

SYSTEM RELIABILITY &  
FREIGHT MOVEMENT  
PERFORMANCE MEASURES:

2019



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



Data Source: RITIS

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



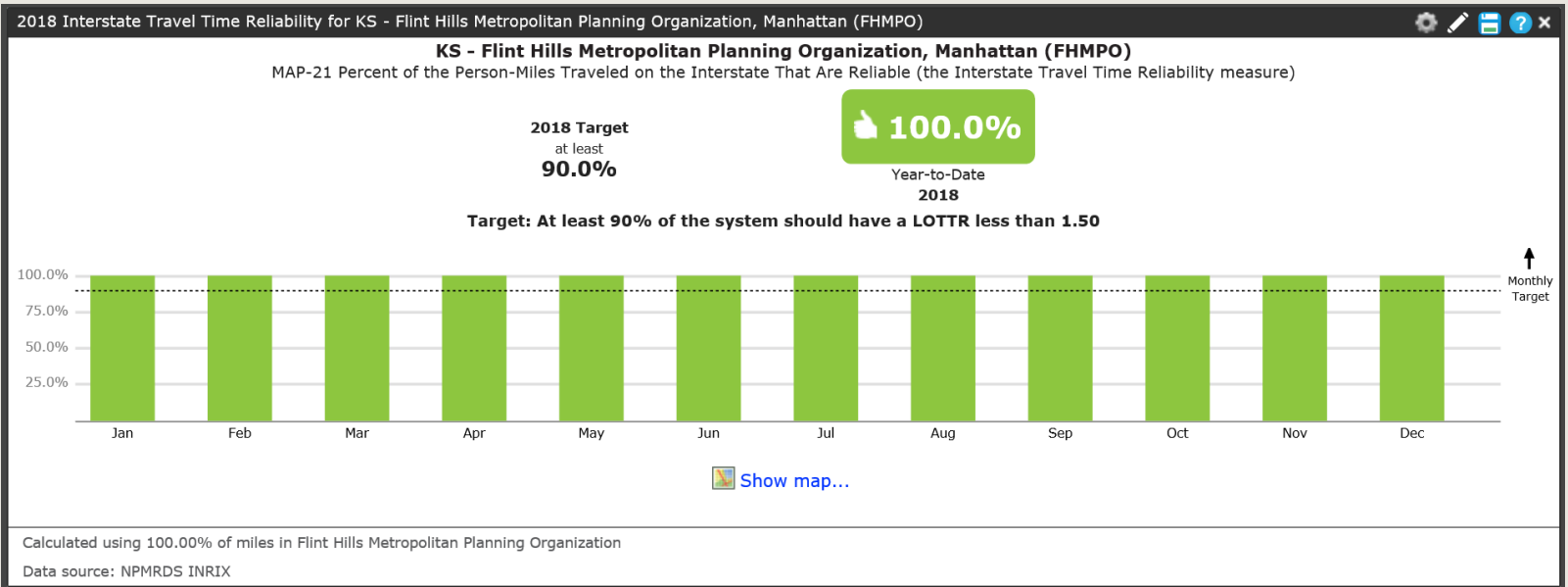
Data Source:  
RITIS

- 1 Interstate Freight Reliability Measure:  
Truck Travel Time Reliability (TTTR) Index



# INTERSTATE TRAVEL TIME RELIABILITY MEASURE (TTRM):

| Year | % Reliable Miles | Target |
|------|------------------|--------|
| 2016 | 100%             |        |
| 2017 | 100%             |        |
| 2018 | 100%             |        |
| 2019 |                  | >90%   |
| 2020 |                  | >90%   |
| 2021 |                  | >90%   |
| 2022 |                  | >90%   |

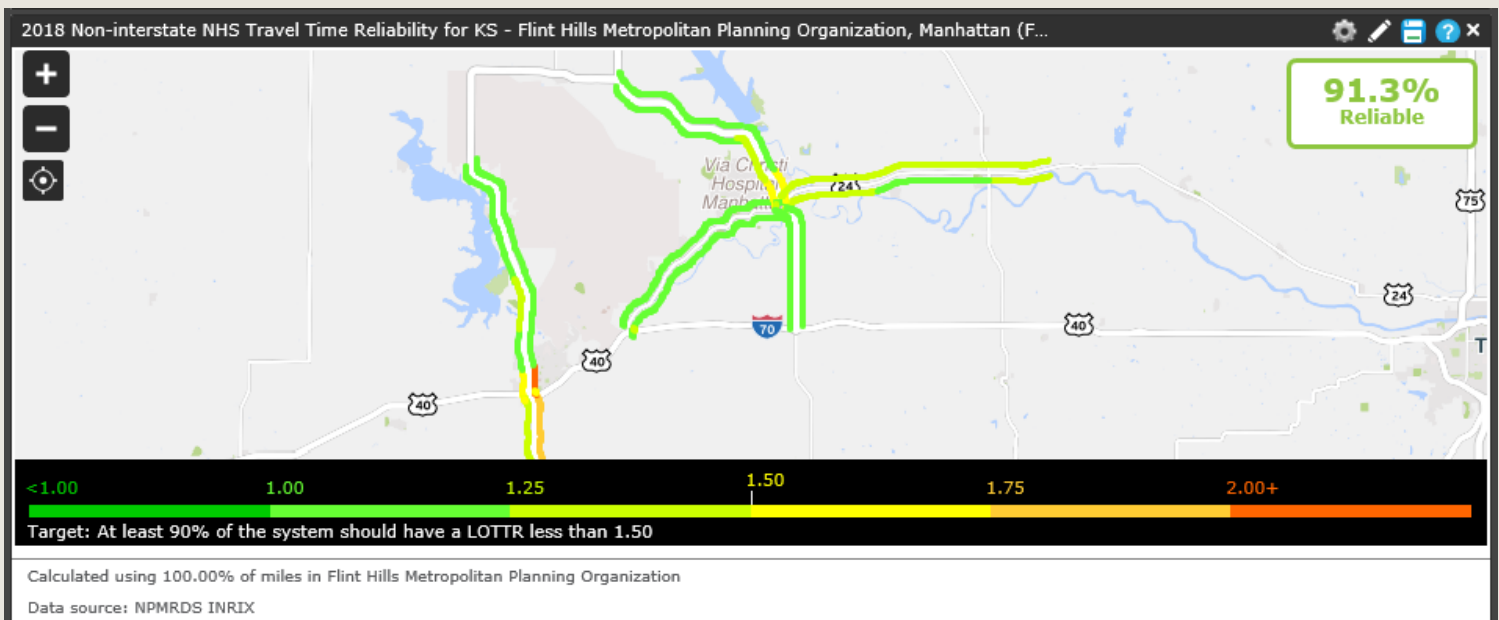
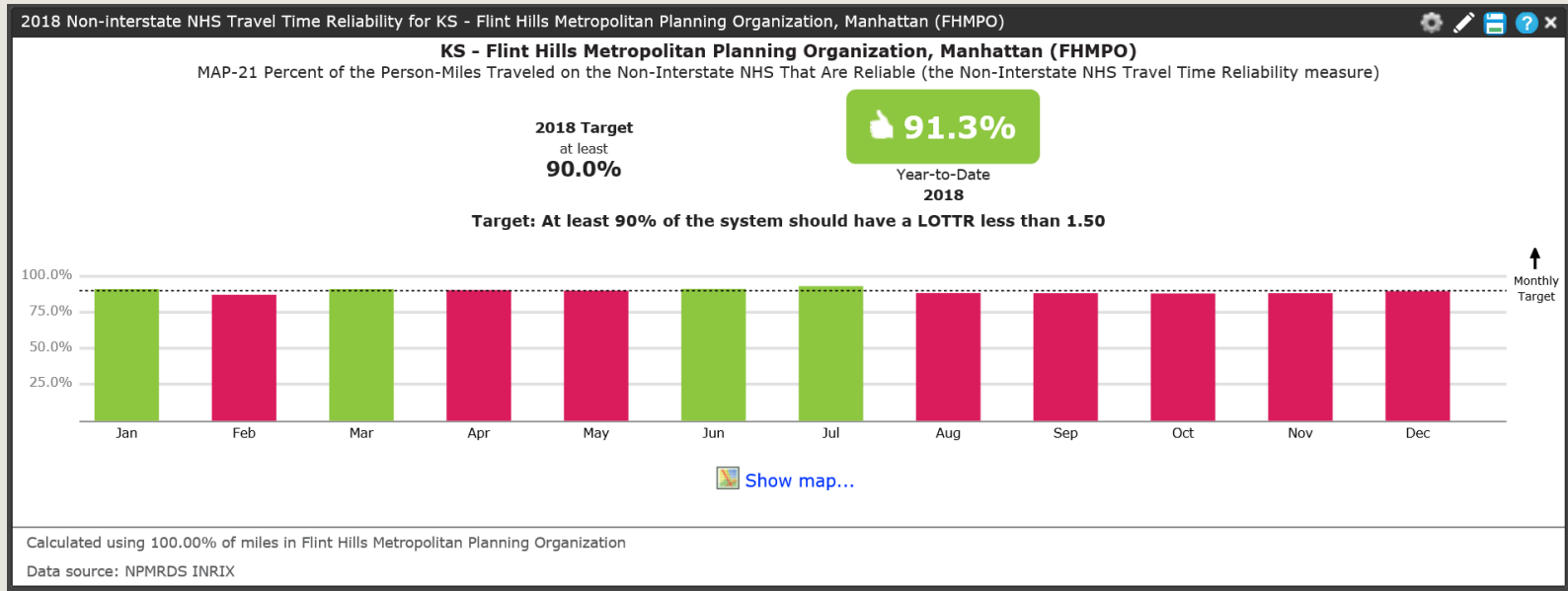




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# NON-INTERSTATE TRAVEL TIME RELIABILITY MEASURE (NTTRM):

| Year | % Reliable Miles | Target |
|------|------------------|--------|
| 2016 | 95.3%            |        |
| 2017 | 90.1%            |        |
| 2018 | 91.3%            |        |
| 2019 |                  | >90%   |
| 2020 |                  | >90%   |
| 2021 |                  | >90%   |
| 2022 |                  | >90%   |

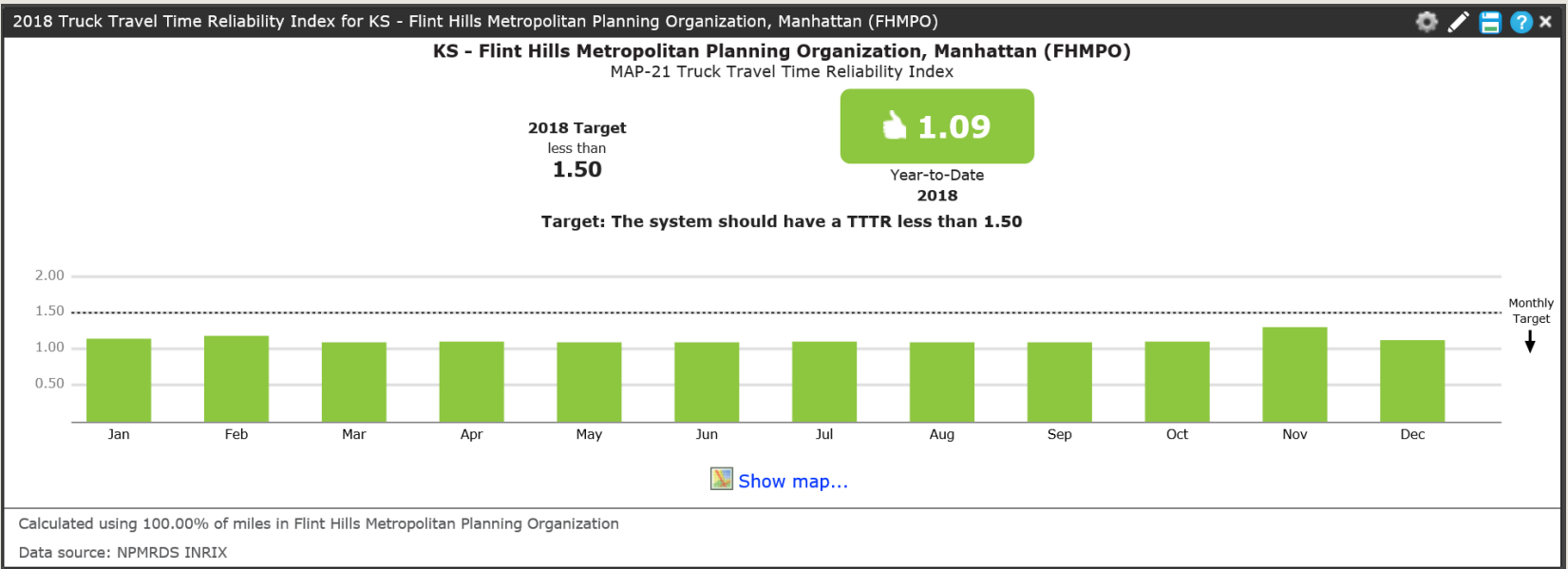




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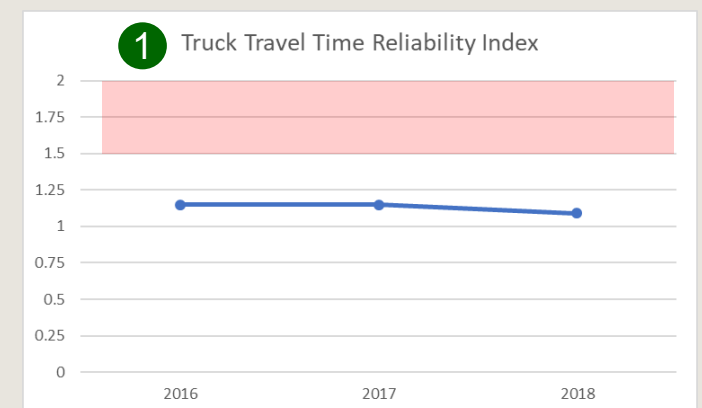
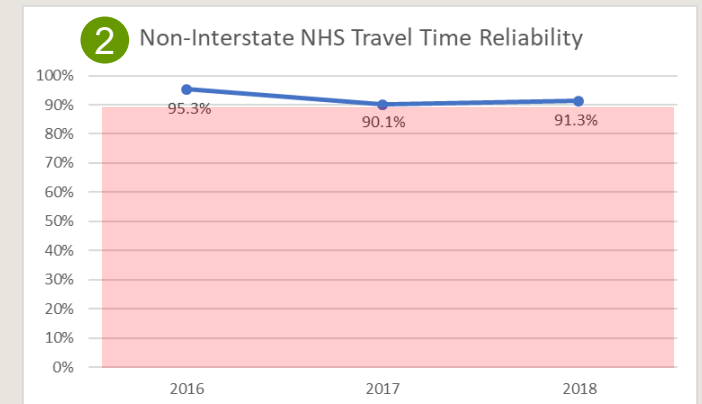
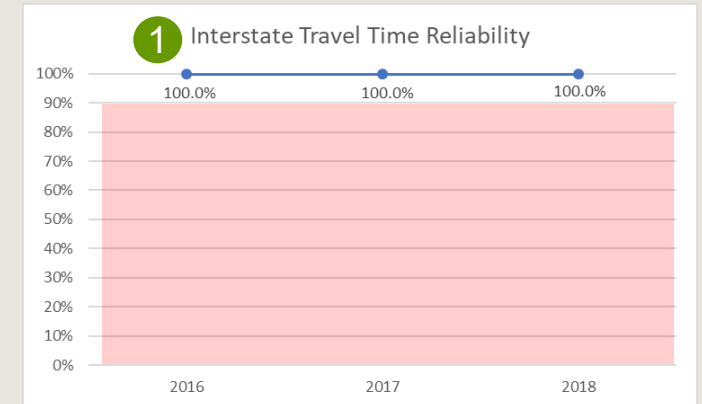
# INTERSTATE FREIGHT RELIABILITY MEASURE (TTTR):

| Year | TTTR | Target |
|------|------|--------|
| 2016 | 1.15 |        |
| 2017 | 1.15 |        |
| 2018 | 1.09 |        |
| 2019 |      | <1.50  |
| 2020 |      | <1.50  |
| 2021 |      | <1.50  |
| 2022 |      | <1.50  |



# SYSTEM RELIABILITY SUMMARY

| Performance Measure |  | 2018 Data | Targets                                   | On Track? |
|---------------------|--|-----------|---|-----------|
| 1                   | % of Person-Miles Traveled on Interstate that are Reliable         | 100%      | 2019: 90%<br>2020: 90%<br>2021: 90%       | ✓         |
| 2                   | % of Person-Miles Traveled on Non-Interstate NHS that are Reliable | 91.3%     | 2019: 90%<br>2020: 90%<br>2021: 90%       | ✓         |
| 1                   | Truck Travel Time Reliability (TTTR)                               | 1.09      | 2019: < 1.5<br>2020: < 1.5<br>2021: < 1.5 | ✓         |





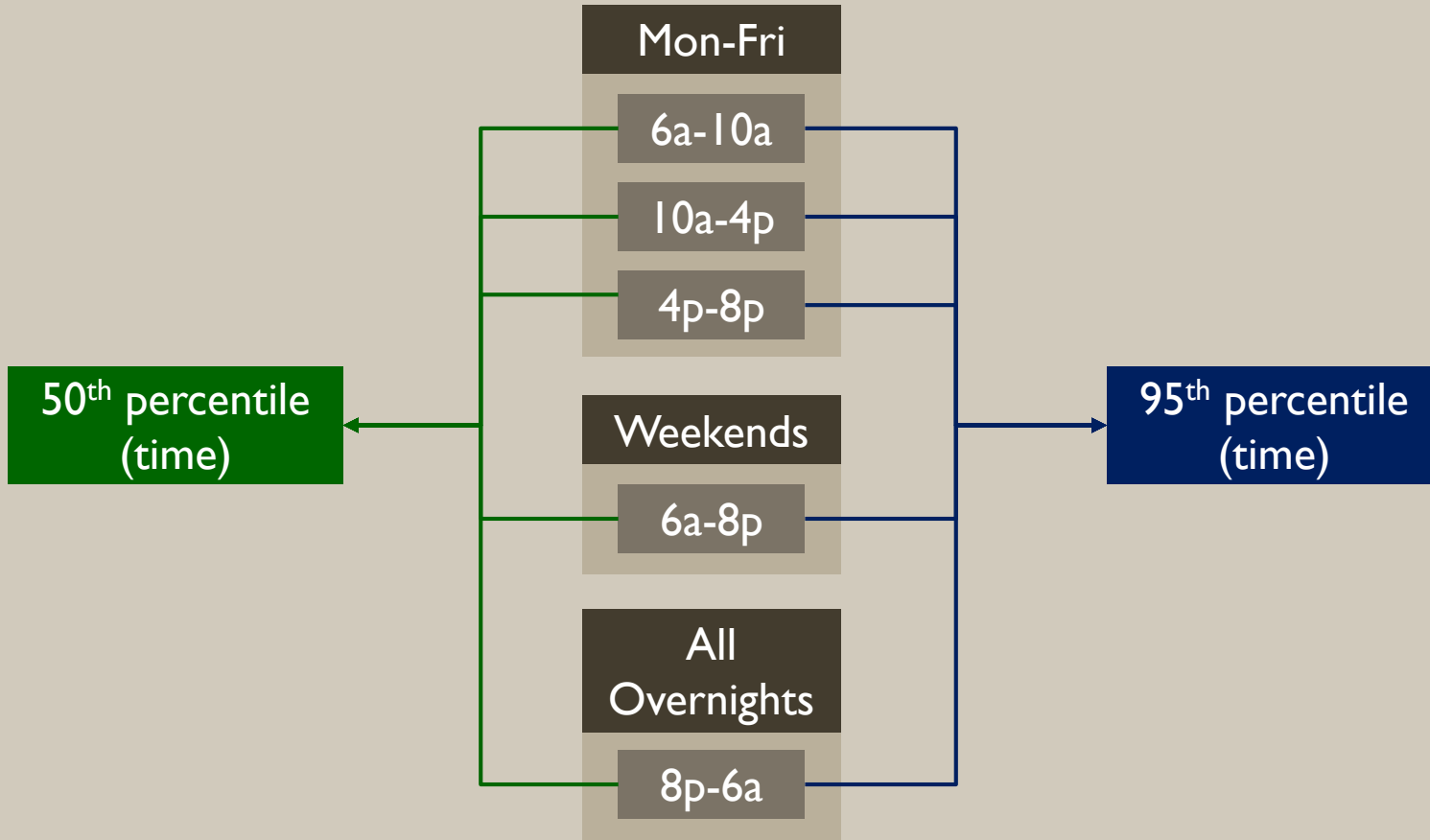
## BACKGROUND ON SYSTEM RELIABILITY & FREIGHT MANAGEMENT

- 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.



# TRUCK TRAVEL TIME RELIABILITY INDEX (TTTR)

1



2

$$\frac{95^{\text{th}} \text{ percentile}}{50^{\text{th}} \text{ percentile}} = \text{TTTR}$$