

NATIONAL ROADS AND GREENWAYS CONFERENCE 2023

Thursday 28th and Friday 29th September 2023



Active Travel Needs Along & Across National Roads

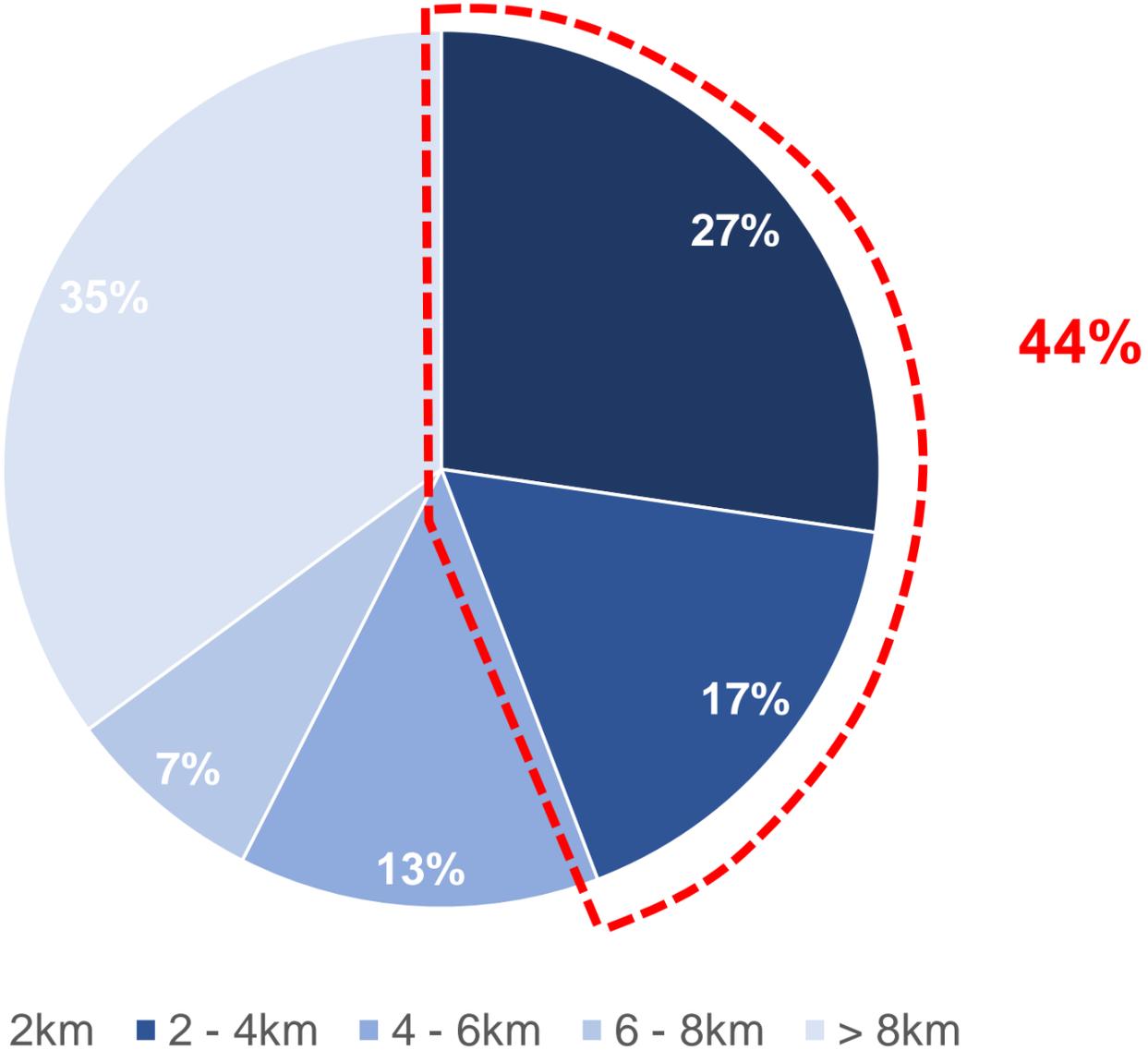
Declan Keenan & Fergus Meehan.

TII Strategic & Transport Planning & TII Capital Programme Active Travel.



Distribution of journey by distance (nationally).

Distributions of Journeys by Distance (Nationally)*



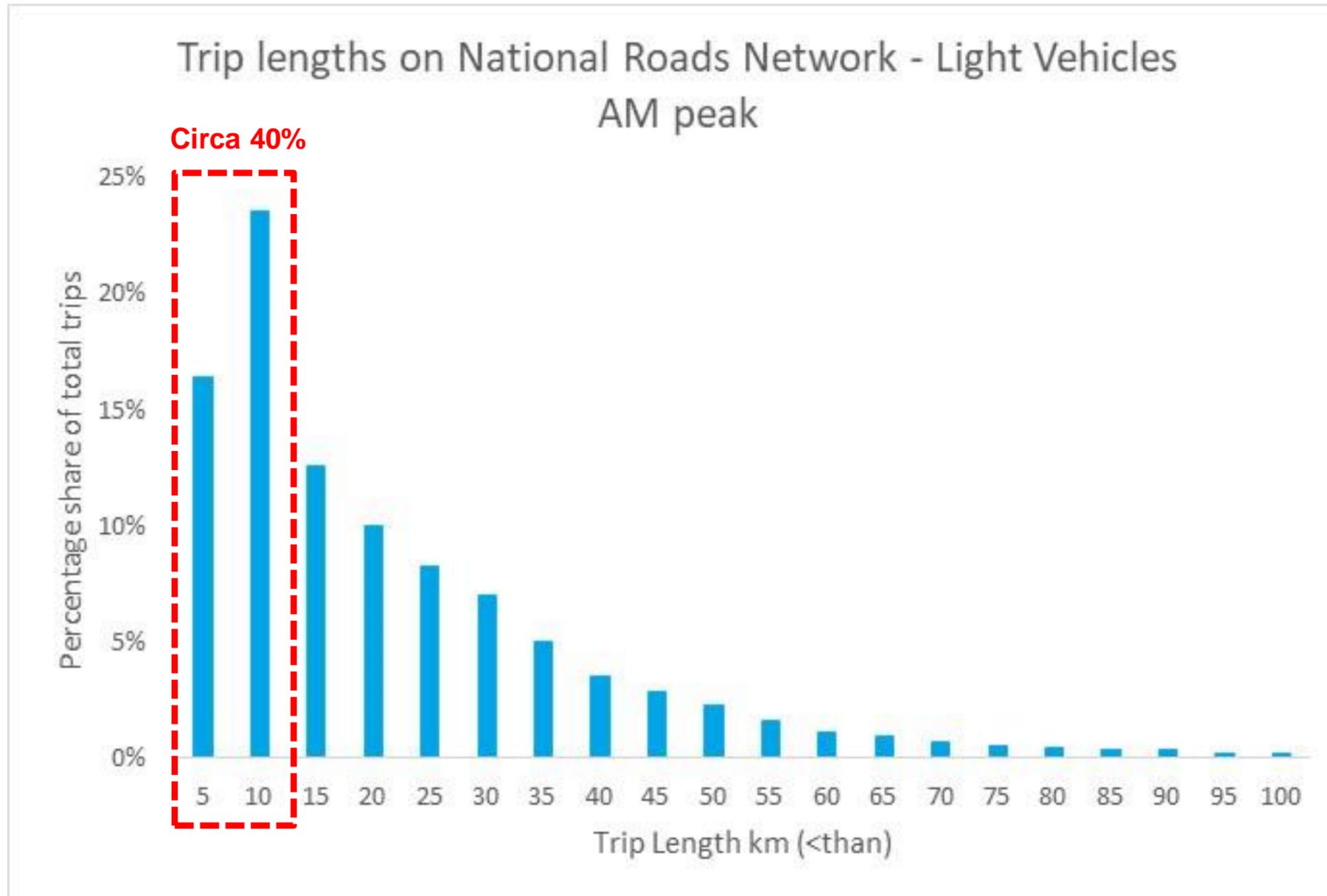
Substantial proportion of daily journeys are 'local'.



*Source: Travel Behaviour Trends 2021, CSO Ireland



Distribution of car trips on NRN by distance.



Active Travel range; if meaningful alternative available.



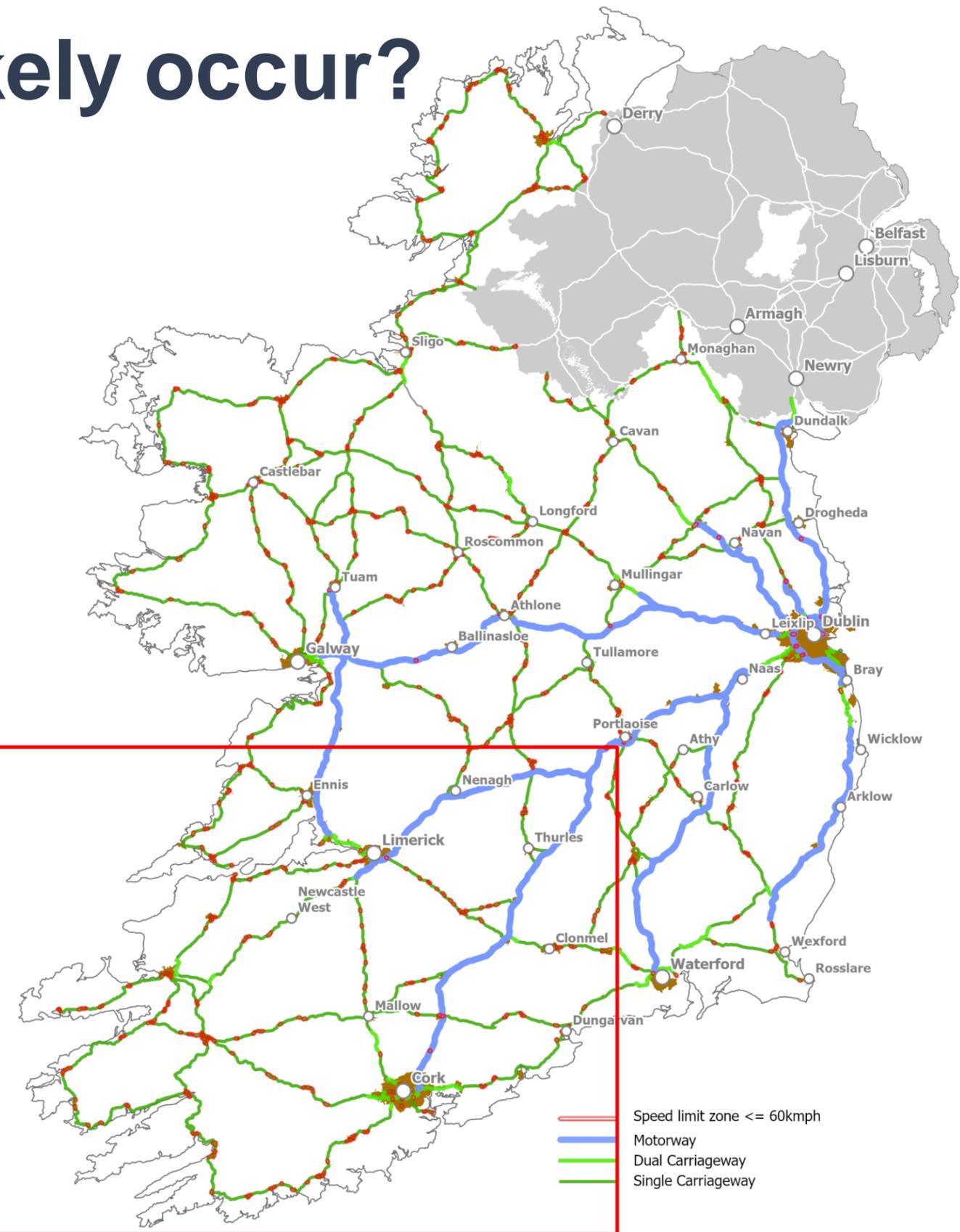
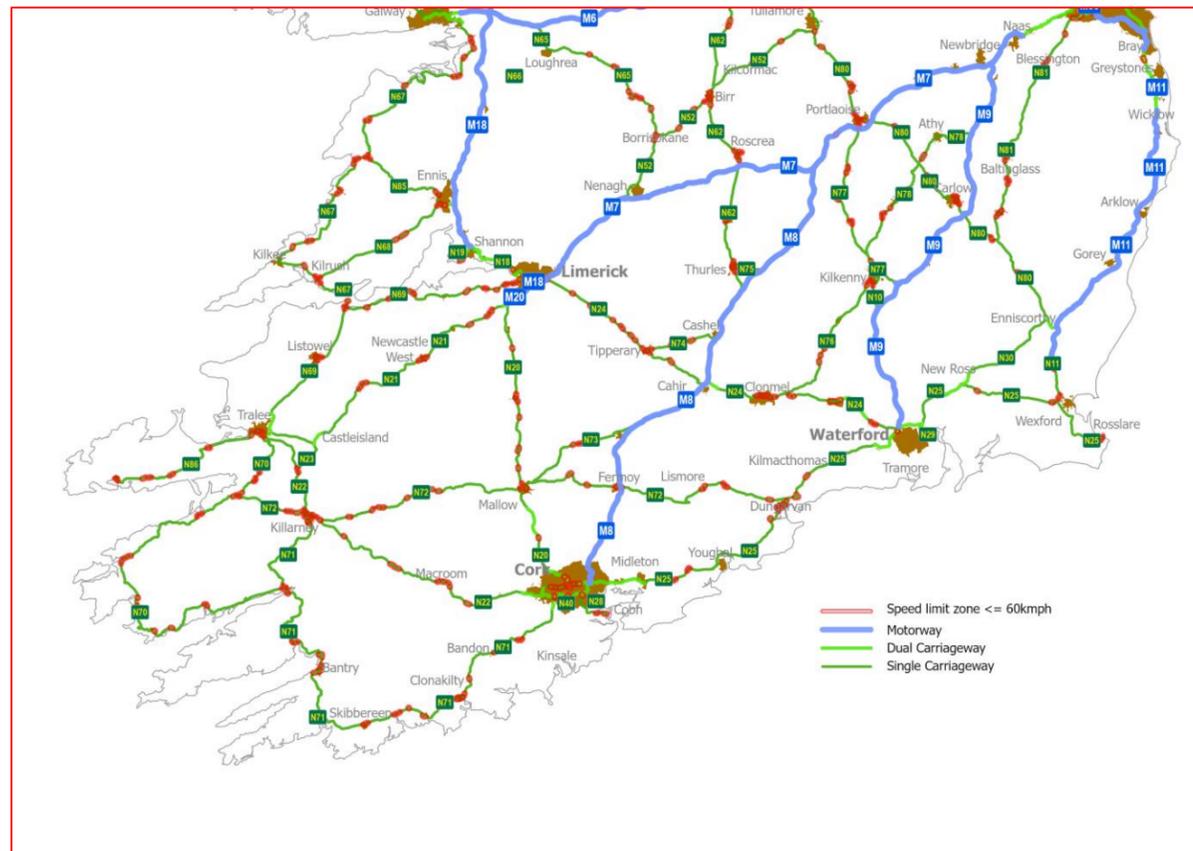
Where short distance trips likely occur?

Extensive network.

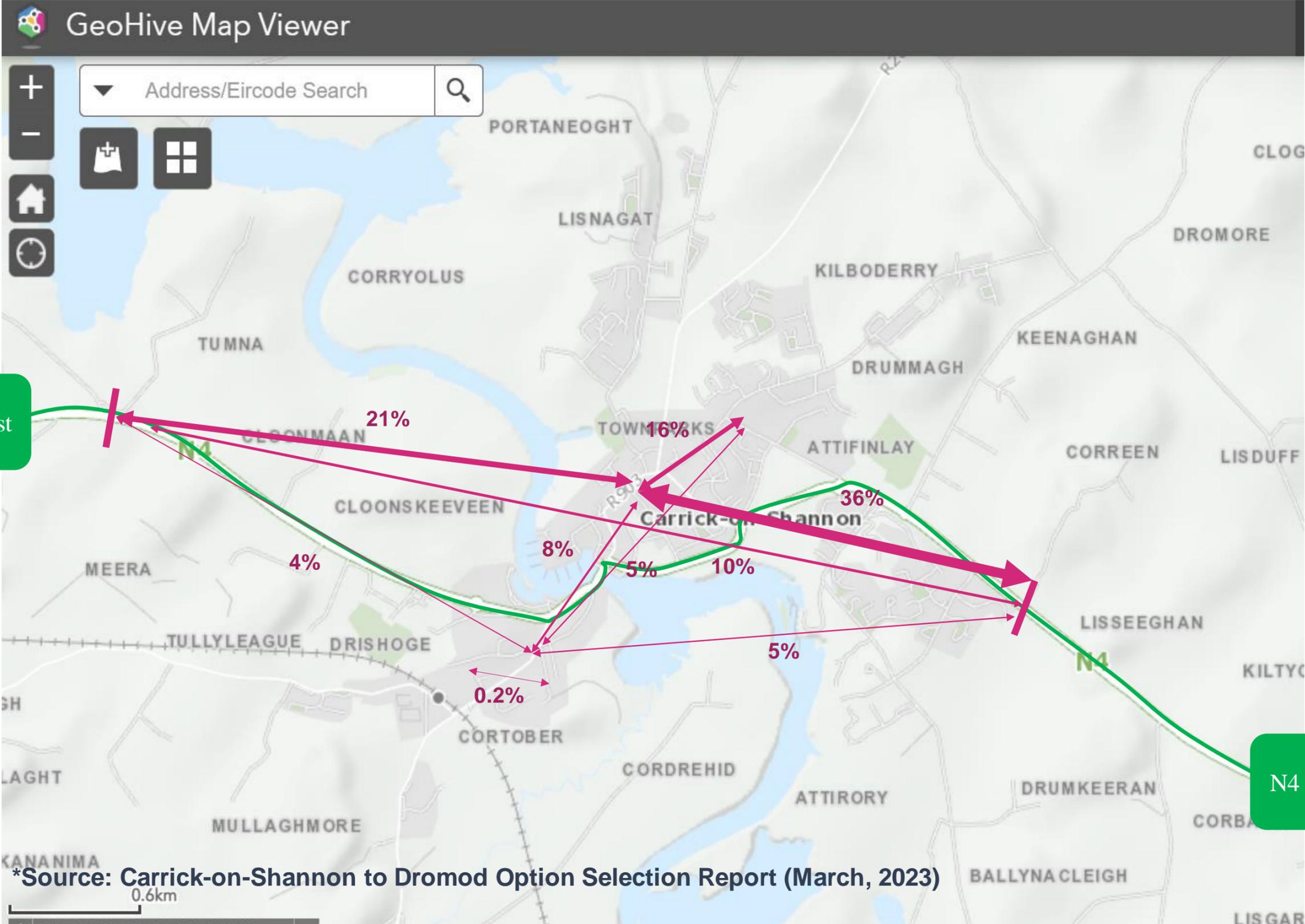
Many urban interfaces.

Enhancing Active Travel Connectivity.

Reduce physical & psychological barriers.



National Roads & Built-up areas: Carrick On Shannon.



N4 West

N4 East

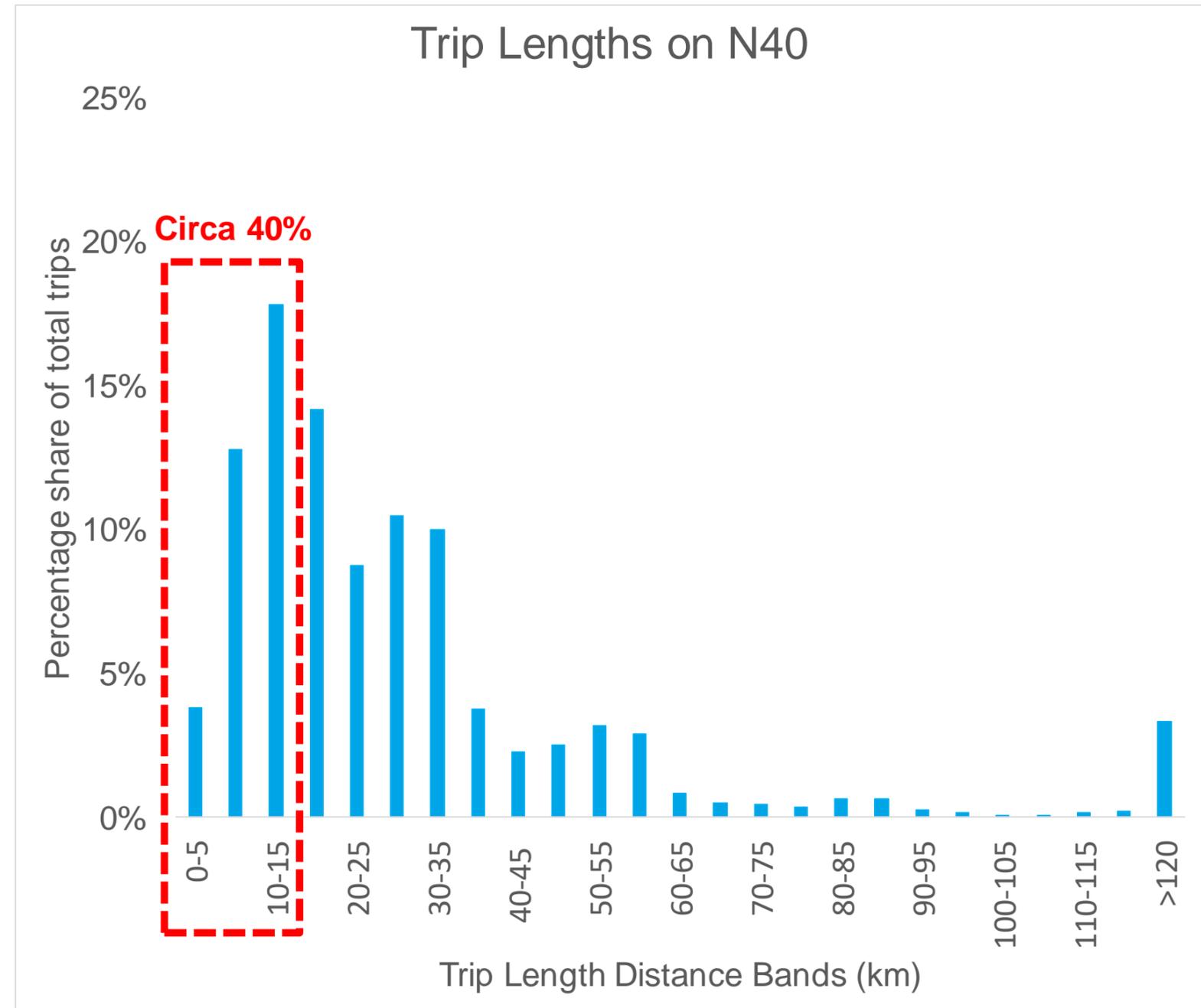
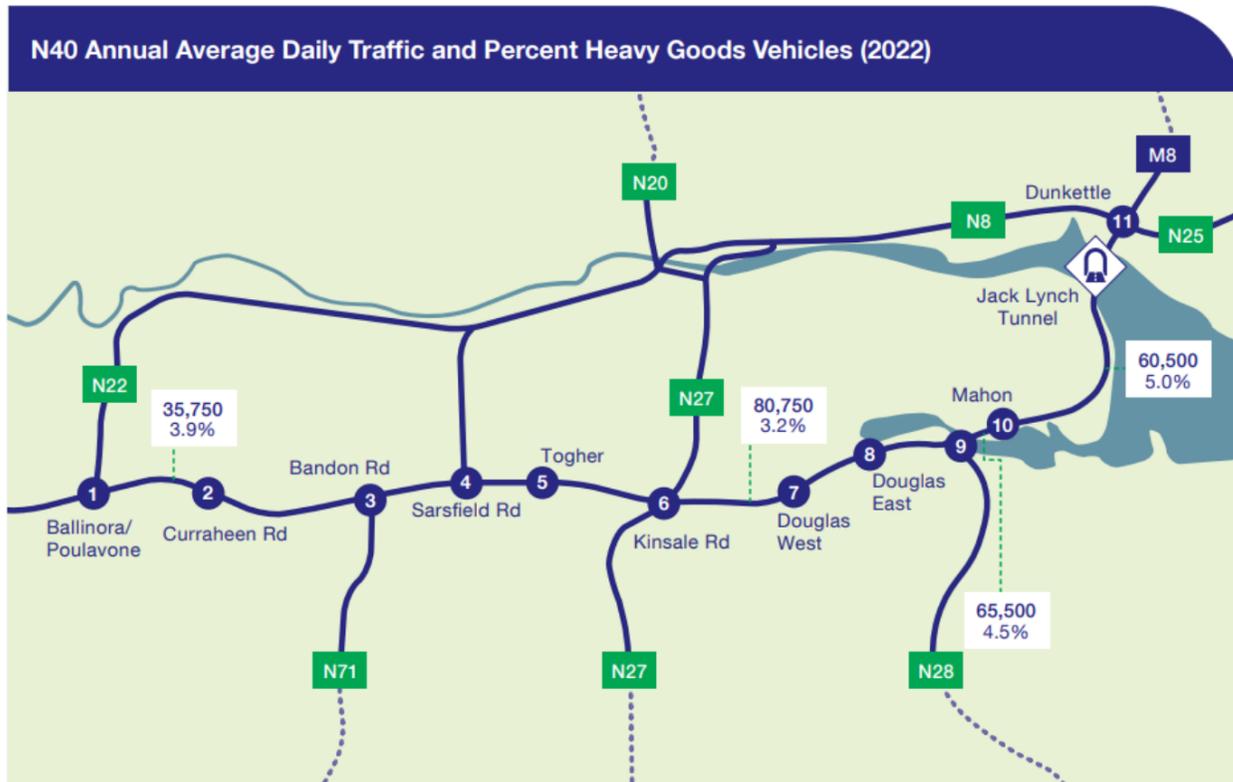
Trip Lengths on NRN in larger urban areas: N40, Cork.

N40 – 8.9km long.

Approx 150k daily trips (0.31 bvkm).

High % of short distance trips.

Significant potential for alternatives!



Legislative Context for Intervention.

European:

Upcoming revision of **TEN-T** Regulations regarding Active Travel.
European Union Road Infrastructure Safety Management (**RISM**) Directive (2019/1936).

National:

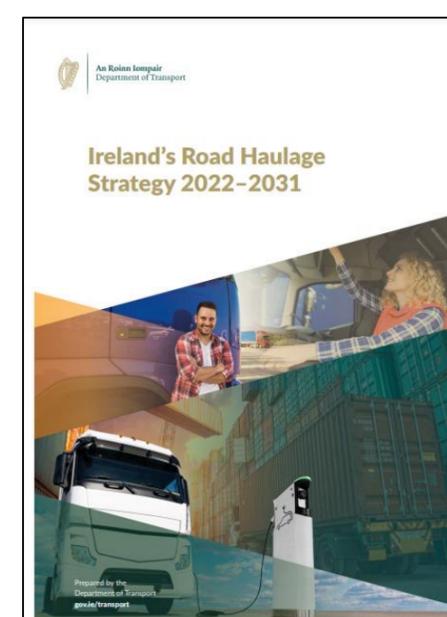
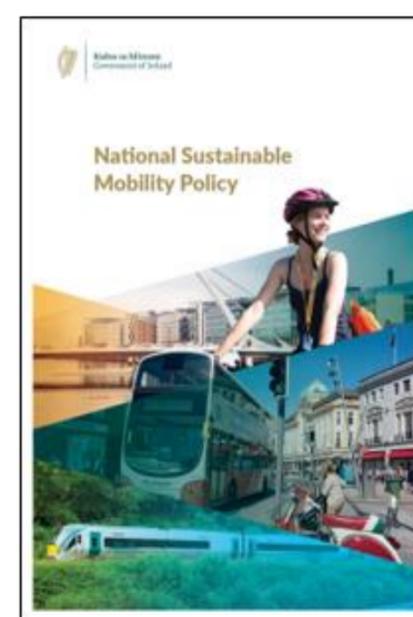
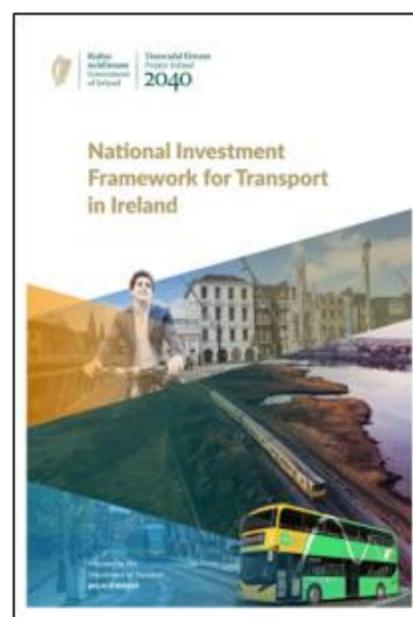
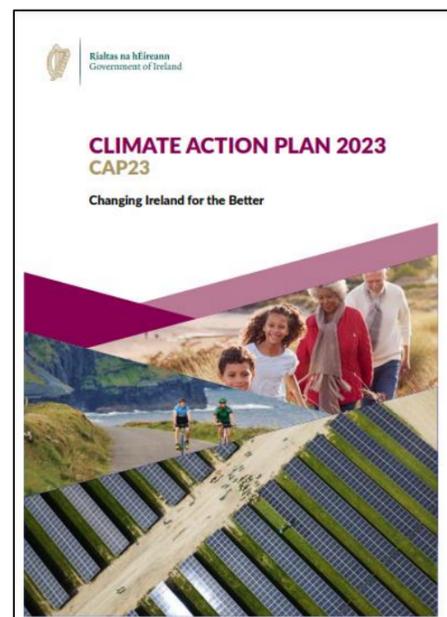
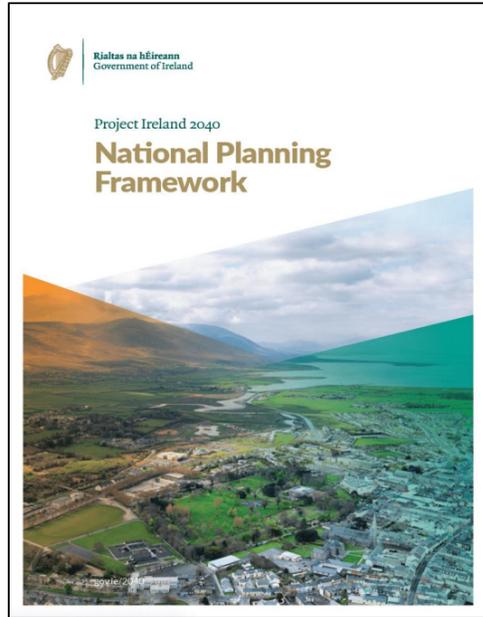
Roads Act, 1993.

Roads Act 1993 ... *‘to secure the provision of a **safe and efficient** network of national roads’....‘the Authority shall **consider the needs of all roads users**’.*

EU Road Infrastructure Safety Management (RISM) Regulations 2021 (S.I. No. 612 of 2021)
Climate Action and Low Carbon Development (Amendment) Act 2021
Climate Action Plan 2023

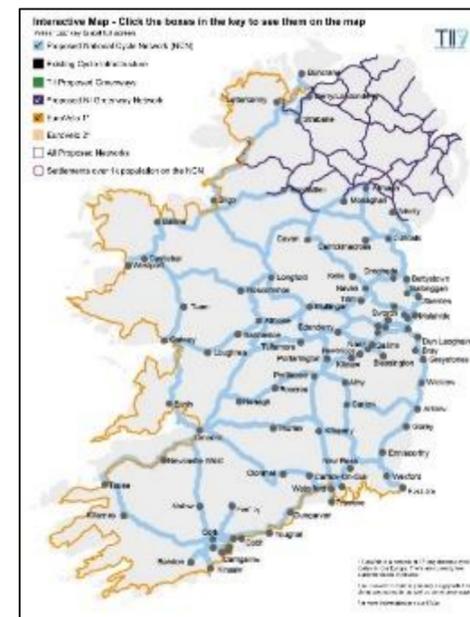


Policy Context for Intervention.

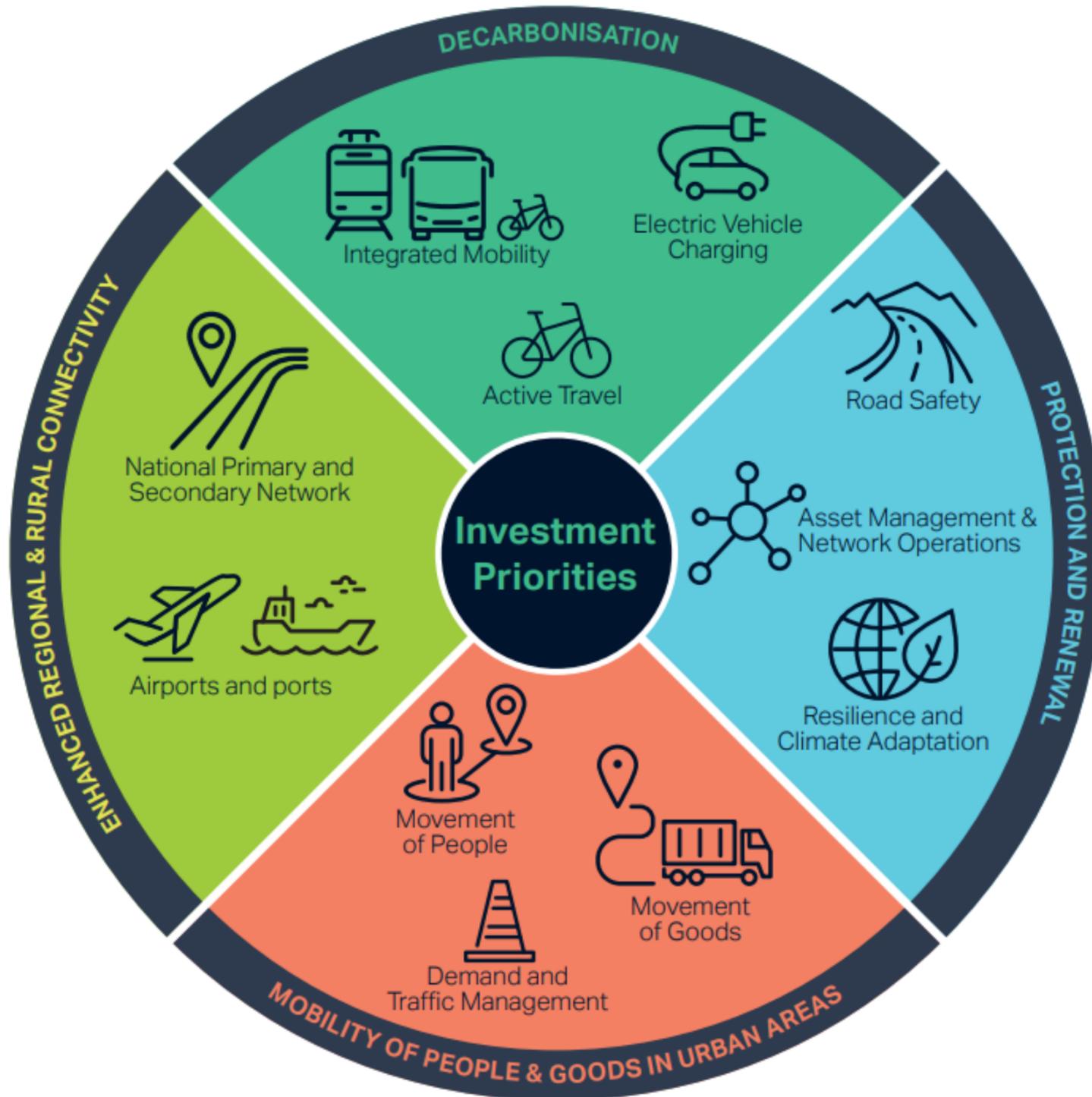
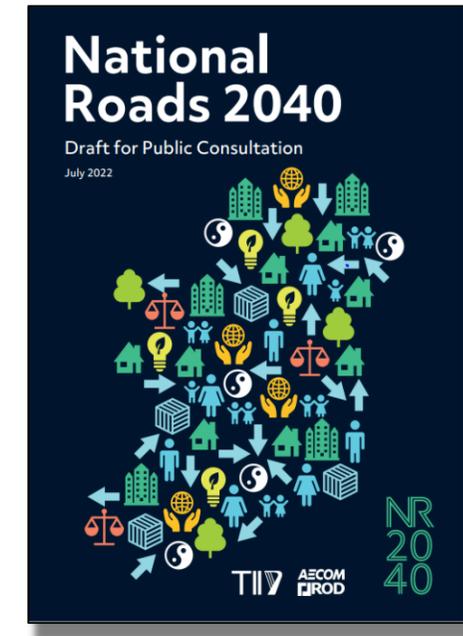


4. Continue to protect and renew road infrastructure for all road users including sustainable mobility users.	DoT, LAs, TII	NTA	Ongoing
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National Sustainable Mobility Policy: Annex of Actions



Policy Context for Intervention: NR2040.



Enhancing active travel connectivity important under:

Protection and Renewal - Safety.

Decarbonisation.

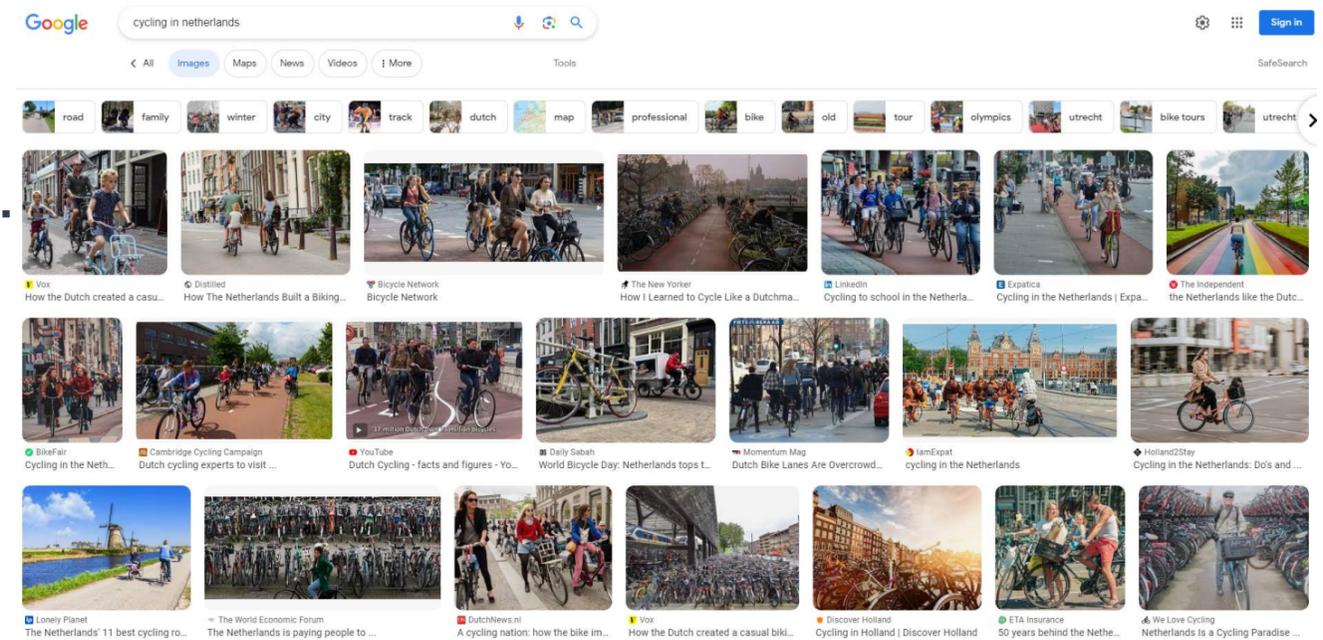
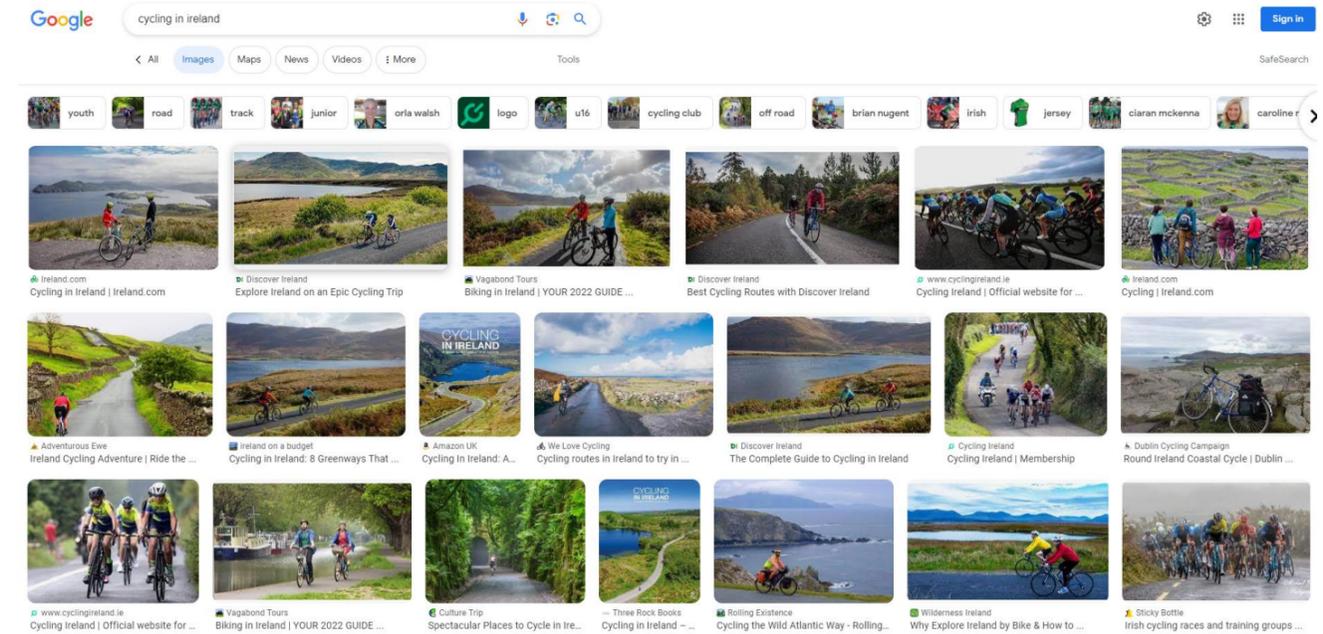
Movement of People and Goods in Urban Areas.



Why invest?

Important in context of:

- Large proportions of trips are local.
- Opportunities in settlements across the network.
- Addressing severance along and across NRN.
- Provide meaningful alternatives for local trips (walking, cycling).
- Option for 'short-hop' trips, accommodating growth.
- A more efficient transport system.
- Climate change, access to services, connecting communities, addressing equity issues.



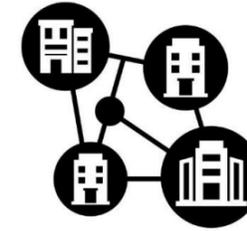
Benefits of Investment.



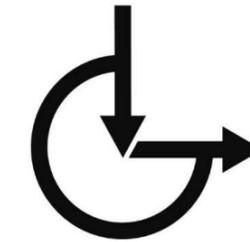
Safe facilities for all.



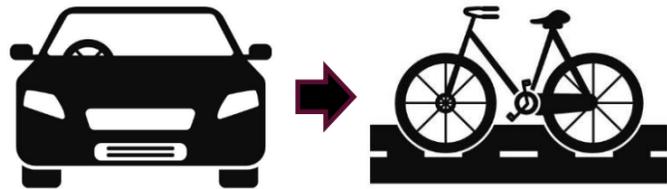
Meaningful alternatives



Enhanced connectivity / accessibility.



Equity in mobility, access to facilities



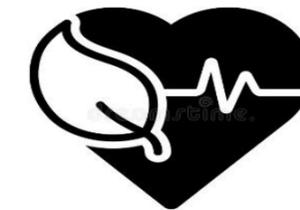
Modal shift.



Emissions & air quality.



Community cohesion, social interactions.



Health & wellbeing.

Among many others.



TII – FUNDING OF ACTIVE TRAVEL INTERVENTIONS ON THE NRN

'MAJORS' NATIONAL ROADS PROJECTS



'MINORS' NATIONAL ROADS PROJECTS



'ROAD SAFETY IMPROVEMENT SCHEMES'



TARGETED NATIONAL ROAD ACTIVE TRAVEL INTERVENTION



LATERAL & LONGITUDINAL SEVERANCE ⚠️



Some Improvement examples – To Date



N76 Grangemockler



N4 Carrick on Shannon



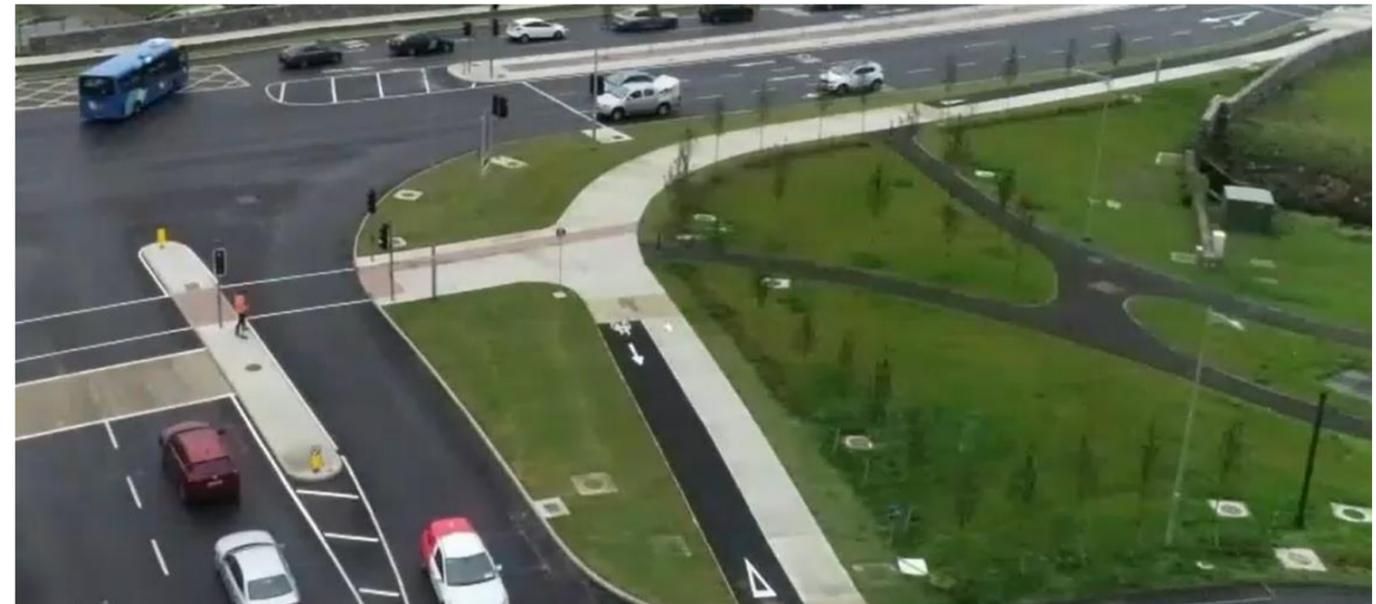
Some Improvement examples – To Date



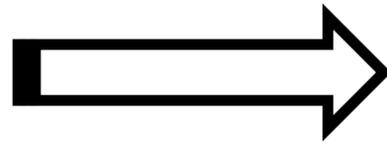
N56 Four Lane - Letterkenny



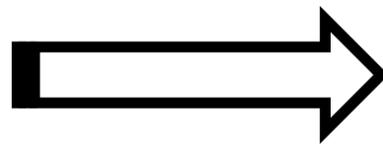
N4/ N15 Sligo



Some Improvement examples – To Date



**N59 Mullranny
Footpaths**



**N71 Muckross
Road (Killarney)**



Typical examples of Severance on the NRN

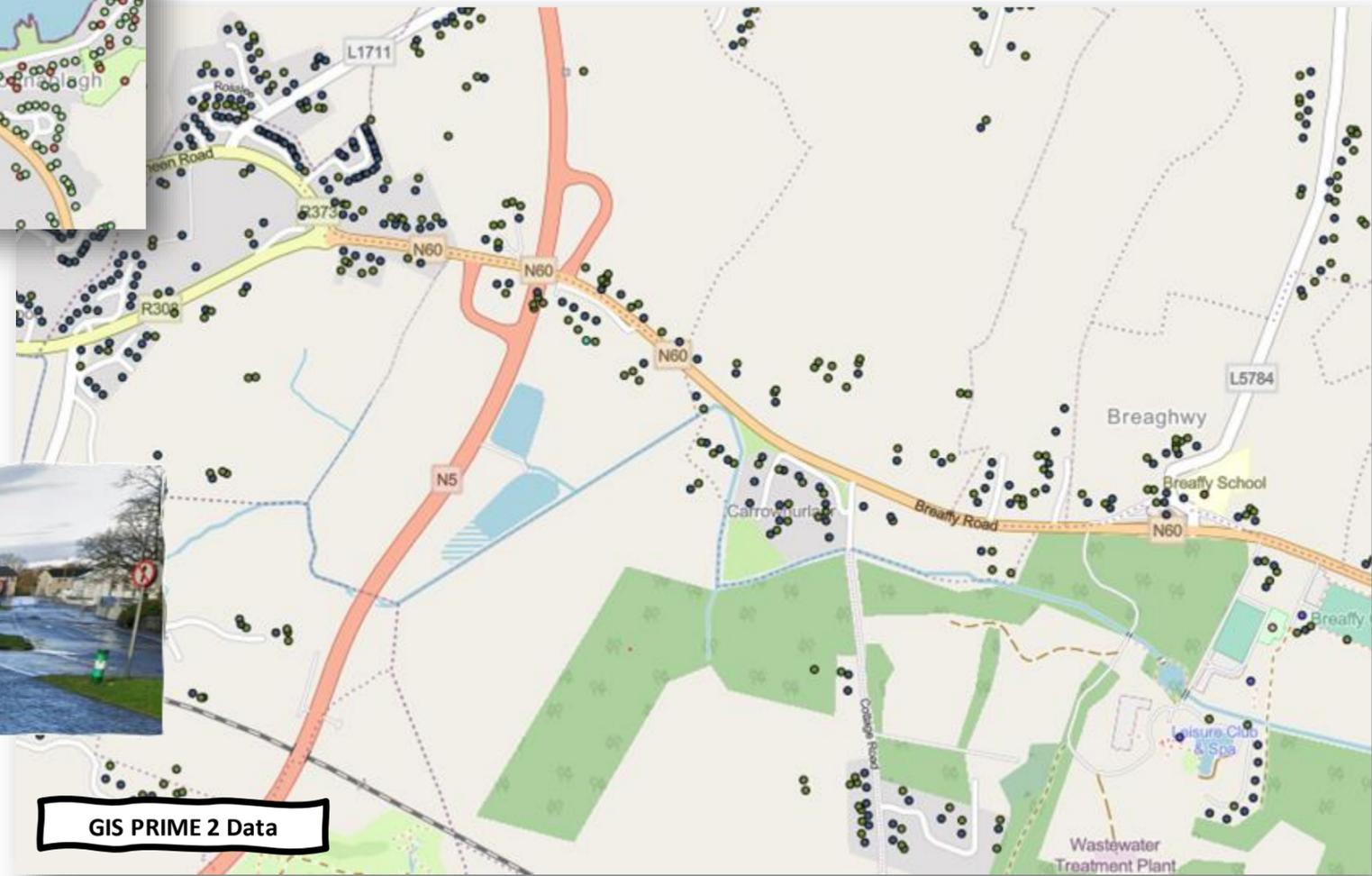


Typical examples of Severance on the NRN



N60 Castlebar to Breaffy

N56 Dunfanaghy to Portnablagh

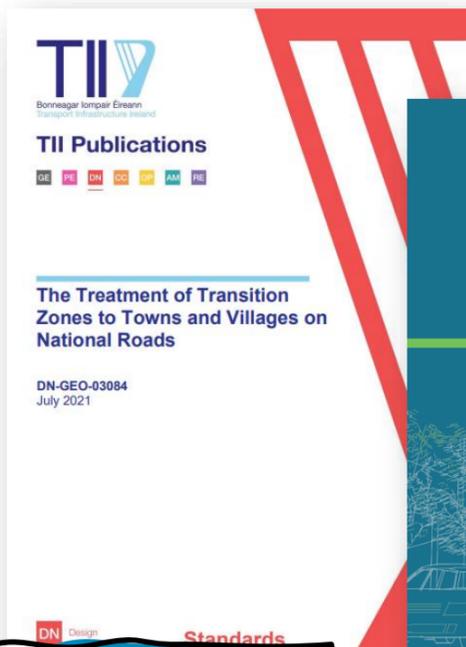


Active Travel Focused Interventions: Planning, Design & Appraisal

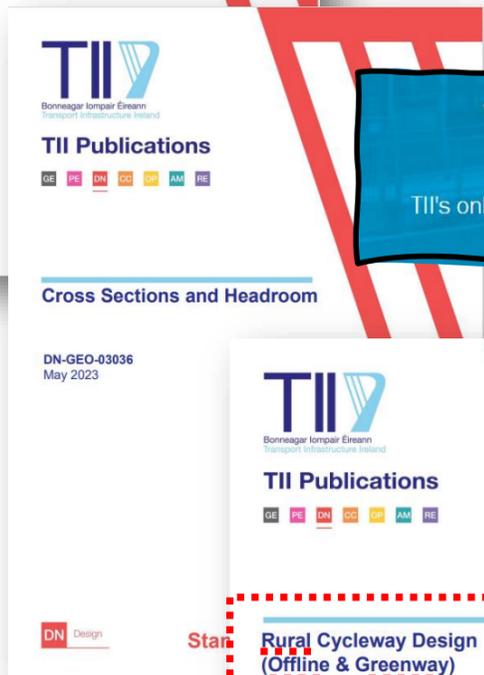


>60kph

<60kph



Welcome to TII Publications
TII's online suite of Standards and Technical publications related to National Road, Greenway and Light Rail networks in Ireland.

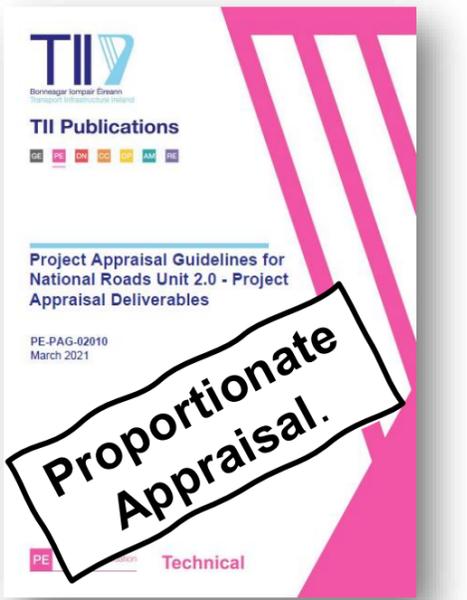


RECAP - ROADS ACT:

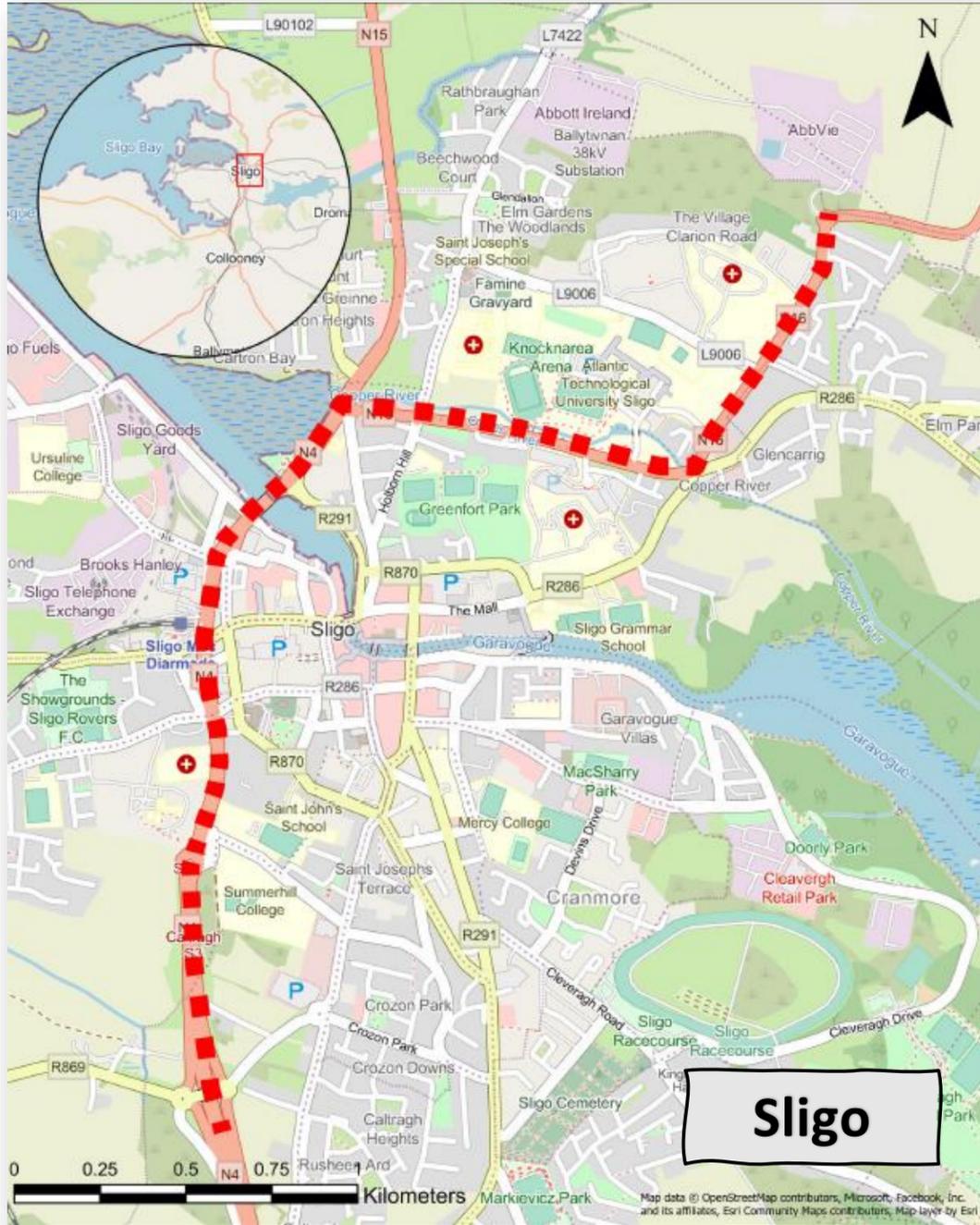
- **Article 17 (1): ... safe and efficient network of national roads ...**
- **Article 17 (2): ... the Authority shall consider the needs of all road users ...**



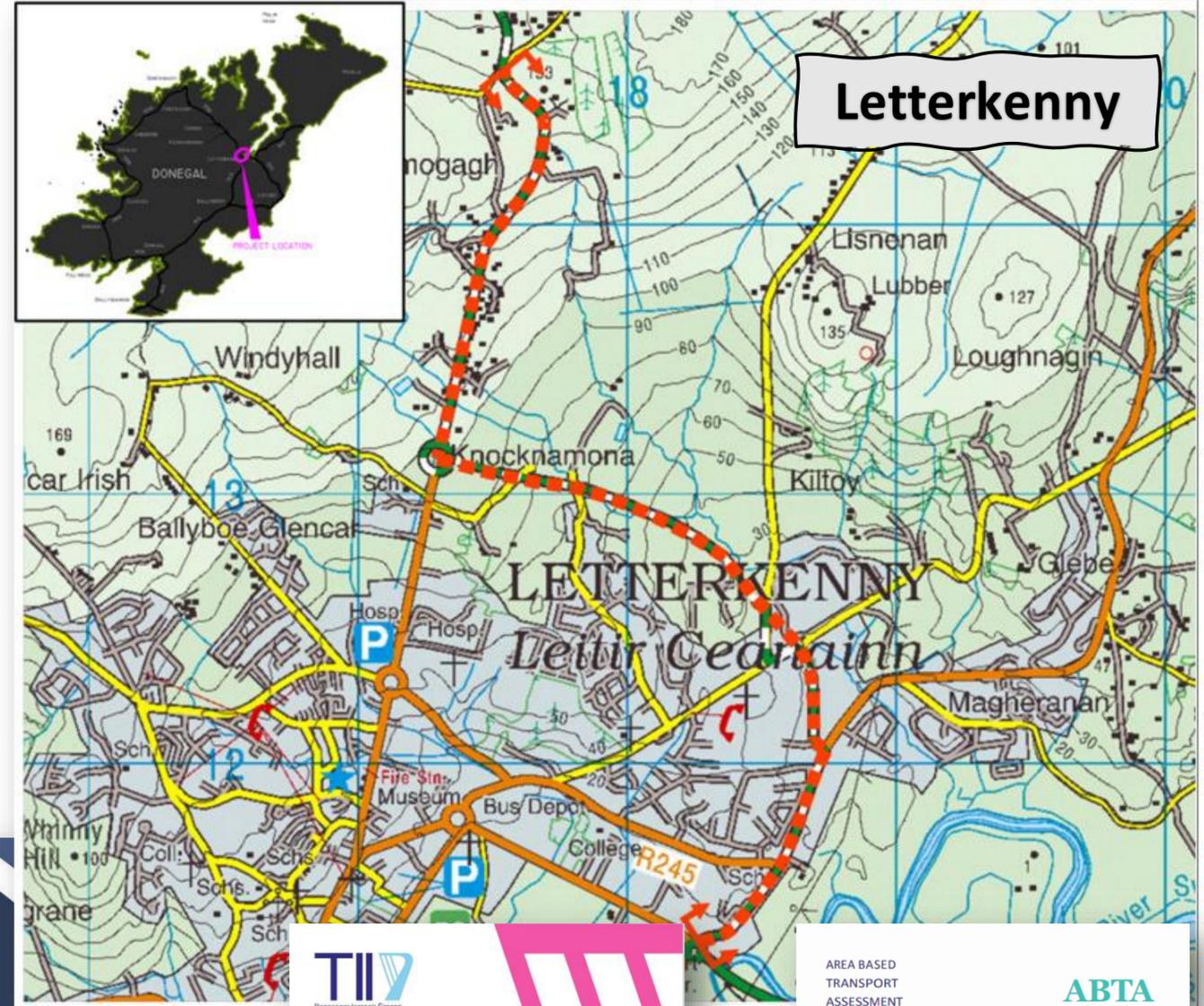
VERY DIFFERENT FUNCTIONS AND SENSITIVITIES.



CASE STUDY 1: Urban schemes, example of delivery strategy

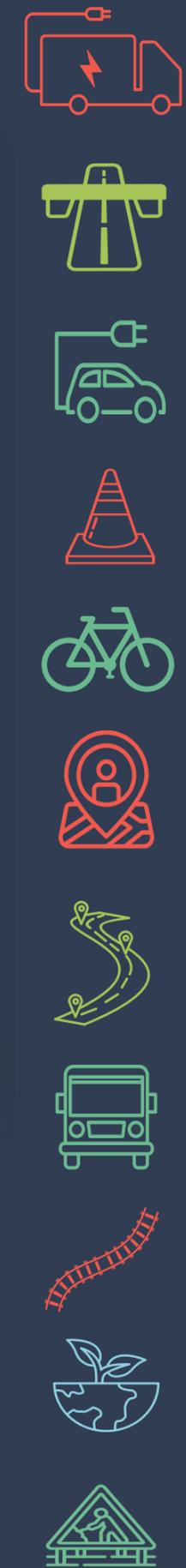
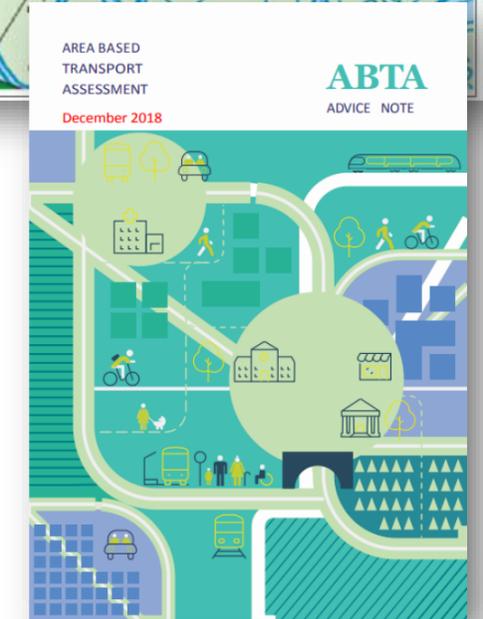
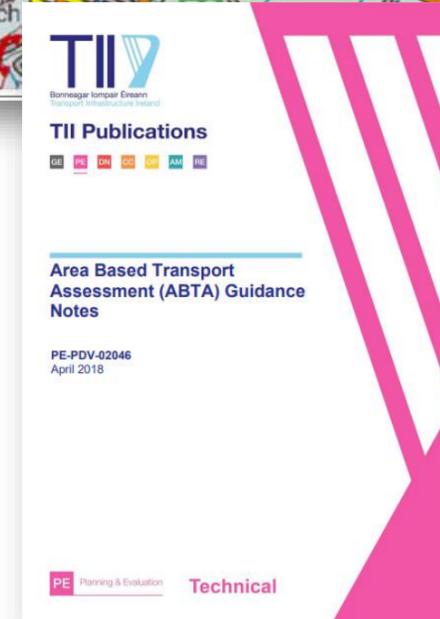


**North West
- Regional
Centres**



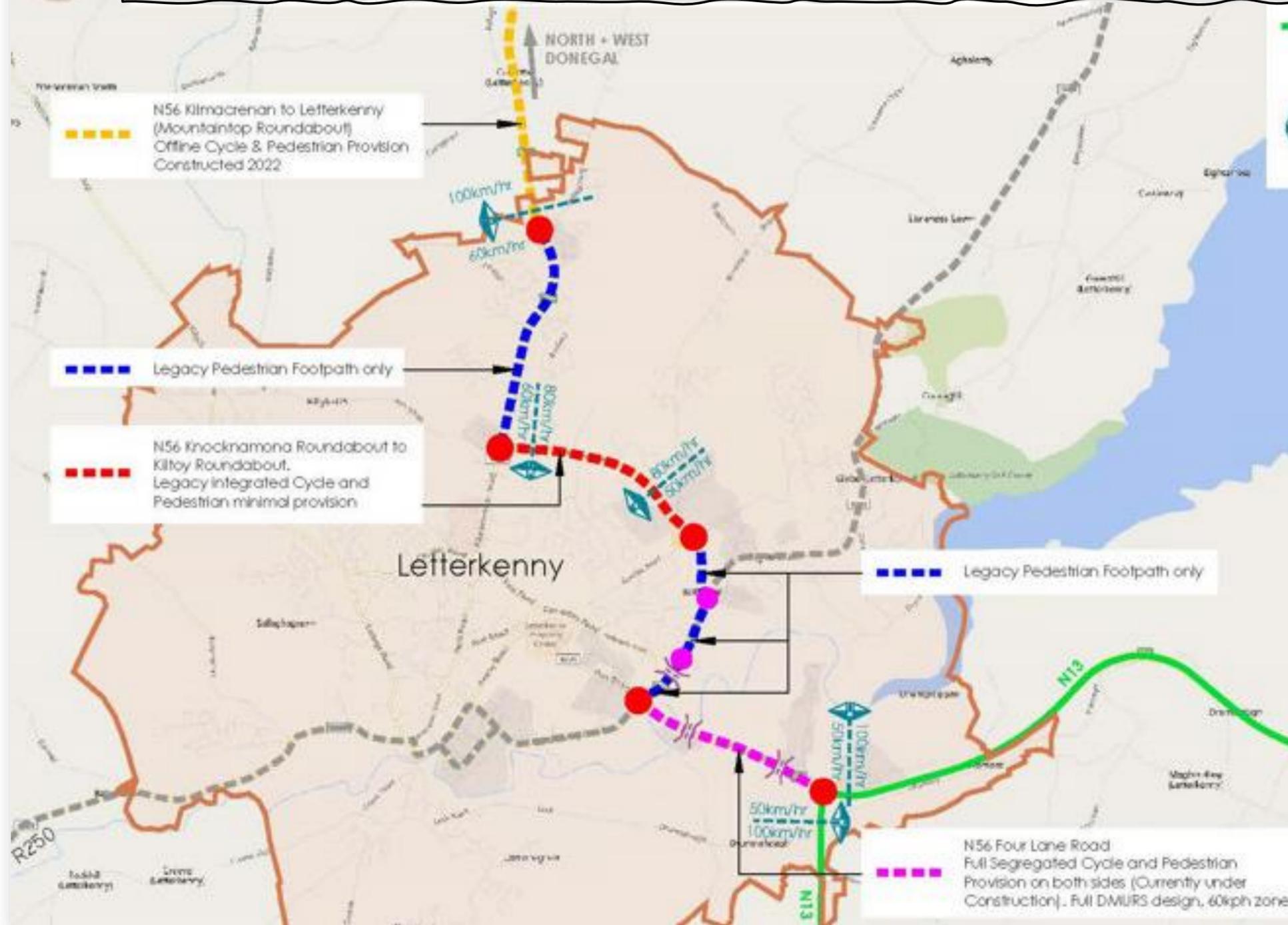
Letterkenny

Sligo



CASE STUDY 1: Urban schemes, example of delivery strategy

N56 Letterkenny Urban Active Travel and Junction Strategy

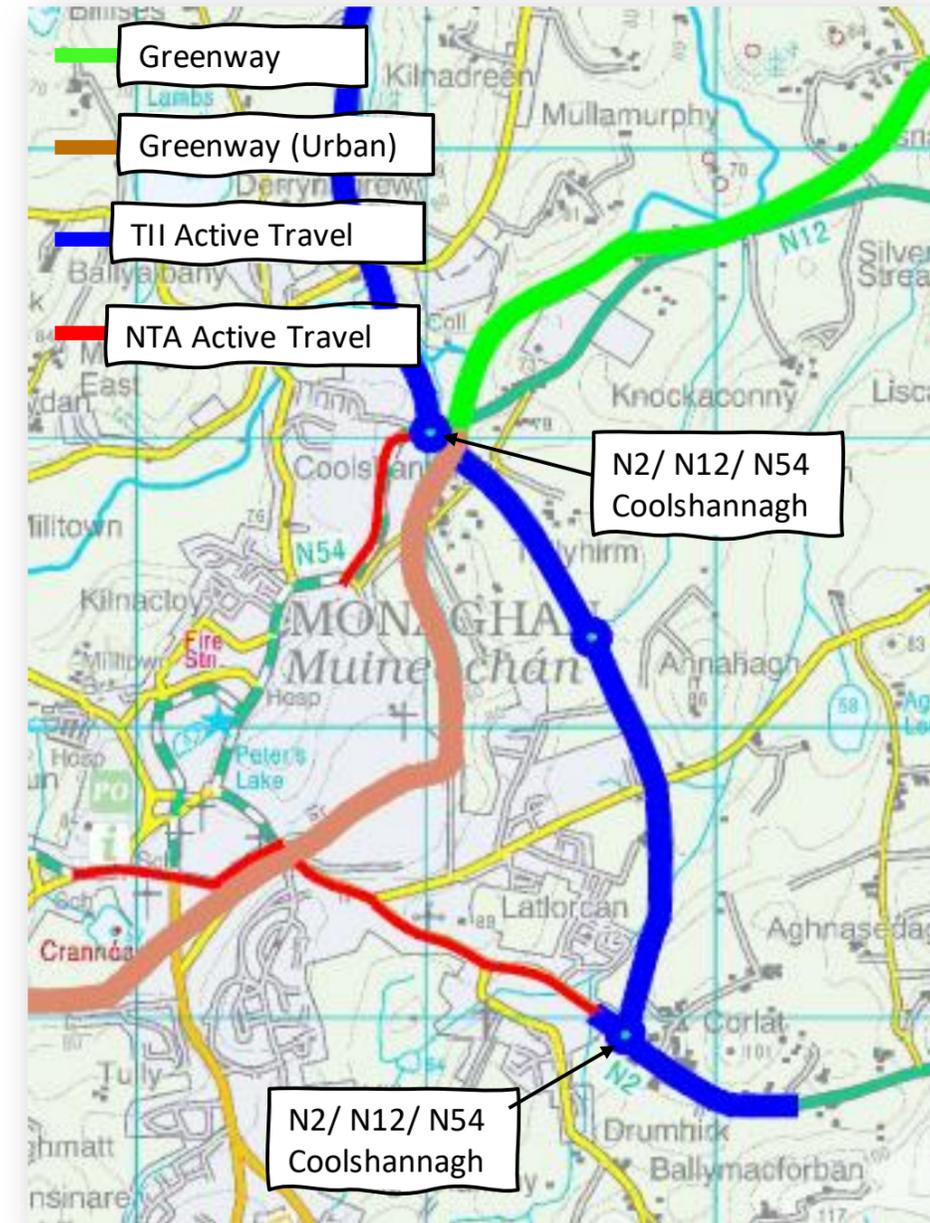
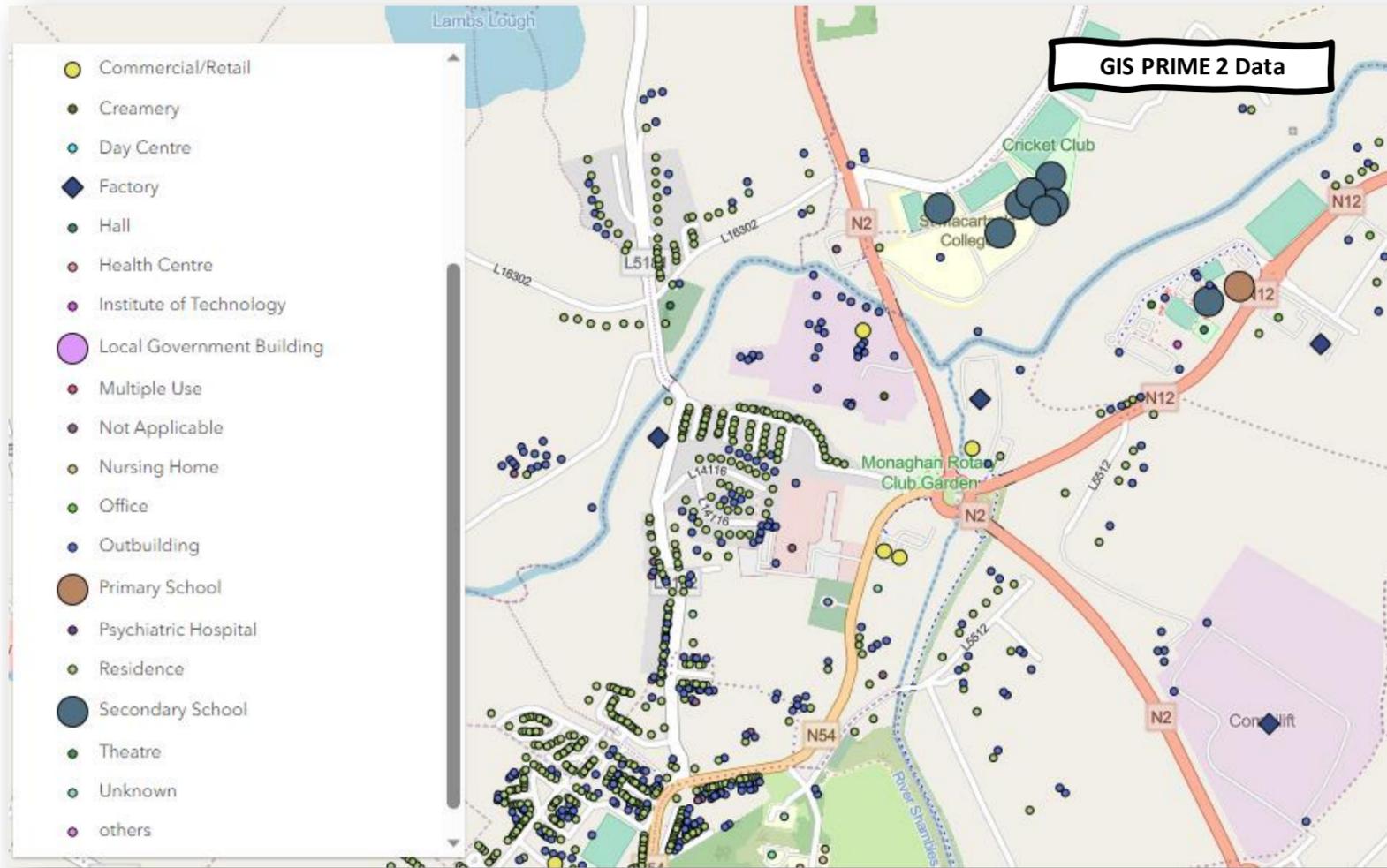


Prioritise, Plan & Deliver

- **SHORT TERM INTERVENTIONS**
 - Obvious Short Term gains
- **MEDIUM TERM INTERVENTIONS**
 - Transport (For All) Analysis;
 - Feasibility & Options;
 - Proportionate Appraisal.



CASE STUDY 2: Monaghan roundabouts, approach example



- Consider all Road Users;
- Protect the Strategic Function



CASE STUDY 2: Monaghan roundabouts, approach example

SOME OF THE OBJECTIVES

- [...] To minimise impacts on the capacity of the Coolshannagh Roundabout;
- To reduce the risk of cyclist collisions through segregation from traffic;
- To promote opportunities for Modal Shift;
- To promote the general health and wellbeing of all end users [...]

Measured through KPI's derived from the TAF criteria

POSSIBLE INTERVENTIONS

- Relocate & Reduce Conflict (Is there another way?);
- Signing, Lining & Crossing Improvements;
- Provide cycle facilities at the roundabout;
- Grade Separate;

'Safe' and 'Efficient' Road Network



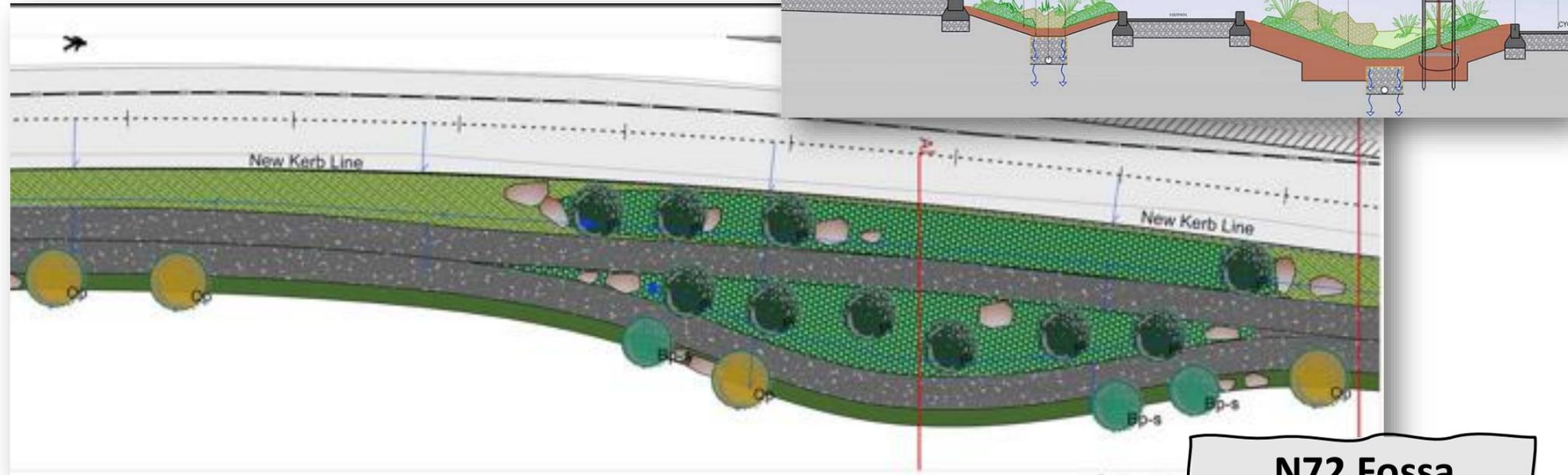
Preserve the Strategic Function

Reduce Active Travel Severance

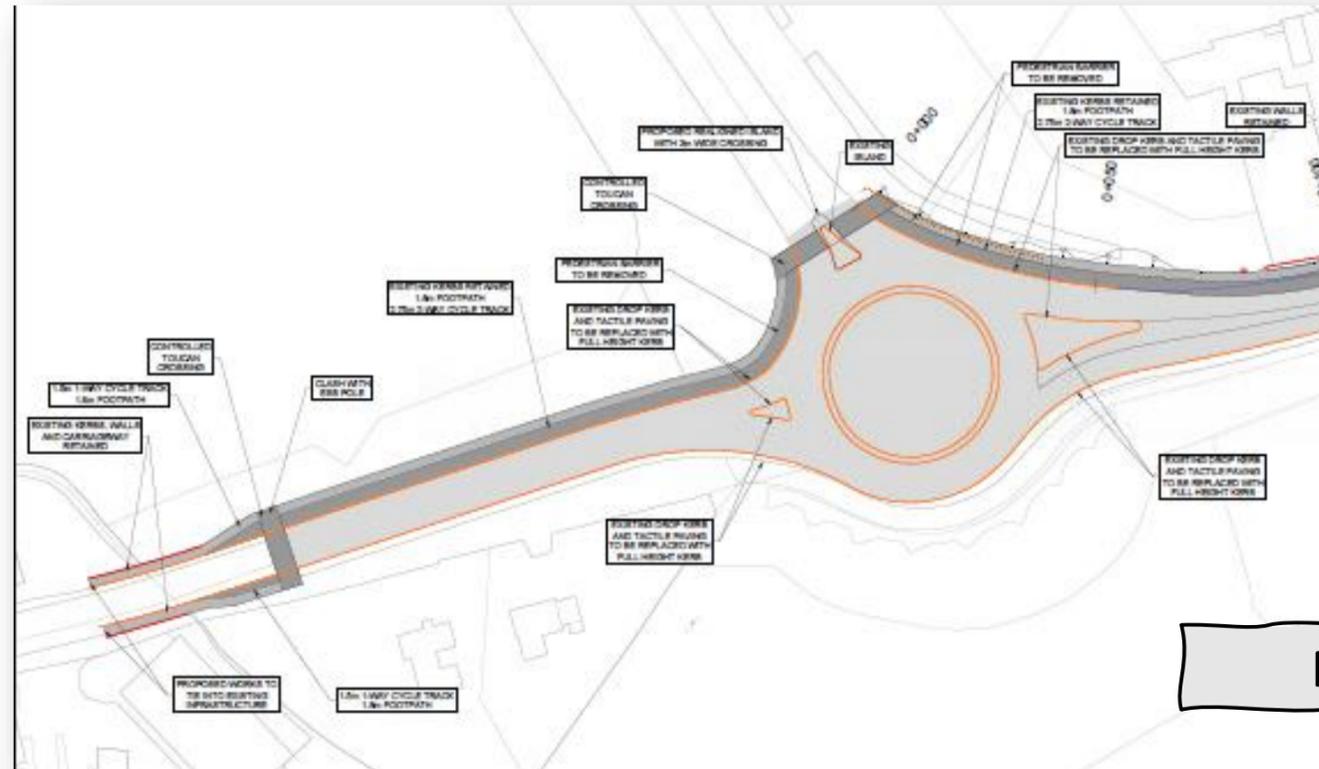
SCALE OF INTERVENTION - PROPORTIONATE TO THE SITUATION & NEED



Some projects in Design



N72 Fossa



N2 Corlat Roundabout

DRAFT SAMPLE DESIGN'S – Under consideration; without Prejudice



Best-In-Class (Applying a relative Lens)



Some Final points

- **Safety First;**
 - **Standards** apply in all cases for the upgrade of National Roads;
 - Protect the **Strategic Function** whilst considering the **Needs of All Road Users;**
 - Create opportunities for **Modal Shift;**
 - **Engage & Collaborate;**
- **Funding for Interventions on National Roads, or addressing Safety issues on National Roads;**
 - **2023 Grant Allocations** to Local Authorities:
 - Protection and Renewal of the National Road Network:
 - €1,000,000 '**Seed**' funding allocated in 2023 for **NEW** projects with an identified **Active Travel Severance Need**;
 - €7,340,000 allocated in 2023 for **Current** projects;
 - **Opportunities for Annual Funding** – **NEW** Pro-Forma application format under consideration;
 - **TII Engagement:** activetravel@tii.ie

... & Interventions should be proportionate to the 'Need' & 'Situation'





THANK YOU FOR LISTENING!

