

Performance Based Planning & Programing

Vision



Goal



Objective



Performance
Measure



Target



Strategy



Action Items





MAP-21 Putting Performance into Action

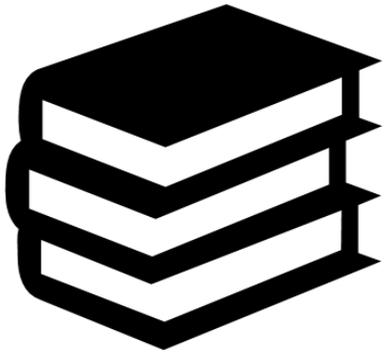
Transportation Performance Management Process





Capacity Building

- Performance Management & Asset Management Training
- FHWA/FTA Webinars and Guidance, AASHTO Support
- MAP-21 Book Club

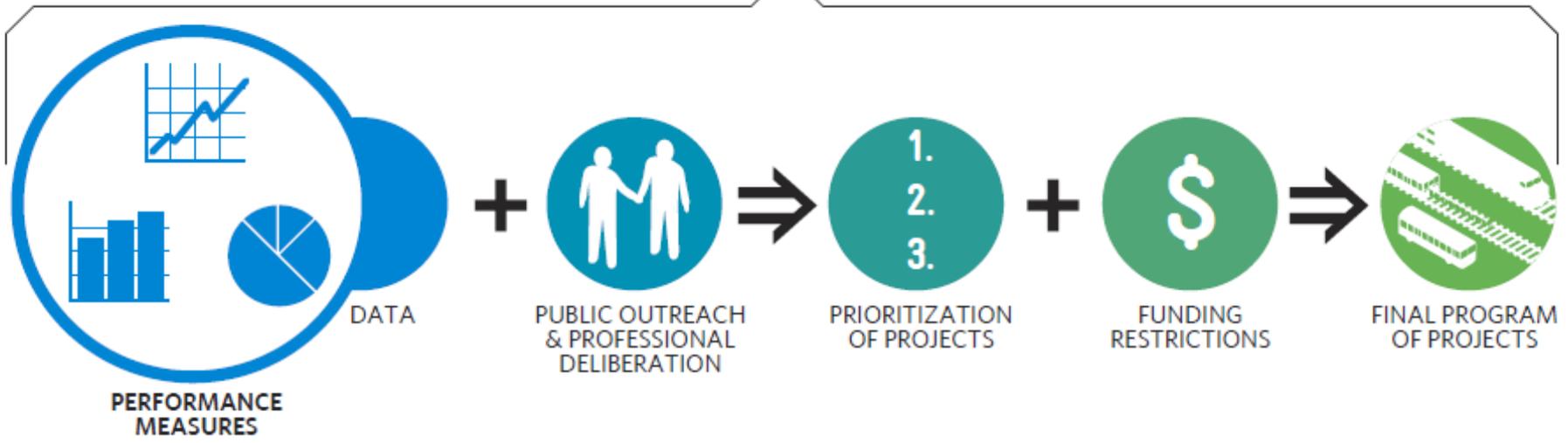


Division of Planning, FHWA RI Division, and RIDOT met Bi-Weekly to discuss the components of MAP-21 at the programmatic and policy level.



Shift to Performance Based Planning & Funding

PERFORMANCE-BASED FUNDING

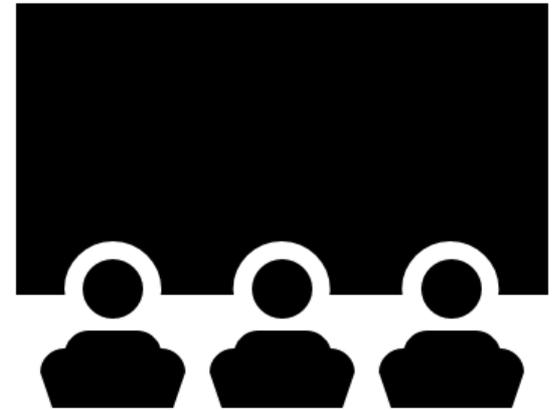




Transportation Advisory Committee Education Series

Focused on the Following Topic Areas

- Safety
- Bridge
- Road / Pavement Condition
- Transportation Alternatives
- Bus Transit
- Rail Transit
- System Performance (Operations, Congestion Management, and Environmental Sustainability)





Transportation Advisory Committee Education Series

1. What does your program consist of and what are its goals?
2. Why is your program important?
3. What kind of funding resources do you need to implement your program and meet your goals?
4. Why does the success of your program matter to the transportation system?

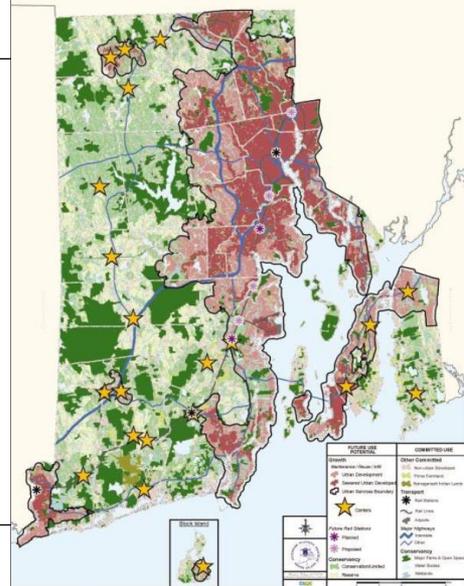


L RTP Draft Performance Measures

Connect People and Places		Expand connectivity across modes to increase transportation choices	<ul style="list-style-type: none"> > Transit Dedicated Lane Miles > Bicycle Dedicated Lane Miles > Transit Ridership
		Reduce Travel Congestion	<ul style="list-style-type: none"> > Percent of Person-Miles Traveled that are Reliable/Travel Predictability > Annual Hours of Peak Hour Excessive Delay Per Capita
		Improve regional connectivity	<ul style="list-style-type: none"> > Number of Passenger Intermodal Hubs > Number of regional non-SOV trips offered daily
Preserve the Transportation Network		Achieve a state of good repair	<ul style="list-style-type: none"> > Number of bridges in good condition (NBI) > Miles of pavement in good condition (PSHI)
		Enhance transportation network resiliency	<ul style="list-style-type: none"> > Miles of roadways vulnerable to SLR > Number of bridges vulnerable to SLR
		Enhance transportation safety	<ul style="list-style-type: none"> > Number of annual traffic fatalities > Number of annual traffic serious injuries
			<ul style="list-style-type: none"> > Rate of annual traffic fatalities per VMT > Rate of annual traffic series injuries per VMT > Number of pedestrian/bicyclist annual traffic fatalities and serious injuries
Promote Environmental Sustainability		Reduce vehicle miles traveled	> Vehicle Miles Traveled Annually
		Reduce transportation greenhouse gas emissions	<ul style="list-style-type: none"> > Transportation greenhouse gas emissions > Number of EV facilities statewide
		Create a network of open space, trails, and paths	<ul style="list-style-type: none"> > Number of cities/towns with access to off-street facilities for non-recreation trips > Miles of largest contiguous cycling network
Support Economic Vibrancy		Expand connections to jobs and growth centers	> Percentage of population with access to growth centers
		Improve access to national/global freight markets	<ul style="list-style-type: none"> > Number of freight bottlenecks > Value of freight cargo > Truck Travel Time Reliability Index (TTTR)
		Make transportation investments supportive of tourism	> Tourism spending
		Reduce transportation costs for people and goods	> Average User Cost



National Goal	LRTP Performance Measures	Source
<p>To achieve a significant reduction in traffic fatalities and serious injuries on public roads</p>	<ul style="list-style-type: none"> • # annual traffic fatalities • # annual traffic serious injuries • Annual traffic fatalities per VMT • Annual traffic serious injuries per VMT • # pedestrian/bicyclist annual traffic fatalities & serious injuries 	<ul style="list-style-type: none"> • FARS • CDMS • FARS • CDMS • FARS, CDMS
<p>To maintain the highway infrastructure asset system in a state of good repair</p>	<ul style="list-style-type: none"> • % pavement on the interstate system in good condition • % pavement on the interstate system in poor condition • % pavement on the non-interstate NHS in good condition • % pavement on the non-interstate NHS in poor condition • % NHS bridges in good condition • % NHS bridges in poor condition • % deck area of bridges classified as structurally deficient 	<ul style="list-style-type: none"> • PMS, HPMS • PMS, HPMS • PMS, HPMS • PMS, HPMS • BRM • BRM • BRM
<p>To achieve a significant reduction in congestion on the National Highway System</p>	<ul style="list-style-type: none"> • % pop. within 1/4 mile of public transportation/growth center • % non-SOV mode share • # regional non-SOV trips offered daily • Vehicle miles traveled annually • Cities/towns with access to off-street facilities for non-recreation trips • Miles of contiguous cycling network • Average user cost 	<ul style="list-style-type: none"> • Census, GIS • Census • Unknown • FHWA Stats • GIS • GIS • Unknown





National Goal	L RTP Performance Measures	Source
To improve the efficiency of the surface transportation system	<ul style="list-style-type: none"> • % person-miles traveled that are reliable • # unresolved freight bottlenecks • Truck travel time reliability index • Average user cost • % non-SOV mode share 	<ul style="list-style-type: none"> • NPMRDS • NPMRDS • NPMRDS • Unknown • Census
To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development	<ul style="list-style-type: none"> • % pop. with access to growth centers • # unresolved freight bottlenecks • Volume of freight cargo • Value of freight cargo • Truck Travel Time Reliability Index 	<ul style="list-style-type: none"> • Census, GIS • NPMRDS • Unknown • Unknown • NPMRDS
To enhance the performance of the transportation system while protecting and enhancing the natural environment	<ul style="list-style-type: none"> • % of non-SOV mode share • % pop. within 1/4 mile of public transportation or growth center • Housing density • # of regional non-SOV trips offered daily • % person-miles traveled on the interstate that are reliable • % person-miles traveled on the non-interstate that are reliable • Cities/towns with access to off-street facilities for non-recreation trips 	<ul style="list-style-type: none"> • Census • Census, GIS • Census, GIS • Unknown • NPMRDS • NPMRDS • GIS
To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices	<ul style="list-style-type: none"> • Balance of annual transportation budget expenditures • # of unresolved freight bottlenecks 	<ul style="list-style-type: none"> • Unknown • NPMRDS

Defining Terms

Vision



Goal



Objective



Performance Measure



Target

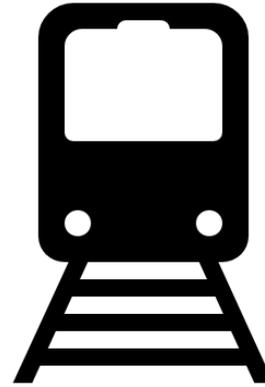
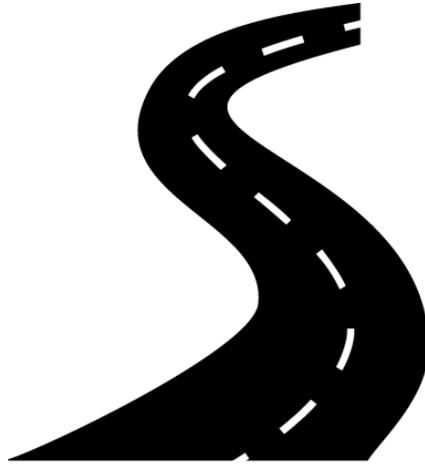


Strategy



Action Items





Performance Based Planning & Programing

Integration into the STIP



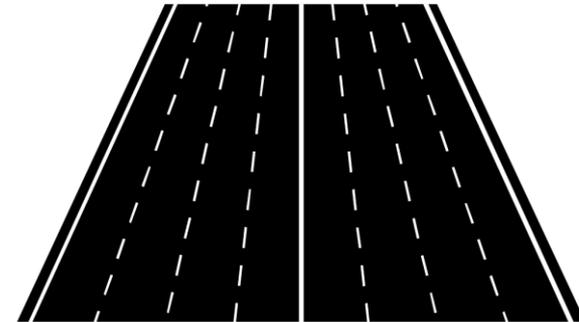
STIP - Asset Management Based Planning



Bridge



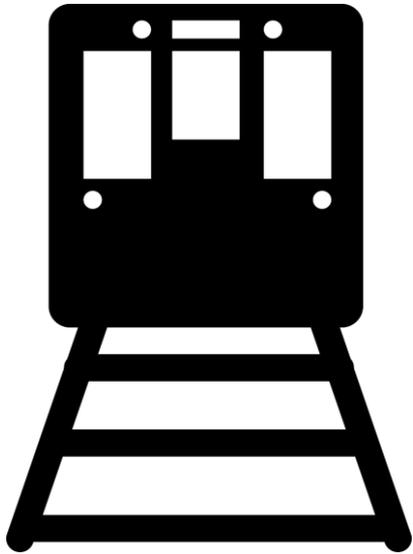
Traffic
Safety



Pavement



STIP – Next Steps for Performance Based Planning



Transit



Transportation
Alternatives



Performance Targets

Roll Out to the
Transportation
Advisory
Committee & State
Planning Council





Transportation Safety Performance Targets 2018



Number of Fatalities

Rate of Fatalities per 100 million VMT

Number of Serious Injuries

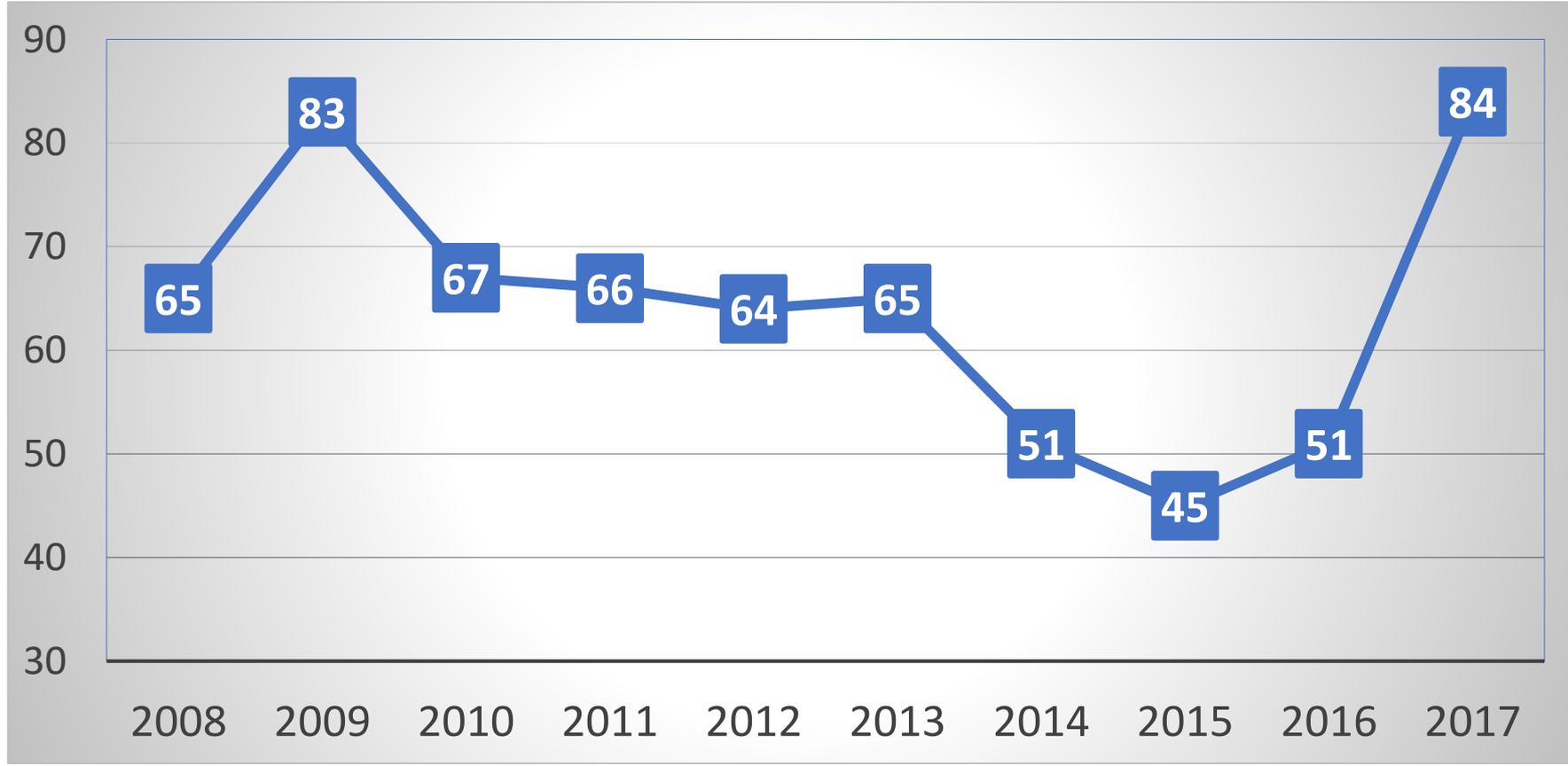
Rate of Serious Injuries per 100 million VMT

Number of Non-Motorized Fatalities and
Non-Motorized Serious Injuries



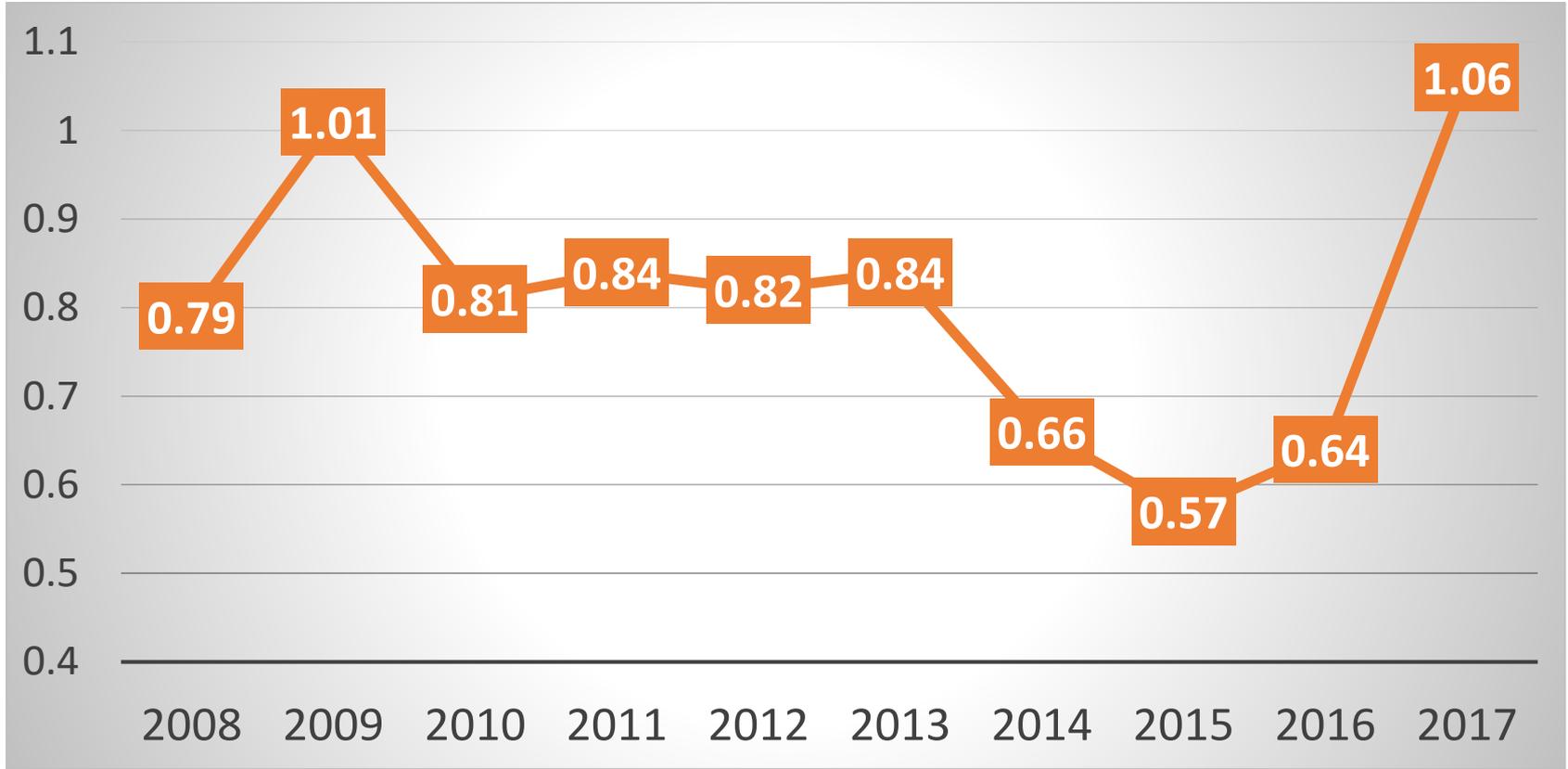


Number of Fatalities





Rate of Fatalities Per 100 million Vehicle Miles Traveled



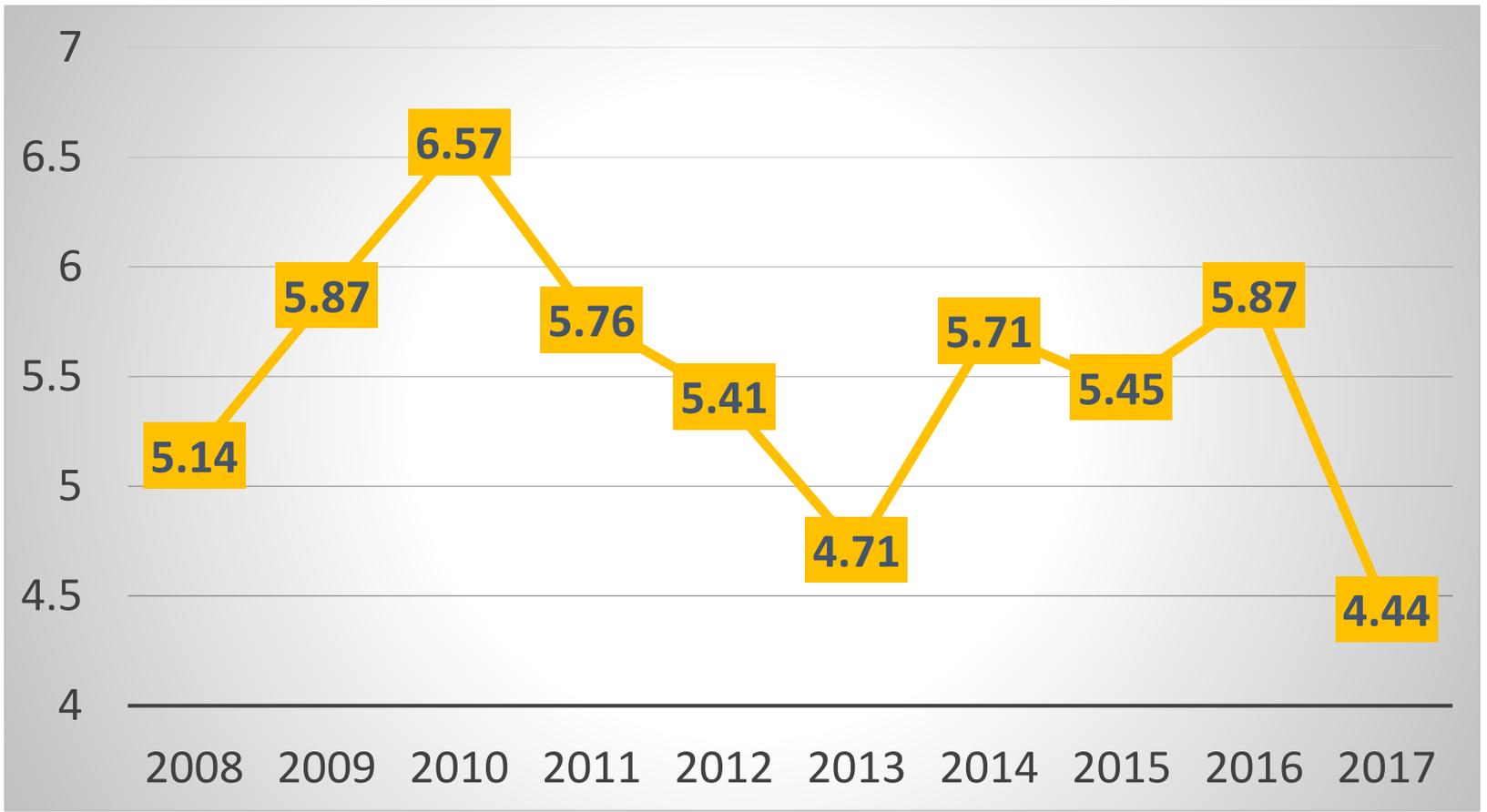


Number of Serious Injuries



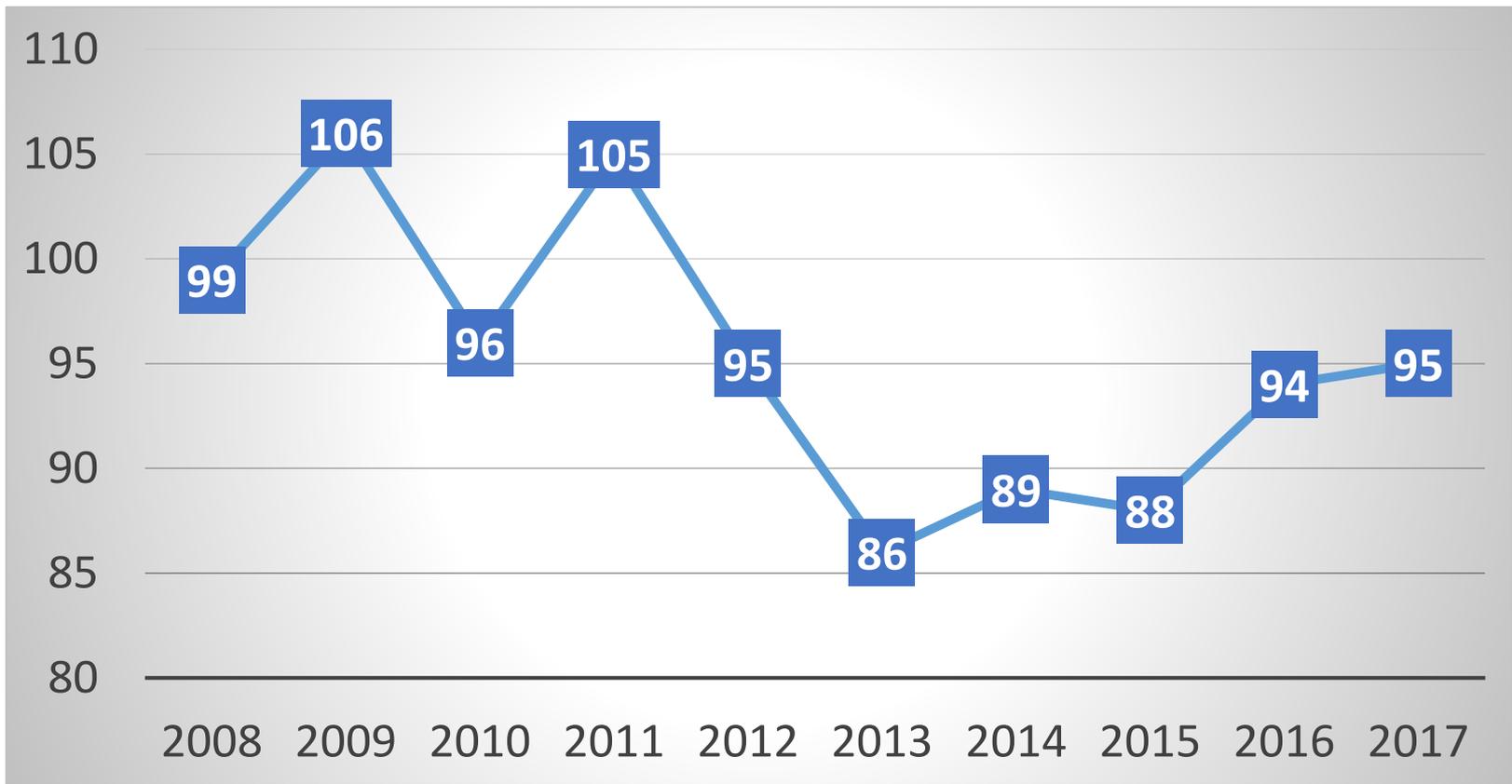


Rate of Serious Injuries Per 100 million Vehicle Miles Traveled





Number of Non-Motorized Fatalities & Non-Motorized Serious Injuries





Proposed Safety Targets

	CY 2016 Baseline	RIDOT CY 2018 Target
Number of fatalities	55	53
Rate of fatalities per 100 million VMT	0.71	0.68
Number of serious injuries	424	373
Rate of serious injuries per 100 million VMT	5.43	4.84
Number of non-motorized fatalities and non-motorized serious injuries	90	86





Next Steps



Targets - May 2018

- Percent of Person-Miles Traveled on the Interstate NHS that are reliable
- Percent of Person-Miles Traveled on the Non-Interstate NHS that are Reliable
- Truck Travel Time Reliability Index (TTTR)

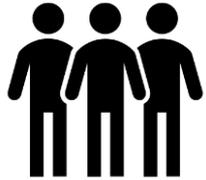




Development of a TSM&O Performance Metrics and Measures for Transportation System-User Operational Performance/Reliability

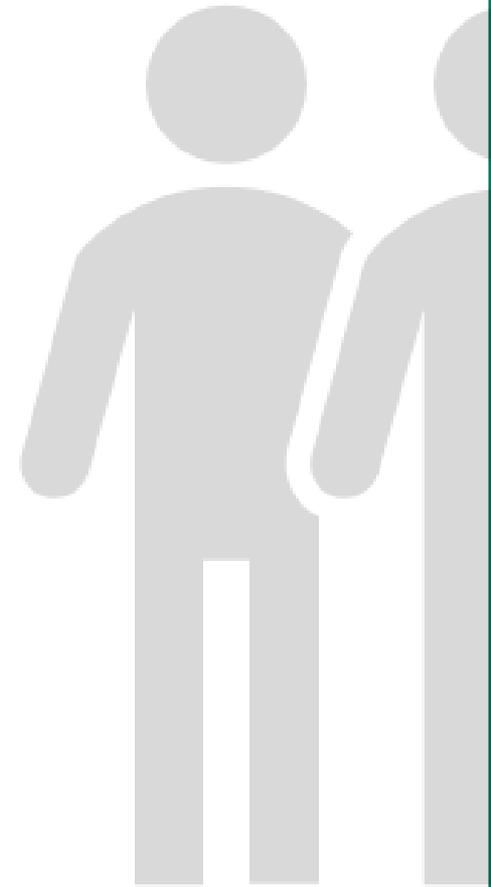
Freight Management	Commercial Vehicle Operations	Emergency Management
Traffic Detection & Surveillance	Freeway Management	Traffic Control
Automated Enforcement	Corridor Management	Arterial Management
Operations for Highway, Rail, Transit, Bicycle, & Pedestrian		
Active Transportation & Demand Management	Work Zone Management	
Traveler Information Services	Congestion Pricing	Parking Management





Performance Based Planning

MPO Staffing Needs





Questions / Comments