



# Bridge Condition Update

South Platte River Committee  
June 11, 2025



**DENVER**  
TRANSPORTATION &  
INFRASTRUCTURE



# Agenda

1. Bridge Program
  - Overview
  - Bridge Statistics
2. Bridge Inventory
  - SPR Recent Successes
  - Program Needs
3. Condition Dashboard & Website



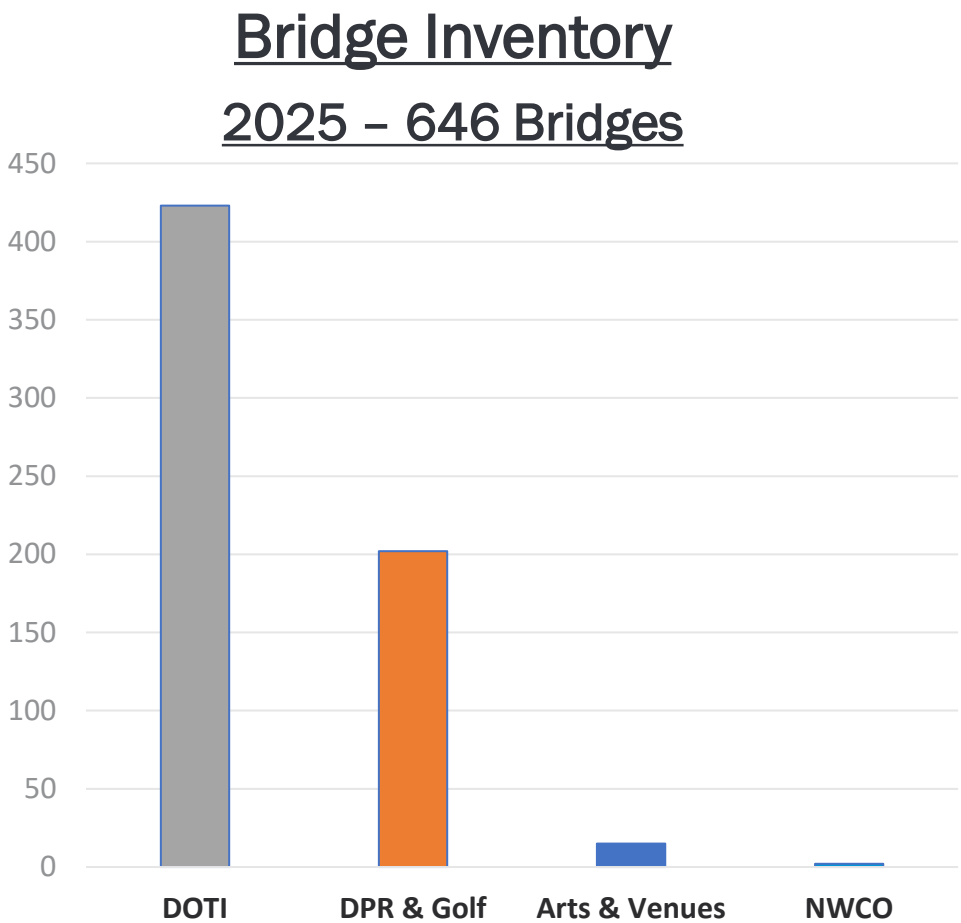
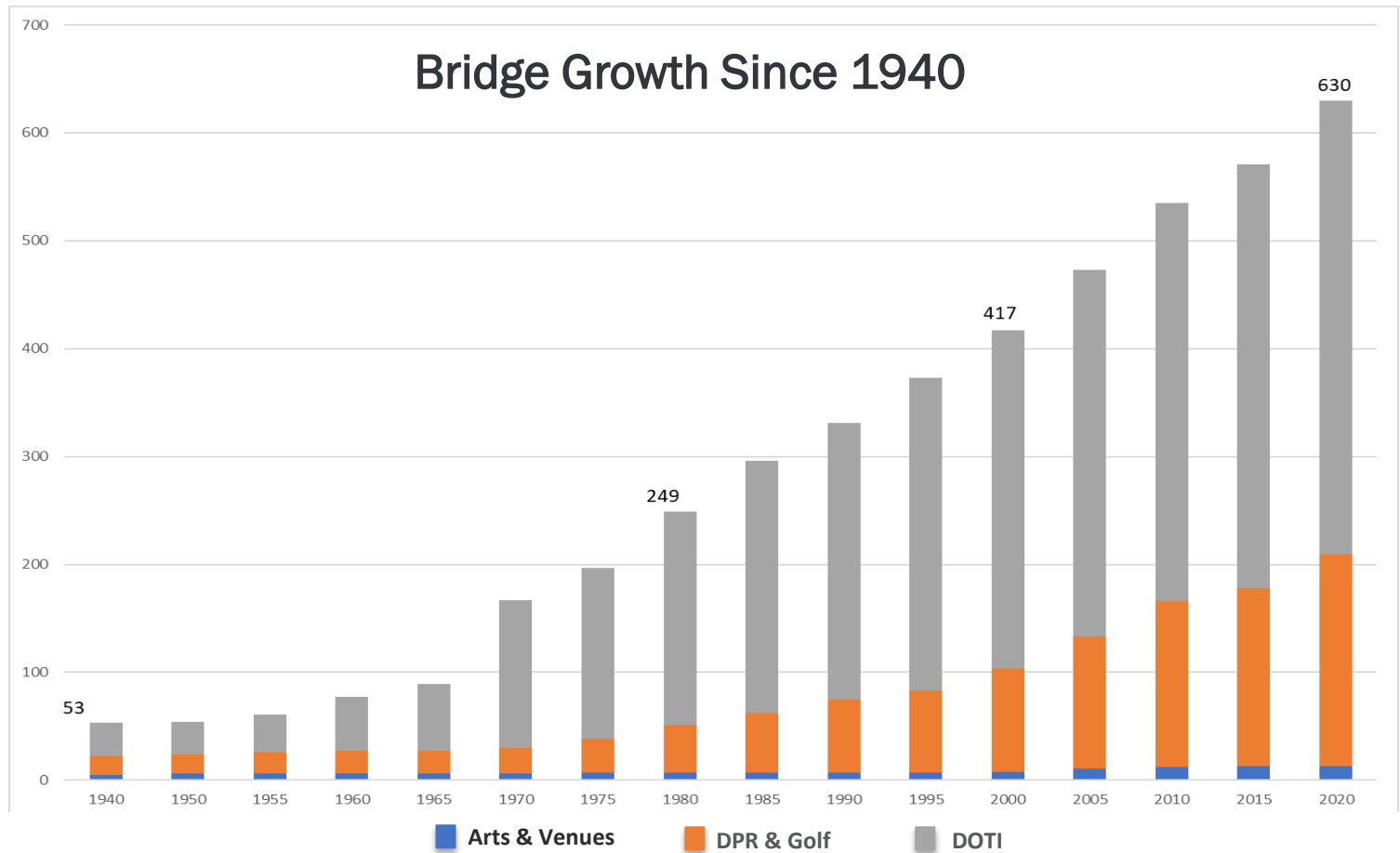
Red Rocks South Ramp Bridge



Pedestrian Bridge over 39<sup>th</sup> Avenue Greenway



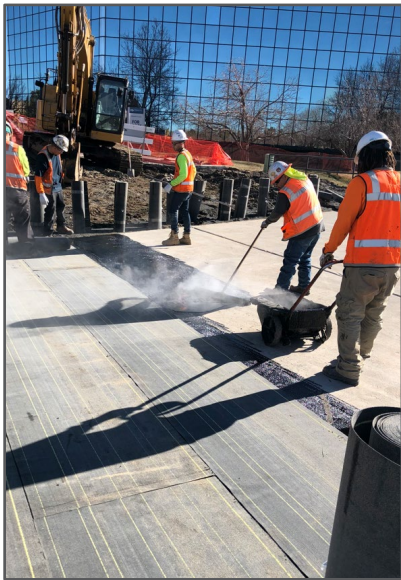
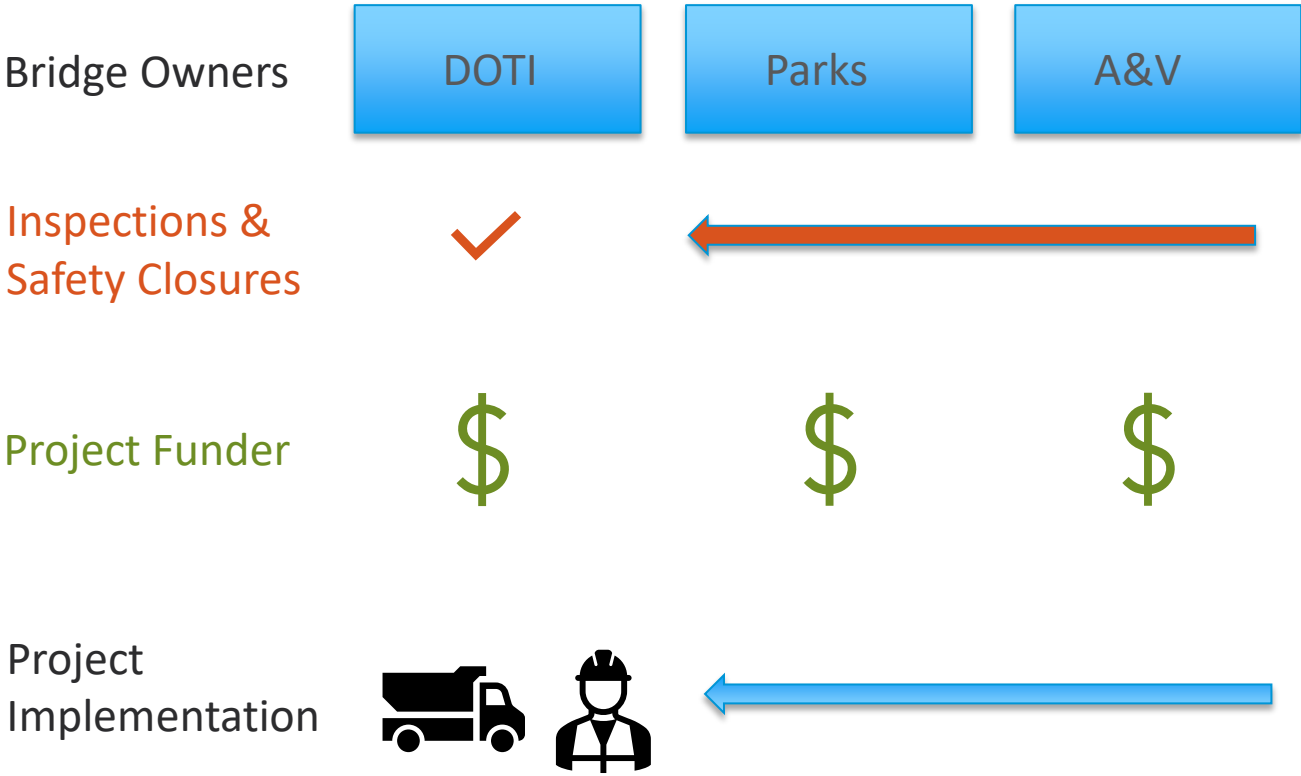
# Citywide Bridge Agency Owners





# Program Responsibilities

## Bridge Typical Workflow



# Bridge Definitions



## How do we know a bridge is in poor condition?

Inspections, which adhere to the Federal Highway Administration (FHWA) national bridge inspection standards

## How often do we inspect our bridges?

Every 2 years for vehicular structures  
Every 3 years for pedestrian structures  
Annually for any risky or poor condition structure

## Who does the inspections?

Trained, FHWA nationally certified inspectors

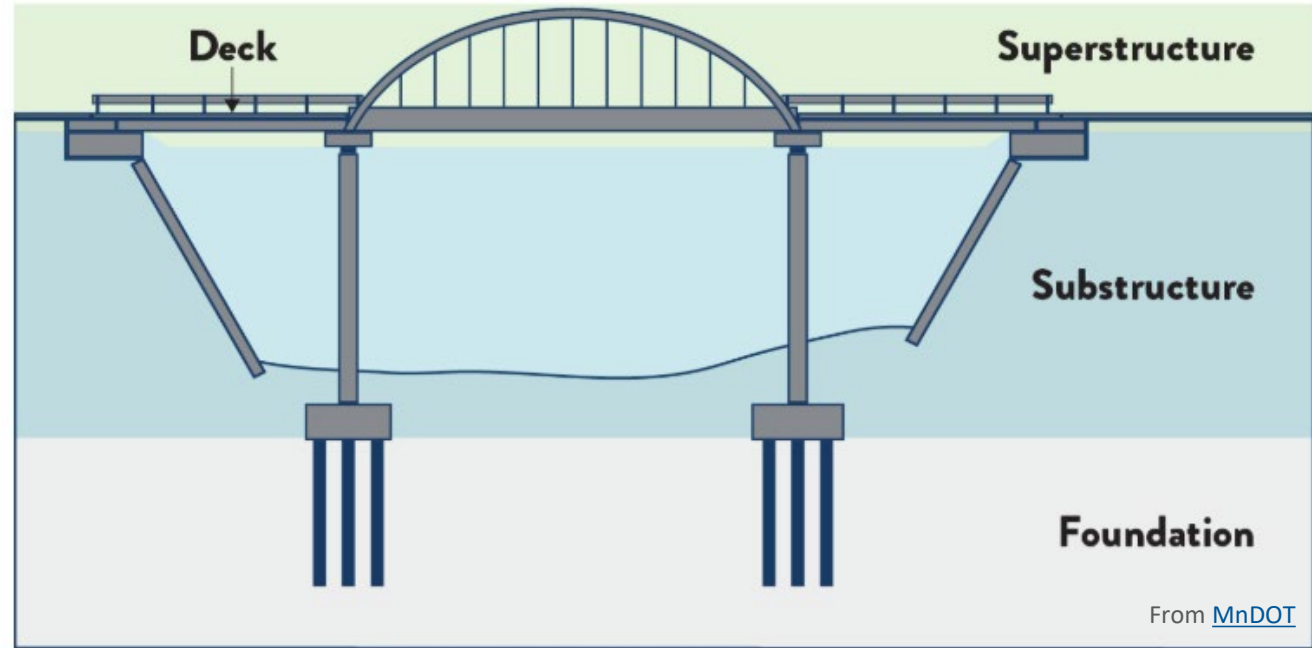
## Key Definitions

**Structurally Deficient:** Bridges where one of the key structural elements – the deck, superstructure, substructure is rated in poor condition. *While requiring attention, a "structurally deficient" bridge does not mean it is immediately unsafe or likely to collapse, but it does require monitoring, inspection, and maintenance.*

**ASCE Bridge Report Card:** American Society of Civil Engineers releases a report on America's infrastructure, released March 25, 2025

**Load Restricted Bridge:** Designation that limits the weight of vehicles that can use the bridge and can include emergency vehicles



## Anatomy of a Bridge



# Citywide Bridge Program

## By the Numbers

Citywide



# of Structures

646

Avg Age (Yrs)

38

\$ Annual CIP Allocation


~\$7M

\$ Annual Funding Gap<sup>1</sup>

~\$22M

<sup>1</sup>Per CPP’s 2024 Infrastructure Report

SPR



# of Structures

42

Avg Age (Yrs)

38

# Recent Projects

6

\$ Recent Investment<sup>2</sup>

\$47.5M

<sup>2</sup>CIP plus Elevate Bond

| Agency            | Structurally Deficient (%) | Vehicular Bridges in Inventory (#) | ASCE Bridge Report Card Grade |
|-------------------|----------------------------|------------------------------------|-------------------------------|
| Denver, CO        | <u>13.8%</u>               | 398                                | D-                            |
| CDOT              | <u>5.4%</u>                | ~3,500                             | C+                            |
| Nationally        | <u>9.1%</u>                | ~617,000                           | C                             |
| Minneapolis, MN   | <u>2.3%</u>                | 86                                 | A-                            |
| Austin, TX        | <u>0%</u>                  | 455                                | A                             |
| New York City, NY | <u>7%</u>                  | 9,065                              | C                             |



# Recent South Platte River Program Successes

## Park Avenue Viaduct

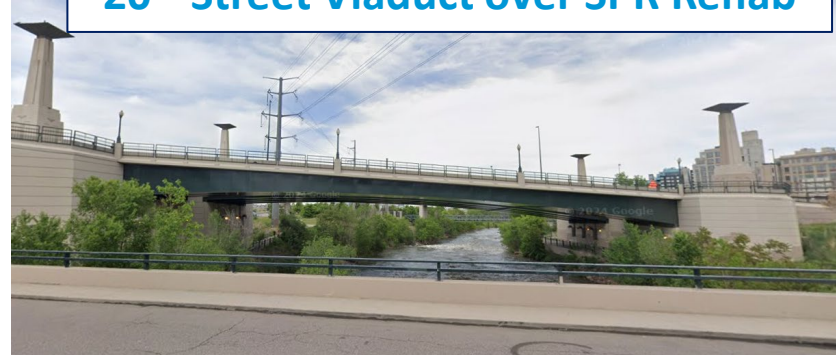


Preserved \$250M asset.

**Total Investment: \$14.9M**

- Elevate: \$10.9M
- CIP: \$4.0M

## 20<sup>th</sup> Street Viaduct over SPR Rehab



Critical rehab to keep in state of good repair.

**Total Investment: \$5.1M**

- CIP: \$5.1M

## Speer Blvd Bridges Rehab over SPR

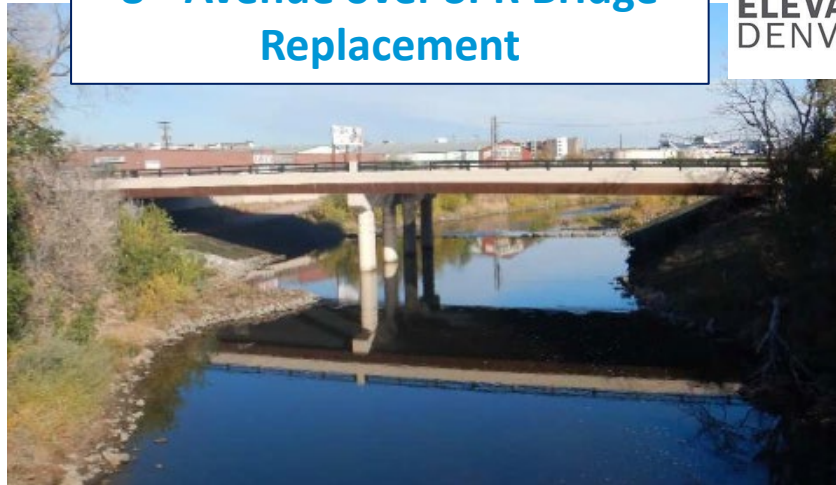


Repainted & rehabilitated iconic structures.

**Total Investment: \$16.5M**

- Elevate: \$12M
- CIP: \$4.5M

## 8<sup>th</sup> Avenue over SPR Bridge Replacement



Replaced critically-rated bridge with structural vulnerabilities & enhanced SPR Trail.

**Total Investment: \$9.1M**

- Elevate: \$8.3M
- CIP: \$800k



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# Citywide Bridge Needs

| Project   | Project Type            | Project Description   | Total Investment | Design Status |
|---|-------------------------|---|------------------|---------------|
| 6 <sup>th</sup> Ave Viaducts over Burnham Yards | Bridge Modifications    | Access improvements to address connectivity needs.  | In progress      | Scoping       |
| 8 <sup>th</sup> Ave Viaducts over Burnham Yards | Bridge Modifications    | Partial removal and reconfiguration of viaduct to meet future connectivity needs.   | In progress      | Scoping       |
| 6th Ave & Lincoln St over Cherry Creek *        | Bridge Replacements     | Structurally deficient rated bridge; had a 2-week emergency lane closure in 2024. Likely to be load restricted in 2025.             | \$31.2M          | 10% Design    |
| Smith Rd and Sandown Rd over Quebec St *        | Bridge Replacements     | Structurally deficient rated bridges; major deterioration; Likely to be load restricted within the next few years.                  | \$41.3M          | 95% Design    |
| Quebec St over Airlawn                          | Bridge Removal & Infill | Structurally deficient rated bridge with advanced deterioration of elements. A major reliability risk likely to be load restricted. | \$9.75M          | 90% Design    |

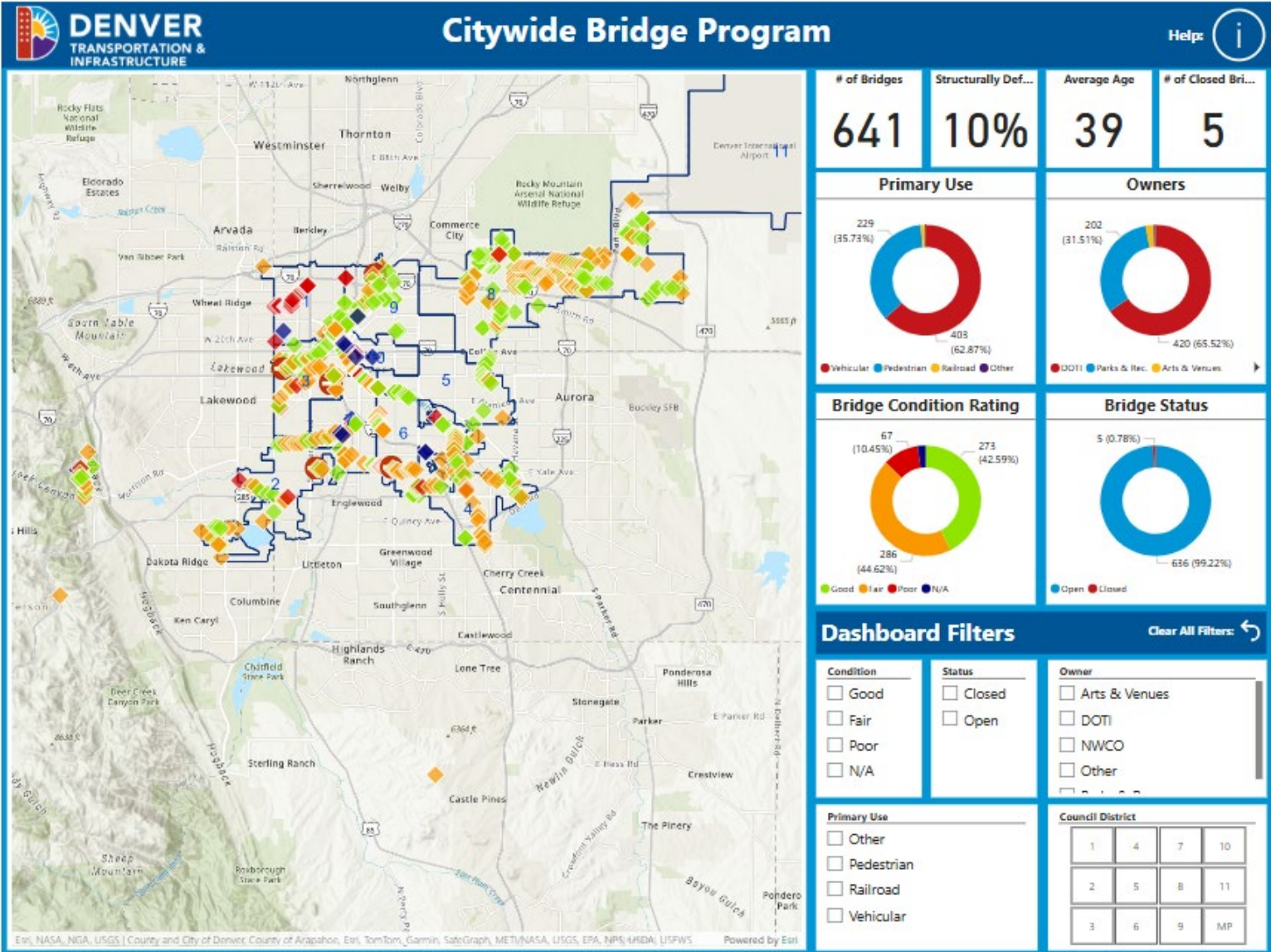
*\* CIP design funding but too costly to fund construction through CIP alone.*





# Website and Condition Dashboard

[www.DenverGov.org/Bridges](http://www.DenverGov.org/Bridges)



# Questions

**NEW!!**

Citywide Bridge Program Webpage:

[www.denvergov.org/bridges](http://www.denvergov.org/bridges)

