

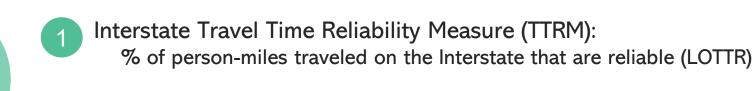
# SYSTEM RELIABILITY & FREIGHT MOVEMENT PERFORMANCE MEASURES

2024





### FHWA'S **3** SYSTEM RELIABILITY & FREIGHT MOVEMENT PERFORMANCE MEASURES





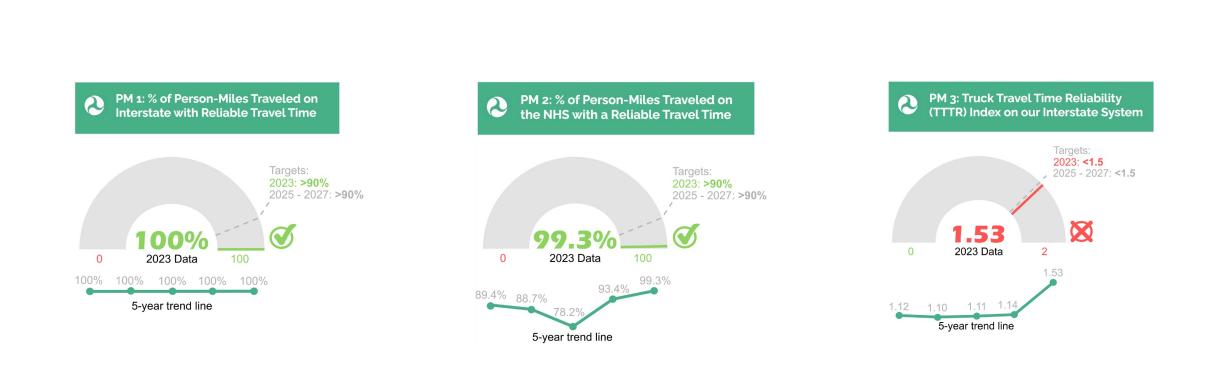
Non-Interstate Travel Time Reliability Measure (NTTRM): % of person-miles traveled on the Non-Interstate NHS that are reliable (LOTTR)



Data Source: RITIS

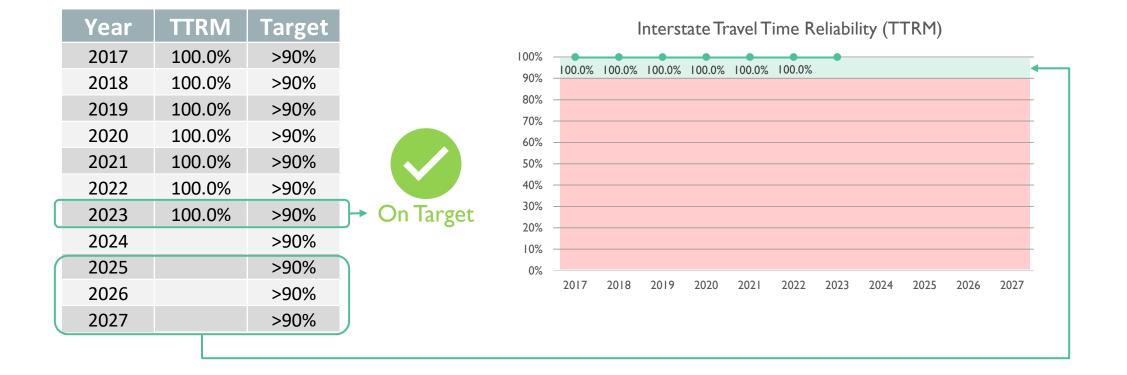








TARGET (1): INTERSTATE TRAVEL TIME RELIABILITY MEASURE (TTRM)

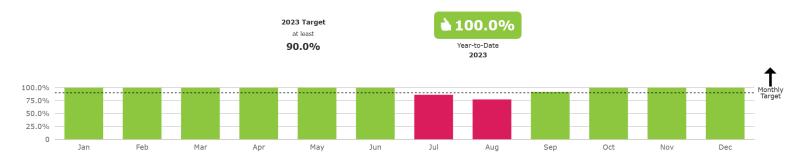




#### 2023 Interstate Travel Time Reliability for KS - Flint Hills Metropolitan Planning Organization, Manhattan (FHMPO)



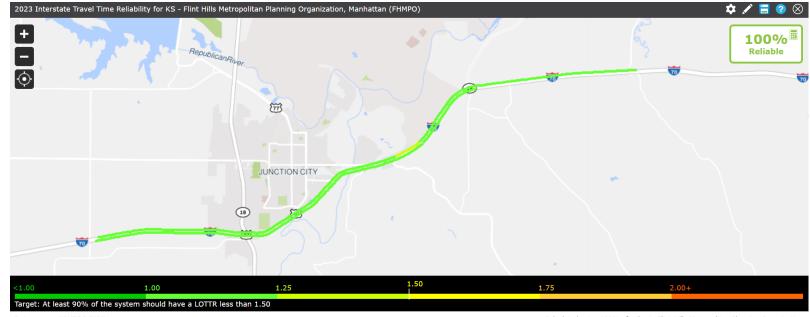
KS - Flint Hills Metropolitan Planning Organization, Manhattan (FHMPO) MAP-21 Percent of the Person-Miles Traveled on the Interstate That Are Reliable (the Interstate Travel Time Reliability measure)



#### 💹 Show map

Data source: NPMRDS INRIX

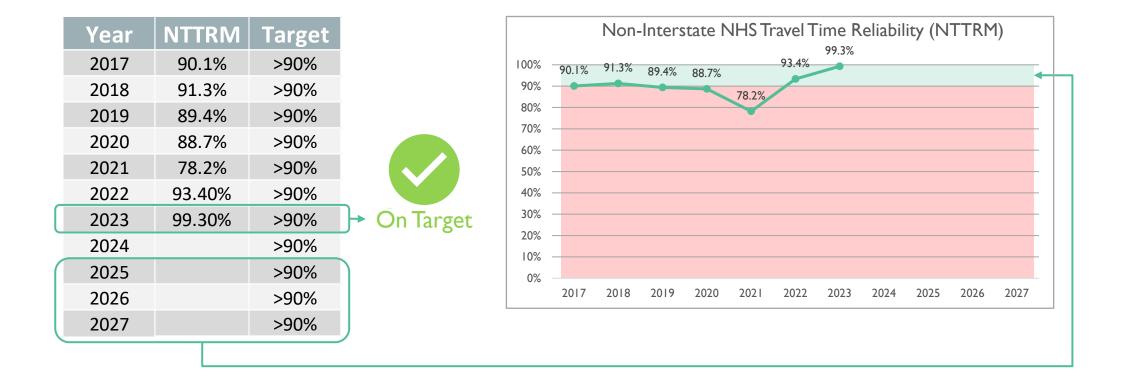
Calculated using 100% of miles in KS - Flint Hills Metropolitan Planning Organization, Manhattan (FHMPO)





Calculated using 100% of miles in Flint Hills Metropolitan Planning Organization

## TARGET 2: NON-INTERSTATE TRAVEL TIME RELIABILITY MEASURE (NTTRM)



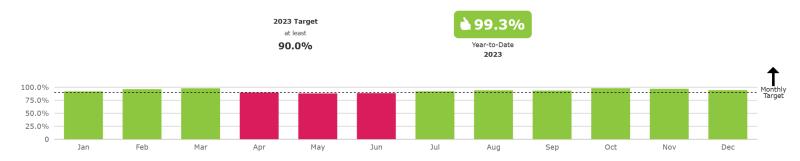


#### 2023 Non-interstate NHS Travel Time Reliability for KS - Flint Hills Metropolitan Planning Organization, Manhattan (FHMPO),

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#### KS - Flint Hills Metropolitan Planning Organization, Manhattan (FHMPO)

MAP-21 Percent of the Person-Miles Traveled on the Non-Interstate NHS That Are Reliable (the Non-Interstate NHS Travel Time Reliability measure)



#### 💹 Show map

Data source: NPMRDS INRIX

Calculated using 100% of miles in KS - Flint Hills Metropolitan Planning Organization, Manhattan (FHMPO)

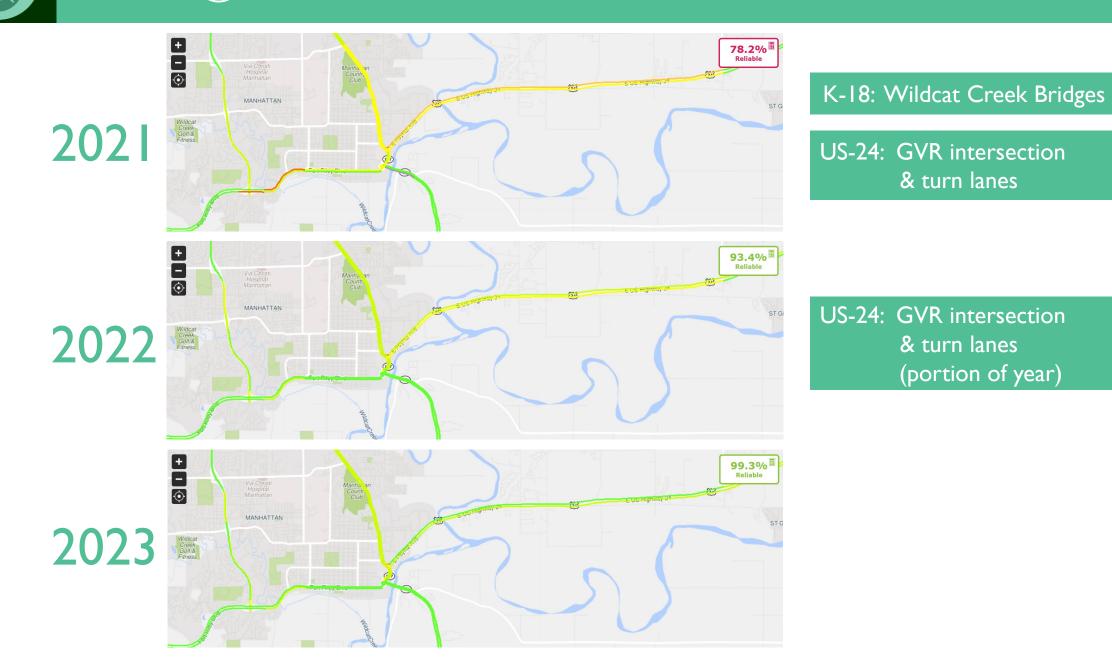




Data source: NPMRDS INRIX

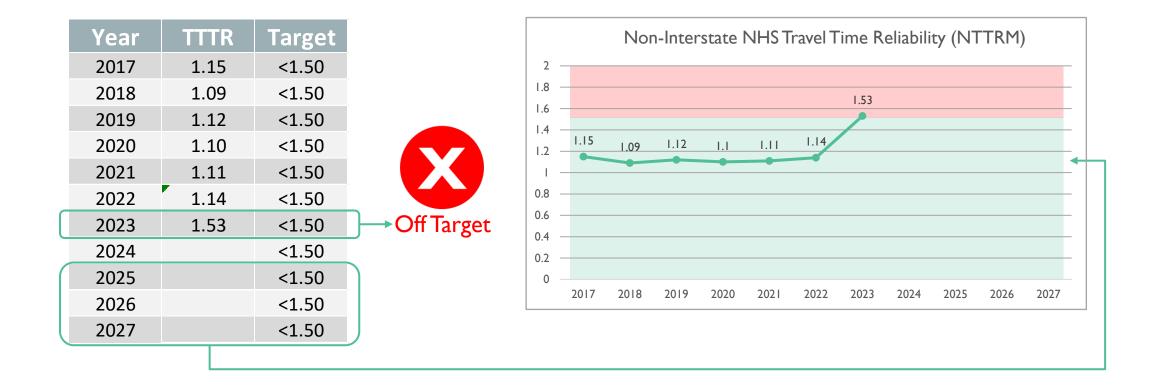
Calculated using 100% of miles in Flint Hills Metropolitan Planning Organization

## TARGET (2): CONSTRUCTION IMPACTS





## TARGET (3): INTERSTATE FREIGHT RELIABILITY MEASURE (TTTR)





TARGET (3): INTERSTATE FREIGHT RELIABILITY MEASURE (TTTR)

#### 2023 Truck Travel Time Reliability Index for KS - Flint Hills Metropolitan Planning Organization, Manhattan (FHMPO)

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Data source: NPMRDS INRIX

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Calculated using 100% of miles in KS - Flint Hills Metropolitan Planning Organization, Manhattan (FHMPO)



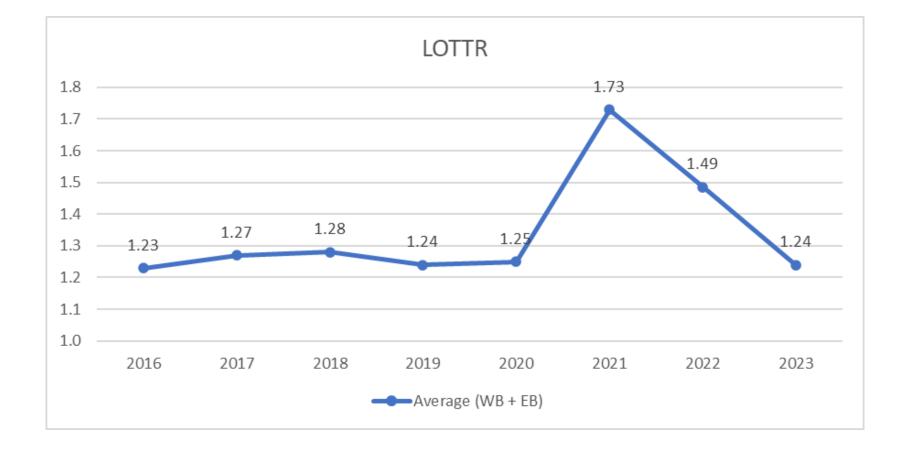


Data source: NPMRDS INRIX

Calculated using 100% of miles in Flint Hills Metropolitan Planning Organization



### CHANGES OVER TIME: US-24, MALL TO FLUSH ROAD

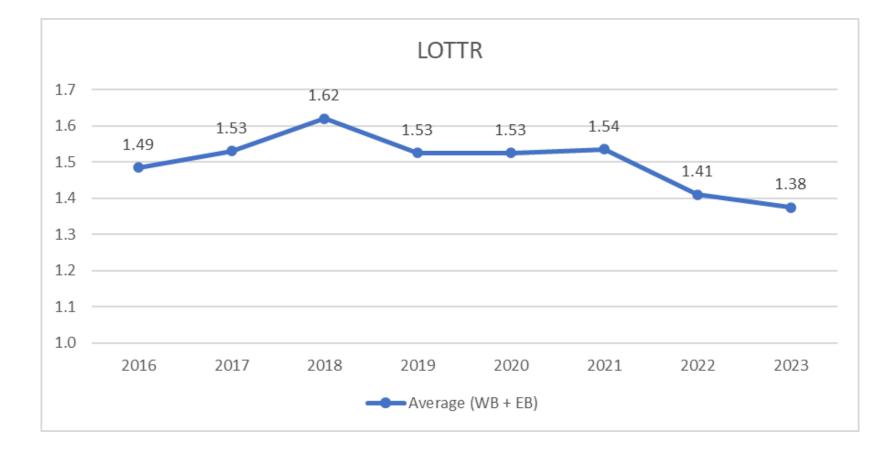


	Target	2016	2017	2018	2019	2020	2021	2022	2023
WB	LOTTR <1.5	1.25	1.28	1.3	1.27	1.27	1.79	1.4	1.21
EB	LOTTR <1.5	1.21	1.26	1.26	1.21	1.23	1.67	1.57	1.27
Total	LOTTR <1.5	1.23	1.27	1.28	1.24	1.25	1.73	1.49	1.24
Note	* 2021 & 202	2 = GVR int							





### CHANGES OVER TIME: US-24, MALL TO KIMBALL

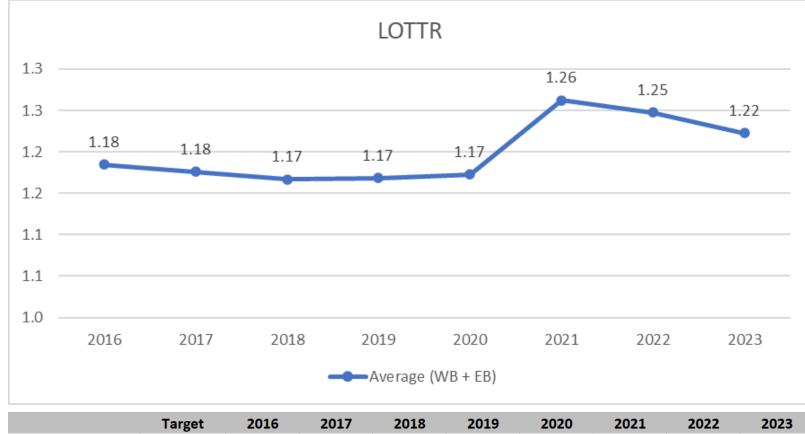


	Target	2016	2017	2018	2019	2020	2021	2022	2023
NB	LOTTR <1.5	1.49	1.56	1.65	1.55	1.52	1.55	1.39	1.35
SB	LOTTR <1.5	1.48	1.5	1.59	1.5	1.53	1.52	1.43	1.4
Total	LOTTR <1.5	1.49	1.53	1.62	1.53	1.53	1.54	1.41	1.38
Note									





### CHANGES OVER TIME: US-24, KIMBALL TO US-77

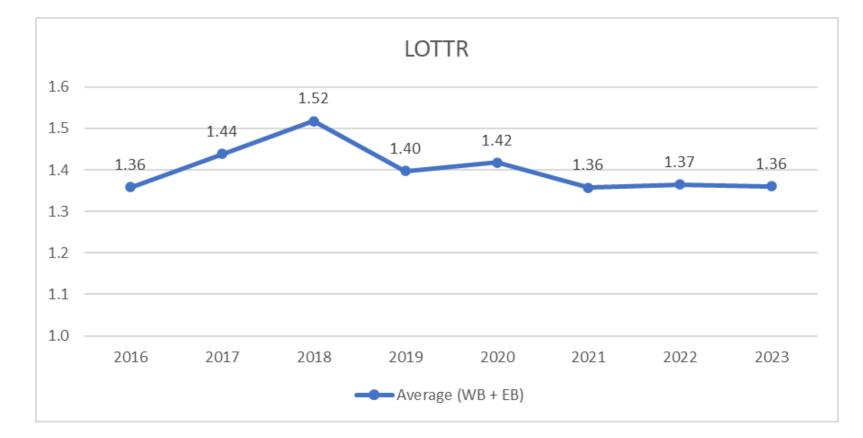


	Target	2016	2017	2018	2019	2020	2021	2022	2023
WB: Kimball - K13	LOTTR <1.5	1.23	1.21	1.2	1.26	1.22	1.4	1.44	1.25
WB: K13 - K113		1.16	1.13	1.09	1.1	1.14	1.19	1.15	1.1
WB: K113 - US-77		1.07	1.08	1.08	1.07	1.07	1.13	1.12	1.23
WB Total		1.15	1.14	1.12	1.14	1.14	1.24	1.24	1.19
EB: Kimball - K13	LOTTR <1.5	1.31	1.32	1.34	1.27	1.29	1.35	1.29	1.34
EB: K13 - K113		1.1	1.09	1.08	1.08	1.1	1.12	1.14	1.09
EB: K113 - US-77		1.07	1.07	1.08	1.06	1.06	1.06	1.06	1.05
EB Total		1.16	1.16	1.17	1.14	1.15	1.18	1.16	1.16
Total	LOTTR <1.5	1.18	1.18	1.17	1.17	1.17	1.26	1.25	1.22





### CHANGES OVER TIME: K-113, ANDERSON TO STAGG HILL

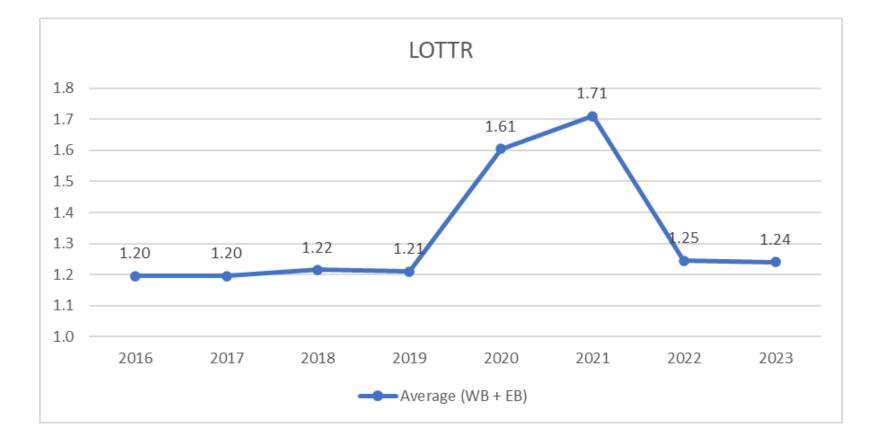


	Target	2016	2017	2018	2019	2020	2021	2022	2023
NB: Anderson - Southwind	LOTTR <1.5	1.29	1.32	1.33	1.31	1.33	1.27	1.24	1.25
NB: Southwind - Stagg Hill		1.48	1.61	1.83	1.55	1.57	1.43	1.56	1.55
NB Total	'	1.39	1.47	1.58	1.43	1.45	1.35	1.40	1.40
SB: Anderson - Southwind	LOTTR <1.5	1.28	1.36	1.33	1.3	1.32	1.38	1.26	1.24
SB: Southwind - Stagg Hill		1.41	1.56	1.88	1.6	1.5	1.54	1.36	1.41
SB Total		1.35	1.46	1.61	1.45	1.41	1.46	1.31	1.33
Total	LOTTR <1.5	1.36	1.44	1.52	1.40	1.42	1.36	1.37	1.36
Note									





### CHANGES OVER TIME: K-18, MLK JR TO RICHARDS



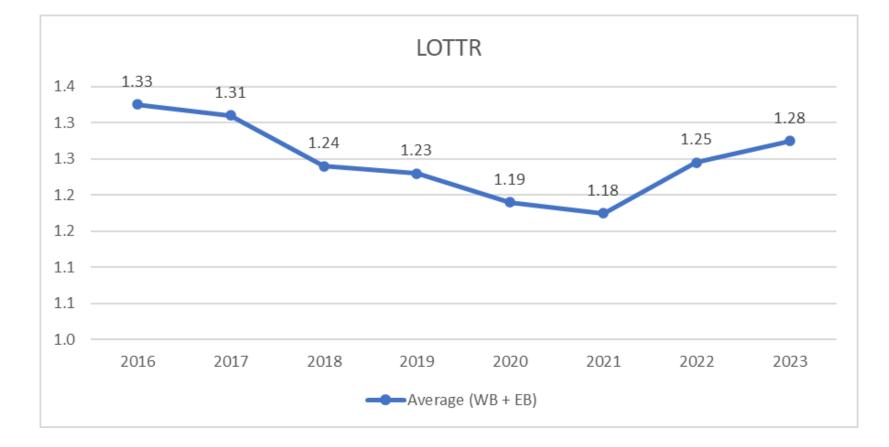
	Target	2016	2017	2018	2019	2020	2021	2022	2023
WB	LOTTR <1.5	1.2	1.18	1.23	1.2	1.94	2.08	1.2	1.2
EB	LOTTR <1.5	1.19	1.21	1.2	1.22	1.27	1.34	1.29	1.28
Total	LOTTR <1.5	1.20	1.20	1.22	1.21	1.61	1.71	1.25	1.24

Note \* 2020-2022 the Wildcat Creek bridge was being reconstructed





### CHANGES OVER TIME: US-24, FLUSH RD TO WAMEGO

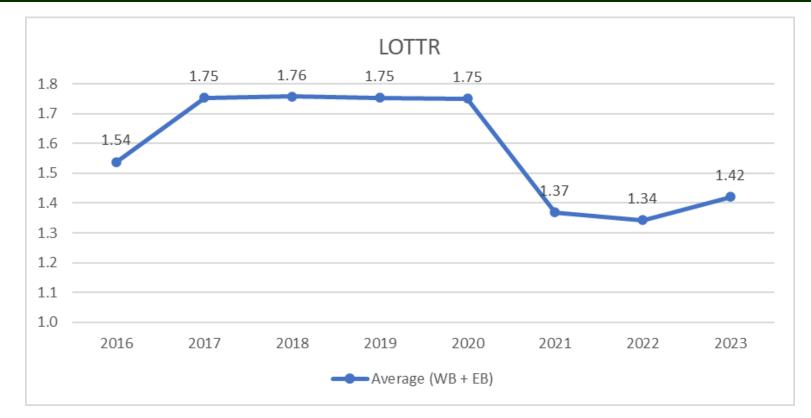


	Target	2016	2017	2018	2019	2020	2021	2022	2023
WB	LOTTR <1.5	1.3	1.32	1.27	1.24	1.21	1.2	1.25	1.26
	LOTTR <1.5	1.35	1.3	1.21	1.22	1.17	1.15	1.24	1.29
Total	LOTTR <1.5	1.33	1.31	1.24	1.23	1.19	1.18	1.25	1.28
Note									





### CHANGES OVER TIME: US-77, ASH TO GE COUNTY LINE



	Target	2016	2017	2018	2019	2020	2021	2022	2023
NB: GE line to I-70	LOTTR <1.5	1.77	1.98	1.93	1.73	1.73	1.26	1.22	1.43
NB: I-70 Interchange (DDI)		1.42	1.58	1.5	1.55	1.64	1.64	1.6	1.6
NB: I-70 to K-18		1.37	1.94	2.04	2.07	2	1.4	1.38	1.41
NB Total		1.52	1.83	1.82	1.78	1.79	1.43	1.40	1.48
SB: GE line to I-70	LOTTR <1.5	1.61	1.43	1.49	1.63	1.59	1.11	1.11	1.18
SB: I-70 Interchange (DDI)		1.5	1.64	1.64	1.66	1.65	1.65	1.67	1.64
SB: I-70 to K-18		1.29	1.53	1.65	1.59	1.37	1.21	1.23	1.27
SB Total		1.47	1.53	1.59	1.63	1.54	1.32	1.34	1.36
Total	LOTTR <1.5	1.54	1.75	1.76	1.75	1.75	1.37	1.34	1.42
Note	* DDI under								



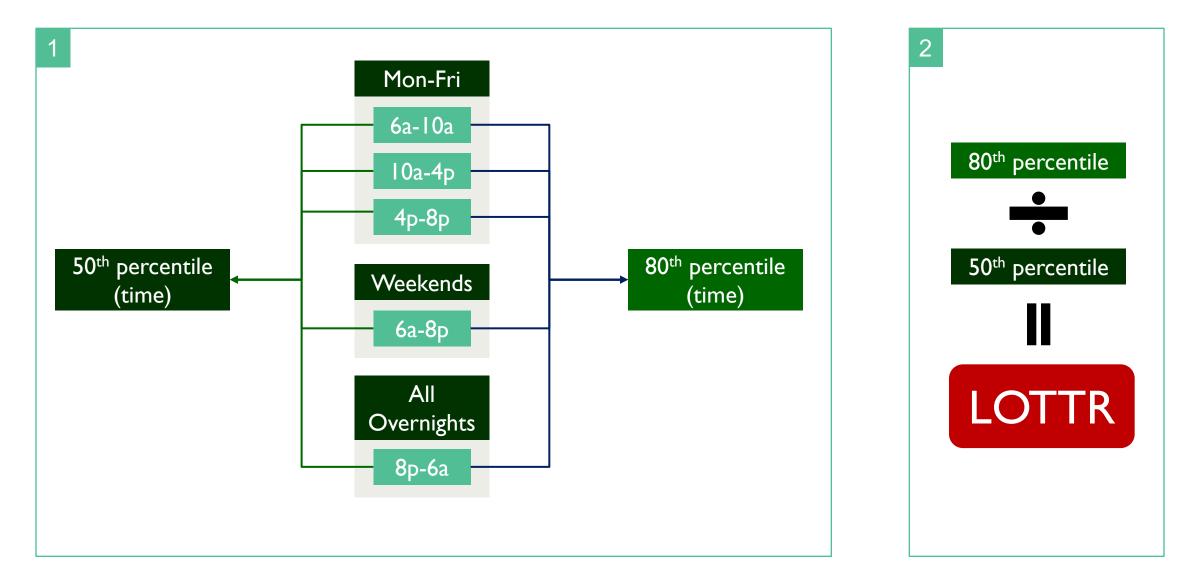


- System Reliability & Freight Management data are monitored and aggregated via the Regional Integrated Transportation Information System (RITIS). RITIS is a web-based database with multiple interfaces including graphs and maps.
- FHMPO staff has access to this data and has an account based upon the 2017 FHMPO boundary. RITIS data is monitored on the Interstate and Non-Interstate NHS systems.





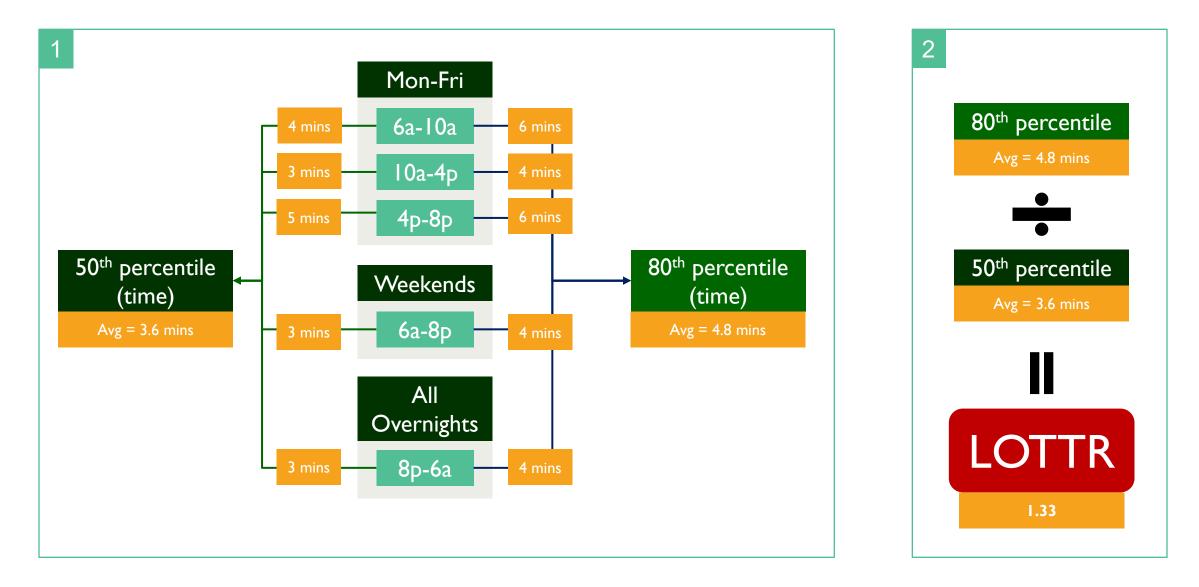
#### LEVEL OF TRAVEL TIME RELIABILITY (LOTTR)



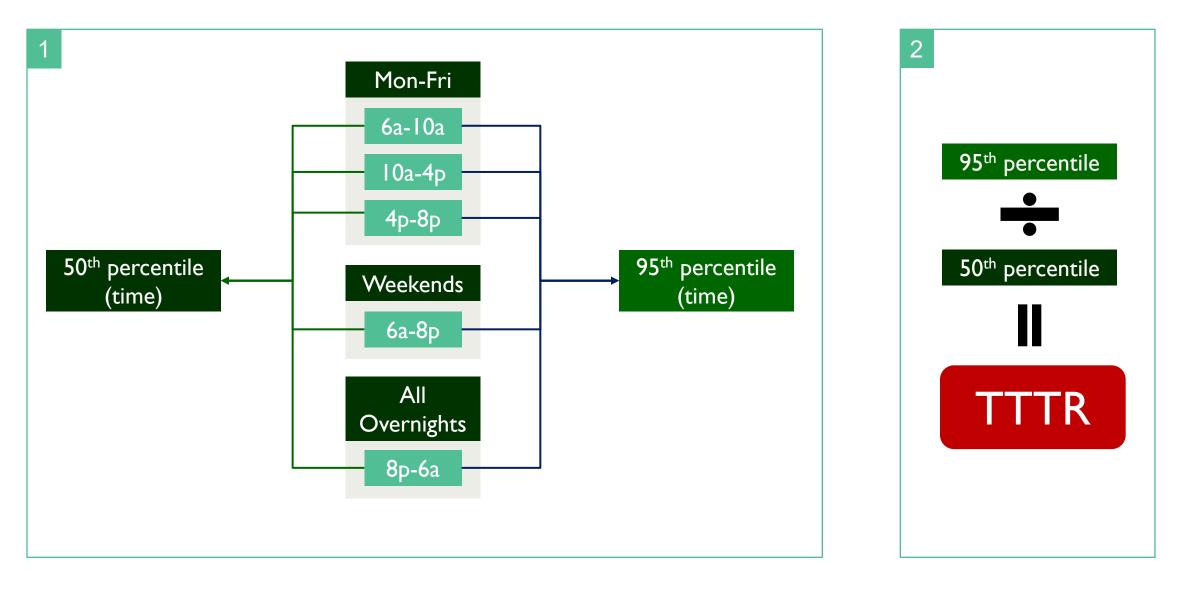




#### LEVEL OF TRAVEL TIME RELIABILITY (LOTTR)











#### LEVEL OF TRAVEL TIME RELIABILITY (TTTR)

