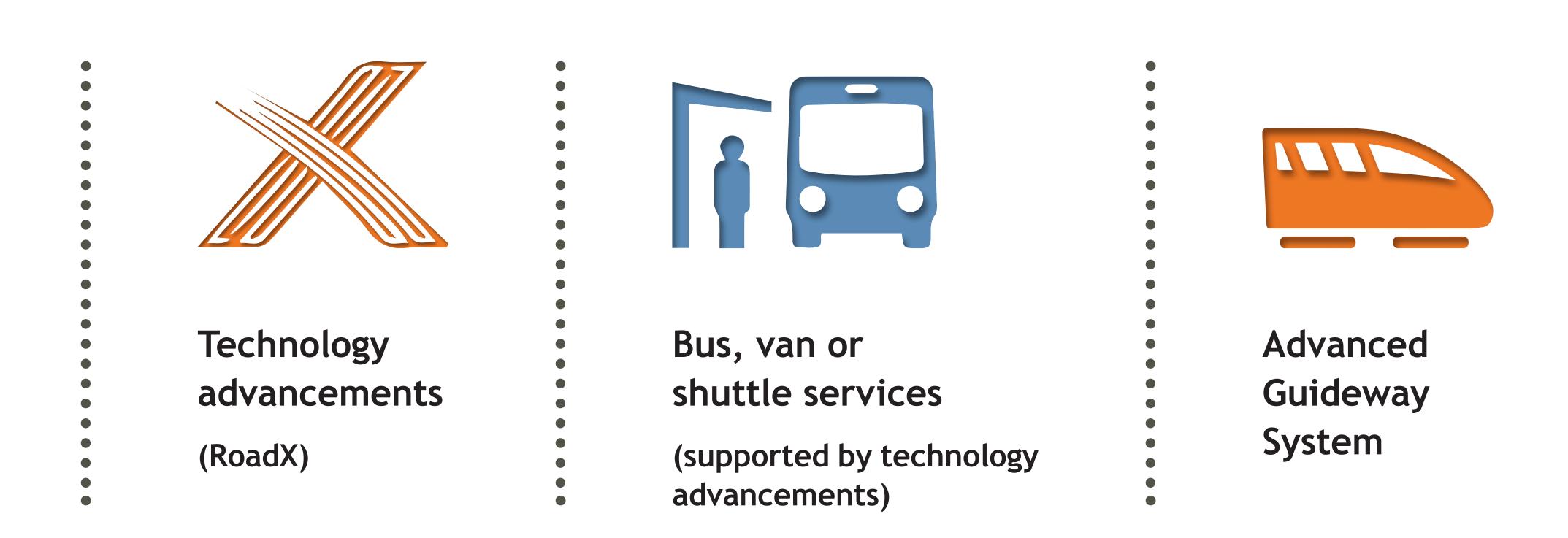
Autonomous and connected vehicles



Information technology systems

What is RoadX?

The RoadX vision is to transform Colorado's transportation system into one of the safest and most reliable in the nation by teaming up with public and industry partners to harness emerging technologies. Learn more: cdot.gov/programs/roadx



WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT A PATH FORWARD





ADAPTIVE MANAGEMENT PROCESS IS A VITAL COMPONENT



Maximum program of improvements (including 6 lane capacity in Clear Creek County) implemented only after evaluating the need for those improvements in 2020.



Recognizes that future travel demand and behavior are uncertain.



Recognizes that global, regional, or local trends or events have unexpected effects on travel needs, behavior and patterns.



May need to consider other improvements in response to unexpected trends or events.

What is Adaptive Management?

It is a structured commitment to a deliberate style of repetitive decision making with an aim to revisit and analyze key questions at important project milestones.

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMEN 1.07 A PATH FORWARD

COMPLETED PROJECTS FROM THE RECORD OF DECISION

VETERANS **MEMORIAL TUNNELS**



+ Veterans Memorial Tunnels, previously known as the Twin Tunnels, were widened in both directions.

I-70 MOUNTAIN **EXPRESS LANES**



+ The I-70 Mountain Express Lane Project was completed in Spring 2016. It extends eastbound from **Empire Junction through the** Veterans Memorial Tunnels.

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT 2.01 A PATH FORWARD

ACCELERATION LANE ADDITION



+ Eastbound acceleration lane addition just east of the **Eisenhower Johnson Memorial** Tunnel was partially completed.



EASTBOUND IMPACT

POSITIVE EFFECT OF RECENT CONSTRUCTION



Travel times for all lanes has improved 20 to 50 percent

Time to clear corridor back-ups has substantially improved

Data is from the I-70 Mountain Express Lane January 1 through April 10, 2016 and May 30 through September 5, 2016 Summary of Findings Report



WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT A PATH FORWARD

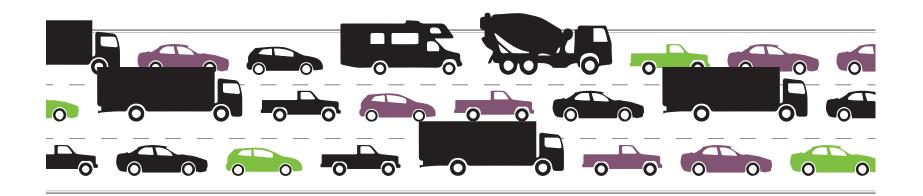




EASTBOUND DATA

VOLUME Winter: 1.03 million vehicles

2010-2012 average: 896,000 vehicles



Summer: 1.06 million vehicles

2010-2012 average: 993,500 vehicles

Data is from the I-70 Mountain Express Lanes January 1 through April 10 and May 30 through September 5 Summary of Findings Report

CORRIDOR SAFETY IMPROVED Corridor incidents were down 15 percent in the winter season.

TRAVEL TIMES IMPROVED



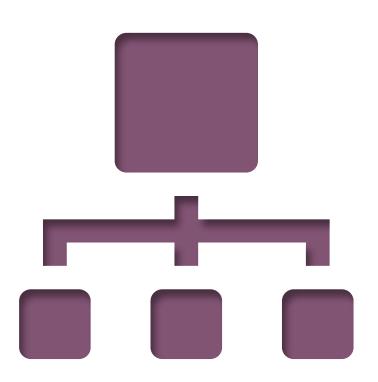
In a worst-day comparison between 2015 and 2016, eastbound travel times between Georgetown and US 40 improved by 21 minutes with Mountain Express Lanes.

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT 2.03 A PATH FORWARD



OUR LESSONS LEARNED

FEEDBACK ON RECENT CONSTRUCTION



Need better coordination among the multiple construction projects



Need better communication with the business community and the public, especially about road closures



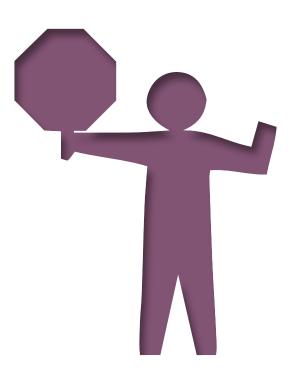


Need more signage that business access is open



Need better construction quality

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT



Need more sufficient traffic control





WHY ARE WESTBOUND **IMPROVEMENTS NEEDED?**



TRAFFIC IS STILL A DRAG

Westbound congestion that starts at the base of Floyd Hill on Saturday mornings and Friday afternoons is a drag on the local economy and impacts tourism negatively.



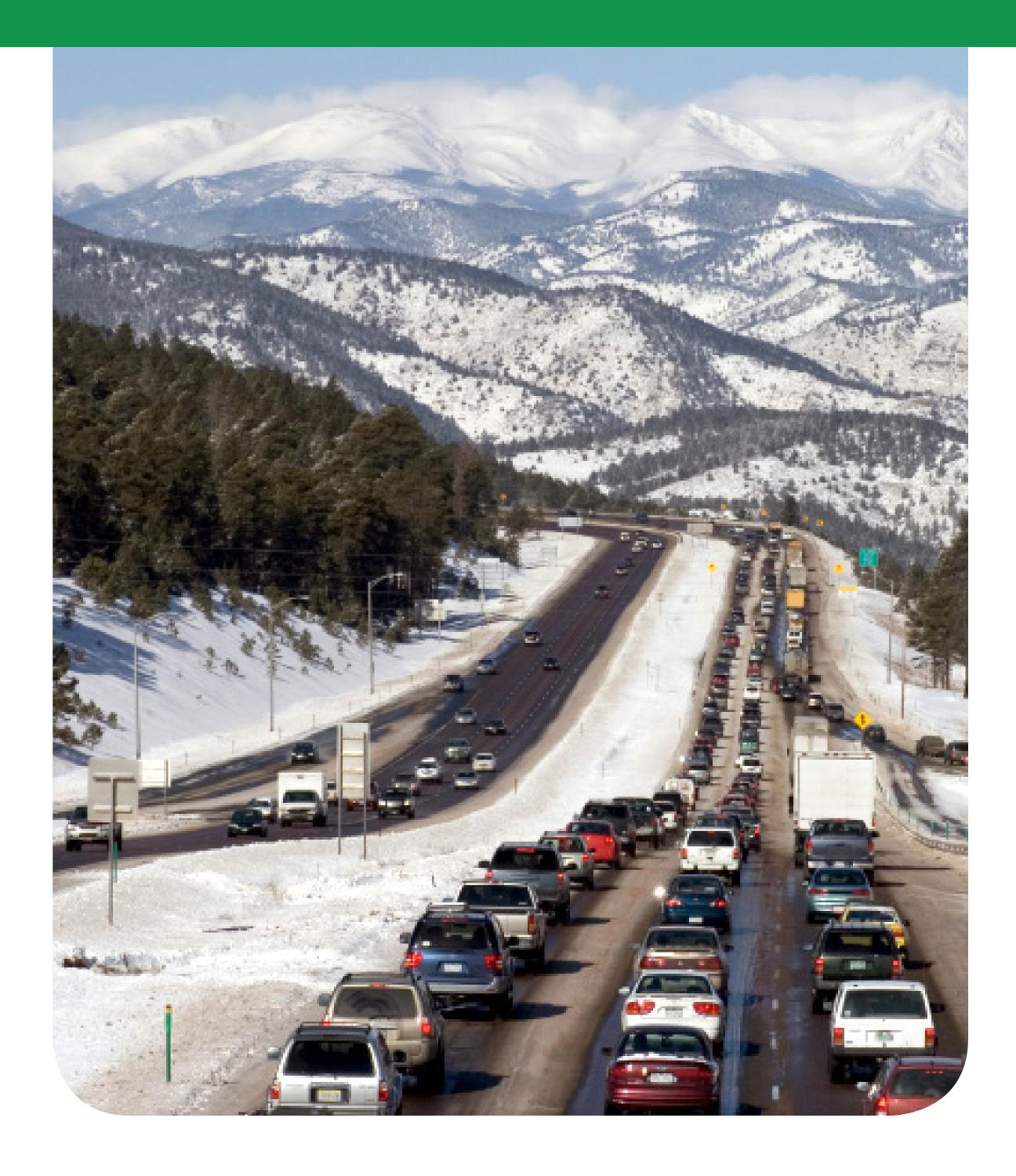
HAZARDS REMAIN THE SAME

Increasing number of westbound crashes occur when the roads are congested. This also creates delays for emergency response vehicles.



LOCALS ARE STILL STRANDED

Local access becomes nearly impossible during westbound gridlock time periods on I-70.

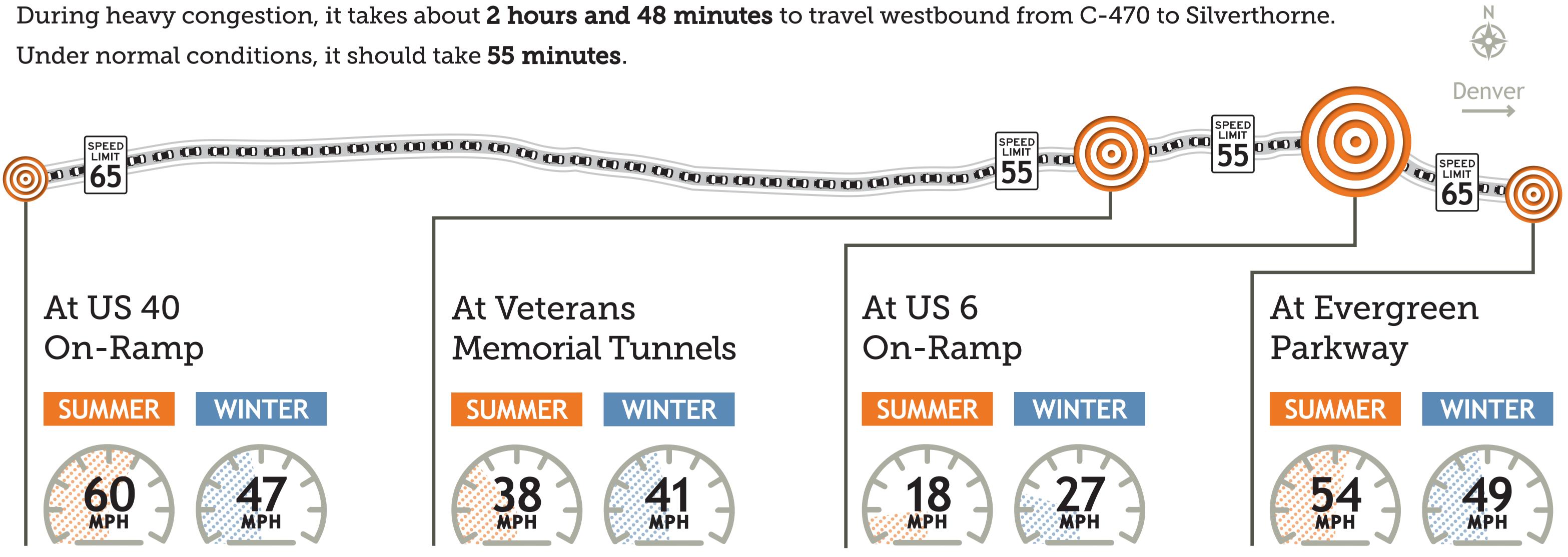


WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT A PATH FORWARD





CORRIDOR SPEEDS CAN BE SEVERELY IMPACTED



WESTBOUND IMPACT

Speeds are an average of the slowest speeds on Friday and Saturday in the Summer and in the Winter

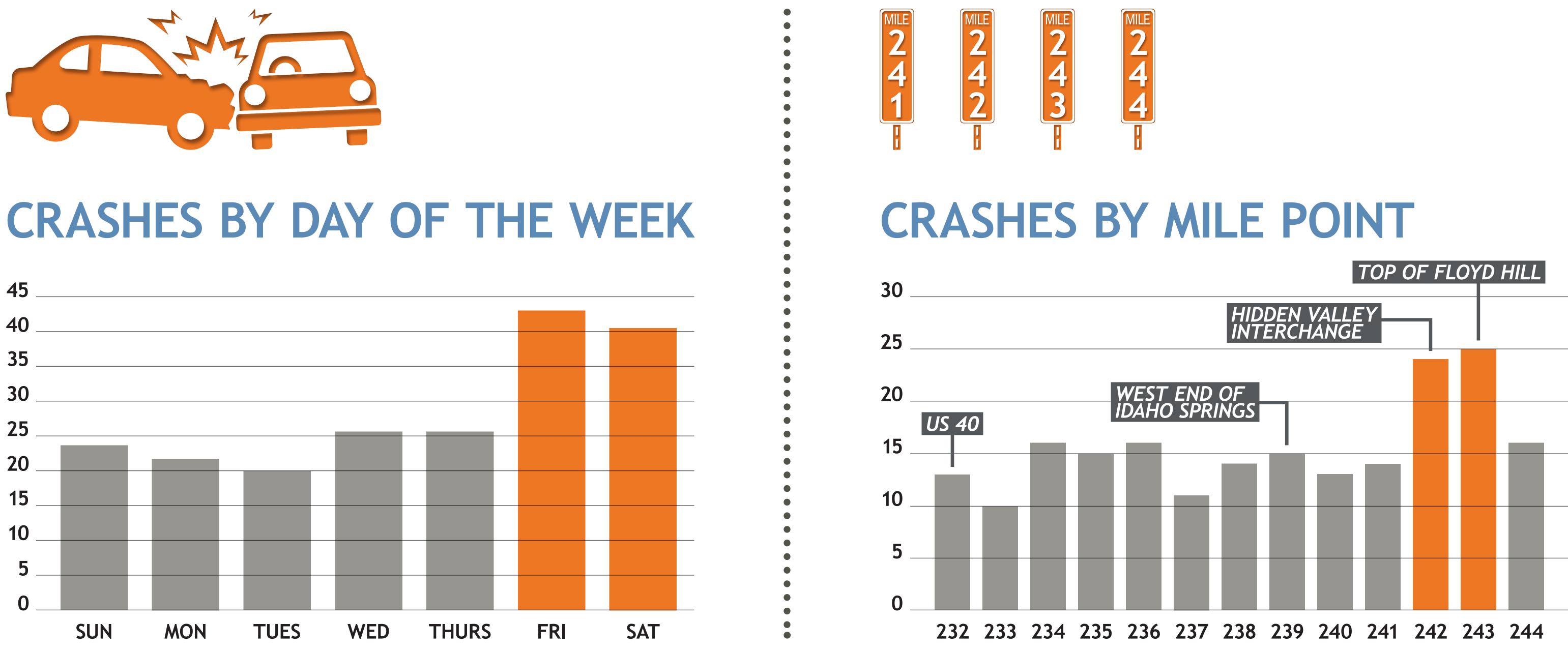
WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT A PATH FORWARD





WESTBOUND DATA





Westbound crash data is from 2012-2015

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT

A PATH FORWARD



WHO'S DOING THE WORK?

CONTEXT SENSITIVE SOLUTIONS

Project Leadership Team

- + Drives Concept **Development Process** and ensures guidance is followed
- + Approves decision making process and enables teams to follow process
- + Determines what materials are relevant for decision making
- + Assists to resolve issues

Technical Team

- + Defines context of project segments and identifies critical issues
- + Evaluates concepts based on critical issues, core values, and evaluation criteria
- + Defines level of feasibility

Engineering Consultants & Contractors

- + Participates in meetings to understand Technical Team perspectives
- + Develops concepts and identifies fatal flaws, constructibility and design
- + Ensures feasibility of Technical Team guidance

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT A PATH FORWARD



Project Management Team*

+ Personnel the

and Technical

Project Leadership

Teams uses to organize, fund and facilitate the process

> * The Project Management Team is comprised of CDOT; HDR, Inc.; THK Associates, Inc; and CDR Consultants



TEAM PARTNERSHIPS

PROJECT **LEADERSHIP TEAM**



- + CDOT
- + Central City
- + City of Idaho Springs
- + Clear Creek County
- + Eagle County
- + Federal Highway Administration
- + Georgetown
- + I-70 Coalition
- + Silver Plume
- + Summit County
- + Town of Empire
- + U.S. Forest Service

TECHNICAL TEAM*



Technical Team is made up of agencies that have been invited to participate

- + CDOT
- + Central City
- + City of Black Hawk
- + City of Idaho Spring
- + Clear Creek Bikewa **Users Group**
- + Clear Creek County
- + Clear Creek County
- + Clear Creek County **Emergency Service**
- + Clear Creek County
- + Clear Creek Econor **Development Corp**
- + Clear Creek Fire A
- + Clear Creek Green Authority
- + Clear Creek Open
- + Clear Creek Rafting
- + Clear Creek School
- + Clear Creek Tourism
- + Clear Creek Watershed Foundation

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- + Colorado Motor Carriers Association
- + Colorado Parks and Wildlife
- + Denver Regional Council of Governments
- + Downieville, Lawson, and **Dumont Neighborhood**
- + Empire Junction
- + Federal Highway Administration
- + Floyd Hill Property Owners Association
- + Georgetown Loop Railroad
- + Gilpin County
- + Jefferson County
- + Loveland Ski Resort
- + Mile Hi Rafting
- + Summit County
- + Trout Unlimited
- + U.S. Forest Service
- + Vail Ski Resorts
- + Winter Park Ski Resort



WHAT'S THE CONCEPT DEVELOPMENT PROCESS?

CONTEXT SENSITIVE SOLUTIONS PROCESS



Estabish context statement



Define core values & issues



Develop concepts with staff, project teams, & public



Evaluate, select, and refine alternative or option



WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT

Determine which option(s) to advance to NEPA



Finalize documents and evaluate process



CONTEXT STATEMENT

The I-70 Mountain Corridor is a magnificent, scenic place.

Human elements are woven through breathtaking natural features. The integration of these diverse elements has occurred over the course of time.

The corridor is a world class recreational destination, a route for interstate and local commerce and a unique place to live. I-70 is also a nationally significant part of the defense network and is the lifeline for many local communities along the corridor.

Current I-70 roadway geometry is constrained, with narrow shoulders and tight curves resulting in decreased safety, mobility, accessibility and capacity for travelers. Westbound improvements are needed to lessen delays caused by peak period volumes in a manner that protects and enhances the unique environmental, historic, community and recreational resources in the I-70 Mountain Corridor.

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT 3.07 A PATH FORWARD

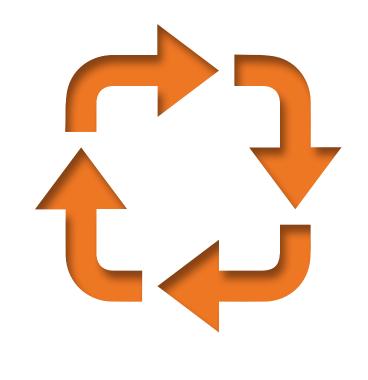


CORE VALUES





Mobility & Accessibility

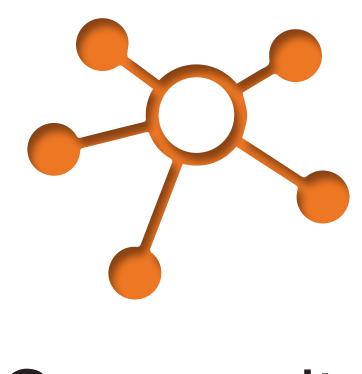


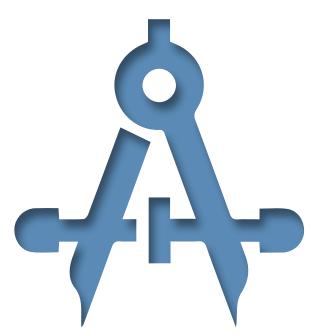
Sustainability



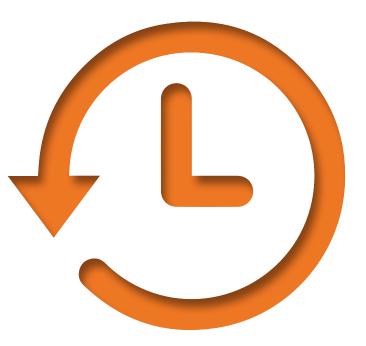


Implementability





Engineering Criteria & Aesthetic Guidelines



Historic Context

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT A PATH FORWARD



Community

Environment

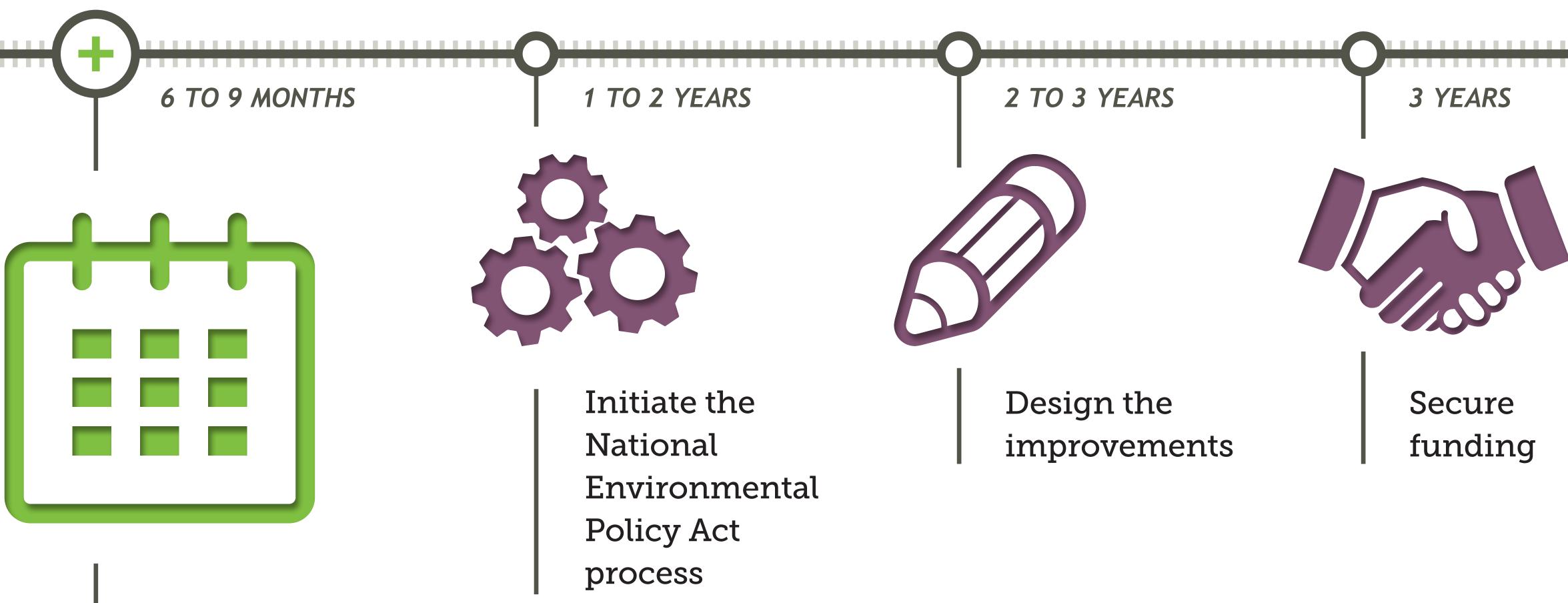


Decision Making



WHAT'S NEXT?

WESTBOUND CONCEPT DEVELOPMENT TIMELINE



Second public meeting Summer 2017

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT A PATH FORWARD

3 TO 4 YEARS

Construct

Plan is to construct the Westbound Peak Period Shoulder Lane project first, to minimize construction effects in Clear Creek County.



Please visit the map table to write down your thoughts and ideas for Westbound Improvements



What concerns do you have for each project segment?





Send your additional comments and questions to Neil.Ogden@state.co.us Go online to codot.gov/projects/i-70mountaincorridor

TELL US YOUR IDEAS



What are your suggestions for improvements for each project segment?

WANT TO LEARN MORE OR HAVE QUESTIONS?

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT 4.02 A PATH FORWARD







A Path Forward

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT

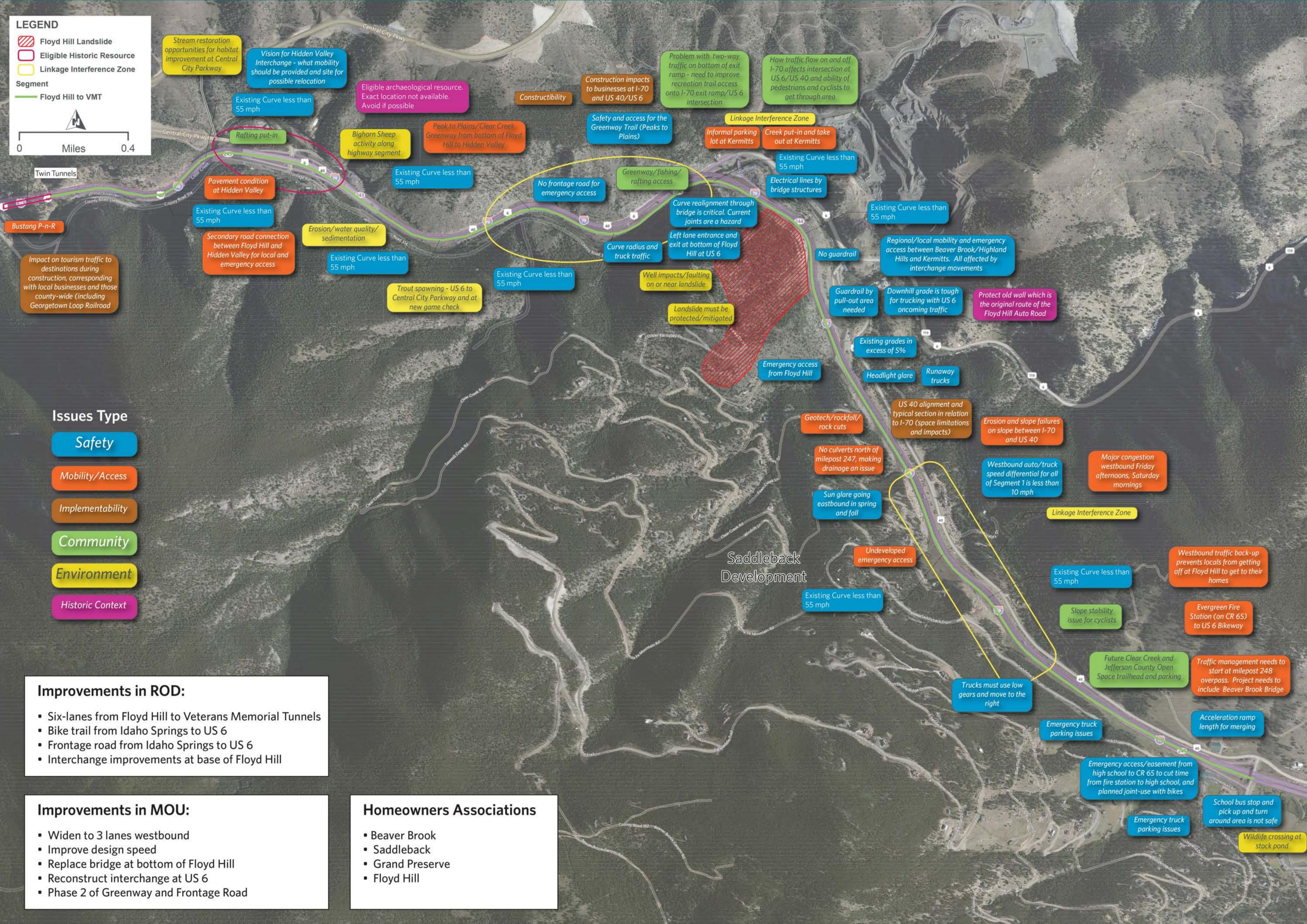
FOR JOINING JS



COLORADO **Department of Transportation**



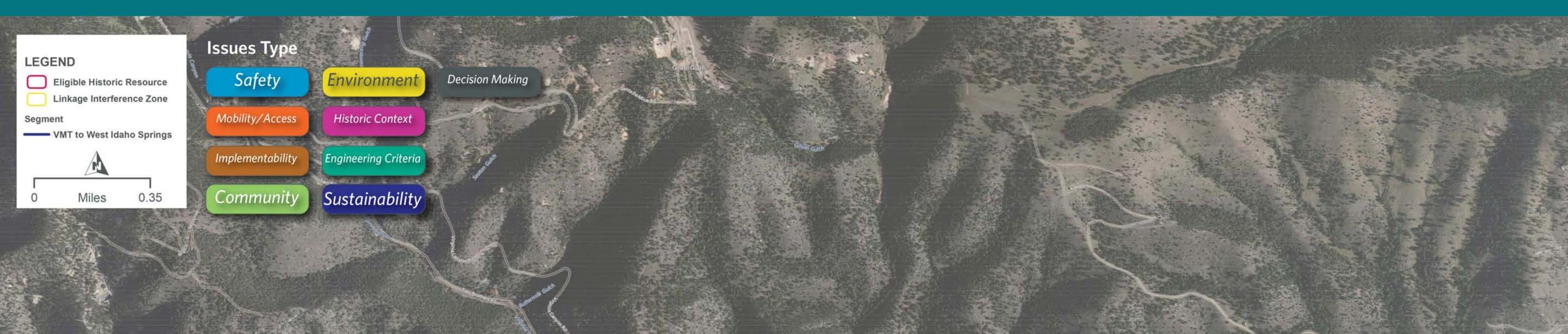
CRITICAL ISSUES: SEGMENT 1

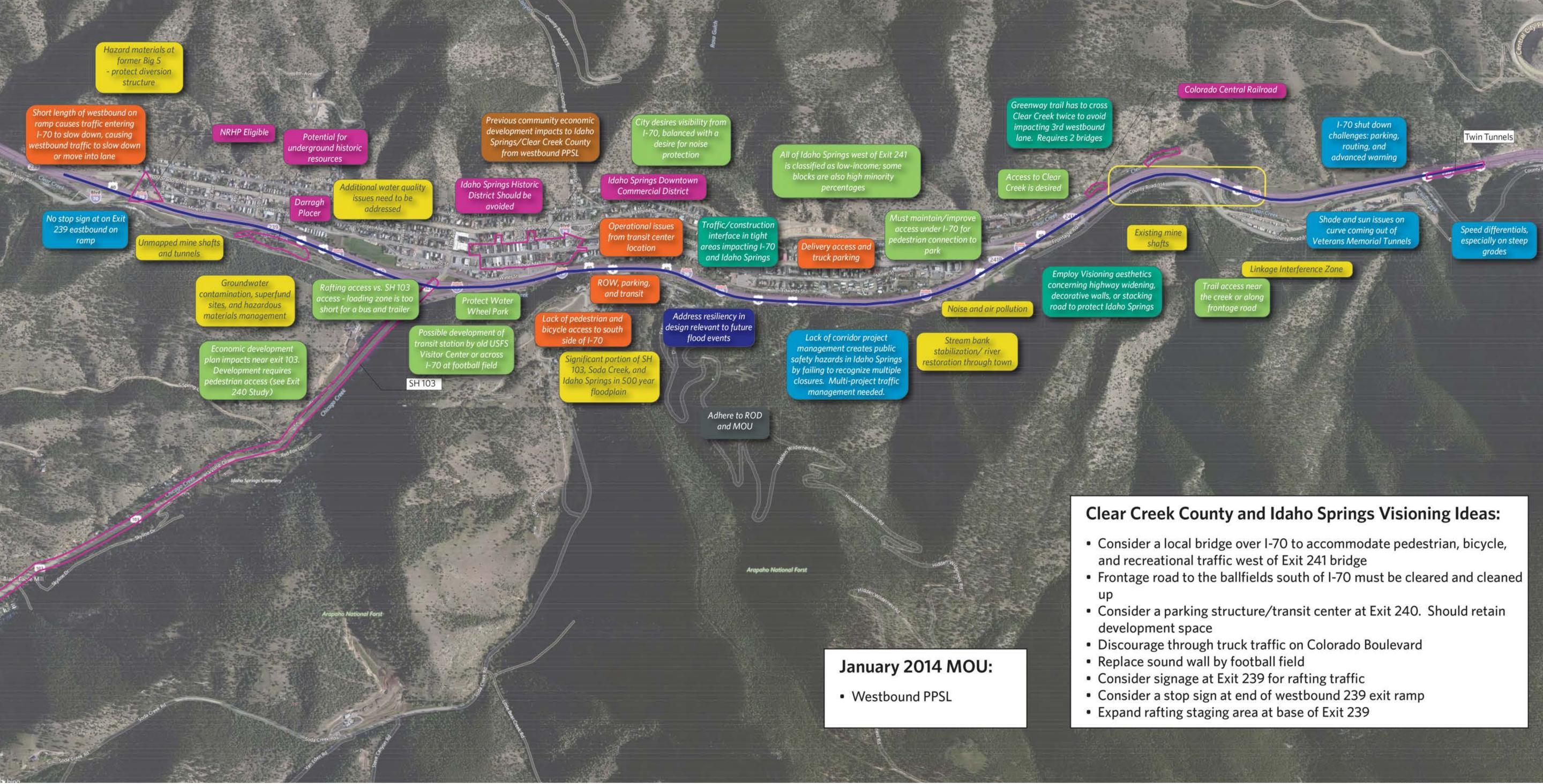


WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT 5.01 A PATH FORWARD

CO

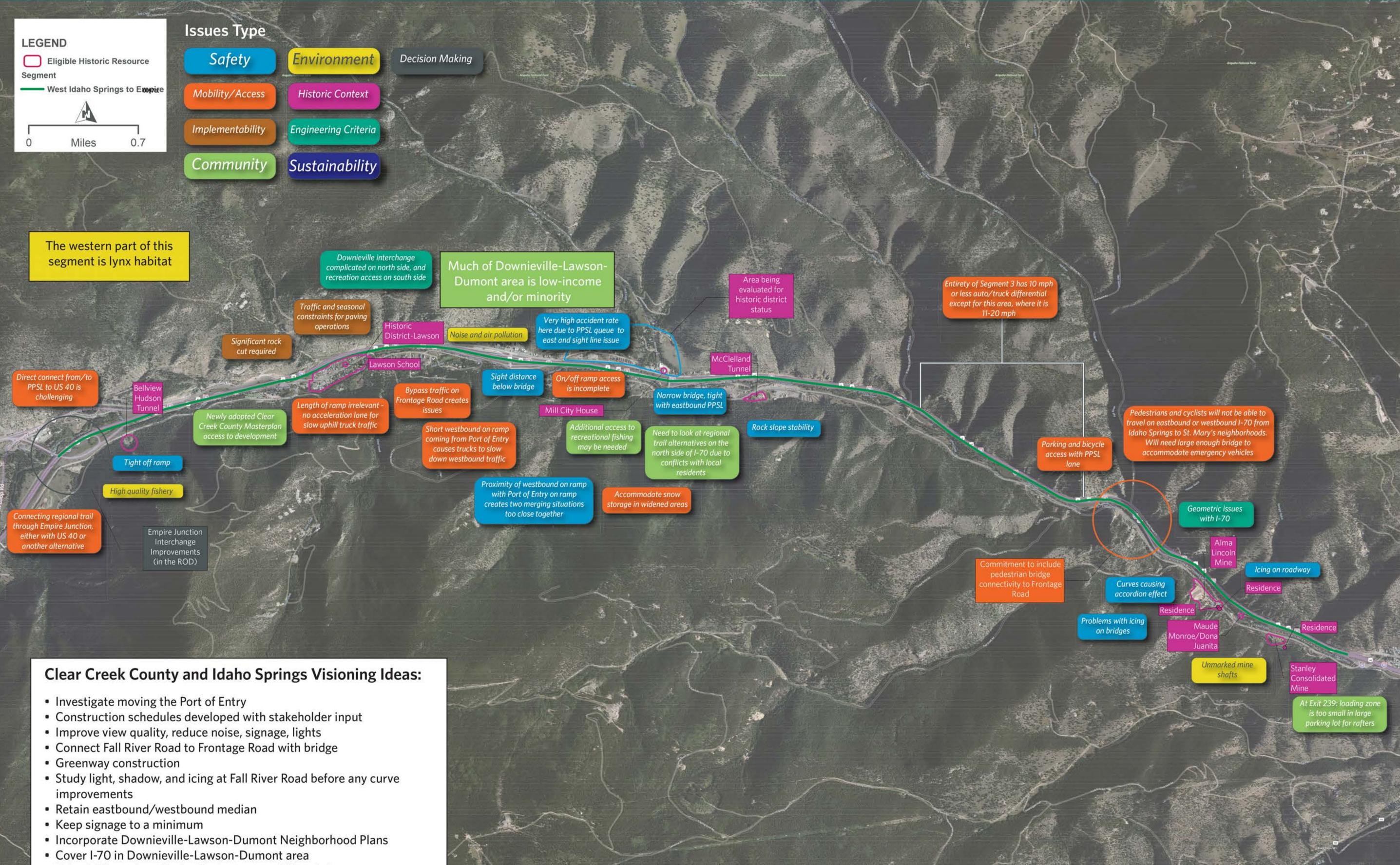
CRITICAL ISSUES: SEGMENT 2





WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT 5.02

CRITICAL ISSUES: SEGMENT 3



- Raise I-70 or otherwise buffer Lawson and Silver Lakes area
 Buffer Rocky Mountain Village to provide noise and visual mitigation
 Relocate government uses at Empire Junction
- Include iconic pedestrian/bicycle bridge at Empire Junction
- Maximize county development and recreation uses at Empire Junction

January 2014 MOU:

Westbound PPSL
Not exceed scope of eastbound PPSL



5.03

WESTBOUND I-70 MOUNTAIN CORRIDOR CONCEPT DEVELOPMENT