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# Network Safety Analysis & Future of Collision Analysis









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- What/Why
- Trends
- Common Issues
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### What is the NSA

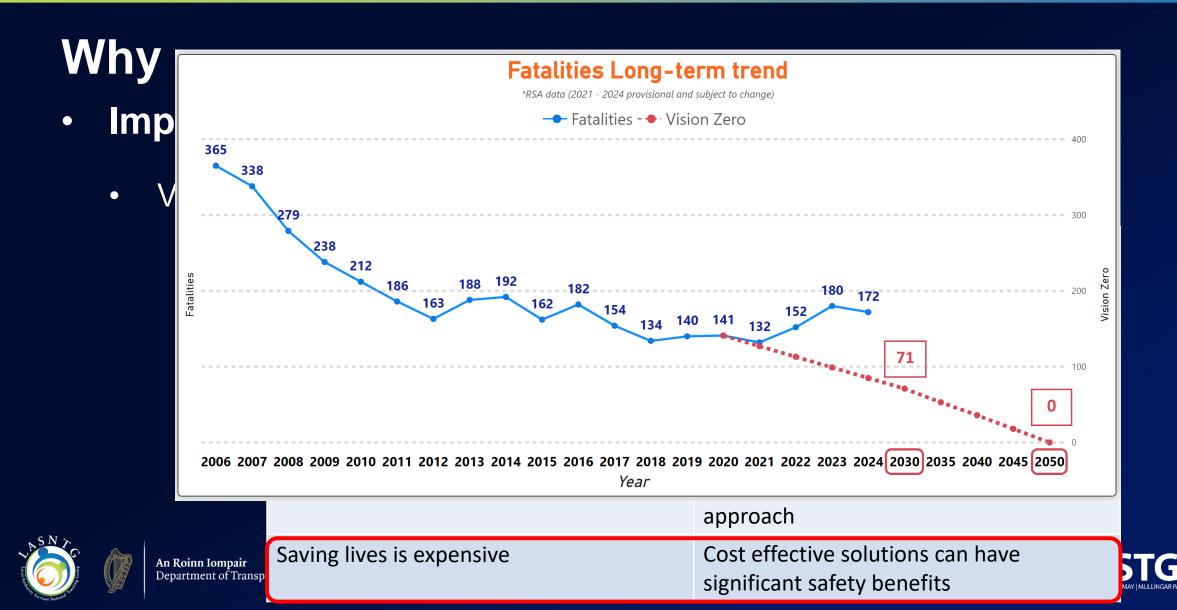
- Spatial analysis of the Regional and Local Road network to identify the worst performing sections in terms of safety – Locations of Interest (Loi)
- Determine at each Loi site
  - What happened desktop analysis
  - How did it happen desktop analysis and site visit
  - How do we stop it from happening again suitable engineering-based interventions











## Why

- Improve Road Safety
  - Vision Zero & Safe Systems
  - Road Safety Strategy
  - Provision of <u>unbiased</u>, factually based data to improve road safety
  - Support the DoT to target investment on the RLR network









# Trends







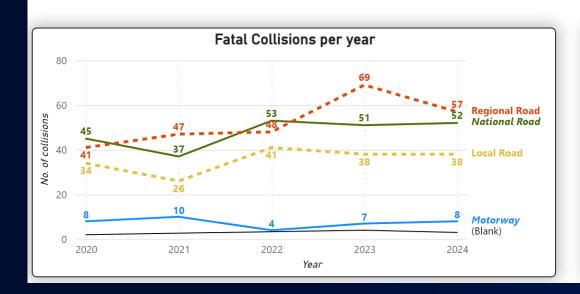


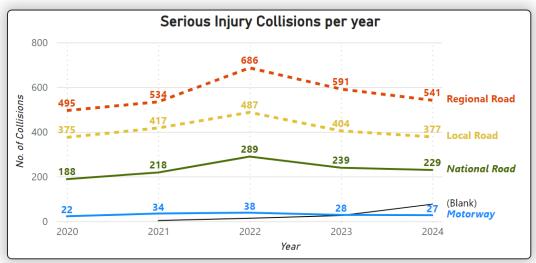


## **Trends**



\*provisional RSA data





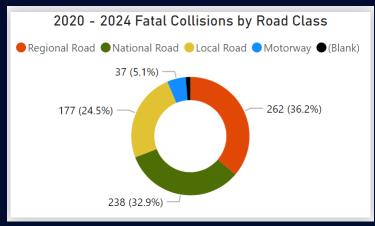


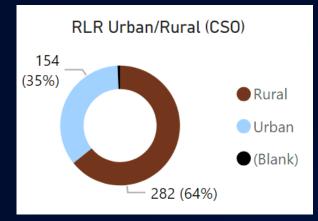




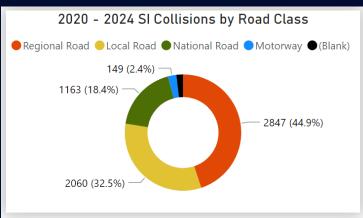


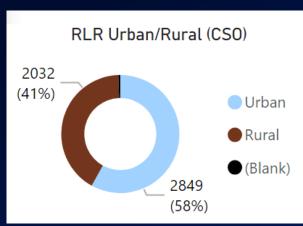
## Trends - Collisions by road classification



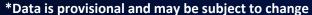


• 60% of fatal injury collisions occurred on the RLR network





• 78% of serious injury collisions occurred on RLR network



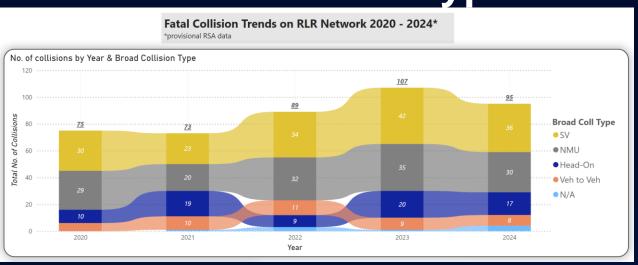


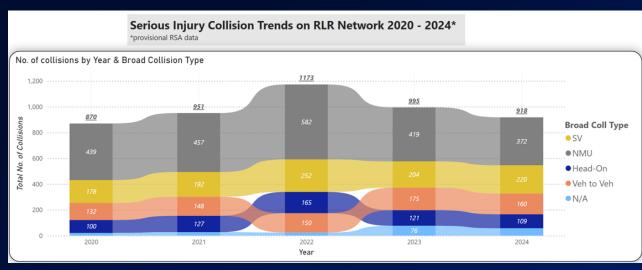






**Trends - Collision Types** 





SVO – 38% of fatal collisions and 21% of serious injury collisions

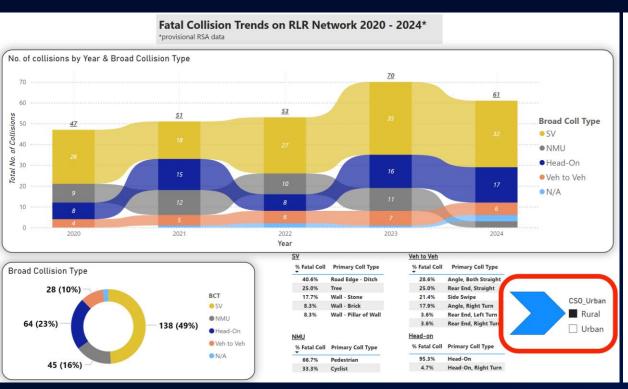
NMU – 33% of fatal collisions and 45% of serious injury collisions

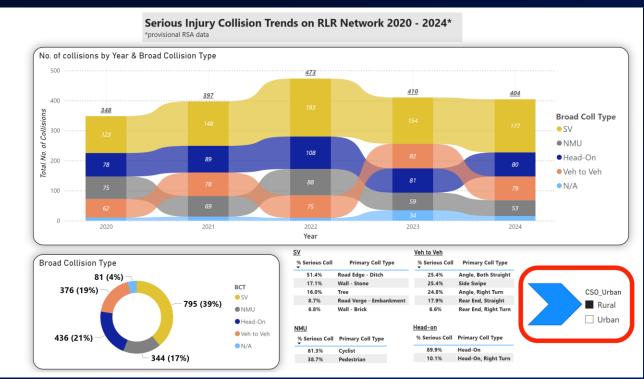






## Trends - Rural Roads





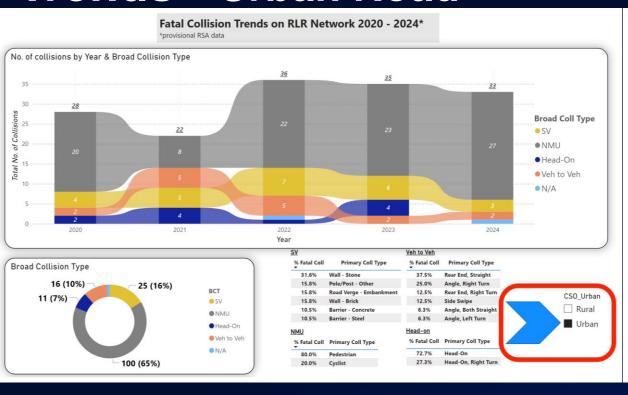


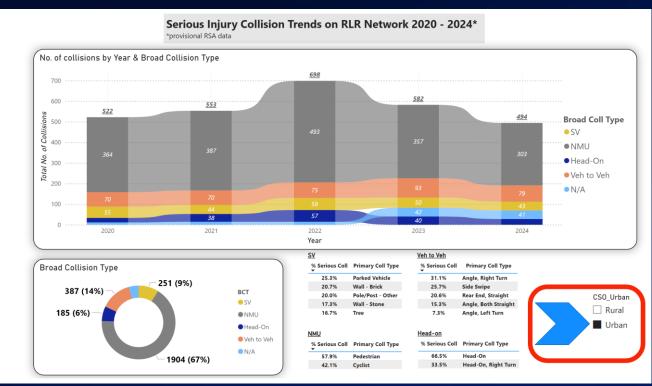






## **Trends - Urban Road**





















- Round 3 NSA 2 Phases
  - Phase I Reactive approach collision data used to identify Loi
  - 5 years of collision data (2020-2024)
    - Regional Road Network
      - Site visits at rural Loi and urban Loi under 5,000 population density
      - Report only for Regional Road urban Loi above 5,000 population density
    - Local Road Network
      - Site visit at rural Loi









- Phase II limited collision dataset no in-depth collision analysis
- NSA adapted Proactive approach Inspection style process









- Focus on
  - 5 injury collisions in 5 years
  - Locations with fatal and serious injury clusters
  - Collision types likely to result in fatal or serious injuries
  - Locations with NMU collision clusters
  - Injury cluster locations with supporting material damage
  - 218 Site Visits Will be issued Q3 2025









## Common Issues









#### **Common Engineering Related Issues**

Round 1 & 2 Loi











**Common Issues - Signage** 

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Visibility

Sight visi

• Proliferation of signage – information overload













## **Common Issues**



















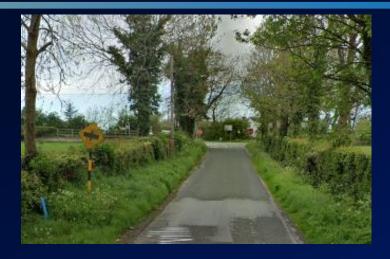


























## **Future Analysis**

- Regional Road Network Ranking AADT collision rates
- NSA Review review of Round 1a schemes that received funding Q1 2026
- Trend Analysis National & Local Authority Level
- Road Safety Standard details
- Provision of support to Local Authorities with safety funding & RSTWG









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## THANK YOU









Join the Q&A session at Slido.com and enter 3873601 or via the QR Code. Questions must include name and associated Local Authority to be considered by the panel.









