# 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 decision-making



#### **Our Communities and Region**







Thriving Neighborhoods and Communities



A Vibrant Downtown and Central Core



A Healthy and Sustainable Environment



#### **Our Transportation System**



Safe and Secure



Choices and Access for All



Seamless, Efficient, and Reliable



Well-Maintained and Resilient



#### **Our Process**



Collaborative



Equitable

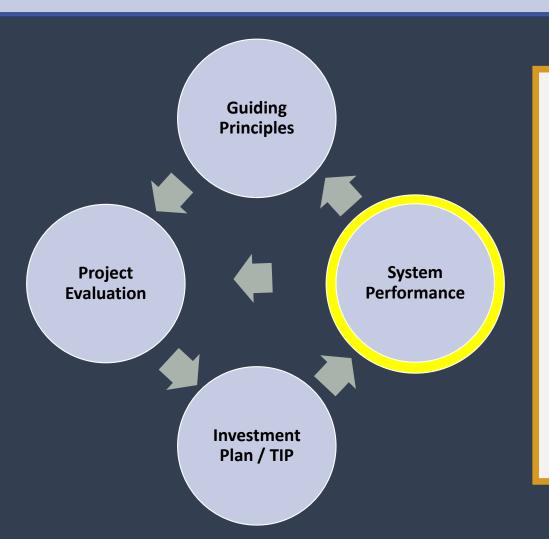


Innovative



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
			Parisant analysis at	Trend	Measure
<b>®</b>	Economic Vitality	M1	Regional employment		No
		M2	Real gross domestic product	•	No
		М3	Residential vacancy (percent of census tracts	•	No
	Thriving Neighborhoods		exceeding a vacancy threshold)		
		M4	Percent of population with housing and	▼	No
	and Communities		transportation costs over 45% of income (based on the median household income of each		
	Communities		census tract)		
MAA	A Vibrant Downtown and Central Core	M5	Employment in the central core	<b>A</b>	No
		M6	Population living in the central core	<b>A</b>	No
		M7	Annual days reaching "unhealthy for sensitive	•	No
	A Healthy and Sustainable Environment		groups" or above on the Air Quality Index (for		
77			ozone & PM2.5 combined)		
W <sup>y</sup>		M8	GHG emissions from on-road transportation	•	No
		M9	Emissions reduction (NOx and VOC)	_*	Yes
		M10	Roadway fatalities	•	Yes
1		M11	Roadway fatality rate	•	Yes
		M12	Roadway serious injuries	•	Yes
	Safe and	M13	Roadway serious injuries rate	•	Yes
	Secure	M14	Non-motorized fatalities and serious injuries	•	Yes
		M15	Transit fatalities	▼	Yes
		M16	Transit injuries	•	Yes
		M17	Transit safety events	▼	Yes
	Choices and	M18	Non-single occupant vehicle mode share	<b>A</b>	Yes
		M19	Percent of workers with a transit commute	<b>A</b>	No
	Access for All		travel time under 45 minutes		
V100		M20	Transit ridership (annual unlinked transit trips)		No

Guiding Principles		PM#	Performance Measure	Desired	Federal
J ,				Trend	Measure
		M21	Percent of workers with commute travel time	<b>A</b>	No
	Seamless, Efficient, and Reliable		under 45 minutes		
		M22	Peak hour excessive delay per capita	•	Yes
		M23	Percentage of person-miles traveled on the	<b>A</b>	Yes
			Interstate system with reliable travel time		
		M24	Percentage of person-miles traveled on the	<b>A</b>	Yes
			non-Interstate NHS with reliable travel time		
		M25	Truck Travel Time Reliability index ▲		Yes
		M26	On-time performance for public transit	<b>A</b>	No
		M27	Percent of Interstate pavement in good	<b>A</b>	Yes
			condition		
	Well- Maintained and Resilient	M28	Percent of Interstate pavement in poor	▼	Yes
			condition		
		M29	Percent of non-Interstate NHS pavement in	<b>A</b>	Yes
			good condition		
		M30	Percent of non-Interstate NHS pavement in	•	Yes
			poor condition		
		M31	Percent of NHS bridge deck area in good	<b>A</b>	Yes
			condition		
EQ.		M32	Percent of NHS bridge deck area in poor	▼	Yes
			condition		
		M33	Percentage of vehicle met or exceeded Useful	▼	Yes
			Life Benchmark for non-revenue vehicles		
		M34	Percentage of vehicle met or exceeded Useful	▼	Yes
泰泰			Life Benchmark for revenue vehicles		
		M35	Percentage of track segments under	▼	Yes
			performance restriction		
		M36	Percentage of facilities assets with condition	▼	Yes
			rating below 3.0 on FTA TERM Scale		
		M37	Mean distance between transit major	•	Yes
			mechanical failures		
	Equitable	EI38	Disparity in diesel particulate matter exposure	▲ to 100	No
		EI39	Disparity in bicycle / pedestrian fatalities	▲ to 100	No
		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 /transportationplanning/long-rangetransportation-planning/lrpperformance-dashboard/

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CONNECTED

Federal Measures +

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### **System Performance Dashboard**

#### Federal Measures

## Highways

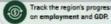
See the future targets for safety, asset condition, congestion, reliability, and emissions.



#### **Our Communities and Region**







#### **Thriving Neighborhoods** and Communities



employment in the central core has changed

**Vibrant Downtown** 

and Central Core

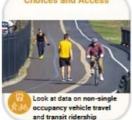


#### **Our Transportation System**

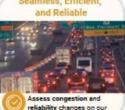
Safe and Secure



#### **Choices and Access**



#### Seamless, Efficient,



reliability changes on our transportation networks

#### Well-Maintained and Resilient



## Dashboard Insights

Examples

## **Transportation Safety**

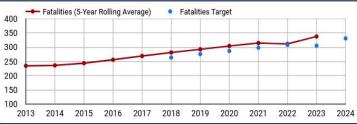
#### **Trends**

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

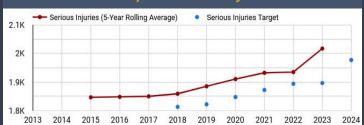
#### **Policy Questions Raised**

- 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?

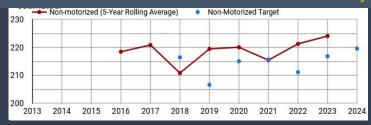




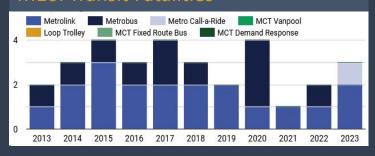
#### M12: Roadway Serious Injuries



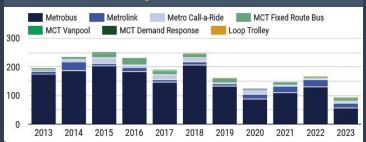
#### M14: Non-Motorized Fatalities and Serious Injuries



#### M16: Transit Fatalities



#### M16: Transit Injuries



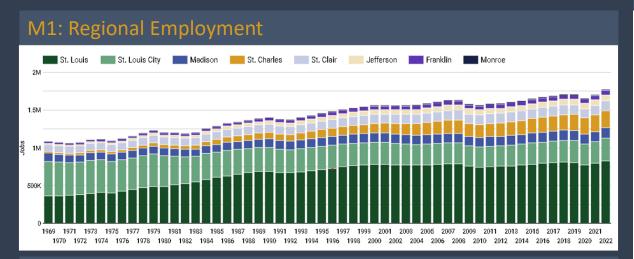
## **Economy**

#### **Trends**

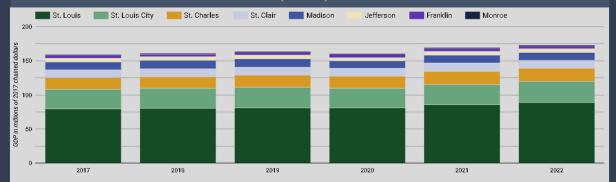
- Average annual employment growth rate (1.11% from 2013)
- Average annual GDP growth rate (1.86% from 2018)

#### **Policy Questions Raised**

- How can we better understand and evaluate potential economic impacts from transportation projects?
- Does a transportation project promote regional growth or only reallocate growth within the region?







#### Where We Stand

#### Change in Gross Domestic Product per Capita

Percent change, in chained 2017 dollars, 2017-2022

	dollars, 2017-202	
1	San Jose	40.4
2	San Francisco	28.3
3	Seattle	20.3
4	Austin	19.9
5	Denver	19.4
6	Miami	18.4
7	Phoenix	18.3
8	Salt Lake City	16.8
9	San Diego	16.6
10	Nashville	15.9
11	Tampa	15.5
12	Boston	14.7
13	Dallas	14.1
14	Los Angeles	14.0
15	New York	13.0
16	Birmingham	12.4
	Riverside	12.2
	Portland	11.5
19	Jacksonville	11.2
20	Las Vegas	10.9
21	Orlando	10.5
22	Raleigh	10.3
23	Louisville	10.1
24	San Antonio	10.0
25	Sacramento	9.7
26	Indianapolis	9.0
27	St. Louis	8.9
Uni	ted States	8.7
28	Atlanta	8.1
29	Richmond	7.5 7.3
30	Cleveland	
31	Washington, D.C.	7.0
32	Columbus	6.9
33	Memphis	6.2
35	Charlotte	5.9
36	Chicago Milwaukee	5.5
37	Buffalo	
38	Kansas City	5.2
39	Minneapolis	4.9
40	Detroit	4.4
41	Cincinnati	3.9
42	Baltimore	3.9
43	Houston	2.4
44	Providence	2.4
45	Philadelphia	2.2
46	Pittsburgh	1.1
47	Virginia Beach	0.7
48	Hartford	-0.5
49	Oklahoma City	-3.0
50	New Orleans	-3.2
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## **Congestion and Reliability**

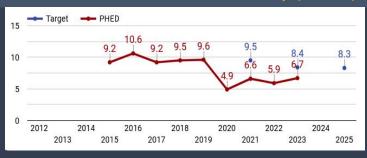
#### **Trends**

 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 change our growth patterns to address this issue?

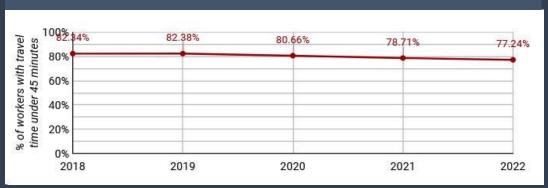
#### M22: Peak Hour Excessive Delay (PHED)



#### M23: Interstate Reliability



#### M21: Commute Travel Time under 45 Minutes



## **Transportation Assets**

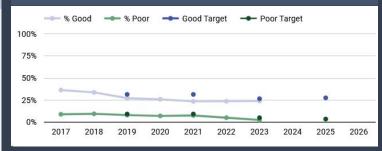
#### **Trends**

- 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.

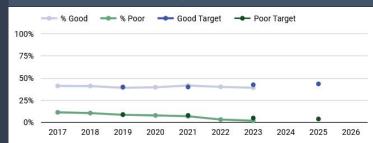
#### **Policy Questions Raised**

- 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	<b>75</b> %
Forklift	14	14	79%
Off-Road Equipment	14	54	41%

## **Environment**

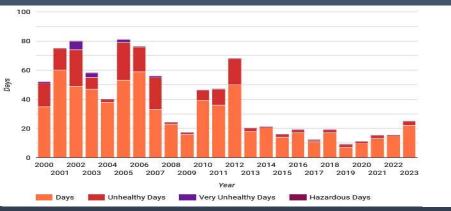
#### **Trends**

- Long-term decreasing trend in poor air quality days.
- GHG Emissions from the transportation sector are rising.

#### **Policy Questions Raised**

 How can we leverage the regional climate action plan to address GHG emissions in transportation?

#### M7:Days Reaching "Unhealthy for Sensitive Groups" or Above on Air Quality Index



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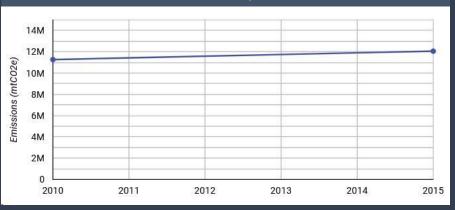
Non-Attainment

2015 Ozone Standard

2008 Ozone Standard

Maintenance

#### M8:GHG Emissions – Transportation Sector



## 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?