# System Performance Dashboard Update

**CONNECTED 2050** 



# **Guiding Principles**

Connected 2050: Long-Range Transportation Plan (LRTP)

Guiding principles establish a vision to guide transportation system evaluation and decisionmaking

#### Î **Our Communities and Region** /ጠጪ / Thriving A Vibrant A Healthy and Economic Vitality Neighborhoods and Downtown and Sustainable Communities Central Core Environment **Our Transportation System** 44 Seamless, Efficient, Safe Choices and Well-Maintained and Reliable and Secure Access for All and Resilient Ð **Our Process**











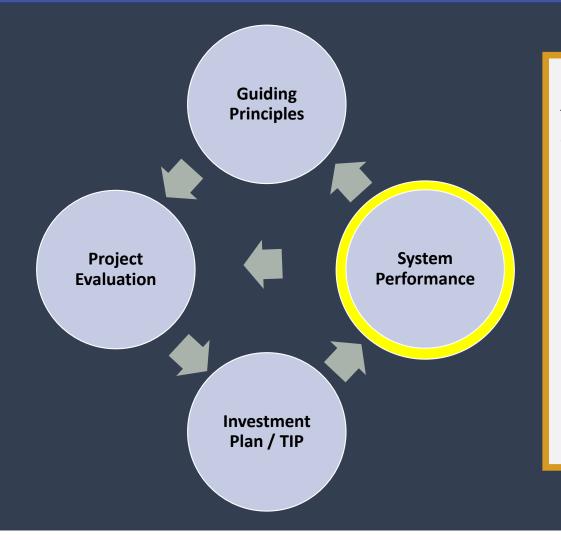
Collaborative

Equitable I

Innovative

Performance-Based

## Performance Based Planning



EWG incorporates performance-based planning into the long-range transportation planning process to achieve desired performance outcomes for the multimodal transportation system. This includes:

- 1. a strategic policy direction established through guiding principles,
- 2. transportation **project evaluation criteria** to assess alignment of transportation projects to the guiding principles,
- 3. the development of an **investment plan** allocation,
- 4. and on-going monitoring, evaluation, and reporting on system performance to help to inform future cycles of planning.

## System Performance Measures

Guiding Principles		PM #	Performance Measure	Desired	Federal	Guiding Principles		PM #	Performance Measure	Desired Trend	Federal
			Particular subscene at	Trend	Measure			M21	Percent of workers with commute travel time		Measure No
<b>(</b>	Economic Vitality	M1	Regional employment		No			IVIZ1	under 45 minutes	▲	NO
		M2	Real gross domestic product	▲	No			M22	Peak hour excessive delay per capita	•	Yes
		M3	Residential vacancy (percent of census tracts	•	No		Seamless,	M23	Percentage of person-miles traveled on the		Yes
	Thriving Neighborhoods and Communities	IVIS	exceeding a vacancy threshold)	•	NO		Efficient, and		Interstate system with reliable travel time	_	
							Reliable	M24	Percentage of person-miles traveled on the		Yes
		M4	Percent of population with housing and	•	No				non-Interstate NHS with reliable travel time		
			transportation costs over 45% of income (based					M25	Truck Travel Time Reliability index		Yes
	communities		on the median household income of each census tract)					M26	On-time performance for public transit	<b>A</b>	No
	A Vibrant	M5	Employment in the central core		No			M27	Percent of Interstate pavement in good		Yes
	Downtown and	M6	Population living in the central core	-	No				condition		
	Central Core	IVIO	Population living in the central core	•	NO			M28	Percent of Interstate pavement in poor	▼	Yes
Ø	A Healthy and Sustainable Environment	M7	Annual days reaching "unhealthy for sensitive	•	No				condition		
			groups" or above on the Air Quality Index (for	•				M29	Percent of non-Interstate NHS pavement in	▲	Yes
			ozone & PM2.5 combined)						good condition		
		M8	GHG emissions from on-road transportation	•	No		Well- Maintained and Resilient	M30	Percent of non-Interstate NHS pavement in	•	Yes
									poor condition		Mar
		M9	Emissions reduction (NOx and VOC)	-*	Yes			M31	Percent of NHS bridge deck area in good condition	▲	Yes
		M10	Roadway fatalities	•	Yes	S 1		M32	Percent of NHS bridge deck area in poor	•	Yes
		M11	Roadway fatality rate	•	Yes			14132	condition	•	105
				,	103			M33	Percentage of vehicle met or exceeded Useful	•	Yes
		M12	Roadway serious injuries	▼	Yes				Life Benchmark for non-revenue vehicles		
	Safe and	M13	Roadway serious injuries rate	•	Yes			M34	Percentage of vehicle met or exceeded Useful	V	Yes
	Secure	M14	Non-motorized fatalities and serious injuries	•	Yes				Life Benchmark for revenue vehicles		
		M15	Transit fatalities					M35	Percentage of track segments under	▼	Yes
					Yes				performance restriction		
		M16	Transit injuries	▼	Yes			M36	Percentage of facilities assets with condition	•	Yes
		M17	Transit safety events	▼	Yes			M37	rating below 3.0 on FTA TERM Scale Mean distance between transit major		Yes
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Choices and Access for All	M18	Non-single occupant vehicle mode share		Yes			14137	mechanical failures	•	105
		M19	Percent of workers with a transit commute	<b>A</b>	No	A R	Equitable	EI38	Disparity in diesel particulate matter exposure	🔺 to 100	No
			travel time under 45 minutes					EI39	Disparity in bicycle / pedestrian fatalities	🔺 to 100	No
		M20	Transit ridership (annual unlinked transit trips)	<b>A</b>	No	N M		EI40	Disparity in access to jobs	🛦 to 100	No

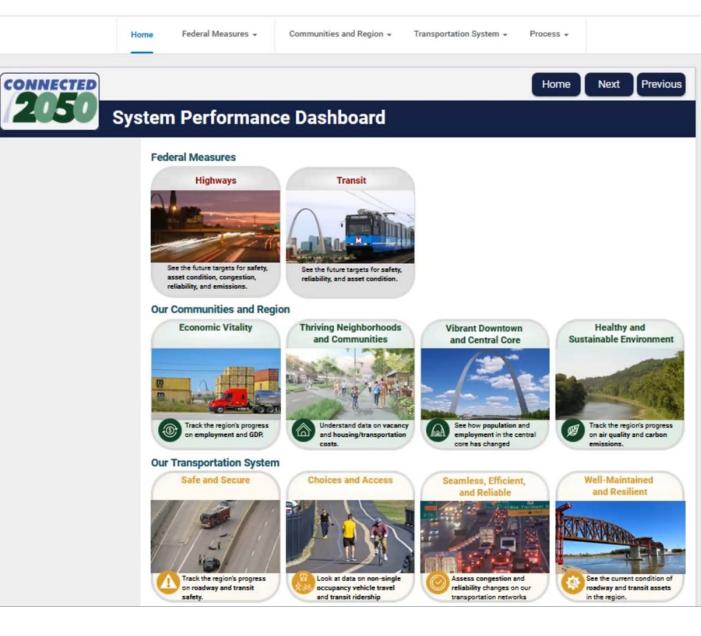
## How were these measures selected?

- 25 measures are federally required as part of transportation performance management requirements
  - Set targets for these measures that are approved by the Board of Directors annually, biennially, or every four years based on federal requirements
- 15 measures support additional regional goals that address transportation and transportation related areas
- Data availability and long-term maintainability
- Easily explainable and understood
- Tied to a desired outcome (desired increase or decrease)

## System Performance Dashboard

- Interactive
- Updated annually
  - June 2024 last update
- Website
  - https://www.ewgateway.org
    /transportation planning/long-range transportation-planning/lrp performance-dashboard/





# Dashboard Insights

Examples

## **Transportation Safety**

#### Trends

- Roadway fatalities and injuries continue to increase year over year.
- Fatalities on transit remain low and injuries show a decreasing trend.

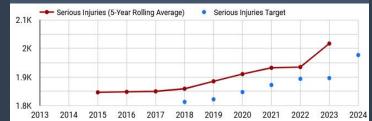
## **Policy Questions Raised**

- Do we need to increase focus/spending on roadway safety improvements?
- Are we measuring the impact of recent roadway safety projects to evaluate if projects meet their crash reduction goals?

## M10: Roadway Fatalities



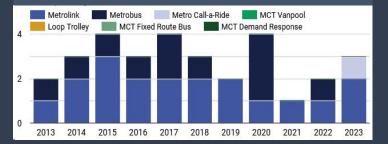
## M12: Roadway Serious Injuries



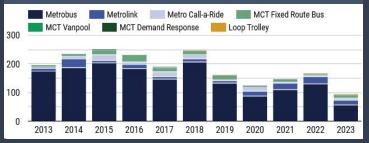
## M14: Non-Motorized Fatalities and Serious Injuries



## M16: Transit Fatalities



## M16: Transit Injuries



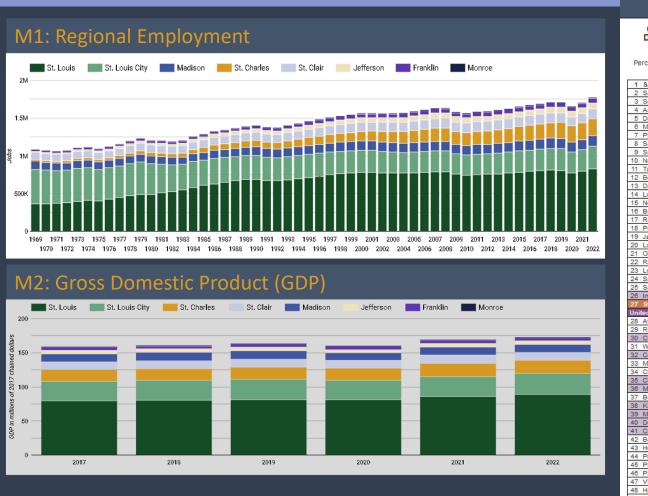
## Economy

### Trends

- Average annual employment growth rate (1.11% from 2013)
- Average annual GDP growth rate (1.86% from 2018)

## **Policy Questions Raised**

- How can we better understand and evaluate potential economic impacts from transportation projects?
- Does a transportation project truly promote regional growth?



## Where We Stand

#### Change in Gross Domestic Product per Capita

Percent change, in chained 2017 dollars, 2017-2022

	0	
2	San Jose	40.4
	San Francisco	28.3
3	Seattle	20.3
4	Austin	19.9
5	Denver	19.4
6	Miami	18.4
	Phoenix	18.3
8	Salt Lake City	16.8
9	San Diego	16.6
	Nashville	15.9
11	Tampa	15.5
	Boston	14.7
	Dallas	14.1
	Los Angeles	14.0
15	New York	13.0
	Birmingham	12.4
	Riverside	12.2
	Portland	11.5
	Jacksonville	11.2
	Las Vegas	10.9
	Orlando	10.5
	Raleigh	10.3
22	Louisville	10.1
24	San Antonio	10.0
	Sacramento	9.7
	Indianapolis	9.0
	St. Louis	8.9
	ed States	8.7
	Atlanta	8.1
	Richmond	
	Cleveland	7.5
	Washington, D.C.	7.0
	Columbus	6.9
	Memphis	6.2
24	Charlotte	5.9
25	Chicago	5.6
	Milwaukee	5.5
	Buffalo	5.2
	Kansas City	5.1
39	Minneapolis	4.9
	Detroit	4.4
	Cincinnati	3.9
	Baltimore	3.9
	Houston	2.4
	Providence	2.4
45	Philadelphia	2.2
	Pittsburgh	1.1
	Virginia Beach	0.7
	viiginia beadi	
47	Hartford	
47 48	Hartford Oklahoma City	-0.5

## **Congestion and Reliability**

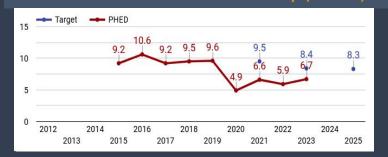
#### Trends

 Congestion decreased and reliability increased during the pandemic. Postpandemic congestion levels remain below prepandemic levels.

### **Policy Questions Raised**

 Despite reduction in congestion, the percent of workers with long commute times is increasing, likely due to increasing distances between jobs and residences, how can we locate these closer together?

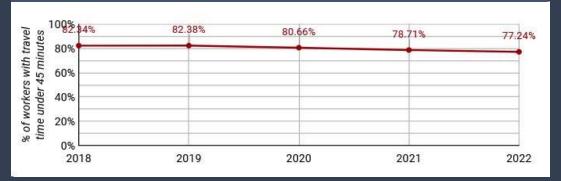
## M22: Peak Hour Excessive Delay (PHED)



## M23: Interstate Reliability



## M21: Commute Travel Time under 45 Minutes



## **Transportation Assets**

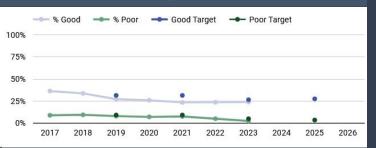
#### Trends

- Both DOTs are rapidly driving down the % of NHS bridges in poor condition.
- Metro revenue vehicles in good condition but many non-revenue vehicle have exceeded useful life.

### **Policy Questions Raised**

- How can the region finance new non-revenue vehicles?
- Can the region continue to keep pace with bridge maintenance needs?

## M31/32:NHS Bridge Conditions - MO



## M31/32: NHS Bridge Conditions - IL



## M33 and M34: % of Vehicle that Exceed Useful Life Benchmark (ULB) - Metro

Equipment Type	ULB (Years)	FY22 Total Equipment	FY22 % Equipment beyond ULB
Bus	14	392	10%
Van	8	123	27%
Light Rail Vehicle	31	87	0%
Under 1 Ton	8	113	73%
Over 1 Ton	14	85	52%
Trailers	14	42	40%
Snow Remove Equipment	14	38	53%
TUG/Mule Vehicles	14	4	75%
Forklift	14	14	79%
Off-Road Equipment	14	54	41%

# Summary

- System Performance Dashboard available on EWG's website
- Provides a visual representation of metrics that provides insights into the performance of the regional transportation system and other associated measures
- Continuously monitored and updated annually
- Designed to support data-driven policy changes and decisions

# Questions?

Scan to see Performance Dashboard

