

Regulatory Affairs of Road Accidents in Indian Cities (2020)

Key Indicators for Behavioral, Infrastructure & Environmental Factors

Source:
*data.gov.in &
kaggle.com*

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Number of Accidents

352,416

Total Persons Killed

81,145

No of Grievously Injured

122,659

No of Minor Injured

179,783

Fatality Rate(%)

23.03%

Injury Rate(%)

85.82%

Severity Score

953,485

Severity Rate(%)

2.71

National Accident Patterns by Cause and Severity

Understanding how different causes contribute to accidents, injuries, and fatalities

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Cause Category

- Impacting Vehicle/Object
- Junction
- Road Features

- Traffic Control
- Traffic Violation
- Weather

Cause Type Group

- Behavioral
- Environmental
- Infrastructure

Data Validity

- ☐ Data Error
- ☒ Empty Row
- ☒ No Impact
- ☒ Valid

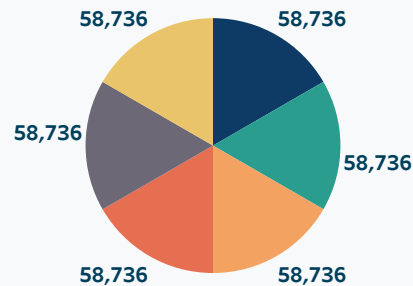
Cause Category

- ☒ Impacting Vehicle/Objec..
- ☒ Junction
- ☒ Road Features
- ☒ Traffic Control

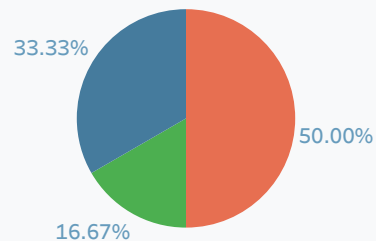
Cause Type Group

- ☒ Behavioral
- ☒ Environmental
- ☒ Infrastructure

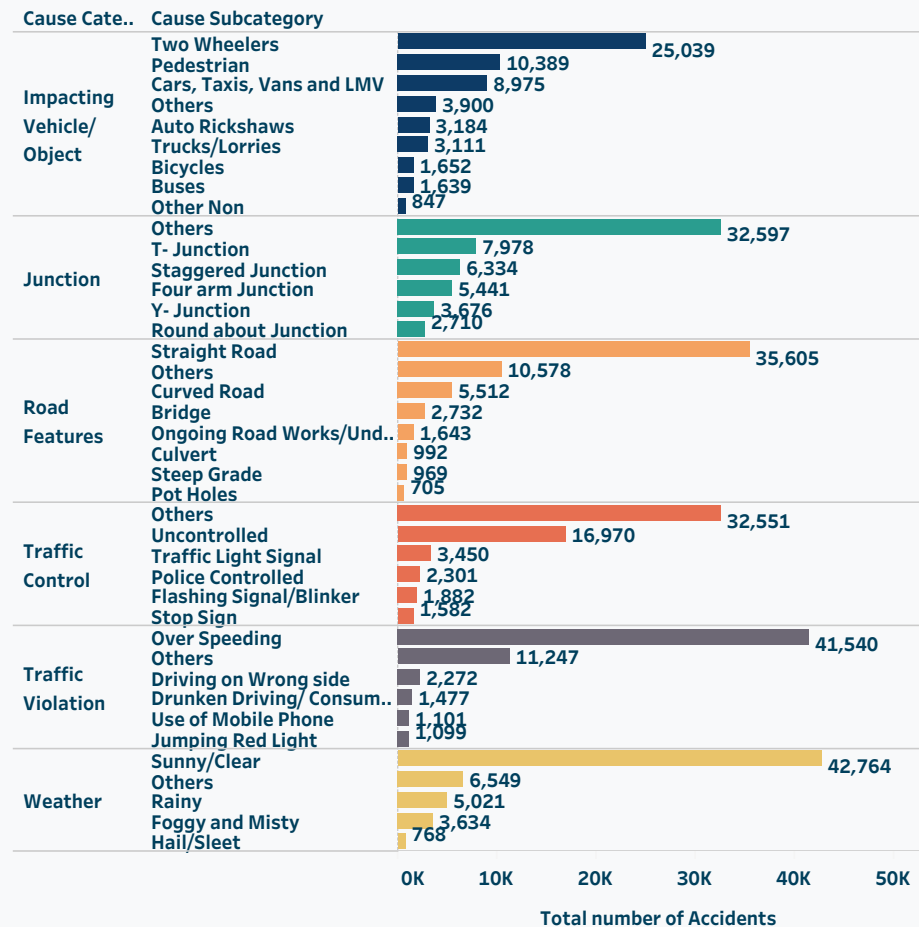
Number of Accidents by Cause Category



Number Accidents by Cause Type



Number of Accidents by Cause SubCategory



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Cause Type Group

- Behavioral
- Environmental
- Infrastructure

City Category

- Industrial
- Metro
- Tier-2 City
- Tourist

Measure Names

- Weighted Fatalities
- Weighted Grievous Injuries
- Weighted Minor Injuries

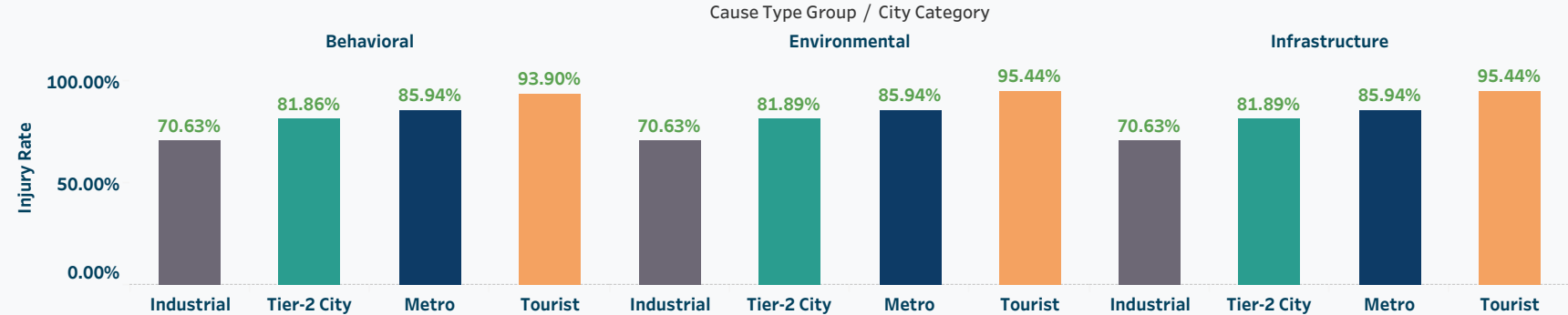
City Category

- ☒ Industrial
- ☒ Metro
- ☒ Tier-2 City
- ☒ Tourist

Cause Type Group

- ☒ Behavioral
- ☒ Environmental
- ☒ Infrastructure

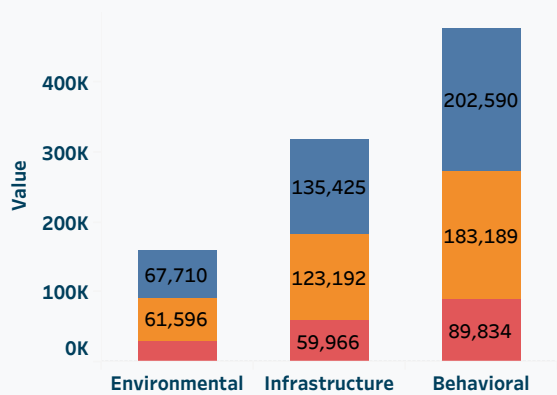
Injury Rate by Cause Group across City Categories



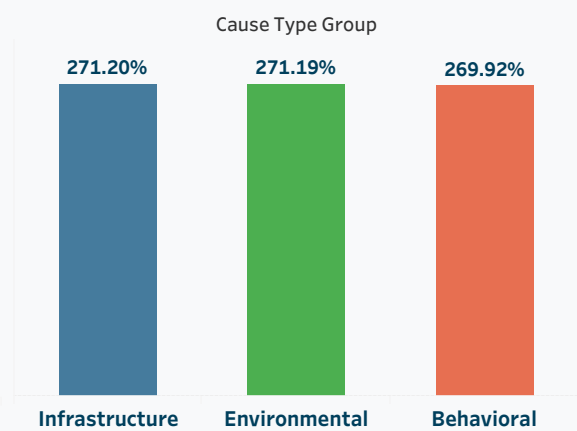
Fatality Rate by Cause Group



Breakdown of Severity Score by Injury Type



Severity Rate by Cause Group



City-Level Accident Patterns & Risk Hotspots

Exploring cause-wise accident distribution and severity across Indian cities

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Cause Category

- Impacting Vehic..
- Junction
- Road Features
- Traffic Control
- Traffic Violation
- Weather

Severity Score(RAW)



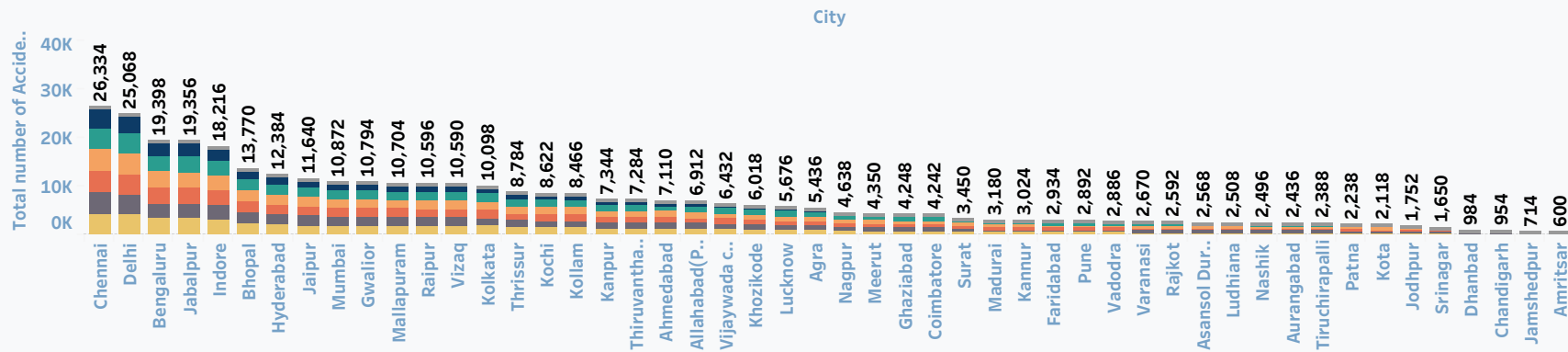
City

- Agra
- Ahmedabad
- Allahabad(Prayagraj)
- Amritsar

Cause Subcategory

- Auto Rickshaws
- Bicycles
- Bridge
- Buses

Accident Type Distribution by CitySheet Name



Heatmap — City vs. Cause Subcategory

	City												
Cause Subc..	Agra	Ahmedabad	Allahabad(P..	Amritsar	Asansol Dur..	Aurangabad	Bengaluru	Bhopal	Chandigarh	Chennai	Coimbatore	Delhi	Dh
Others	490.86%	255.34%	299.28%	447.06%	524.10%	344.03%	296.90%	148.90%	272.73%	244.84%	263.00%	240.23%	
Sunny/Clear	490.86%	290.13%	290.82%	511.67%	481.82%	347.89%	289.12%	140.82%	265.13%	234.36%	247.88%	232.20%	
Over Speed..	426.87%	290.08%	299.22%	456.36%	511.23%	337.33%	292.95%	137.57%	283.67%	236.67%	248.26%	281.27%	
Straight Ro..	454.93%	286.13%	298.08%	492.73%	509.76%	345.29%	288.82%	160.30%	277.36%	267.35%	256.56%	245.55%	
Two Wheel..	377.20%	296.44%	320.78%	448.08%	510.87%	398.19%	342.78%	163.32%	291.43%	226.93%	262.47%	226.87%	
Uncontrolled	340.27%	329.95%	283.19%	61.82%	547.06%	396.72%	303.23%	141.21%	270.59%	216.93%	214.93%	249.63%	
Pedestrian	583.33%	330.65%	466.18%	580.00%	469.15%	370.21%	302.95%	174.81%	261.76%	185.94%	225.24%	242.63%	
T- Junction	396.72%	333.33%	317.09%	480.00%	510.00%	350.00%	269.53%	140.81%	394.74%	226.56%	201.53%	241.27%	
Cars, Taxis, ..	488.71%	124.10%	338.35%	287.50%	595.56%	140.00%	124.22%	354.41%	165.38%	266.72%	223.81%	246.98%	
Staggered J..	309.89%	321.30%	289.11%	414.29%			263.49%	120.94%	320.00%	277.58%		250.54%	
Curved Road	436.84%	297.01%	291.60%	357.14%	580.77%	441.18%	295.88%	113.45%		230.46%	246.34%	246.48%	
Rainy	297.50%		211.48%		400.00%	266.67%	282.61%	174.24%	500.00%	229.79%	238.74%	202.40%	



Regulatory Affairs of Road Accidents — India 2020

Interactive Analysis & Insight

Source:
data.gov.in &
[kaggle.com](https://www.kaggle.com)

KPIs & Accident Patterns

National Accident Patterns by Cause and Severity

National Accident Patterns by Cause and Severity (Part- 2)

City-Level Accident Patterns & Risk Hotspots