

# IMPROVE I-70

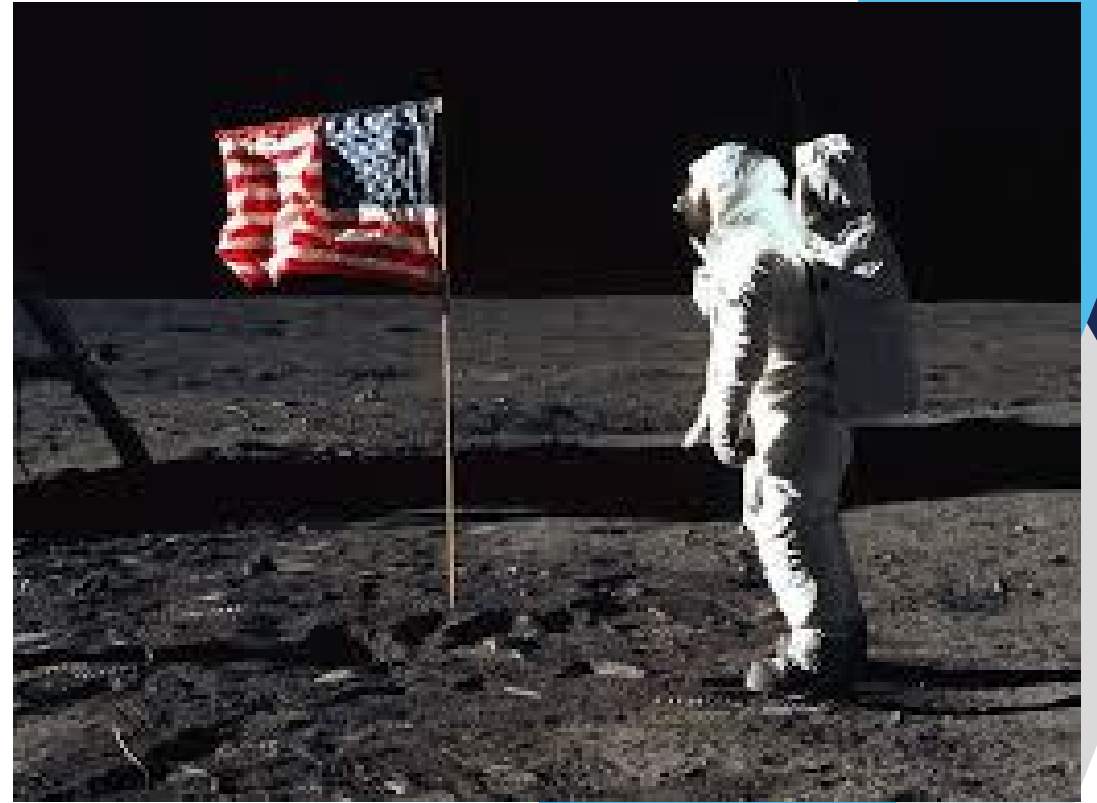
## MOONSHOT DEMONSTRATION PROJECT

**Eric Kopinski**

*Improve I-70 Program Director*



# Moonshot - 1962



# Moonshot - 2022

- **AASHTO/NCHRP**
  - **13 Projects Selected**
  - **11 State DOTs are Lead**
  - **9 Supporting States**
  - **6 Moonshot Goals**





# Moonshot 2030

## MOONSHOT CONCEPTS: BY 2030, WHAT IF WE...

- | *Make aggressive progress toward Vision Zero?*
- | *Work with partners to reduce the share of households who cannot afford basic survival costs through enhanced transportation accessibility and affordability?*
- | *Create a mobility marketplace so transportation works for our customers?*
- | *Change how we operate and manage the transportation system, including creating a nationwide digital infrastructure?*
- | *Transform how we power the transportation system?*
- | *Rethink how we connect communities and regions?*
- | *Prioritize strategies and investments to strengthen communities?*

## SIX ASPIRATIONAL GOALS IN SUPPORT OF THE VISION



# **Moonshot – Other States**

- **Washington State – I-5 High Speed Rail**
- **Nevada – I-80 Multi-State Data Sharing**
- **Utah – Install Fiber for All Interstates**
- **Texas – I-45 Real-time System Operations**
- **Oklahoma – Statewide Mobility Management**
- **South Dakota – Rural Crash Reduction**
- **Minnesota – ROW to Support Clean Energy**
- **Michigan – Alternative Fuel Corridors**
- **New Jersey – Ped/Cyclist Safety**
- **Georgia – Install Fiber for All Interstates**



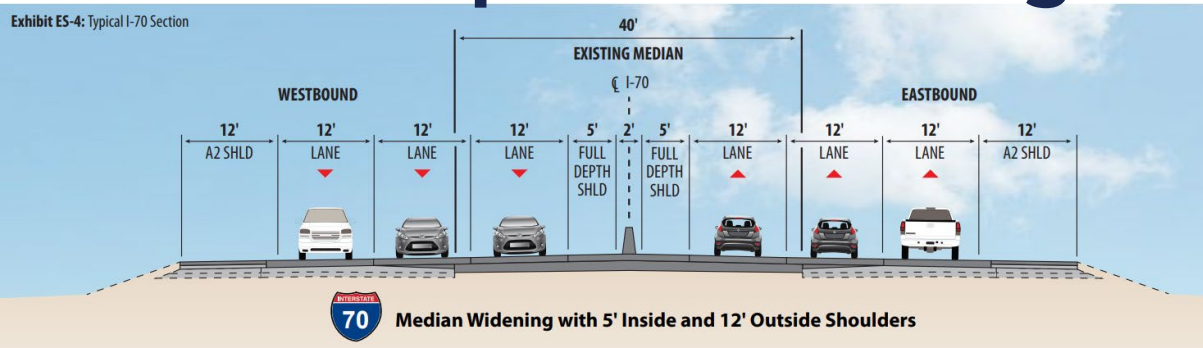
# Missouri DOT Improve I-70 Program

- **\$2.8 billion+ program:**
  - Nearly 200 miles of corridor
  - Add third lane EB and WB 70
  - Split into various projects, including some Design-Build
  - Unique financing



# THE LATEST

- **Project #1 Columbia to Kingdom City:** \$420 million
  - 20-mile section in mid-Missouri
  - July 2024: Construction Started
  - Expected completion Fall 2027
- **Project #2 Warrenton to Wentzville:** \$600 million
  - 20-mile section near St. Louis
  - Construction to begin spring 2025
  - Expected completion Fall 2028
- **Total Improve I-70 Program Completion: 2030**





# IMPROVE I-70



NOVEMBER 2024

Totals listed are STIP funds unless otherwise noted

## Planned Capacity Improvements Blue Springs to Wentzville

- Under Construction - \$1.05 billion
- Funded Future Improvements - \$2.1 billion

## Truck Parking Multiple Locations Statewide

Beginning in the fall of 2025, a corridor-wide project will evaluate and improve truck parking at multiple locations along I-70 statewide.  
\$30 million



**Blue Springs to Odessa**  
18 miles  
Average Daily Traffic: 51,800

Under Construction: \$0  
Funded Future Improvements: \$275-325 million  
STIP: \$28 million  
General Revenue: \$297 million



**Odessa to Boonville**  
61 miles  
Average Daily Traffic: 31,000

Under Construction: \$0  
Funded Future Improvements: \$600-650 million  
STIP: \$16 million  
General Revenue: \$650 million



**Boonville to Rocheport**  
12 miles  
Average Daily Traffic: 35,300

Under Construction: \$240 million  
Funded Future Improvements: \$100-150 million  
STIP: \$0 million  
General Revenue: \$150 million



**Rocheport to Columbia**  
13 miles  
Average Daily Traffic: 47,500

Under Construction: \$0  
Funded Future Improvements: \$450-500 million  
STIP: \$41 million  
General Revenue: \$450 million



**Columbia to Kingdom City**  
20 miles  
Average Daily Traffic: 39,800

Under Construction: \$420 million  
Funded Future Improvements: \$450-500 million  
STIP: \$123 million  
General Revenue: \$297 million

UNDER CONTRACT



**Kingdom City to Warrenton**  
47 miles  
Average Daily Traffic: 39,300

Under Construction: \$31 million  
Funded Future Improvements: \$450-525 million  
STIP: \$17 million  
General Revenue: \$492 million



**High Hill Realignment**  
Average Daily Traffic: 41,100

Under Construction: \$0  
Funded Future Improvements: \$70-75 million  
STIP: \$5 million  
General Revenue: \$70 million



**Warrenton to Wentzville**  
19 miles  
Average Daily Traffic: 61,200

Under Construction: \$634 million  
STIP: \$200 million  
General Revenue: \$434 million

UNDER CONTRACT

- Environmental near completion
- 1.1 million jobs depend on I-70
- Workforce development opportunities
- I-70 carries 100 million tons of freight

## PLANNED CAPACITY IMPROVEMENTS:

STIP funded: \$430 million  
General Revenue funded: \$2.84 billion

[modot.org/improvei70](https://modot.org/improvei70)





# INFRA COMPONENTS IN THE MOONSHOT VISION FRAMEWORK

FRAMEWORK GOAL	INFRA COMPONENTS
Make Aggressive Progress toward Vision Zero	ITS additions
	Smart work zones and advanced traveler information systems
	Wrong-way driver warning systems
	Traffic incident management
	Work zone speed safety management
	Road weather information system additions
	Wildlife crossings
	Outer road/bypass road improvements
	Truck parking

# INFRA COMPONENTS IN THE MOONSHOT VISION FRAMEWORK

FRAMEWORK GOAL	INFRA COMPONENTS
Work with Partners to Reduce the Share of Households Who Cannot Afford Basic Survival Cost by 2030 through Enhanced Transportation Accessibility and Affordability	ITS additions
	Data-driven design and operational analysis
	Road weather information system additions
	Solar panel use on right of way
	Outer road/bypass road improvements
	Workforce programs for disadvantaged communities
	Truck parking facilities



# INFRA COMPONENTS IN THE MOONSHOT VISION FRAMEWORK

FRAMEWORK GOAL	INFRA COMPONENTS
Create a Mobility Marketplace so Transportation Works for our Customers	ITS additions
	Data-driven design and operational analysis
	Road weather information system additions
	Solar panel use on right of way
	Outer road/bypass road improvements
	Workforce programs for disadvantaged communities
	Truck parking facilities
	Lightweight deflectometer for construction acceptance of soils and aggregates
	Low carbon/carbon neutral pavement design



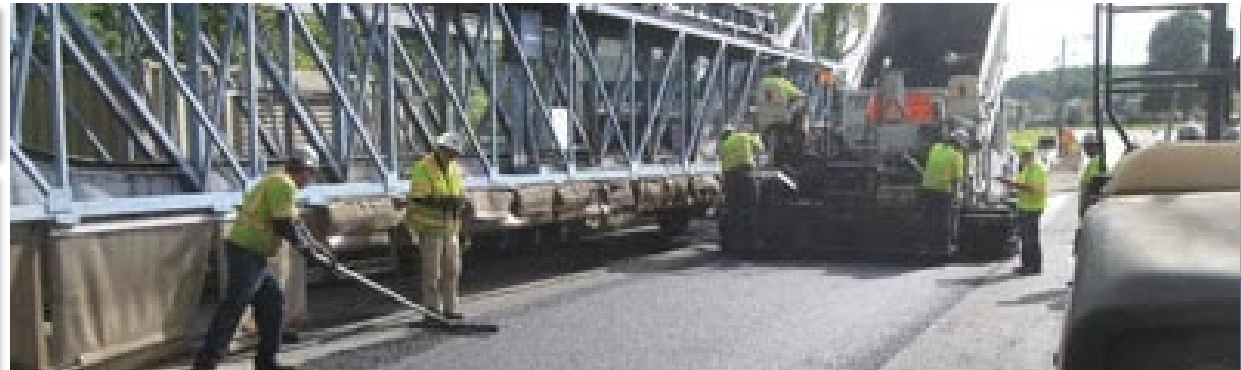
# INFRA COMPONENTS IN THE MOONSHOT VISION FRAMEWORK

FRAMEWORK GOAL	INFRA COMPONENTS
Change How We Operate and Manage the Transportation System	All INFRA components



# INFRA COMPONENTS IN THE MOONSHOT VISION FRAMEWORK

FRAMEWORK GOAL	INFRA COMPONENTS
Improve Energy Efficiency and Reduce Transportation Emissions	Solar panel use on right of way
	Outer road/bypass road improvements
	Traffic incident management
	Low carbon/carbon neutral pavement design
	Pollinator habitat conservation
	Truck parking facilities





# INFRA COMPONENTS IN THE MOONSHOT VISION FRAMEWORK

## FRAMEWORK GOAL

Rethink How We Connect Communities and Regions

## INFRA COMPONENTS

All INFRA components





# INFRA COMPONENTS IN THE MOONSHOT VISION FRAMEWORK

FRAMEWORK GOAL	INFRA COMPONENTS
Prioritize Strategies and Investments to Strengthen Communities	All INFRA components

