

Road Accident Dashboard

Slide 1: Title Slide

- **Title:** Road Accident Dashboard
 - **Subtitle:** Analysis of Road Accidents for Q3 (2021-2022)
 - **Objective:** To understand accident trends, road types, and contributing factors.
-

Slide 2: Overview

- **Key Metric:**
 - **Total Accidents:** 8041
 - **Data focuses on Q3 (July, August, September).**
-

Slide 3: Monthly Accident Trends

- **Bar Chart: Count of Accidents by Month:**
 - **July:** 4000+ accidents (Highest)
 - **August:** 3000+ accidents
 - **September:** 1000+ accidents
 - **Insight:** Accidents decrease steadily over Q3. July records the highest incidents.
-

Slide 4: Road Type and Speed Limit Analysis

1. **Bar Chart: Speed Limit by Road Type:**
 - **Single Carriageway:** Most accidents occur here, with the highest speed limit.
 - **Other significant types:** Dual Carriageway, Roundabout.
 - **Insight:** Single carriageways present the highest risk; speed management strategies are critical.
2. **Pie Chart: Speed Limit by Vehicle Type:**
 - **Cars:** 77.07% of accidents, followed by Motorcycles (125cc) (5.25%).
 - **Lower contributions:** Vans, buses, taxis.

- **Insight: Cars dominate accident statistics, highlighting a need for targeted interventions.**
-

Slide 5: Junction Details

- **Bar Chart: Count of Accidents by Junction Details:**
 - **Not at Junction: 4000+ accidents (most common location).**
 - **T or Staggered Junctions: Significant contributor.**
 - **Crossroads: Smaller but notable risk factor.**
 - **Insight: Non-junction areas and T-junctions require improved visibility and signage.**
-

Slide 6: Surface Conditions

- **Road Surface Conditions:**
 - **Accidents occur on:**
 - **Dry Roads: Majority.**
 - **Wet or Damp Roads: Secondary contributor.**
 - **Rare conditions: Flooded, snowy, or frosty roads.**
 - **Insight: Dry and wet roads contribute significantly; driving behavior on these surfaces needs attention.**
-

Slide 7: Key Insights

- 1. High-Risk Period:**
 - **July is the peak month for accidents.**
- 2. Road Type:**
 - **Single carriageways have the highest accident count, likely due to higher speeds.**
- 3. Vehicle Type:**
 - **Cars are the primary contributors to road accidents.**
- 4. Junction Details:**
 - **Non-junction areas and T-junctions are critical accident zones.**
- 5. Surface Conditions:**

- Dry and wet surfaces account for the majority of accidents.
-

Slide 8: Recommendations

- 1. Safety Measures for Single Carriageways:**
 - Introduce stricter speed limits and enforcement.
 - Add warning systems and reflectors.
 - 2. Seasonal Awareness:**
 - Conduct campaigns in July focusing on safe driving.
 - 3. Vehicle-specific Interventions:**
 - Promote defensive driving for car users and motorcyclists.
 - 4. Junction Safety:**
 - Improve infrastructure and signage at T-junctions and non-junction areas.
 - 5. Surface-Specific Strategies:**
 - Ensure proper drainage to reduce wet or damp road risks.
-

Slide 9: Closing

- **Summary:**
 - This dashboard provides actionable insights into accident trends, road types, and contributing factors.