### **NY Traffic Collision Assessment**

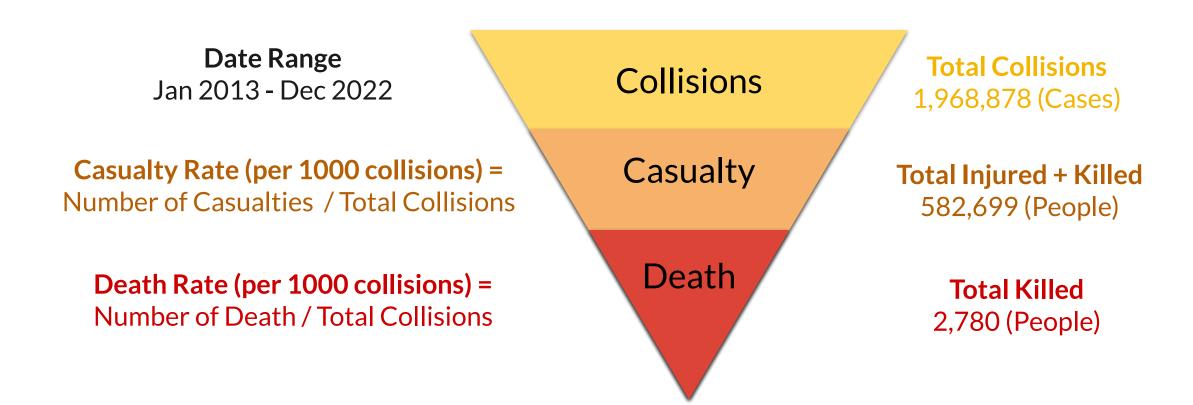
The Matrix (Group 12) - Insights That Save Lives



### Agenda

01 04 **Definitions & KPIs Vehicle Type Analysis** 02 05 **Key Findings Location Analysis Contributing Factors** 03 06 Recommendations **Analysis** 

#### **Definitions & KPIs**

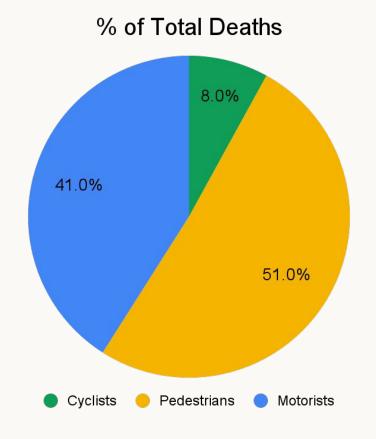


## **Key Findings**

#### WHERE?

Borough	% Collisions	% Deaths
Bronx	14.91	17.08
Brooklyn	30.38	29.98
Manhattan	21.40	16.91
Queens	28.46	30.35
Staten Island	4.85	5.58

#### WHO?

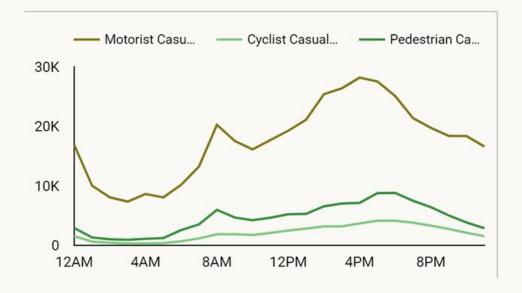


#### WHEN?

- Hours of Day
  - o 5PM
  - o 4PM
  - o 6PM
- Days of the Week
  - Friday
  - Saturday
  - Thursday
- Months
  - **July**
  - August
  - September

## **Time Analysis**





# **Contributing Factors**

PEDESTRIAN	CYCLIST	MOTORIST
Driver Inattention/Distraction	Driver Inattention/Distraction	Unsafe Speed
Failure to yield Right-of-Way	Cyclist Error	Traffic Control Disregard
Pedestrian Error	Failure to yield Right-of-Way	Driver Inattention/Distraction
Unsafe Speed	Traffic Control Disregard	Alcohol Involvement

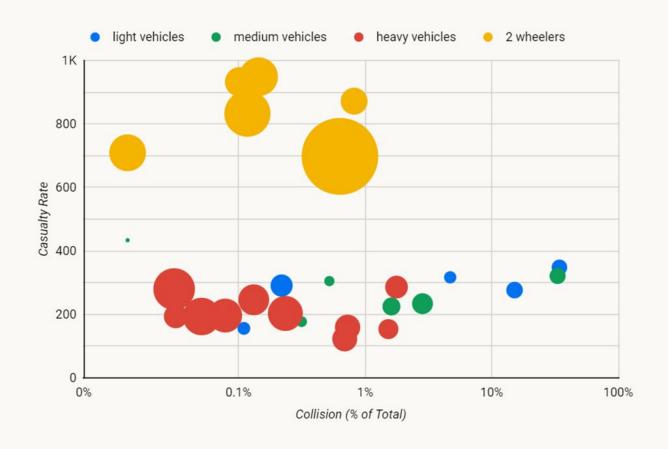






# **Vehicle Types**

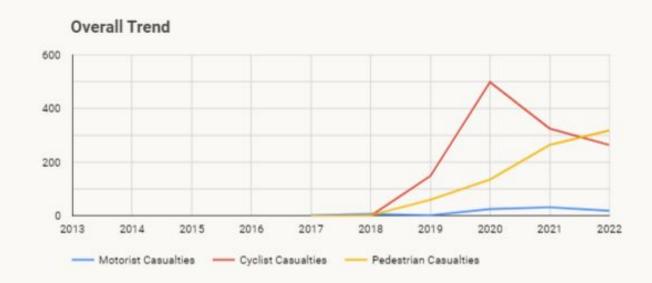
HIGH FREQUENCY	HIGH SEVERITY
Sedan	Motorcycle
SUV	Motorscooter
Passenger vehicle	Concrete mixer
Taxi	e-bike
Pick-up	Tanker

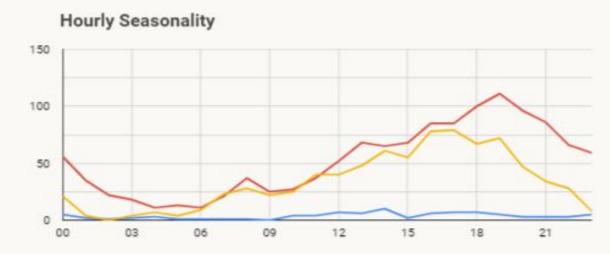


### E-vehicles / Other 2-wheelers

	Vehicle type	Total Casualties ▼	Total Death
1.	bike	8,881	33
2.	motorcycle	5,496	208
3.	e-bike	1,702	12
4.	motorscooter	1,218	14
5.	e-scooter	1,186	5
6.	scooter	117	1

	Vehicle Type	Collision (% of Total)	Casualty Rate +	Death Rate
1.	e-bike	0.14%	911.13	9.31
2.	e-scooter	0.1%	884.66	2.2
3.	bike	0.81%	853.45	6.85
4.	motorscooter	0.12%	849.56	6.45
5.	motorcycle	0.62%	819.17	40.5
6.	scooter	0.01%	684.61	6.45
7.	bus	1.75%	574.49	4.41

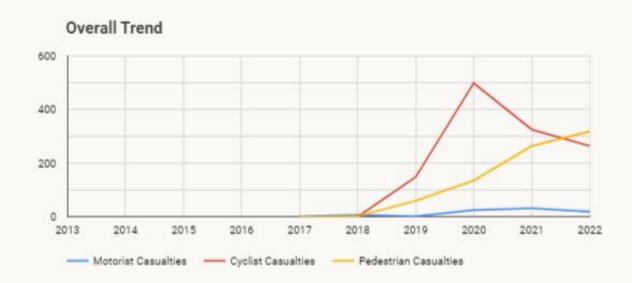


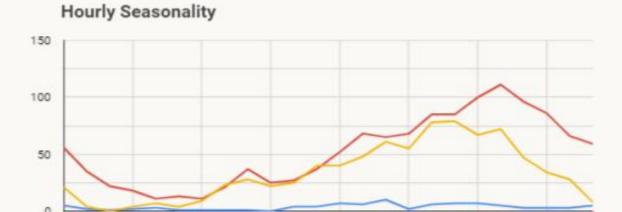


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## **Location Analysis - Pedestrian Danger Zone**



- Top 10 Streets with the highest Pedestrian Casualty Rate
- Strategy
  - Residential Area No MV Zone
  - Business District Sidewalk Barrier

	Contributing Factor
1.	Driver Inattention/Distraction
2.	Failure to Yield Right-of-Way
3.	Backing Unsafely
4.	Pedestrian/Bicyclist/Other Pedestri
5.	View Obstructed/Limited
6.	Passenger Distraction
7.	Traffic Control Disregarded
8.	Unsafe Speed

## Recommendations

Issue	Recommendation
Unsafe Speed	Speed Cameras and Sensors
Driver Inattention/Distraction	Traffic Control Officials
Traffic Control Disregard	Stricter Laws for ignoring Traffic Control
Pedestrian/Cyclist Error/Driver Inattention	Street Safety Rule Education
Failure to yield Right-of-Way	More/Longer Protected Turns
Alcohol Involvement	Traffic Stops on specific days/times
High Severity (death rate) of 2-Wheeler accidents	Stricter laws for 2-wheelers
	More education requirements for 2-wheeler license

# Thank you!