



An Roinn Iompair
Department of Transport



Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

RSTG Conference 2024 15th May - Day 1

Networking \ Exhibition & Coffee Break

We will resume at 14.25 pm

Session 3- Climate Adaptation, Rehabilitation of Roads Over Peat Guidelines,
Regional and Local Roads Safety Statistics

Chair Dominic Mullaney

14.30-14.50	Critical Infrastructure Routes & Climate Adaptation	Kevin Motherway & Brian Cross
14.50-15.10	Revision of the Roads Over Peat Guidelines	James Mc Crum - DoT, Oliver Brennan-Wicklow County Council
15.10-15.30	Road Safety Authority - Stats on RLR Network	Velma Burns - RSA



Join the Q&A session at [Slido.com](https://www.slido.com) and enter 5812867
Or via the QR Code





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County and City Management Association

ROADS Services Training Group

LOCAL AUTHORITY ROADS CONFERENCE and EXHIBITION - 2024

Day 1-Session 3-Presentation 1

Kevin Motherway & Brian Cross

Sligo Radisson Hotel, Sligo, May 2024



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CARO

Initiative of Local Government

Funded by DECC :

- ❑ **Build** on Experience & Expertise
- ❑ **Drive** Climate Action & Build Capacity within LA Sector
- ❑ **Coordinate** Engagement across Various Agencies and Government Departments
- ❑ **Translate** Sectoral Efforts to Local Level
- ❑ **Assist** in drafting and implementation of LA Climate Action Plans



CARO Work Programme

-  Management & Governance
-  Adaptation
-  Mitigation
-  Communications & Citizen Engagement
-  Training & Education
-  Knowledge Development





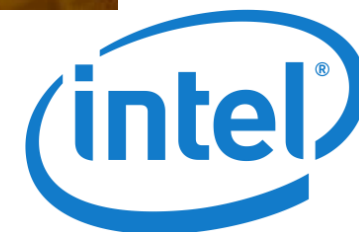
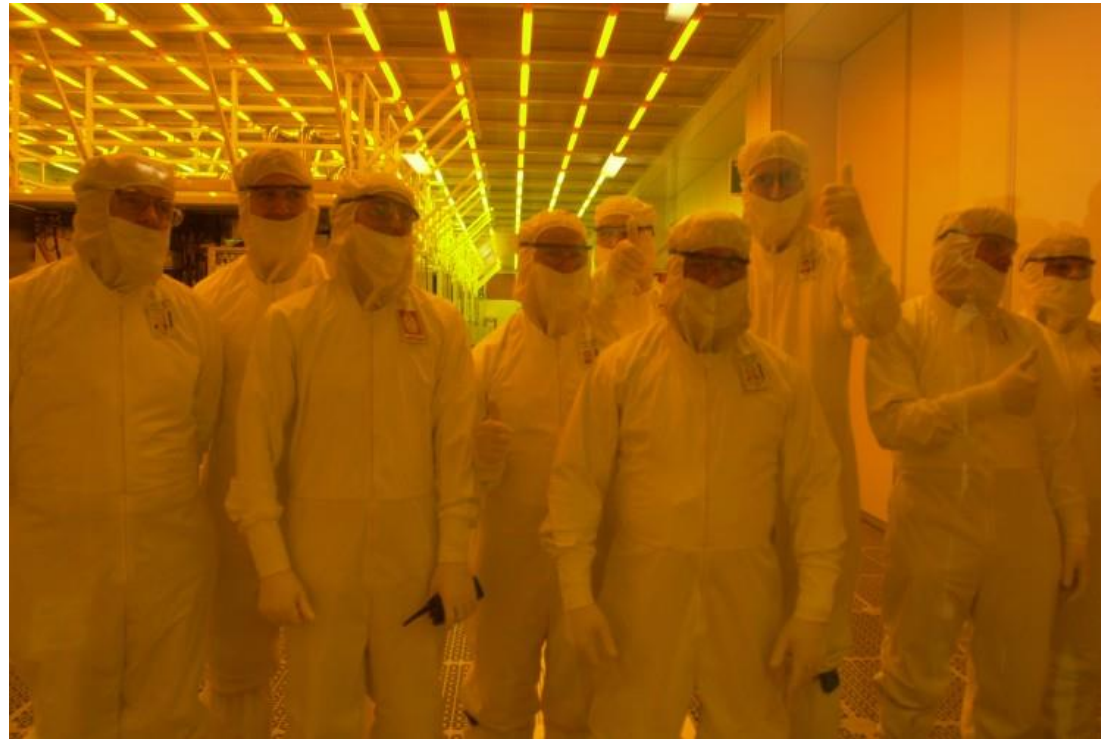
Climate Action

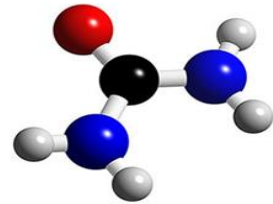
Climate Mitigation +

Climate Adaptation

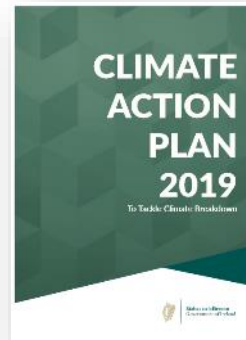
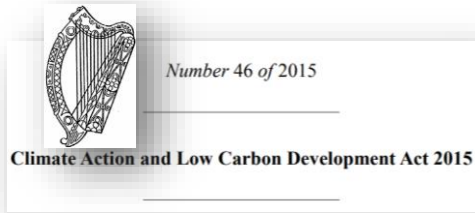


The Intel Parable





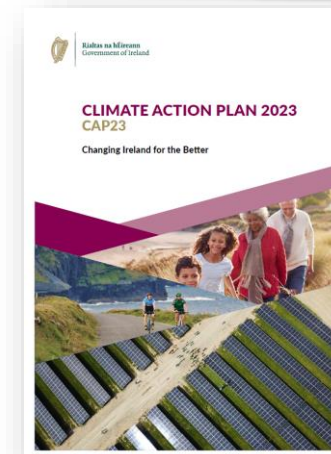
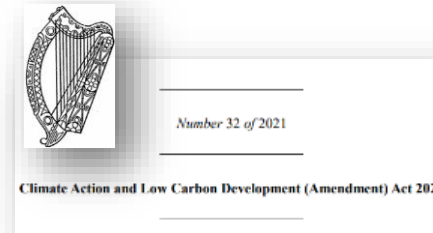
Climate Action Policy Context



Strengthening



Under Review 2023



Climate Action: Regional & Local Roads



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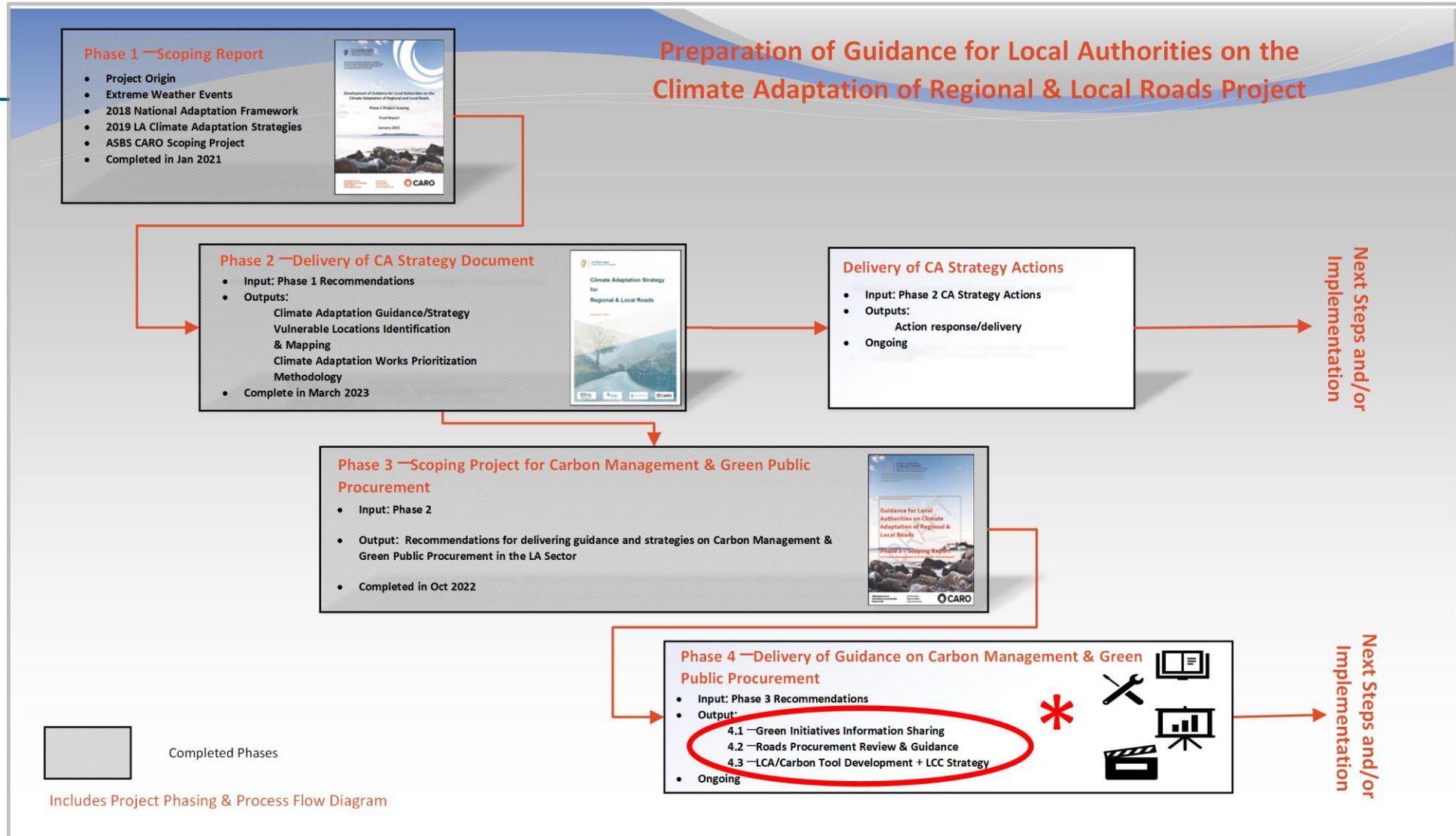


- Loss of road function
- Damage to road infrastructure
- Flooding
- Increased emergency events
- Service outages (e.g. power)
- Other social, environmental & economic consequences

CARO is assisting the Local Authority sector by providing guidance and training to adapt to Climate Change impacts by:

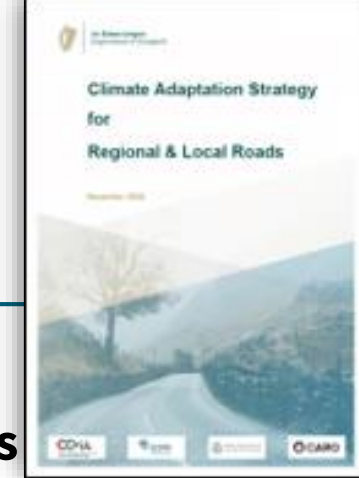
- Increasing infrastructure resilience
- Reduce carbon emissions
- Limiting loss of road function
- Enhancing management systems and processes
- Identify “Lifeline roads” CIR

Project Outline



Project Outputs to date

- 2021 Climate Adaptation Works Prioritization Methodology
- 2023 Climate Adaptation Strategy for Regional & Local Roads
- Input to EPA RAP by-product rules



Ongoing Work

- Climate Adaptation Strategy for R&LRs – Implementation
 - ✓ Critical Infrastructure Routes (CIRs) (support role to DoTSO)
 - ✓ Geotechnical Asset Management Guidance
 - ✓ Common Failure Types (CFTs)
- Development of an LCA/Carbon ***Measuring*** Tool for R&LR Sector – ‘Embodied Carbon’, Pilot Project



NATIONAL BY-PRODUCT CRITERIA

Reference Number: BP-N001/2023

of the 3rd October 2023

Pipeline Work

- Life Cycle Costing (LCC) /Whole Life Costing (WLC) Strategy/Guidance.....
- Guidance Document for Green Public Procurement & Carbon Management.....

Local Authority Climate Action Plans

31 LACAPS

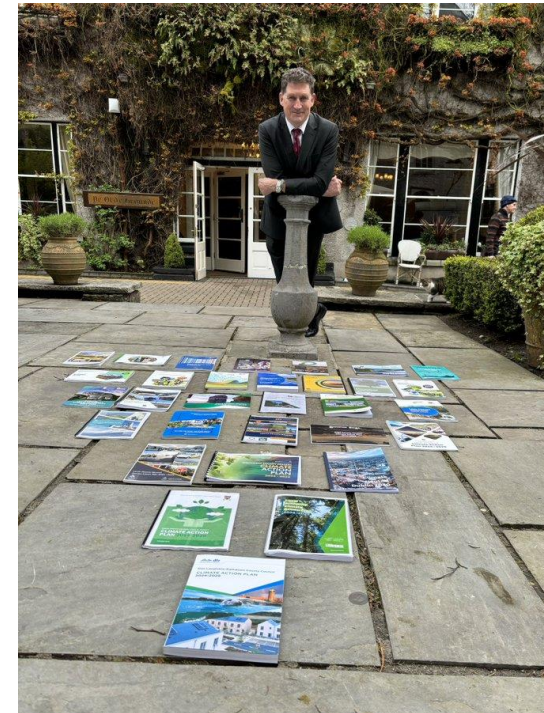
4 CARO regions

3,919 actions

395 stakeholders

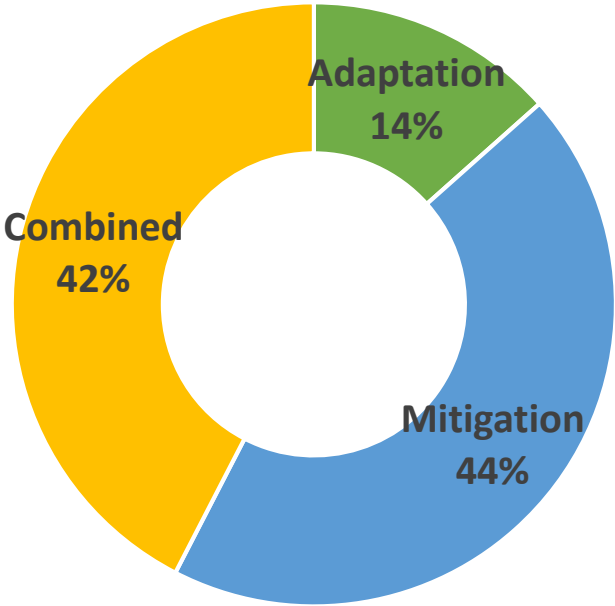
57 themes

25 sectors

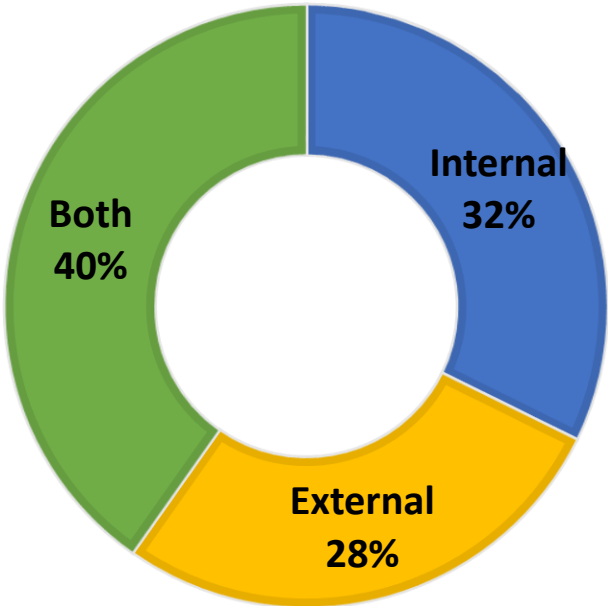


LACAP - Overview

Adaptation / Mitigation



Internal/External

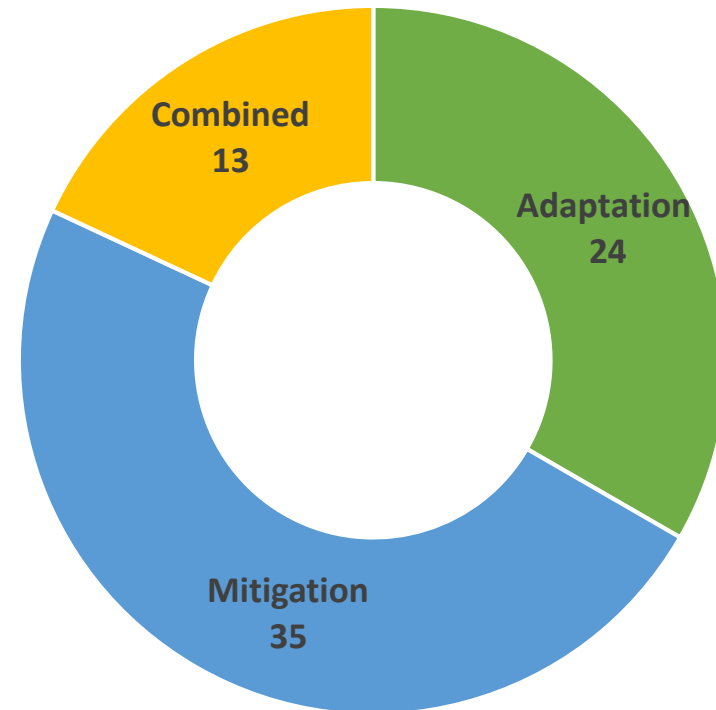


LA CAP: Roads Actions

3,919 LA CAP actions

72 Road-related actions

Roads Actions



LA CAP: Adaptation Actions

Bridge Repair Programmes (6LAs)

Control Parking/facilitate modal shift

Continue to deliver Restoration Improvement (RI)
Restoration Maintenance (RM) programmes

Review Winter Maintenance approach

Footpath maintenance

Drainage

Implement Climate Adaptation Strategy

LA CAP Mitigation Actions

Explore new Low Carbon materials

Explore cold recycled mixes / RAP

Identify areas for road space reallocation

Use of HVO in Road Fleet

Maintain a high standard of active travel routes by use (cleaning/Maintenance)

Review roundabouts for improvements: Consider Dutch style cycle lanes

Increase planting on roundabout centre

Speed limit review - 30km/hr on roads

LA CAP Combined Actions (Mitigation/Adaptation)

Undertake Risk Assessment on Climate Impacts

Explore ways to minimize expected increase in maintenance

Install sensors to gather active travel use

Incorporate Active travel measures into road improvement schemes

Implement alternative treatments for winter maintenance.....respond to weather warning appropriately

Increase planting on roundabout centres

Speed limit review – for safety & emissions

Participate in Rehabilitation of roads over peat working group



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Thank You

Questions to be entered through SLIDO when entering your question please direct it to **Kevin Motherway** and they will be addressed at the end of the session:

Slido.com and enter 5812867
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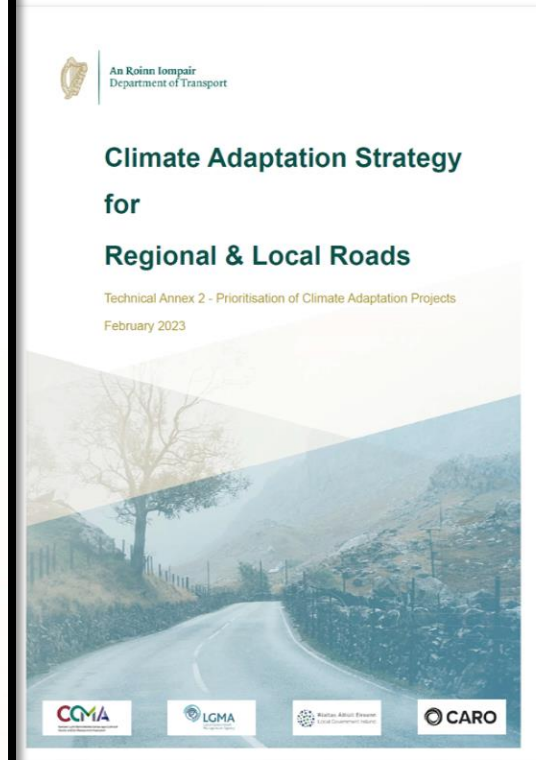
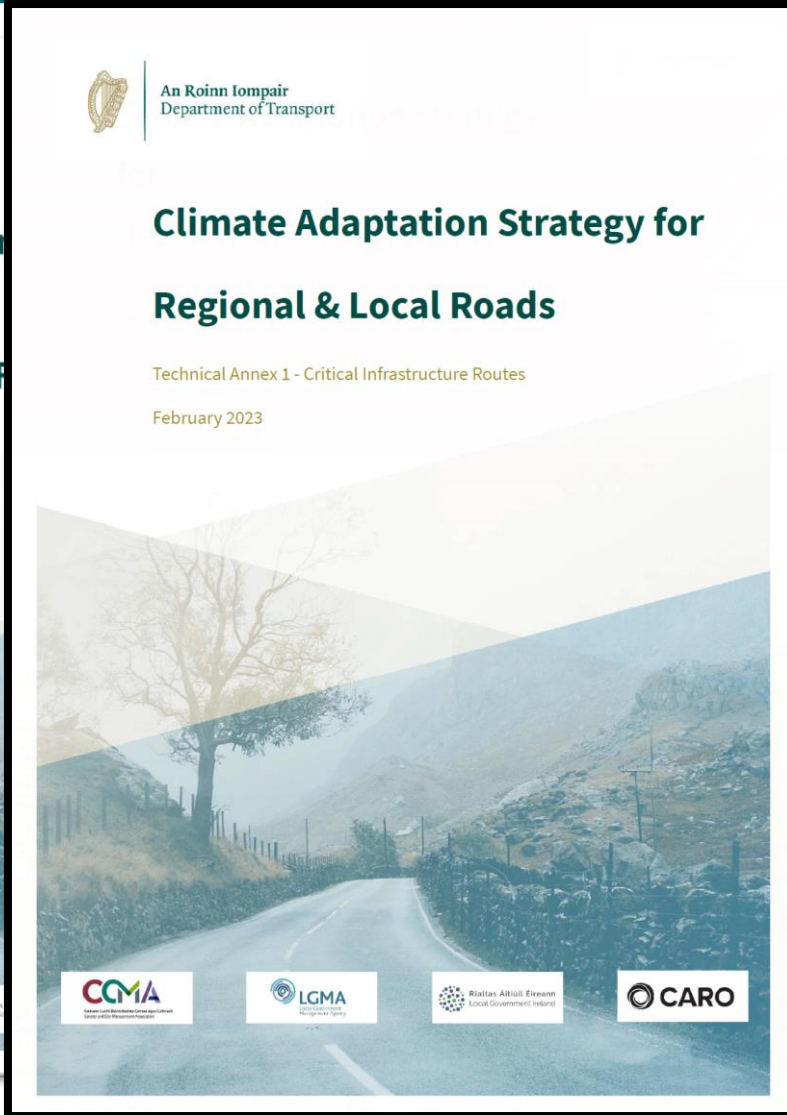
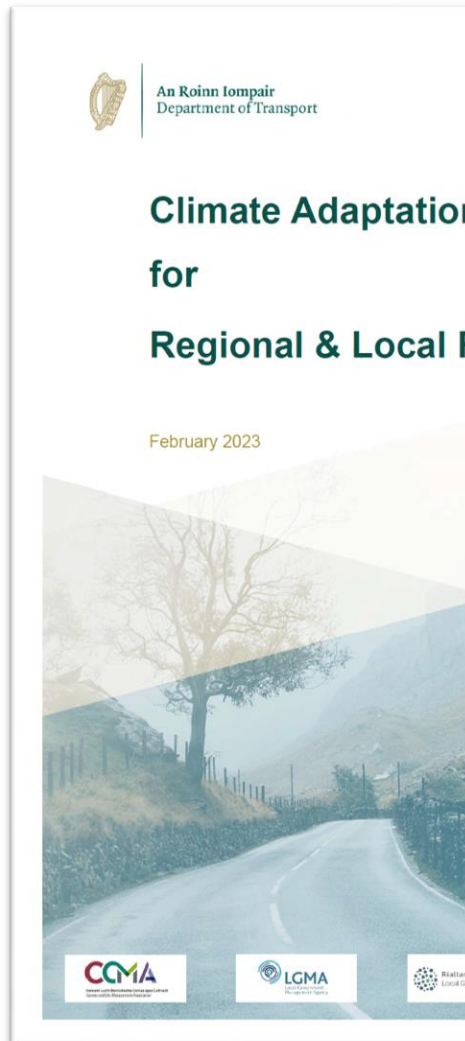


Climate Adaptation Strategy for Regional & Local Roads

Technical Annex 1

Critical Infrastructure Routes (CIR's)

Brian Cross
Senior Executive Engineer
Dept of Transport Support Office



Action Responses

Action 1 Drainage

Action 2 Climate Adaptation added Roads Asset Guidance

Action 3 Climate Adaptation added to Bridge Guidance

Action 4 Geotechnical Assets & Climate Adaptation

Action 5 MapRoad AMS & Climate Adaptation

Action 6 Vulnerability Mapping

Action 7 Identify Critical Infrastructure Routes (CIR)

Action 8 Climate Adaptation Prioritisation Methodology

Action 9 Monitor & Review



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What are Critical Infrastructure Routes ?

Answer CIR's

*Critical Infrastructure Routes are those parts of the Regional and Local road network which are of **greatest importance** from a social, economic or emergency response perspective.*

Critical Infrastructure Routes Technical Annex 1

'Greatest Importance' ?

Strategic Facilities and the Methodology

-  Hospitals
-  Airports/Airstrips
-  Electricity Generation
-  Fire Stations
-  Food Distribution Centres
-  Ports and Fisheries
-  Coastguard & Lifeboat Stations
-  LA Maintenance Depots



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Critical Infrastructure Routes with Strategic Facilities



**CIR's
Regional &
Local Roads**



**Motorways and National Roads
#Regionals**



CRITICAL INFRASTRUCTURE ROUTES IDENTIFIED IN CO. GALWAY			
No Identified	30	Approx. Total Network Length	6926 km
Total Length	131.90km	Approx. % of Network identified as CIR's	1.90%



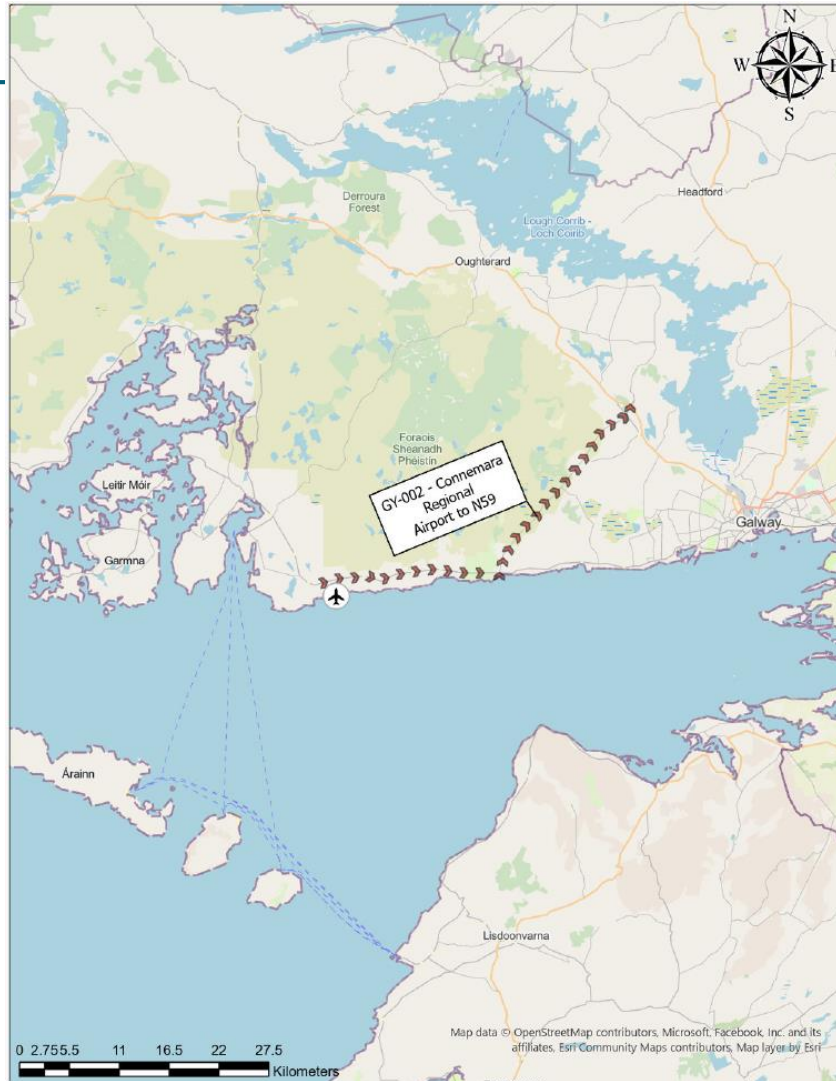
CIR's Identified Pilot Counties

CRITICAL INFRASTRUCTURE ROUTES IDENTIFIED IN CO. CLARE			
No Identified	21	Approx. Total Network Length	4387 km
Total Length	78.89 km	Approx. % of Network identified as CIR's	1.80 %




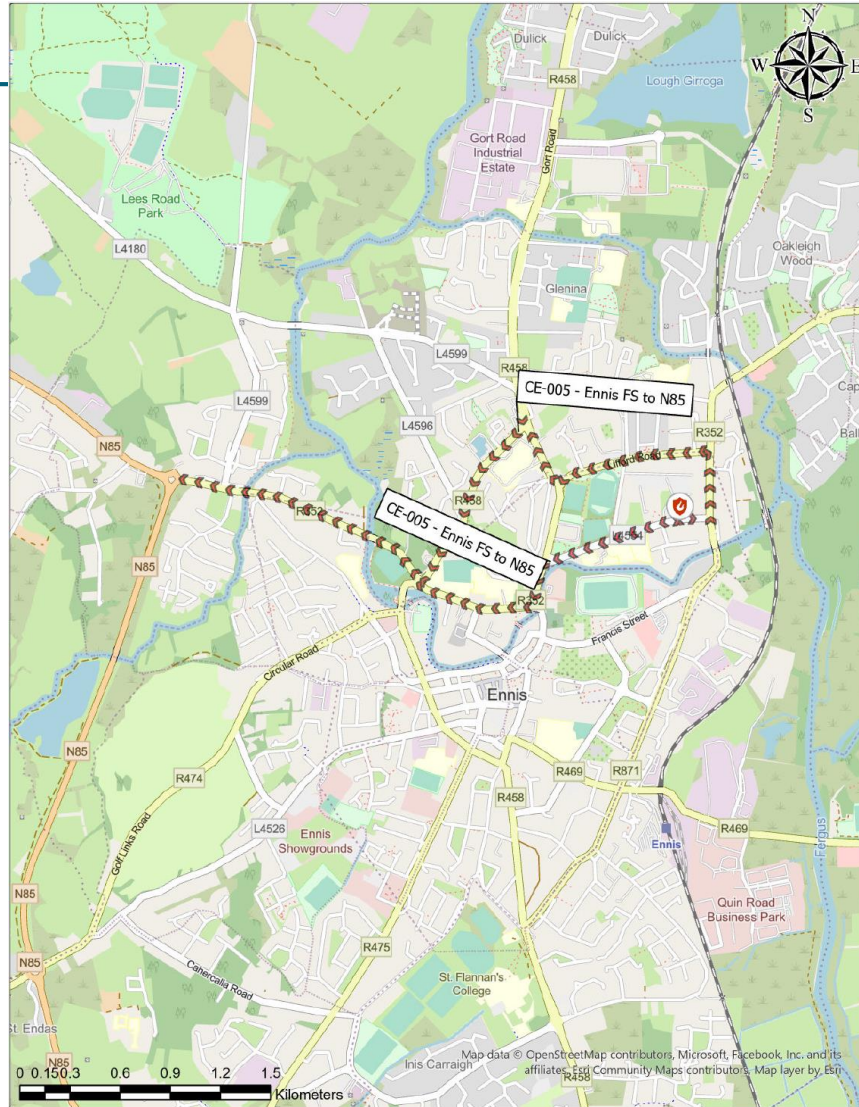
CRITICAL INFRASTRUCTURE ROUTES IDENTIFIED IN Fingal County Council			
No Identified	9	Approx. Total Network Length	1562 km
Total Length	7.78 km	Approx. % of Network identified as CIR's	0.50%







Easy one ? Connemara Airport to N59

 An Roinn Iompair Department of Transport	Galway County Council	Route No: GY-002	
	Critical Infrastructure Routes	Length: 26.97km	
	Date: April 2024	Roads in Route: L-5207 (LS), R336 L-1320 (LP), L-1313 (LP)	

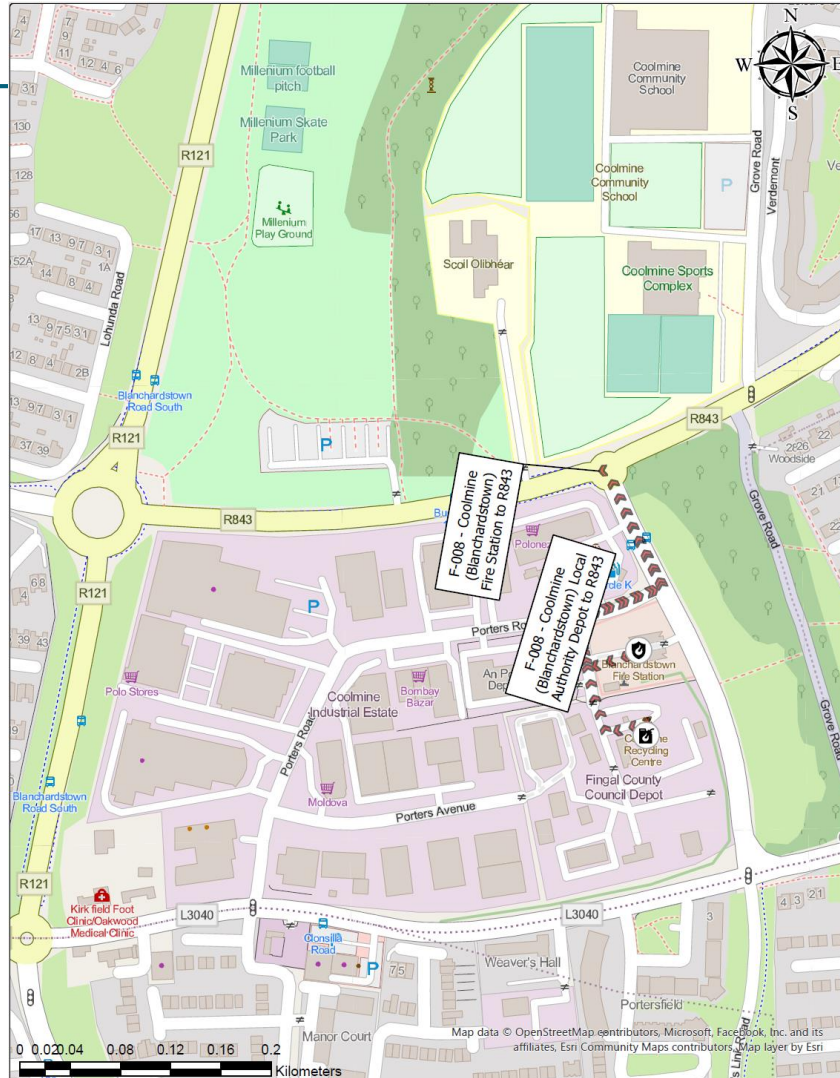


Multiple, Ennis County Clare

 <p>An Roinn Iompair Department of Transport</p>	Clare County Council	Route No: CE-005	
	Critical Infrastructure Routes	Length: 3.86km	
	Date: March 2024	Roads in Route: R463	



Fingal, 290m



<p>An Roinn Iompair Department of Transport</p>	Fingal County Council	Route No: F-008	
	Critical Infrastructure Routes	Length: 0.29km	
	Date: March 2024	Roads in Route: L-30610 (LT), L-7061 (LS)	



What Next

- Booklets of CIR's are being issued to each LA Review
- Forward corrections back to DoTSO as per the email instructions
- CIR's proposed to be part of the MapRoad AMS

Funding

Refer to Technical Annex 2 – Prioritisation of Climate Adaptation Projects

Text goes here





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Session 4-Green Public Procurement & Nature Base Solutions

Chair Marcus O'Connor

16.00-16.20	Green Public Procurement	Aoife Sugrue - Cork County Council
16.20-16.40	Nature Based Solutions	Averil Gannon - DHLGH

Join the Q&A session at [Slido.com](https://www.slido.com) and enter 5812867
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