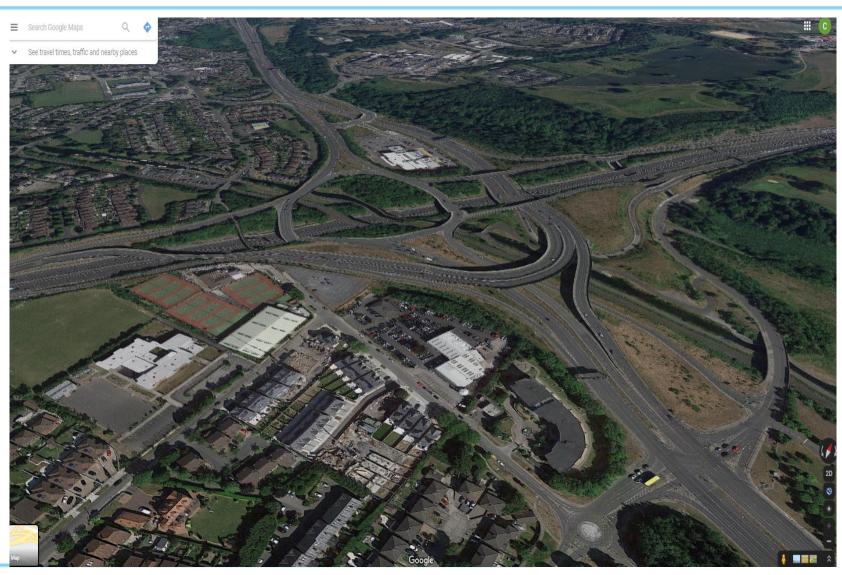
Network Management Signing & Delineation Programme

15th January 2021



Importance of Delineation and Signs



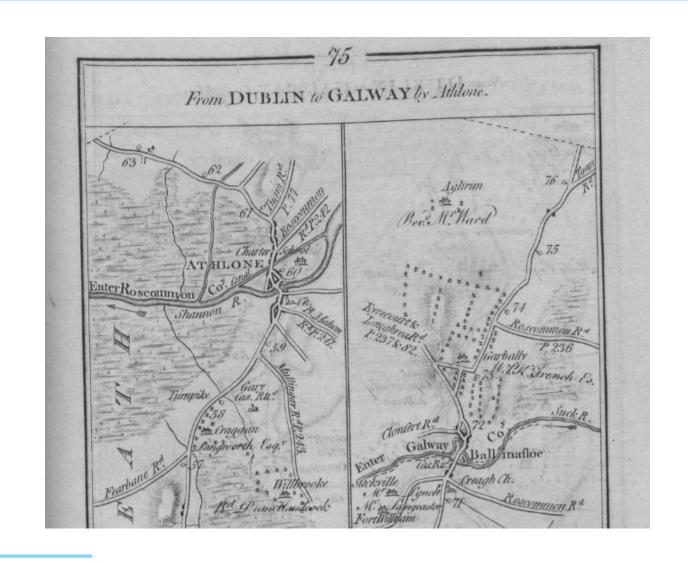
M50 Junction

- 140,000 vehicles
- intersecting 70,000
- Imagine it without lines and signs
- reduce fatalities by 60% on busy roads

History







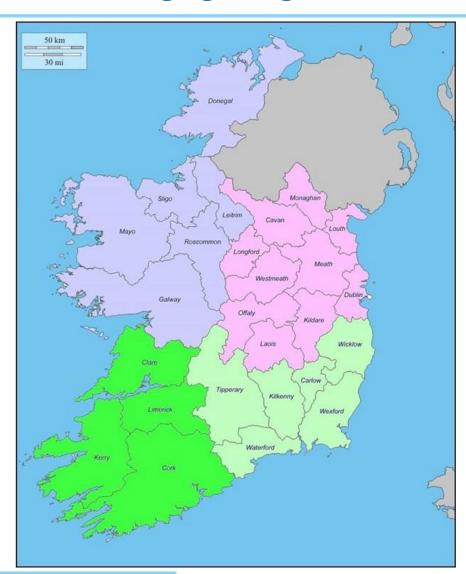
TII National Signage & Delineation Programmes

- Manage the Signing and Roadmarkings on the national road network
- Provide clear and consistent information to road users
- Approximately 100,000 Road Traffic Signs on the non MMaRC and PPP network
- Over 10 million metres of road lines
- Delineation incorporates road lines, road studs and other markings which are a subset of Road Traffic Signs and are legally considered to be horizontal signs
- Country divided into 4 Regions: SE, SW, NE and NW
- Teams in 4 NROs: Tramore, Kerry, Kildare and Donegal
- Collaboration with other bodies with signs requirements such as Fáilte Ireland (e.g. WAW, Hidden Heartlands), An Garda Síochána (e.g. speed camera signs), DoT and Local Authorities

Signs/Delineation Maintenance Regions and Managing Design Offices

North West Donegal NRDO

South West Kerry NRDO



North East Kildare NRDO

South East Tramore NRDO

Ongoing Work Activities

- Strategic planning and development of **multi-annual programmes** for Road Traffic Signs & Delineation
- Design of directional signs and roadmarkings to bring consistency and continuity across all national routes
- Preparation, procurement and execution of capital contracts for the provision of new and replacement signs (incl support structures) and roadmarkings
- Preparation, procurement and execution of **bespoke maintenance contracts** for routine maintenance of signs, roadmarkings and studs including replacement, repair, washing (of signs) and vegetation control
- Design and implementation of **asset management systems** which record, assess, maintain and report on the assets
- Operation of the TII Directional Signs Approvals Process for new Directional signs on national roads
- Development of **standards** and of design documents

Signs Maintenance Contracts

- Routine maintenance of road traffic signs on the national road network
 - Performance contracts based on KPI's
 - Lump sum; washing, cutting back of vegetation & minor repairs;
 - Management of Automated Fault Management System (AFMS), including a database of the assets;
 - Replacements / renewals as tasked;
 - > Defects can be notified via the TII Portal
 - Now include maintenance of Traffic Calming gateways
- Civil Works Framework also in place
 - Rationalisation of Traffic Calming installations (follow on from National Speed Limit Review)
 - Remove / Relocate / or Modernise (Passive Safety)

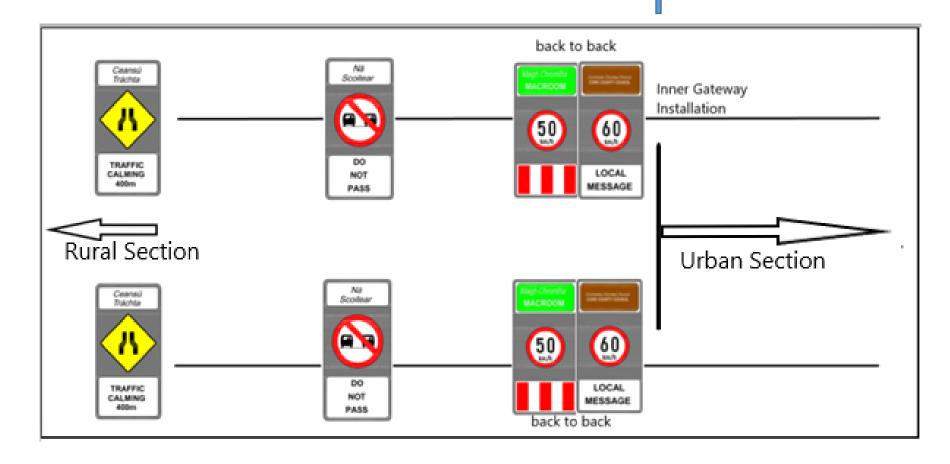




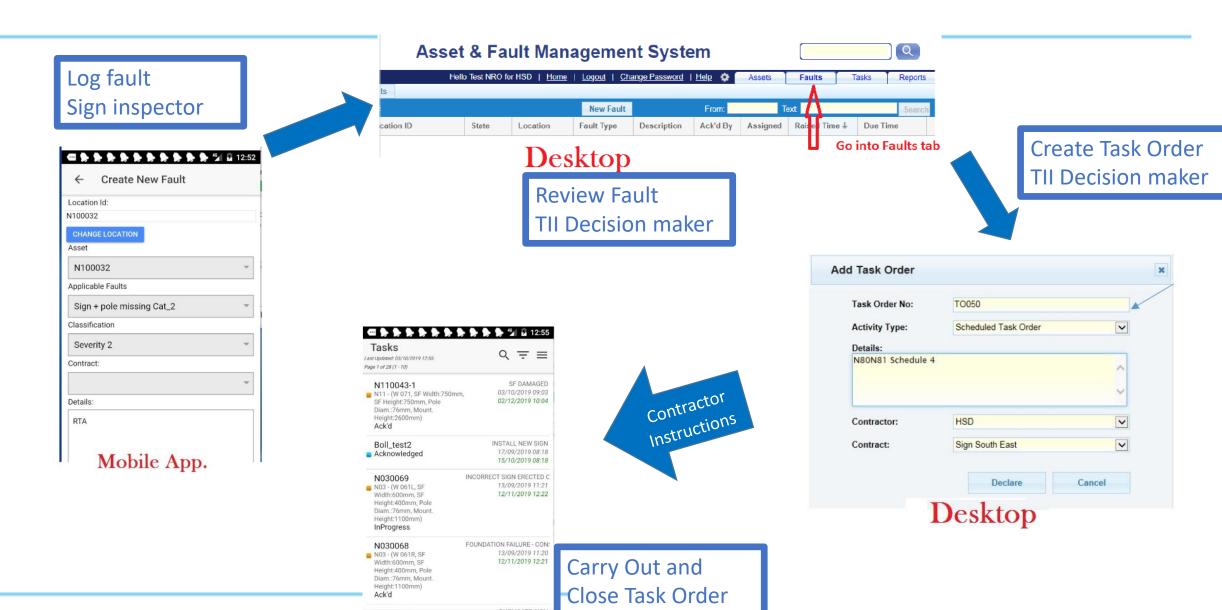
TII Maintained

LA Maintained





AFMS Lifecycle of a fixed sign fault



Contractor Crew

Records

Mobile App

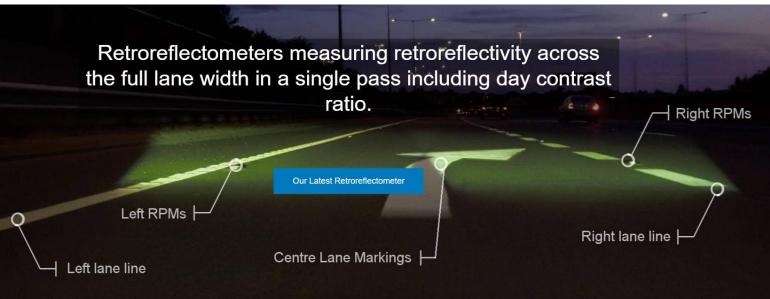
Delineation Contracts

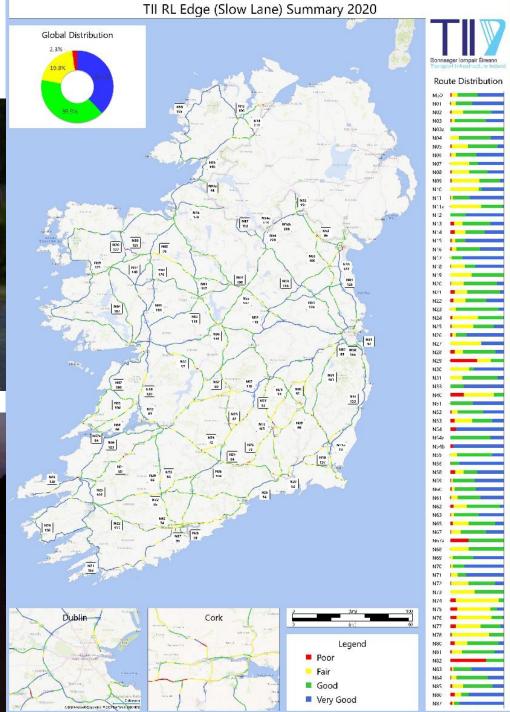
- Routes designed end-to-end by competent **Designers** per Chapter 7 of the Traffic Signs Manual
- Consistent design wrt. overtaking, consideration for vulnerable users. Warrant driven design. Risk assessment.
- Ad-hoc changes may introduce hazard and liabilities.
- Changes need detail design, Designer, PSDP & Safety
 Audit
- Exclusion zones for resurfacing and improvement works
- Designs available for future implementation. (i.e. where resurfacing in subsequent years.)
- Performance Contracts. 200 mcd on application / 100 mcd after 3 years (last for 5-7 years)
- Road studs Embedded, 3 year Guarantee

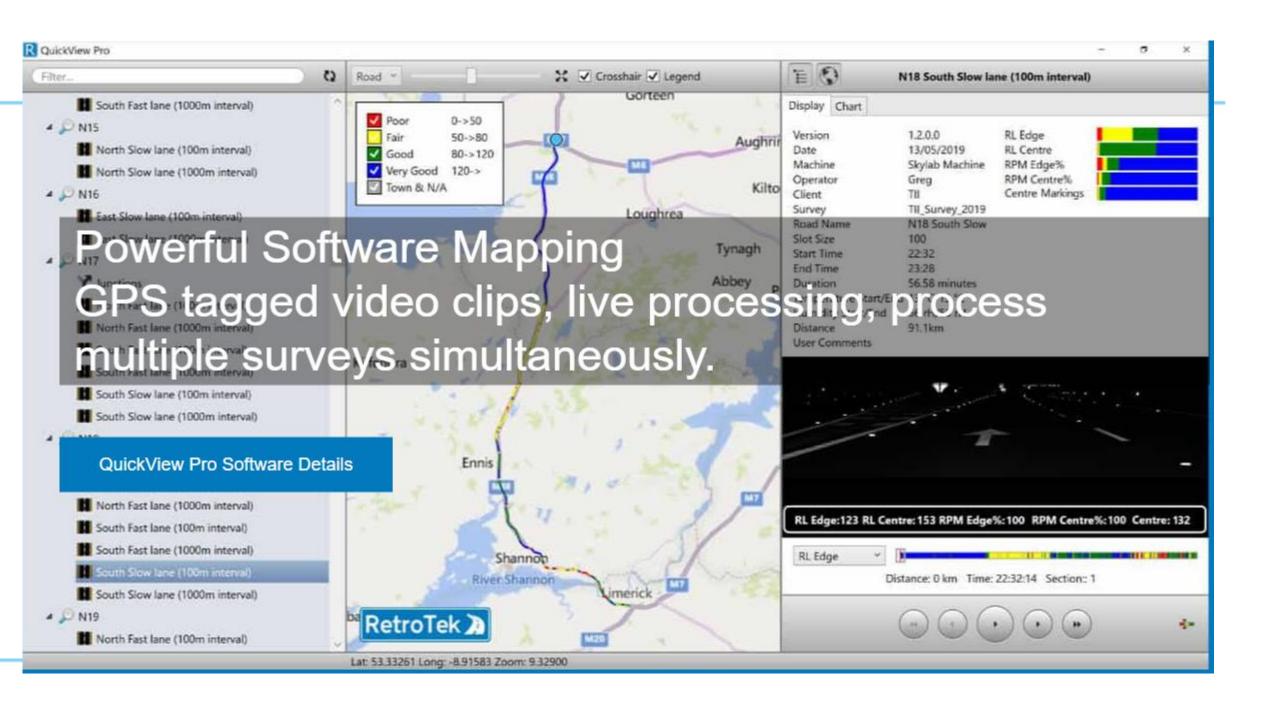


2020 Retroreflectivity Survey Edge Line









To Finish

- Clear and consistent signs and delineation
- Designer, PSDP and Risk Assessment for all designs
- Performance based contracts
- Collaboration with LA's and other stakeholders
- User friendly roads