Make Your Mark



A Local Safety Peer Exchange

Daniel LiSanti, Manager NJDOT Bureau of Safety, Bicycle and Pedestrian Programs Keith Skilton, FHWA NJ Division Highway Safety Improvement Program

Welcome

AGENDA

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	Agenda
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- Housekeeping
- Expectations

8:00-8:15AM	Registration
8:15-9:00AM	Introductions
9:00-9:10AM	Welcoming Remarks Mary D. Ameen, NJTPA Executive Director
9:10-9:40AM	NJ's Safety Performance Targets: Why It Matters Daniel LiSanti and Keith Skilton
9:40-10:40AM	Safety Voyager Overview and Monmouth County Demonstration Chris Zajac and Vince Cardone
10:40-10:55AM	Break
10:55-11:25AM	Understanding Substantive vs. Nominal Approaches to Design John McFadden
10:25-11:45AM	Breakout Sessions
11:45AM-12:30PM	Lunch
12:30-1:00PM	Somerset County's Approach to Systemic Safety Improvements
	Tricia Bates Smith
1:00-1:30 PM	Princeton's Approach to Traffic Calming Deanna Stockton
1:00-1:30 PM 1:30-2:00 PM	Princeton's Approach to Traffic Calming
	Princeton's Approach to Traffic Calming Deanna Stockton FHWA's 2017 Update of the Proven Safety Countermeasures
1:30-2:00 PM	Princeton's Approach to Traffic Calming Deanna Stockton FHWA's 2017 Update of the Proven Safety Countermeasures Karen Scurry

Ground Rules



Participate



Please Stay on Task



Parking Lot



Be on Time



Limit sidebar conversations



Silence Cell Phones

Introductions

- Name
- Organization
- Position
- ► Role with Respect to Local Safety Program

Welcome

Mary D. Ameen
Executive Director
NJTPA

Today's Take-Aways.....

- ► NJ's Zero Death Vision & Safety Performance Targets
- ► Pedestrian & Intersection Focus State
- NJ Design Manual Compliance Maximum Safety Benefit
- ► Partnering WE CAN MAKE A POSITIVE DIFFERENCE FOR SAFETY!

Safety Target Setting

	Five Performance Measures							
√	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							



DEPARTMENT OF TRANSPORTATION P.O. Box 600

Trenton, New Jersey 08625-0600

CHRIS CHRISTIE Governor

RICHARD T. HAMMER

KIM GUADAGNO Lt. Governor

May 3, 2017

Robert Clark, Division Administrator Federal Highway Administration, New Jersey Division 840 Bear Tavern Road, Suite 202 West Trenton, NJ 08628

Dear Mr. Clark:

I am pleased to provide New Jersey's 2018 Safety Performance Targets required to be reported for the Highway Safety Improvement Program. The New Jersey Department of Transportation (NJDOT) intends to include these targets in New Jersey's Annual Safety Report this year. These targets were established after careful consideration of previous trends, recently built projects and the current socioeconomic

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PERFORMANCE MEASURE	TARGET 2014-2018 5 YEAR ROLLING AVERAGE	- BASELINE 2012-2016 5 YEAR ROLLING AVERAGE					
NUMBER OF FATALITIES	586.0	571.0					
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Intersection & Pedestrian Focus State



HSIP Purpose & Components

► Rail Highway Grade Crossing Program set-aside

Highway Safety Improvement Program

Achieve significant reduction in fatalities & serious injuries on ALL PUBLIC ROADS.

Highway Safety Improvement Program

- Strategic Highway Safety Plan
- ▶ Data Driven All Public Roads
- Safety Target SettingPerformance Measures
- Annual Safety Reporting

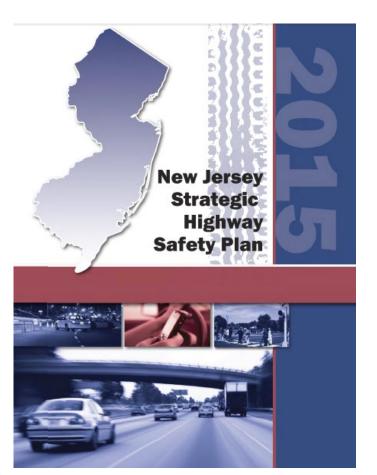
Achieve significant reduction in fatalities & serious injuries on ALL PUBLIC ROADS.



New Jersey Highway Safety Improvement Program 2015 Annual Report

Prepared by: N.

NJ's SHSP - PLAN



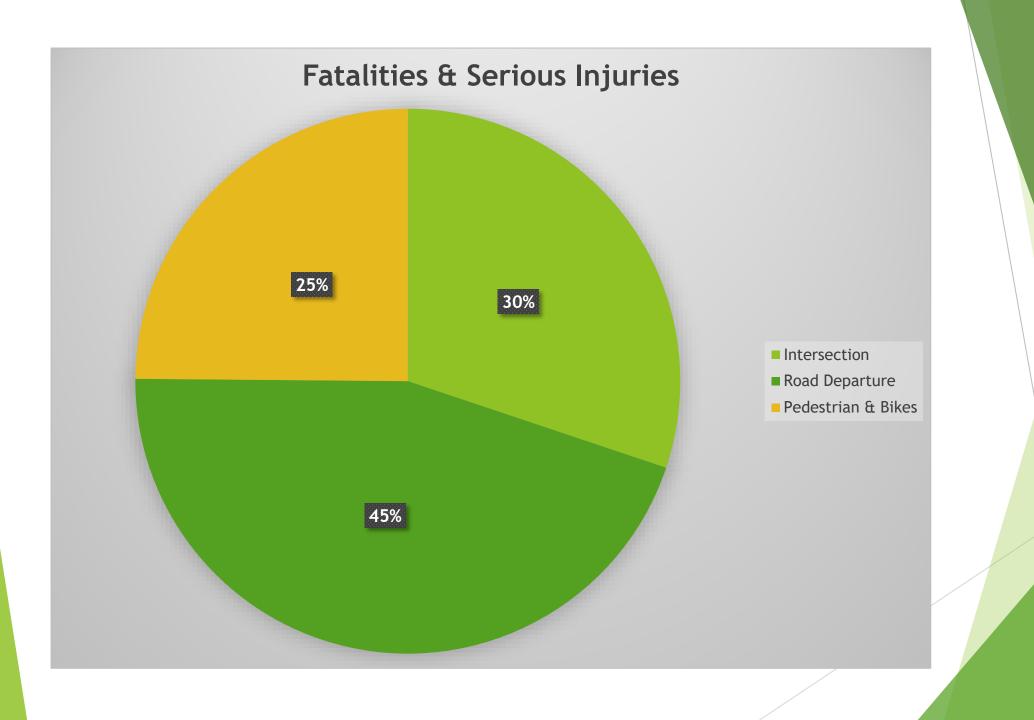
- Updating every 5 years
- ► Statewide Plan all 4 E's
- Signed by Governor or Governor's Representative
- Overall Goal for NJ
- ► HSIP project eligibility dependent upon identified element in SHSP

"Vision without action is a dream, Action without vision is a nightmare."

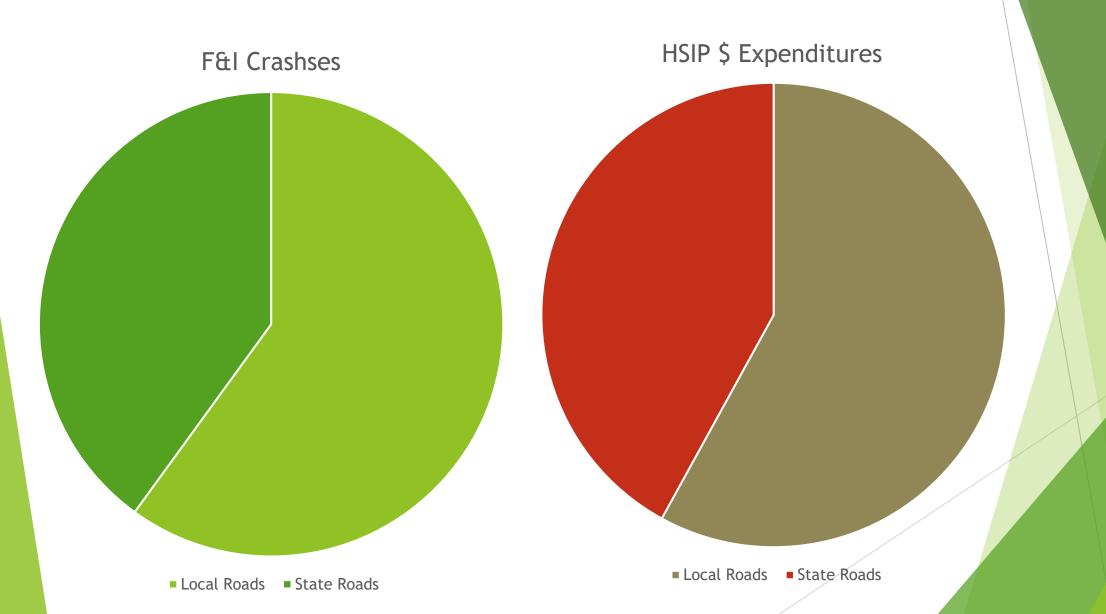
TABLE 3-1
Distribution of Roadway Miles and Fatalities and Serious Injuries By Jurisdiction, Facility Type, and Crash Type

	State Road System				Local Roa	d System				
			State H	lighway						
	Interstate	Total	Urban	Rural	Unknown	County	Municipal	Other	Statewide	
Roadway Length		State: 2,757 miles (7%)				Local: 35,820				
Miles	_	_	_	_	_	6,826	28,994	1,719	719 40,296	
% Total Miles	_	_	_			17% 72%		4%	100%	
Total Fatalities and Serious Injuries		State:	3,265 (33	3%)		Local: 5,7	35 (57%)			
Number	413	2,852	2,284	282	286	3,385	2,350	1,037	10,037	
% Total Fatalities and Serious Injuries	4%	28%	23%	3%	3%	34%	23%	23% 10% 100%		
Lane Departure		State:	1,515 (33	3%)		Local: 2,5	69 (56%)			
Number	272	1,243	936	184	123	1,658	911	512	4,596	
% Total Fatalities and Serious Injuries	6%	27%	20%	4%	3%	36%	20%	11%	100%	
Intersections		State:	1,002 (33	3%)		Local: 2,0	28 (66%)			
Number	10	992	831	78	83	1,215	813	50	3,080	
% Total Fatalities and Serious Injuries	0%	32%	27%	3%	3%	39%	26%	2%	100%	
Pedestrians/Bicycles		State	: 709 (289	%)		Local: 1,5	65 (62%)			
Number	44	665	590	15	60	815	750	266	8 2,540	
% Total Fatalities and Serious Injuries	2%	26%	23%	1%	2%	32%	30%	10%	100%	

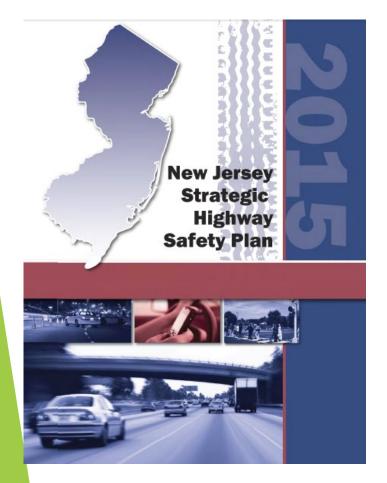
NJ's Data



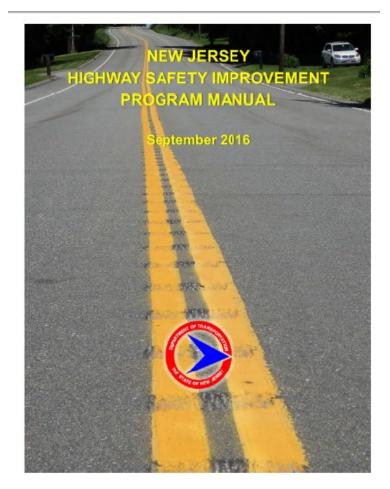
HSIP Performance: Local Versus State Roads

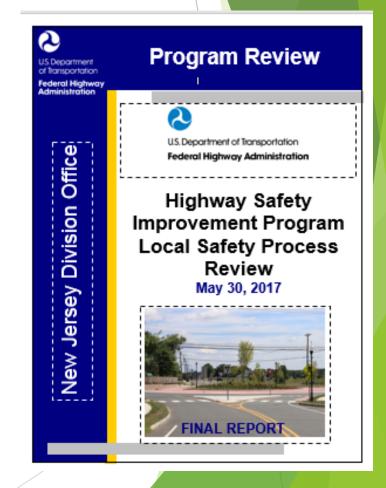


NJ HSIP Manual NJ LSP Assessment Findings Observations



Plan





Process Evaluation

Data Driven

- Network Screening
 - Severity
 - ► Types of Crashes
- Safety Voyager
- Project Approaches
 - ► Hot Spot
 - **►** Systemic



Substantive Vs. Nominal Safety

Standards Approach yields updated traffic signal Versus...

Intersection List

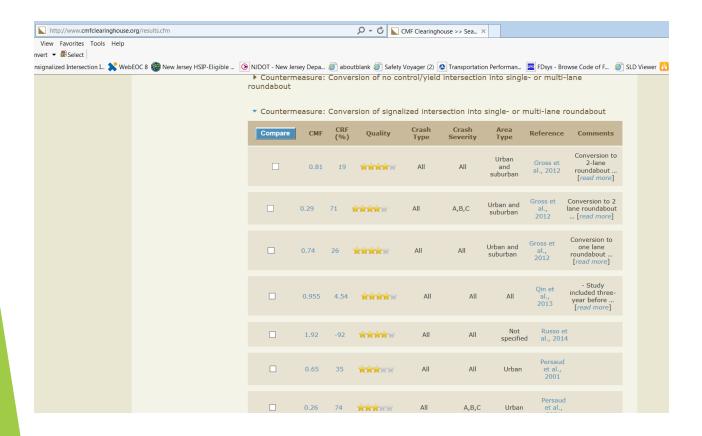
12/5/2017

NJDOT BUREAU OF SAFETY PROGRAMS

TOP 174 HIGH PRIORITY INTERSECTION CRASH LOCATIONS BY TOTAL SEVERITY FOR 2006-2008

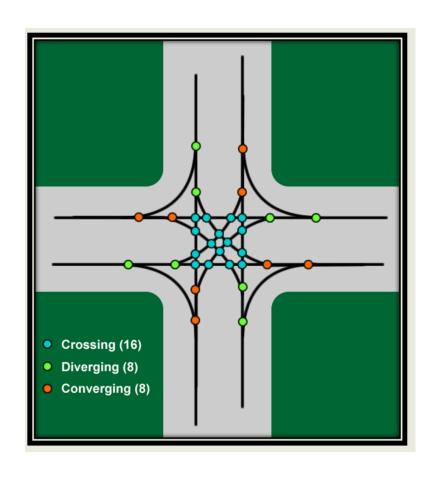
ID#	RANK	SRI	LOCATION	MP	CROSS STREET	Status	со	MU	FREQ	TOTAL SEVERITY	NO. FATAL	NO. INCAP.	NO. MOD.		NO. PDO
1	1	00000028	NJ 28	2.25	RT 202 (Somerville Circle) (See also #162)	С	18	06	140	159	0	0	1	21	118
2	2	00000001	US 1	45.44	CR 624 (North Ave.)	B,C	20	04	98	142	0	1	10	26	61
3	3	00000030	US 30	13.55	CR 686 (Clementon-Gibbsboro Rd.)	В	04	11	72	118	0	1	8	27	36
4	4	16000602	CR 602 (Allwood Rd.)	1.29	CR 622 (Bloomfield Ave.) (Circle)	В	16	02	95	111	0	0	2	13	81
5	5	20000638	CR 638 (Valley Rd.)	0	NJ 124	В	20	19	80	106	0	0	1	24	55
6	6	020000561_	CR I (Essex St.)	3.46	NJ 17	С	02	31	84	103	0	0	1	17	66
7	7	00000030	US 30	9.71	CR 544 (Evesham Rd.)	B,C	04	23	68	102	0	0	5	24	39
8	8	00000030	US 30	46.45	CR 575 (Pomona Rd.)	С	01	11	52	99	0	1	10	24	17
9	9	20000626	CR 626 (W. Chestnut St.)	0	US 22	С	20	19	70	98	0	0	1	26	43
10	10	00000034	NJ 33	35.85	RT 34 (Wall Circle)	С	13	52	85	97	0	0	2	8	75
11	11	00000035	NJ 35	29.39	RT 36	B,C	13	11	53	96	0	0	5	18	30
12	12	00000082	NJ 82	0.78	CR 637 (Liberty Ave.)	В	20	19	63	87	0	0	4	16	43
13	13	00000001	US 1	11.27	CR 571 (Wash.Rd.) (Penns Neck Circle)	B,C	11	13	68	86	0	0	4	10	54
14	14	00000046	US 46	60.24	RT 3	C?	16	02	62	84	0	1	4	11	46
15	15	00000001	US 1	40.74	CR 615 (Stiles Ave.)	В	20	09	64	83	0	0	4	11	49
16	16	00000555	CR 555 (Tuckahoe Rd.)	33.4	CR 689 (Cross Keys Bypass)		08	18	42	78	0	0	9	18	15
17	17	00000001	US 1	45.14	FAIRMOUNT AVE	С	20	04	53	75	0	2	1	14	36
18	18	01000684	CR 684 (Spruce Ave.)	2.59	WEST JERSEY AVENUE		01	08	41	72	1	1	5	14	20
19	T19	00000010	NJ 10	18.74	CR 609 (Eisenhower Pkwy.) (Circle)	С	07	10	56	71	0	0	1	13	42
20	T19	18000655	CR 655 (Park Ave.)	0.13	BONNIE BURN ROAD	С	18	21	59	71	0	0	1	10	48
21	21	00000038	NJ 38	3.86	CR 616 (Church-Coles-Cooper Rd.)	В	04	09	46	70	0	3	2	11	30
22	22	20000613	CR 613 (Central-Brant Ave.)	4.46	GARDEN STATE PARKWAY		20	02	51	69	0	1	0	15	35
23	T23	20121299	CLINTON AVE	0.46	THIRD ST		20	12	45	68	0	0	2	19	24
24	T23	00000001	US 1	39.25	CR 608 (E.Milton-Turner-Paterson St.)		20	13	50	68	0	0	2	14	34
25	T23	00000001	US 1	42.65	CR 616 (Park Ave.)	С	20	09	48	68	0	1	1	15	31
26	T23	_We000000	US 9W	0	KELBY STREET	В	02	19	63	68	0	0	1	3	59
27	T23	00000031	NJ 31	6.09	CR 546 (Wash.Xing-Penn.Rd.)(Circle)	С	11	06	58	68	0	0	2	5	52
28	28	00000027	NJ 27	32.65	CR 616 (Park Ave.)	В	20	09	41	67	0	0	5	16	20

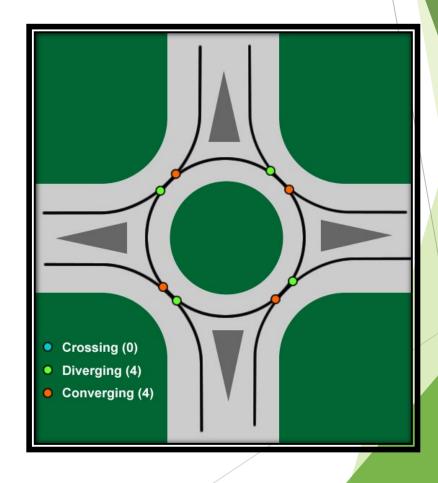
Maximizing Safety Benefits with Infrastructure Investments



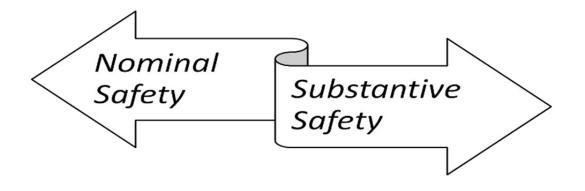
TRAFFIC SIGNAL TO TWO LANE ROUNDABOUT 71%
REDUCTION INJURY CRASHES

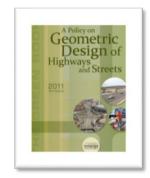
The difference between conflicts





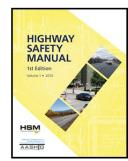
Nominal Versus Substantive





Compliance with standards, warrants, guidelines

Predicted crashes frequency & severity



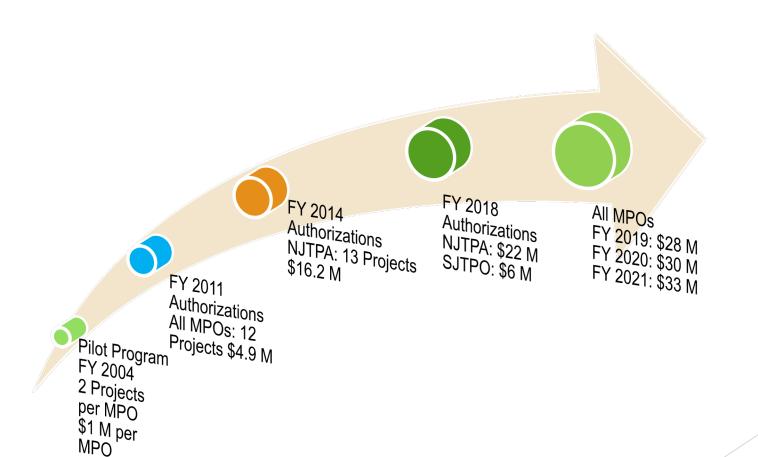
Balancing Project Needs



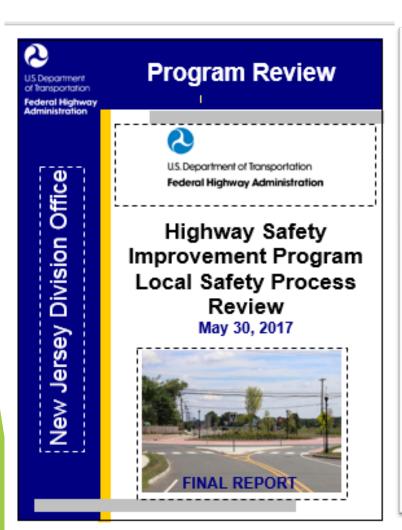
Continuing Evolution of Safety Programs

- Changes in Methodologies and Procedures
 - ▶ 2016 HSIP Program Manual
 - Using the HSM as a tool (predictive methods)
- Modifications to Program/Project Development
 - ► Full scope projects can now be developed enabling substantive assessments in lieu of low cost countermeasures within confines of existing ROW and without modifying existing geometry
 - Systemic Programs/Projects

LSP Process HSIP Funding on Local Roads



Evaluation of Effectiveness Toward Achieving Safety Performance Targets





New Jersey Highway Safety Improvement Program 2015 Annual Report

Prepared by: NJ



DEPARTMENT OF TRANSPORTATION P.O. Box 600 Trenton, New Jersey 08625-0600

RICHARD T. HAMMER

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How many of N.J.'s 270K accidents did your town have last year?

Updated Jan 23, 2017; Posted Jan 23, 2017



Gallery: N.J's deadliest counties in 2016











Questions

