

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





Primary KPIs

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

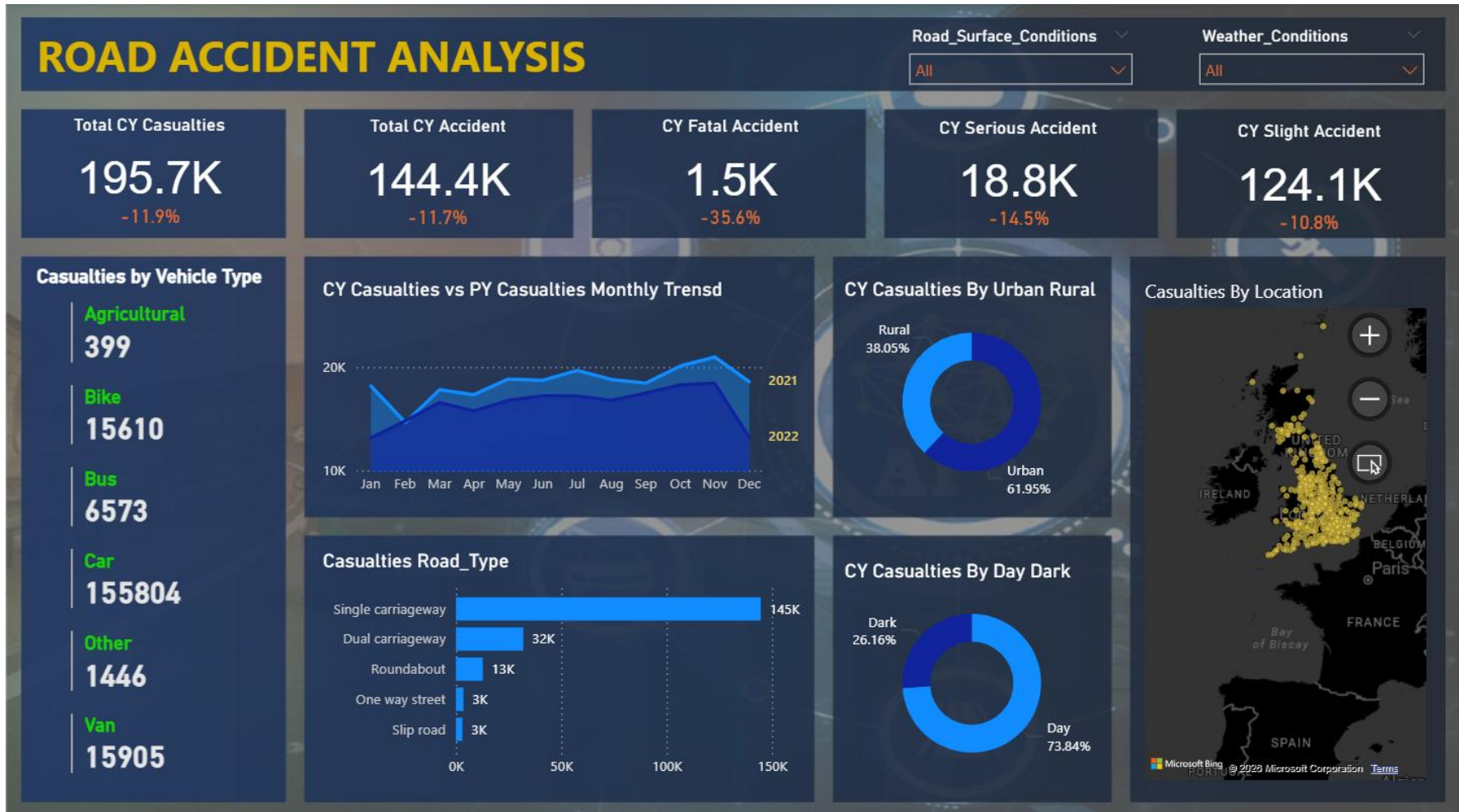


Night Analysis

- 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