



# Road Accident Analysis Dashboard (2021–2022)

Data-Driven Insights for Safer Roads

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# Business Problem

- Analyze accident & casualty trends for 2021–2022
- Compare Current Year vs Previous Year
- Identify high-risk zones & severity levels
- Support data-driven decision making



# Key Stakeholders

- Police Force – Monitor hotspots
- Ministry – Infrastructure planning
- Emergency Services – Resource allocation
- Media – Public awareness
- Public – Road safety insights



# Dashboard Overview

## ROAD ACCIDENT ANALYSIS

Road\_Surface\_Conditions: All | Weather\_Conditions: All

Category	Value	Change
Total CY Casualties	195.7K	-11.9%
Total CY Accident	144.4K	-11.7%
CY Fatal Accident	1.5K	-35.6%
CY Serious Accident	18.8K	-14.5%
CY Slight Accident	124.1K	-10.8%

**Casualties by Vehicle Type**

Agricultural	399
Bike	15610
Bus	6573
Car	155804
Other	1446
Van	15905

**CY Casualties vs PY Casualties Monthly Trends**

**CY Casualties By Urban Rural**

**Casualties By Location**



## Primary KPIs

- Total Casualties: 195.7K ( $\downarrow$  11.9%)
- Total Accidents: 144.4K ( $\downarrow$  11.7%)
- Fatal Accidents: 1.5K ( $\downarrow$  35.6%)
- Serious Accidents: 18.8K ( $\downarrow$  14.5%)
- Slight Accidents: 124.1K ( $\downarrow$  10.8%)



# Casualties by Vehicle Type

- Car – Major contributor (~155K+)
- Bike – 15K+
- Van – 15K+
- Bus – 6K+
- Agricultural – Minimal



# Casualties by Road Type

- Single Carriageway – Highest Risk (145K)
- Dual Carriageway – 32K
- Roundabout – 13K
- Other roads – Minimal impact



# Urban vs Rural

- Urban – 61.95%
- Rural – 38.05%
- Higher density & congestion in urban areas

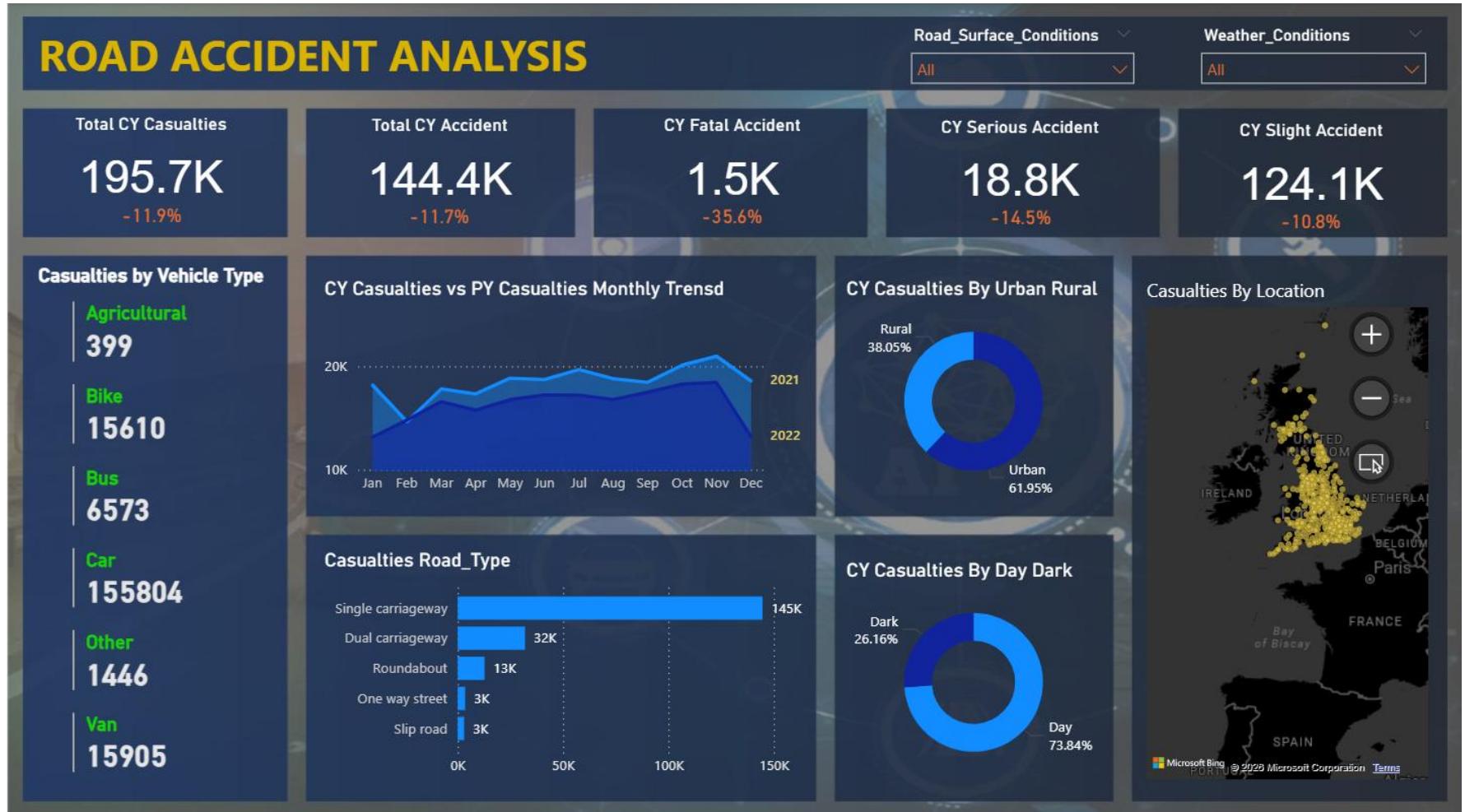


# Day vs 🌙 Night Analysis

- Day – 73.84%
- Night – 26.16%
- Heavy traffic during working hours



# Road Accident Analysis





## Key Insights & Recommendations

- Overall accidents reduced YoY
- Cars & Single Carriageways are major risk factors
- Urban areas need stronger enforcement
- Improve infrastructure & smart monitoring
- Launch public safety campaigns