

# 2025 State of the Structures

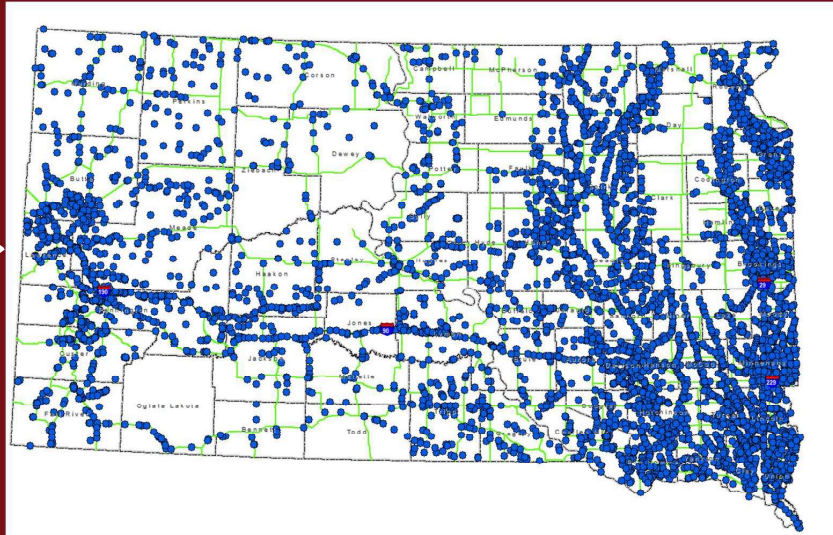


**SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION**

Steve Johnson PE, Chief Bridge Engineer



## Structures in South Dakota



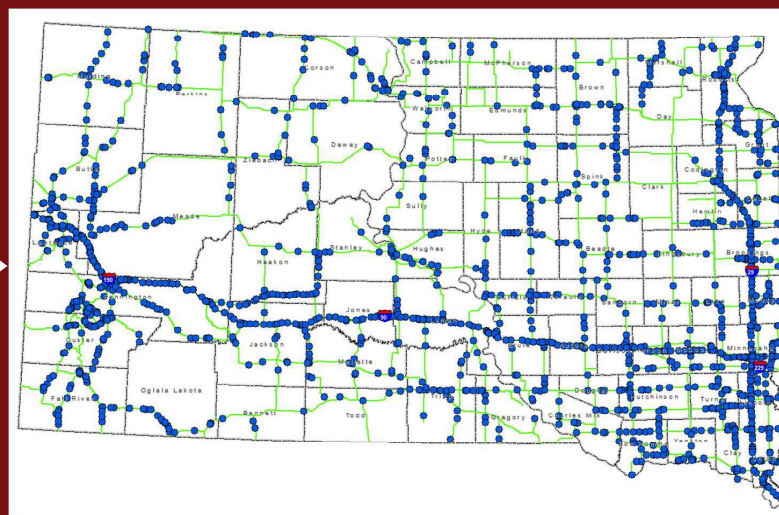
State Inventory

# STATE STRUCTURES

1,819 Total  
1239 Bridges  
580 Culverts



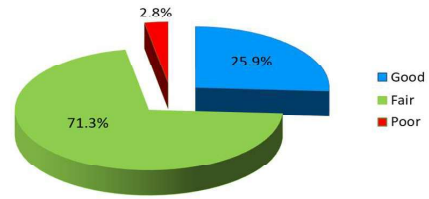
State Highway Structures



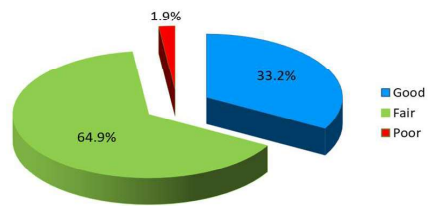
# STATE-OWNED BRIDGES



2024 Condition of State Structures (by % deck area)

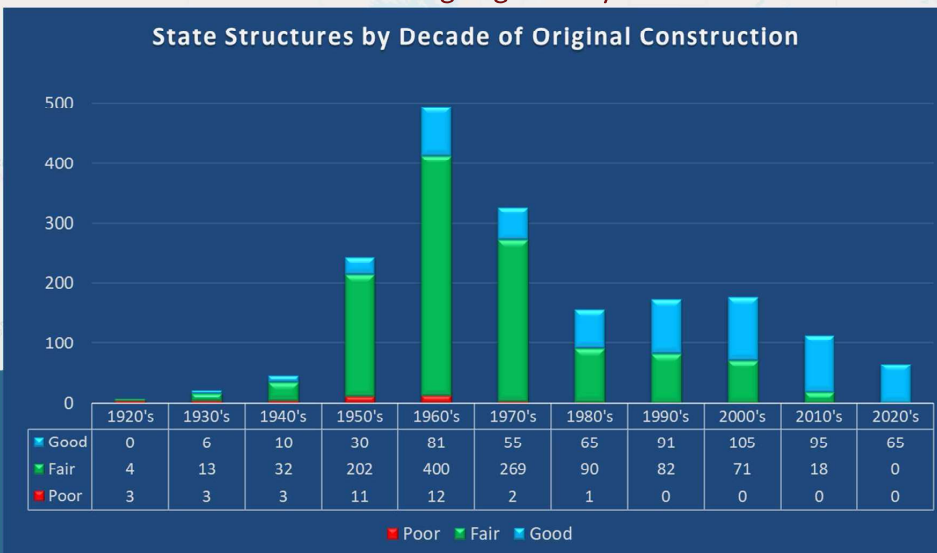


2024 Condition of State Structures (by percentage of total)

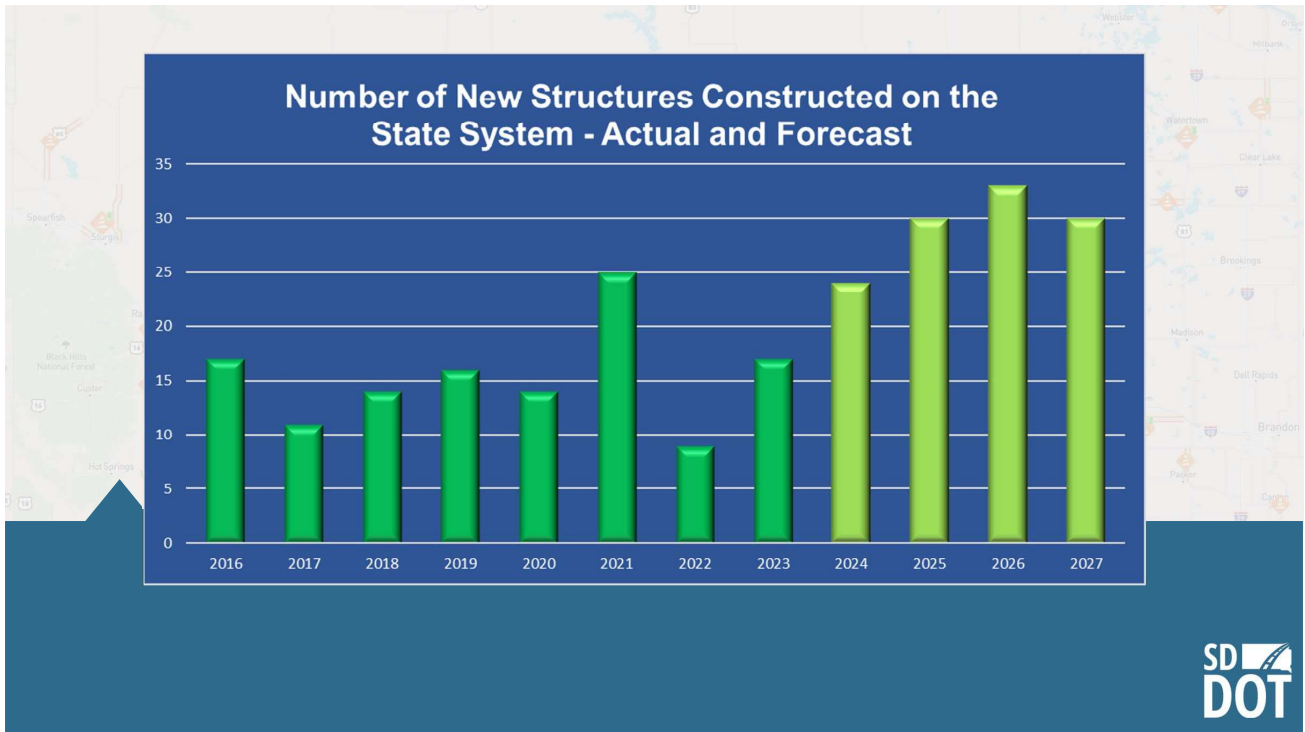


The Average State-owned Structure in South Dakota is 46 years old  
 58% of state-owned bridges are at least 50 years old  
 National average age is 44 years old

State Structures by Decade of Original Construction







**Major Bridge Project *In the Works:***

**Platte-Winner Bridge on SD44**

2024 Letting

\$271 Million

Final Plans are Complete



**Major Bridge Project *In the Works:***

**Deadwood "Box"**

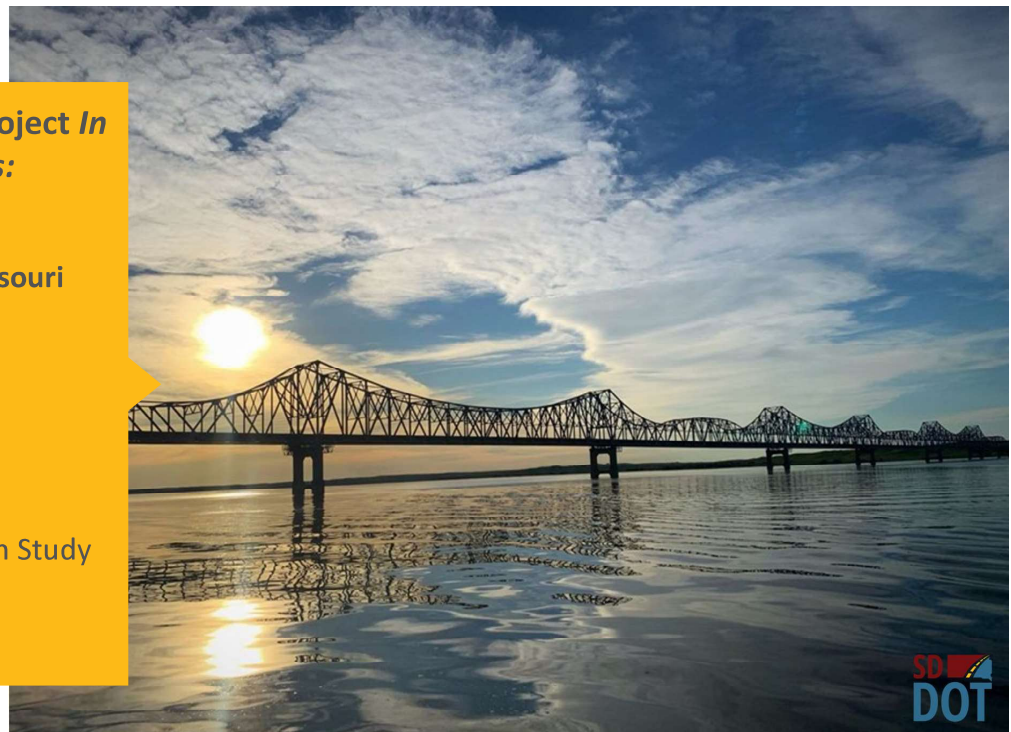
2029 Letting  
\$73 Million  
Route Location Study  
Underway



**Major Bridge Project *In the Works:***

**US 212 over Missouri  
Forest City**

2031 Letting  
\$405 Million  
Route Location Study  
Underway



# FUNDING FOR STATE STRUCTURES



## ▶ STATE FUNDS

Fuel Tax & Excise Tax

- Match for federal funds
- Structure maintenance

## ▶ FEDERAL FUNDS

Federal legislation-IIJA

- Bridge Formula Funds
- Highway Infrastructure Program (HIP) funds
- Discretionary funds
  - Bridge Investment Program

# Local Government Inventory

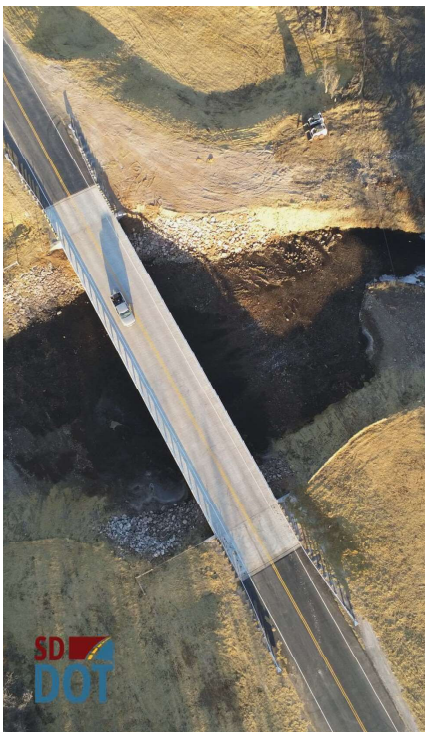
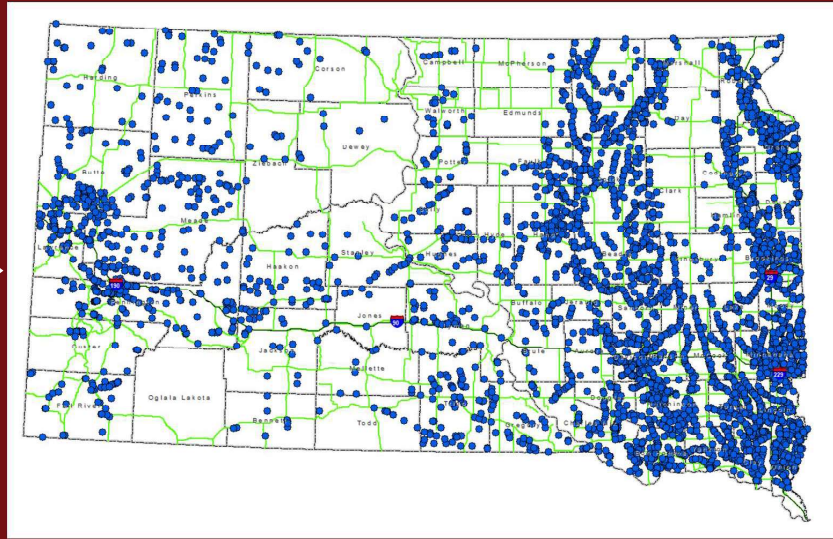
## Total Structures – 3,932

- County – 3,658
- City - 183
- Town – 71
- GF&P - 20





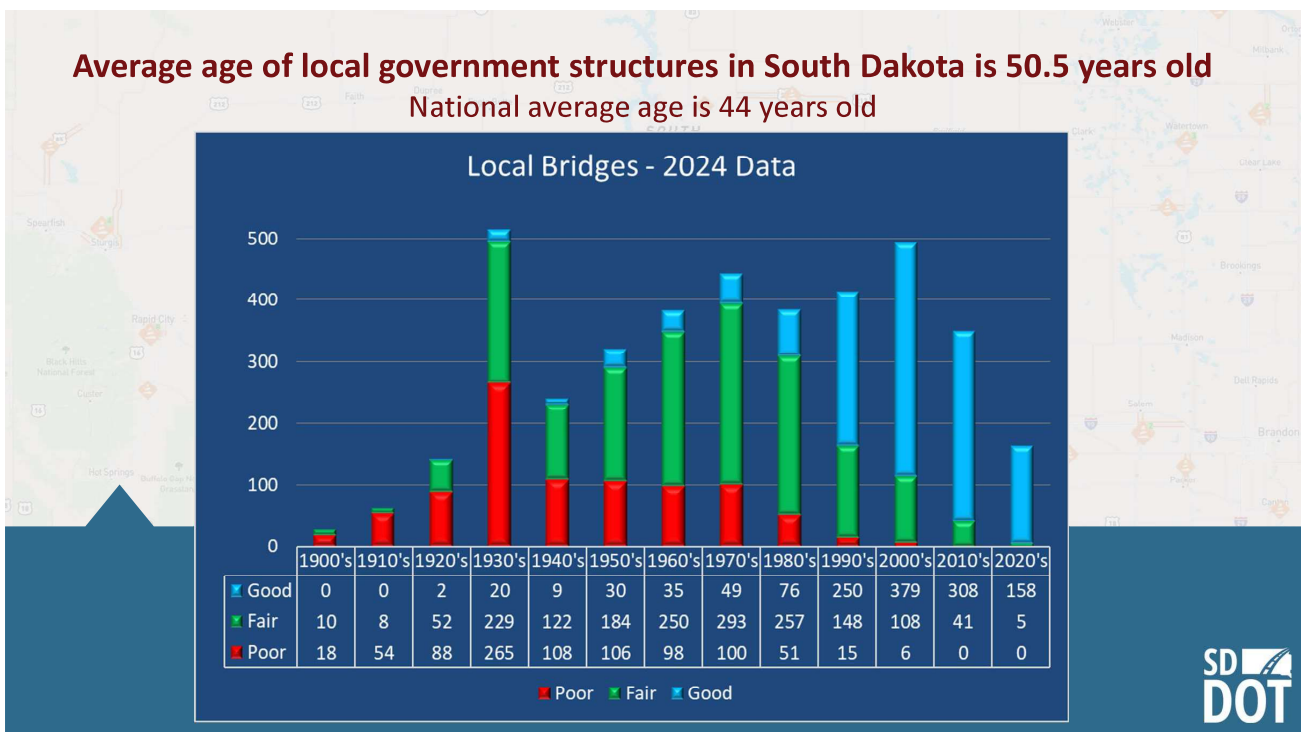
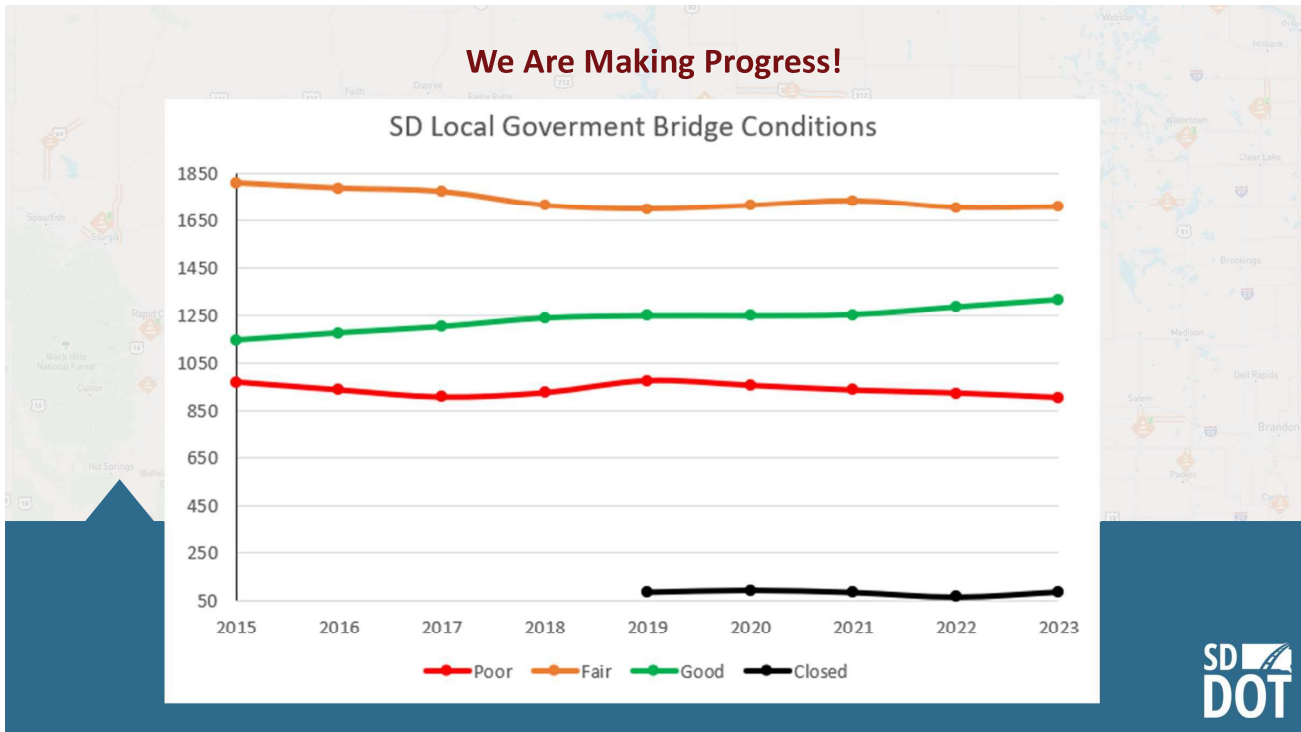
Local Government Owned Structures



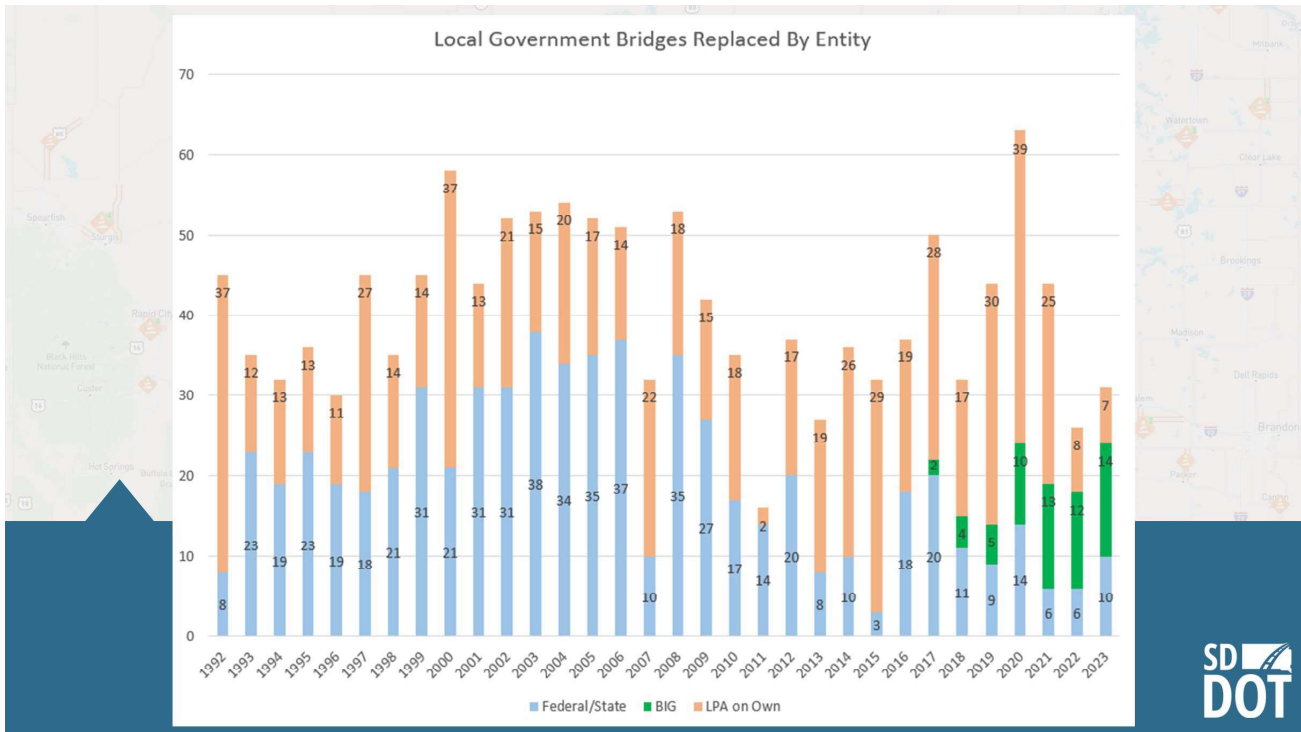
LOCAL GOVERNMENT BRIDGES

Number and Condition

Condition	Number of Bridges	% of Total Number of Bridges	Deck Area (sq ft)	% of Total Deck Area
Good	1316	33.5%	2,627,381	33.4%
Fair	1,707	43.4%	3,941,745	50.1%
Poor	909	23.1%	1,296,521	16.5%
Total	3,932		7,865,646	







## FUNDING FOR LOCAL GOVERNMENT STRUCTURES



### LOCAL FUNDS

Vehicle Registration, Wheel Tax, County General Funds, etc.

- Match to Federal Funds
- Match to BIG Funds
- Structure Replacement
- Structure Rehabilitation
- Structure Maintenance



### BIG

State Law, Transportation Commission

- Preliminary Engineering
- Preservation
- Structure Replacement/Rehabilitation



### FEDERAL FUNDS

Federal legislation-IIJA

- Bridge Formula Funds
- Highway Infrastructure Program (HIP) funds
- Discretionary funds



## Summary BRIDGE IMPROVEMENT GRANTS (BIG)

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025*
PE BIG Funding Awarded	\$0.9 M	\$0.9 M	\$0.99 M	\$1.34 M	\$1.41 M	\$1.51 M	\$1.42 M	\$2.4 M	\$1.54 M	\$1.85 M
Preservation BIG Funding Awarded	\$4 M	\$3.0 M	\$2.65 M	\$3.26 M	\$3.7 M	\$7.3 M	\$3.09 M	\$4.7 M	\$7.9 M	
Replacement BIG Funding Awarded	\$4.1 M	\$5.1 M	\$5.33 M	\$10.67 M	\$10.28 M	\$10.28 M	\$19.71 M	\$34.34 M	\$11.86	
Cycle Obligation Limit	\$9 M	\$9 M	\$9 M	\$15 M	\$15 M	\$19 M	\$24 M	\$41 M	\$22 M	\$15 M

Since 2015, 413 structures have had PE completed, been replaced, rehabilitated, or had preservation work completed.

164 structures are programmed to have PE completed, be replaced or rehabilitated, or preservation work done in the next 3 years using BIG Funds.

19

## Summary LOCAL FEDERAL BRIDGE PROGRAM

	2020	2021	2022*	2023	2024
Initial Programmed Amount	\$25.9 M	\$12.25 M	\$24 M	\$56.6 M	\$35.9 M
Bridges Programmed	57	41	13	25	0
Bridges Removed	0	0	7	4	1
Bridges Rehabilitated	0	0	0	0	0
Bridges Replaced	5	8	2	14	2

\*Last two projects from old Federal Program completed.

Prior to 2019, 54 structures were in the STIP and completed using old Federal Funds after creation of the BIG Program.

105 structures are programmed to have PE completed and be replaced or rehabilitated in the next 3 years using new Federal Funds.

20

# Local Government Bridge Project Elements

## Includes

- Preliminary Design
- Design
- Permitting Process
- Plans reviewed
- FHWA Concurrence (Federal Projects)
- Project is let to bid (Federal Projects by DOT, BIG's by LPA)
- Replacement of the Bridge/Culvert
- Construction Engineering (Federal Projects by DOT, BIG's by LPA)

## Doesn't Include

- Right of Way acquisition
- Utility Relocation
- Final Surfacing
- Permanent Fencing
- Permanent Signing
- Erosion Control Removal
- Wetland/Stream Mitigation



# Questions?

