# Data-First Safety Solutions

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### Data Essentials for HSIP funding

- FHWA Highway Safety Improvement Program (HSIP) is a data-driven program
- Fatal and Suspected Serious Injury (F&SSI) crashes are prioritized by weighting crashes to identify eligible intersections and corridors
- Use of HSIP funding requires:
  - Network Screening Lists
  - Crash details

#### **Network Screening Lists**

- Produced by NJDOT & used by MPOs/subregions
- County and local Roadways only
- Use FHWA approved methodology
- Ranks intersections and corridors
- Basis for eligibility for Local Safety and High Risk Rural Roads Program applications and Road Safety Audit location selection

						Major F	Route			Minor Route
Rank (ePDO)	County Rank (ePDO)	МРО	County	Municipality	SRI	Milepost	Route Name	SRI	Milepost	Route Name
1	1	NJTPA	ESSEX	NEWARK CITY	00000510	26.88	ROUTE 510	07051798	2.23	Parkway Dr West
2	1	NJTPA	PASSAIC	PATERSON CITY	16081533	0.00	BROADWAY	16081447	0.24	Broadway
3	1	NJTPA	BERGEN	MONTVALE BORO	02000094	0.37	BERGEN COUNTY 94	02361124	0.40	Mercedes Drive
4	1	NJTPA	OCEAN	JACKSON TWP	00000537	41.84	ROUTE 537	13321026	0.00	Burnt Tavern Road
5	2	NJTPA	ESSEX	EAST ORANGE CITY	00000508	7.95	ROUTE 508	07191831	1.46	South Harrison Street
6	1	NJTPA	MIDDLESEX	EDISON TWP	00000529	1.06	ROUTE 529	12051199	0.15	Greenwood Avenue
7	2	NJTPA	OCEAN	LAKEWOOD TWP	00000528	32.13	ROUTE 528	15000623	7.92	New Hampshire Road
8	3	NJTPA	ESSEX	NEWARK CITY	07141865	0.49	BROAD ST	07141121	0.00	Brunswick Street
9	4	NJTPA	ESSEX	BLOOMFIELD TWP	00000509	25.50	ROUTE 509	16081383	0.00	Clinton Street
10	2	NJTPA	MIDDLESEX	EAST BRUNSWICK TWP	12000617	5.25	MIDDLESEX COUNTY 617	12121706	0.79	Washington Avenue
11	3	NJTPA	OCEAN	LAKEWOOD TWP	15000623	6.71	OCEAN COUNTY 623	15141347	0.81	Oak Street
12	5	NJTPA	ESSEX	NEWARK CITY	07000603	3.30	ESSEX COUNTY 603	07091883	1.48	Court Street
13	4	NJTPA	OCEAN	TOMS RIVER TWP	00000571	5.21	ROUTE 571	15000623	1.38	Old Freehold Road
14	6	NJTPA	ESSEX	GLEN RIDGE BORO	07000653	2.07	ESSEX COUNTY 653	07000654	0.23	Bay Avenue
15	5	NJTPA	OCEAN	LAKEWOOD TWP	00000528	32.43	ROUTE 528	15141436	0.73	Oberlin Av South
16	2	NJTPA	BERGEN	ENGLEWOOD CITY	00000501	43.40	ROUTE 501	02151216	0.08	East Linden Avenue
17	7	NJTPA	ESSEX	NEWARK CITY	07000667	1.24	ESSEX COUNTY 667	07141605	0.19	Delavan Avenue
18	3	NJTPA	BERGEN	PALISADES PARK BORO	02191162	0.70	BRINKENHOFF AVE	00000001	63.29	Broad Avenue
19	8	NJTPA	ESSEX	IRVINGTON TWP	07000603	1.47	ESSEX COUNTY 603	07091006	0.00	Maple Avenue

#### **Crash Data**

-	arrier Median 02 C	Curbed Median	03 Grass Me	edian 04 Pai	inted Median	05 None
	orary Traffic Control Zo		_			_
01 No		one 03 Maintena	ance Zone	04 Utility Zone	05 Incident 2	Zone
	Condition					
7 02 Da	aylight 03 D	ousk Park (street lights off)		street lights) eet lights on, continuo		k (street lights on, spot)
	System	Aur (Specification)	OO Dark (see	set lights on, continuo	Jusj	
01 Int	terstate 03 State/In	terstate Authority	05 County	07 Mu		09 Private Property
02 St	ate Highway 04 State Pa	ark or Institution	06 Co Auth,	Park or Inst 08 Mu	n Auth, Park o	or Inst 10 US Govt Property
	Character - Horizontal					
01 Str	raight 02 C	urved Left	03 Curved R	light		
Road	Character - Grade					
04 Le	vel 05 D	lown Hill	06 Up Hill	07 Hill	Crest	08 Sag (Bottom)
-						
	Surface Type oncrete 02 Blacktop	03 Gravel 04 St	eel Grid 05	Dirt		
700	micreie Uz Biacktop	U3 Gravei U4 St	eei Gna US	DIR		
	Surface Condition					
01 Dr	y 02 Wet 03 Snowy	04 lcy 05 Slust	n 06 Water	(Standing/moving)	07 Sand	08 Oil/Fuel 09 Mud, Dirt, G
	onmental Condition			_		
01 Ck		05 Overcast			ezing Rain	09 Blowing Sand/Dirt
02 R8	in 04 Fog/Smog/Smo	oke 06 Sleet/Ha	11	US BIO	wing Snow	10 Severe Crosswind
— Total	Number of Motor Vehicle	es Involved in Crast	1			
$\neg$	77.7					
Crash		Other MV as First E				ow as First Event
1	01 Same Direction (Re	ar End)	07 Left Turn/	'U Turn 10	Overturned (	15 Non-Fixed Object
1						
	02 Same Direction (Sid	le Swipe)	08 Backing	11	Fixed Object	
	03 Right Angle		08 Backing 09 Encroach	11 ment 12	Fixed Object Animal	
	03 Right Angle 04 Opposite Direction (	(Head On, Angular)		ment 11 13	Fixed Object Animal Pedestrian	
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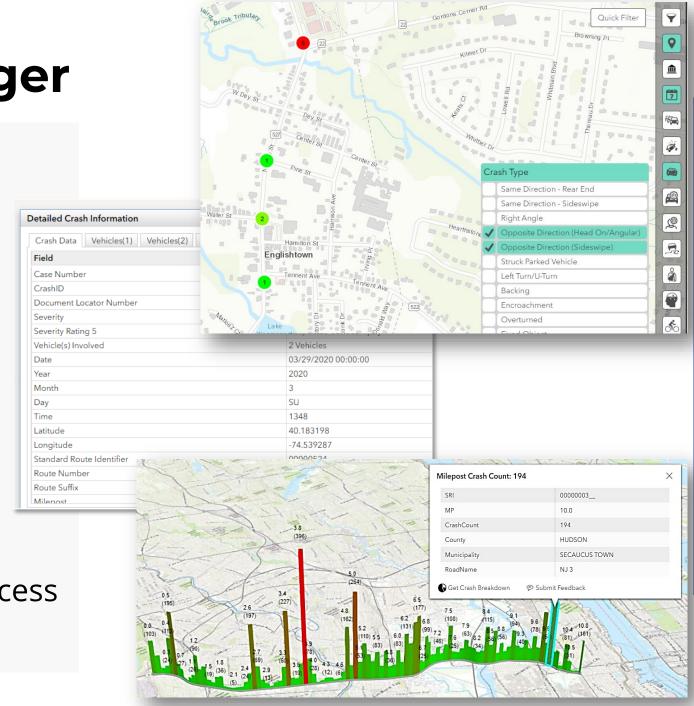
#### New Jersey Police Crash Investigation Report Form (NJTR-1)

**New Jersey Crash Records Database** 

Safety Voyager - Numetric - SHSP Data Viewer

# **NJDOT Safety Voyager**

- Visualization of crash data and crash analysis
- Filter by user-defined queries
- Export to excel function
- Detailed crash information
- Update frequency: as new information becomes available
- Only for government agencies
- Link: <u>www.njvoyager.org/App/</u>
- Email: <a href="mailto:admin@njvoyager.org">admin@njvoyager.org</a> for access

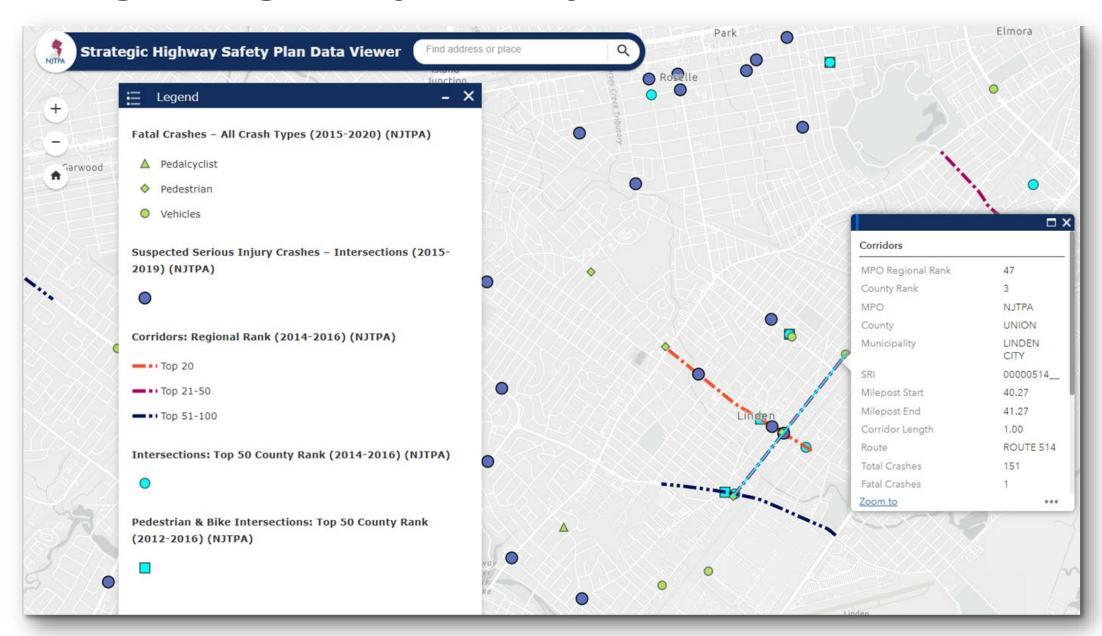


## Strategic Highway Safety Plan Data Viewer

- Created by NJTPA Using ArcGIS Online Map Tool
- Link: www.njtpa.org
- Data Layers Include:
  - Fatal and Suspected Serious Injury Crashes
  - Network Screening Lists
  - HSIP Funded Projects
  - Road Safety Audits
  - EPA EJ Screening Tool Data

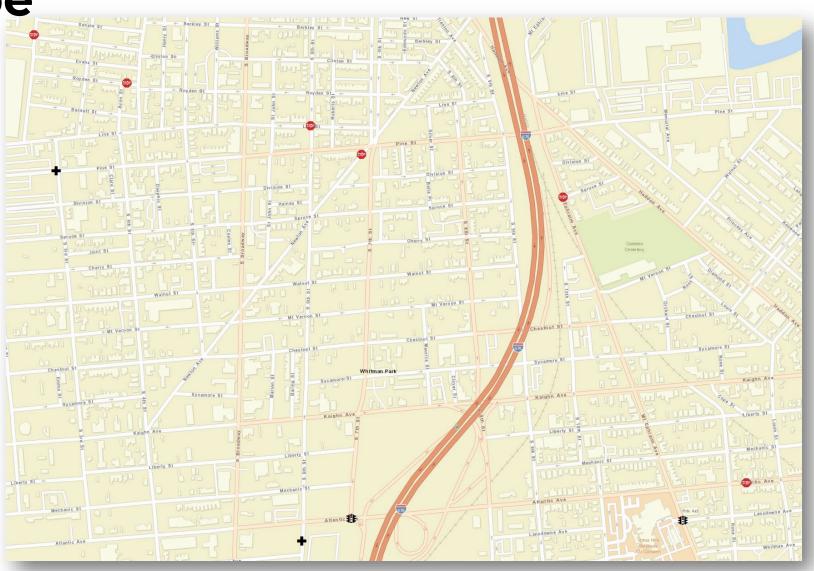


# Strategic Highway Safety Plan Data Viewer



New: Fatal and Suspected Serious Injury Crashes at Intersections by Control

**Type** 



#### Legend

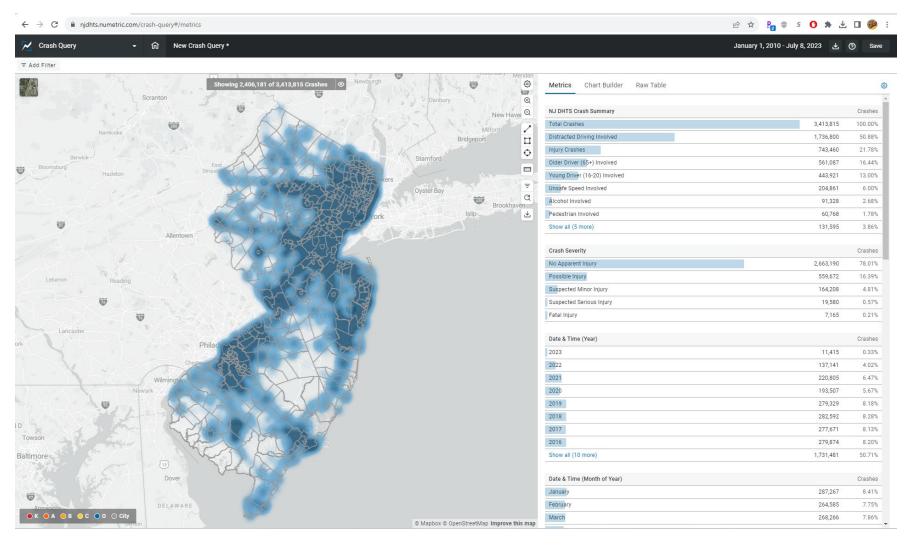
- Traffic Signal-County
- Flasher-County
- Stop Control-County
- ▼ Yield Control-County
- No Control-County

### **Numetric Crash Data Analysis**

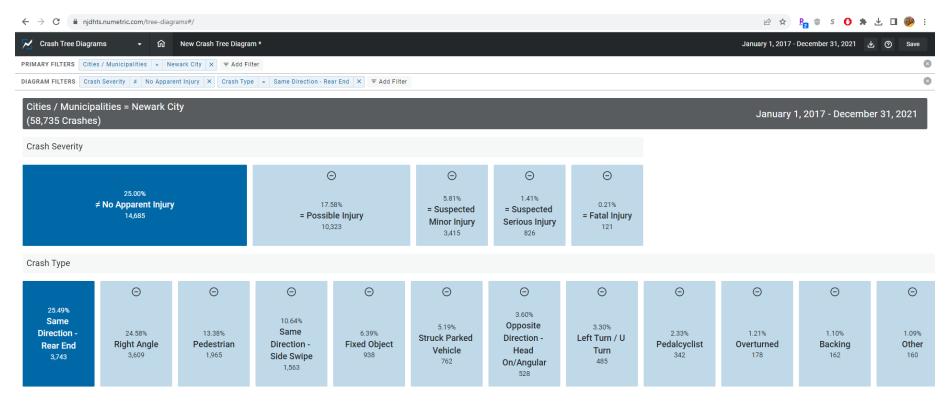
#### **Data-First Safety Solutions**

Joseph Weiss, New Jersey Division of Highway Traffic Safety

#### **Crash Query Application**



### **Crash Tree Diagram**

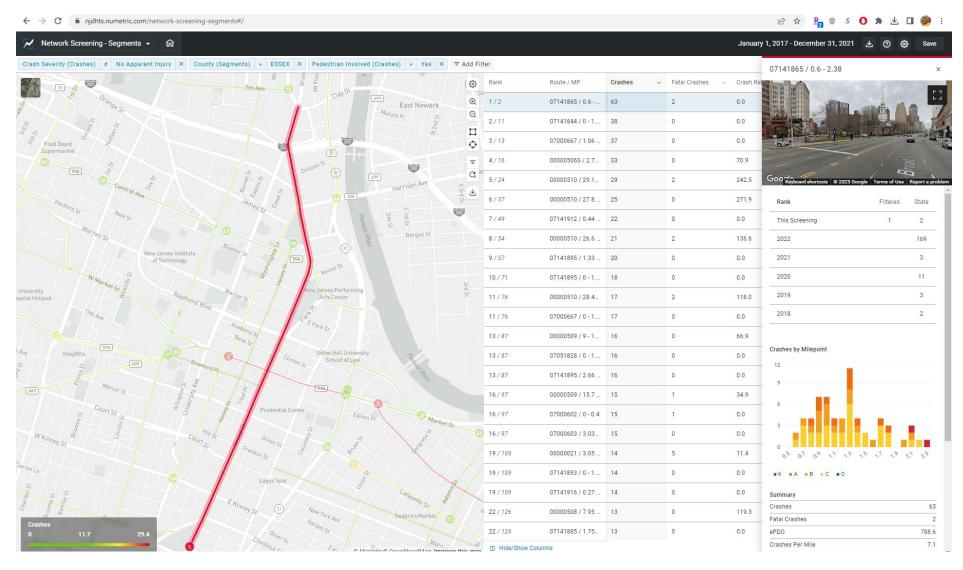


100% (A)

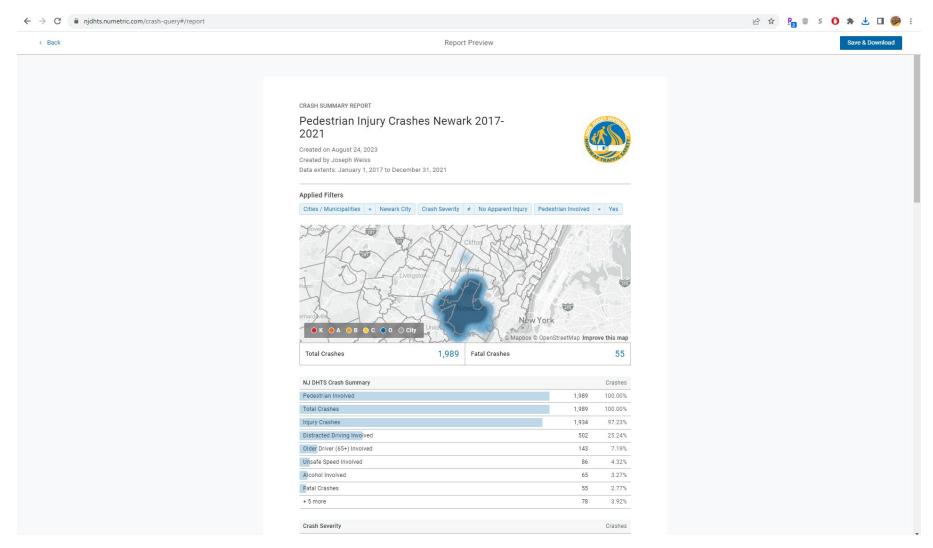
Select one of the following categories or select a custom filter above.

Environmental Condition

# **Network Screening Application**



#### **Custom Reporting**



#### **NJ Center for Integrated Data**



# Thank you

Defining the Vision. Shaping the Future.



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Joseph Weiss Joseph.Weiss@njoag.go v