



An Roinn Iompair
Department of Transport



Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

ROADS Services Training Group

LOCAL AUTHORITY ROADS CONFERENCE and EXHIBITION - 2023

Day 1 Session 4 Presentation 1

Hodson Bay Hotel Athlone, May 2023

Green Public Procurement Pilot Project

John Slattery
Senior Engineer
Cork County Council

Aoife Sugrue
A/Senior Executive Engineer
Cork County Council



Our Climate is Changing.....

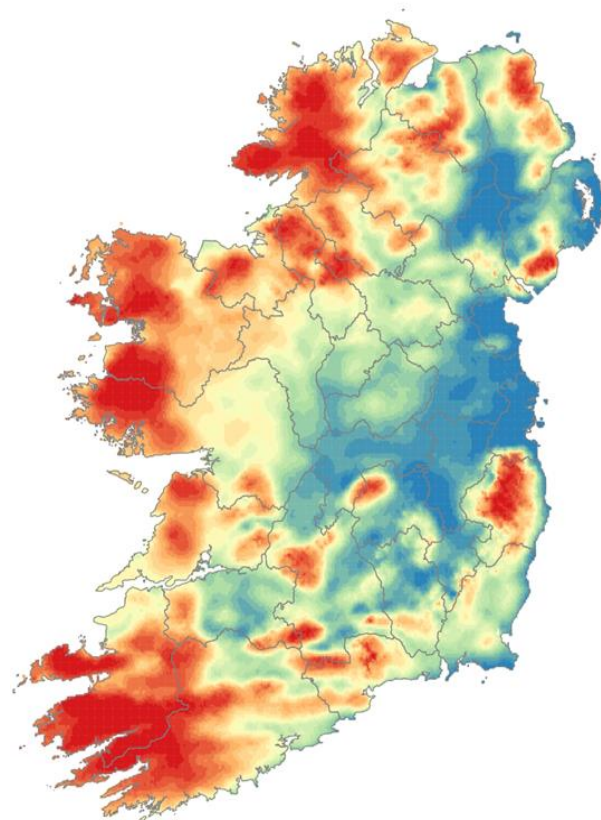


.....& Impacting our Road Network



Introduction

- **Cork County** - 12,000KM roads (12% of national road network)-climate, coastline etc
- **2023 DOT Funding-** €72M R&L Roads
- **CARO-** Cork County Council Lead Authority in ASBS Region
- **RMO-** Cork County Council is the Lead Authority for the South-West Region in the Public Lighting Energy Efficiency Project
- **2020 DOT Funded Project-** Cork Co Co & CARO Prioritisation Methodology for Climate Change Adaptation and Resilience Works
- **Strongly Positioned to Lead Pilot Project on GPP & Carbon Reduction of Road Maintenance**





Pilot Project Alignment with National Objectives

Memorandum on Grants for Regional & Local Roads

- Pilot projects that contribute to climate adaptation & sustainable road networks
- Projects that adapt current standards & practices to achieve sustainable outcomes
- Projects that are achieved at a reasonable cost & reduced carbon footprint

National Development Plan

- Investment targeted at improved road network to ensure connectivity between communities
- Social and economic development achieved in a sustainable manner

Climate Action Plan

- 51% GHG reduction by 2030 for Public Bodies & Transport Sector-**Net Zero** by 2050
- Inclusion of GPP in public contracts- Specify 'low carbon construction methods'



Balancing Act

Roads Maintenance

- Maintenance Responsibility
- Social & Economic Development
- Connectivity



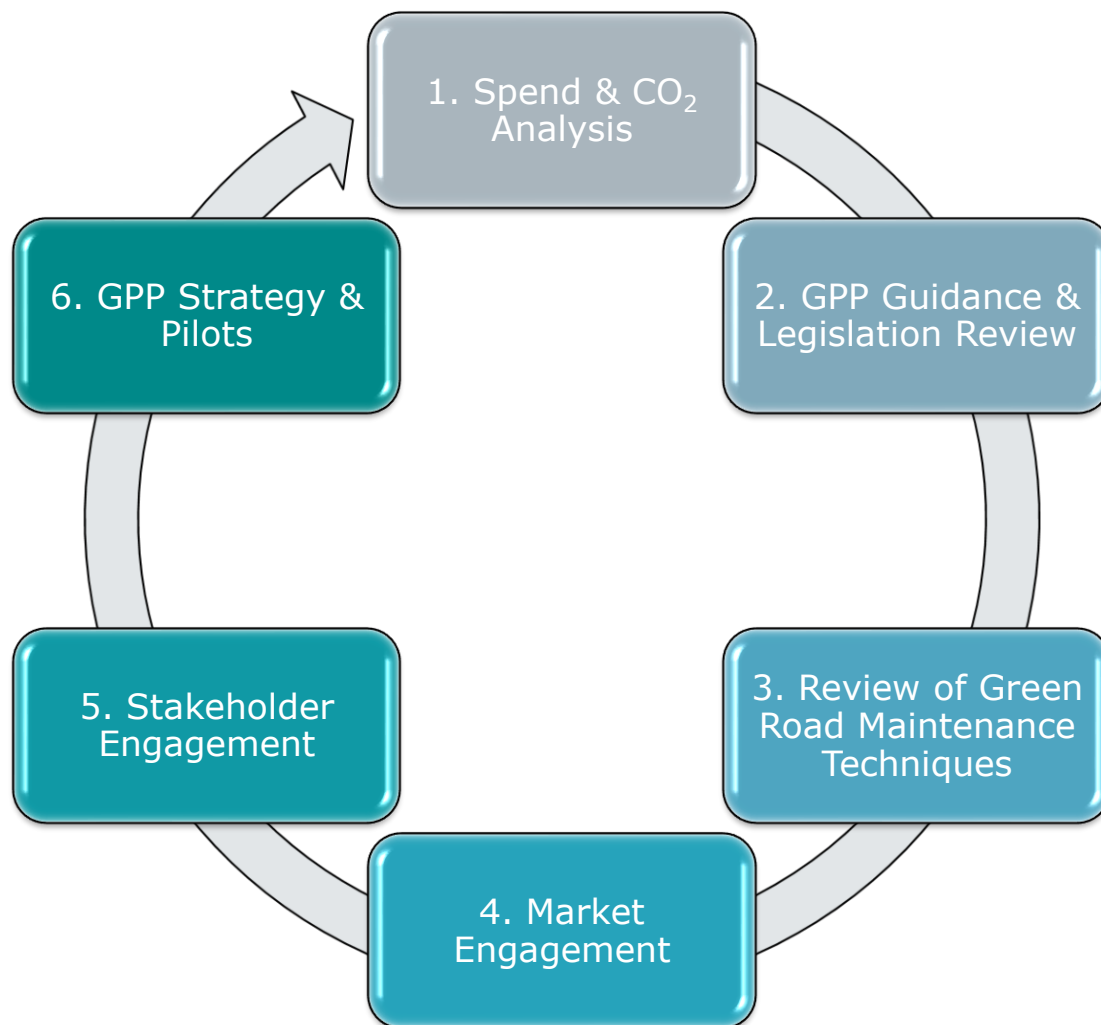
Climate Action

- Climate Targets
 - ✓ 51% by 2030
 - ✓ 100% by 2050
- Climate Charter
- GPP Commitments

€ Value for Money €



GPP Pilot Project Outline: Six Work Packages





Work Package 1: Spend & CO2 Saving Analysis

Overall Spend Analysis – DOT Funding Streams

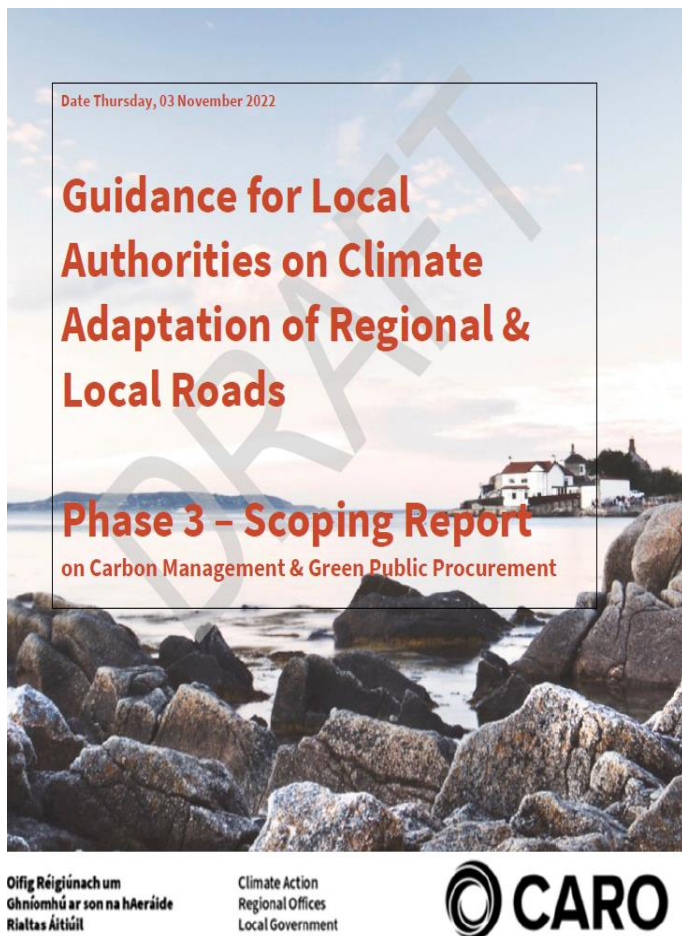
Identify optimum areas to introduce GPP

Case Studies : RAP, In-situ Recycling, Micro Surfacing etc





Work Package 2: GPP Guidance & Legislation Review



- Review of existing Irish/EU/International GPP legislation and guidance (to augment CARO report)
- Assess where such requirements are to be implemented into roads programmes





Work Package 3: Review of Green Road Maintenance Techniques

Example Research Areas:

In-Situ Recycling

Ex-Site Recycling (RAP)

Warm Mix Asphalt

Cold Mix Asphalt

Micro-surfacing

Preservation Techniques (Micro-texturing)

Maintenance Techniques

Use of Recycled Materials





Work Package 4: Market Engagement

Engage with suppliers and contractors to:

- Determine availability of green solutions and
- Identify methods to incentivise 'greening' of the market





Work Package 5: Stakeholder Engagement

DOT, CARO, TII, LGOPC, CCC Projects Office,
OPC, RMO etc



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Monthly CARO Meetings to ensure alignment
of both work programmes



Research maintenance techniques in other
LAs & other jurisdictions



Liaise with CCC Area Engineers & Climate
Action Team



CCC Roads Maintenance
Working Group

Engage with Academic Institutes and
Research Bodies regarding similar projects



EU Projects- Funding Options





Work Package 6: Pilot Project & GPP Strategy

CCC Road Maintenance Working Group Established

Investigate cost efficiencies and CO₂ reduction associated with Road Maintenance

2023 Objective:

Pilot road maintenance & improvement contracts with GPP elements and document learnings

2023 RI Contract- To include 5% marks for 'Green Elements' (RAP/EMS etc)

2023 In- Situ Recycling Contract to double (8 roads)

Pilot Micro -surfacing contract in 2023



Work Package 6: Pilot Projects & GPP Toolkit Development

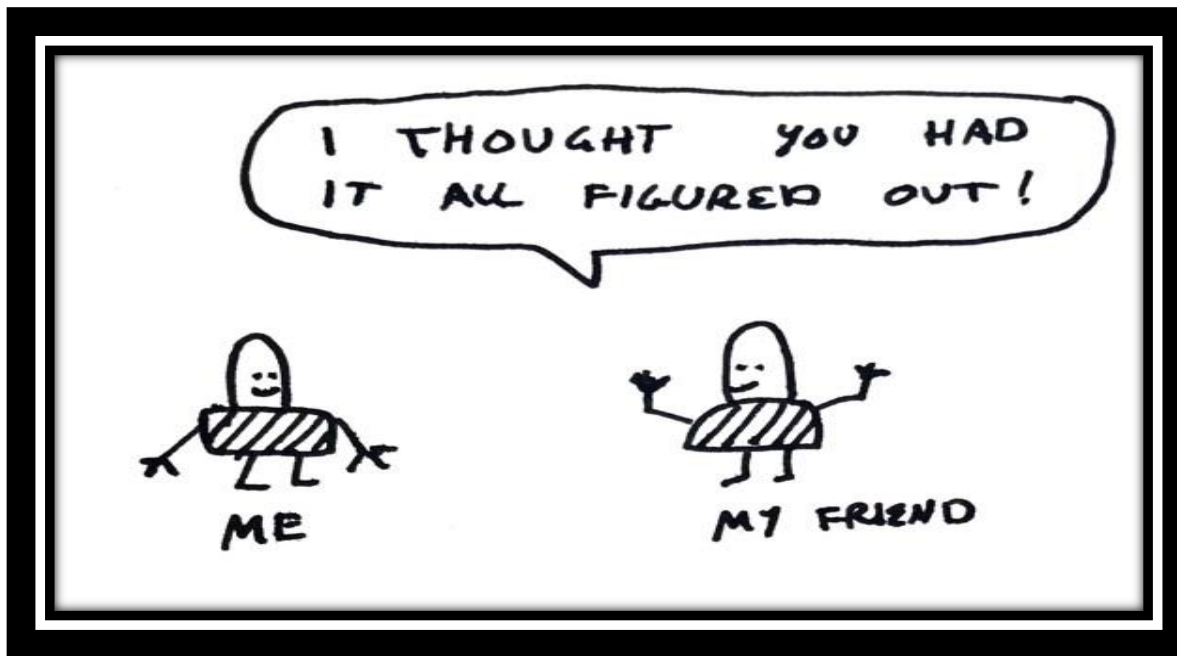
Project Outcome:

A suite of workable solutions for Local Authority engineers appropriate to the PSCI rating of the road network

Informed by:

- Case Studies/Experience from other LAs
- Stakeholder & Market Engagement
- Academic Studies & Research
- Area Engineering & LA Staff





**We are interested in hearing from Local Authorities
to feed into the Pilot Study**

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Day 1 Session 4 Presentation 2-Kieran Kissane &
David Kelly

Hodson Bay Hotel Athlone, May 2023

Climate Adaptation



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Climate Adaptation

**Development of Guidance for Local Authorities on the
Climate Adaptation of Regional & Local Roads Project**



Kieran Kissane

Atlantic Seaboard South CARO

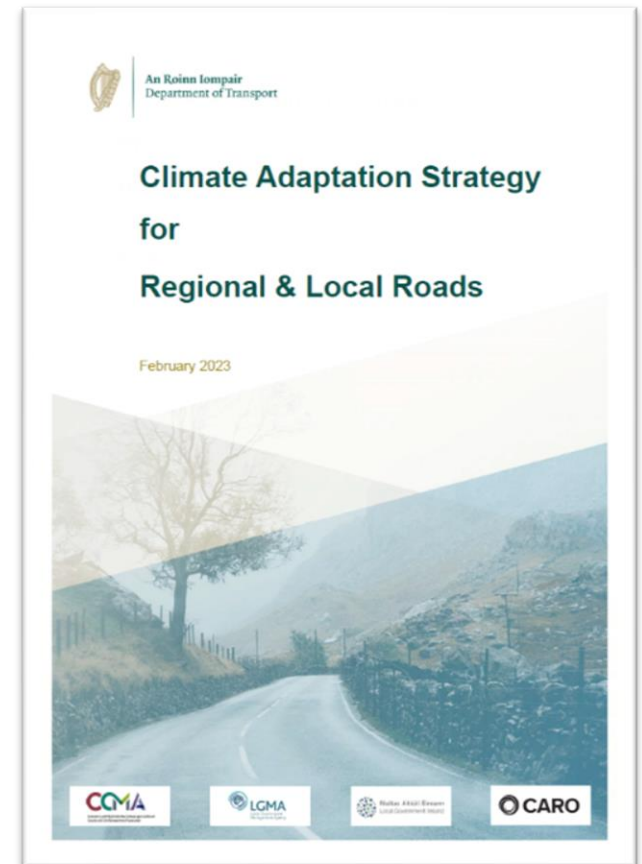
Dave Kelly

Atkins



Content

- **Project Overview**
 - Objectives
 - Current Status
 - Next Steps
- **Climate Adaptation Strategy for Regional & Local Roads –**
published on 21st April 2023 via DoT/
Government Press Release





Project Overview - Objectives

1. Inform Local Authority Roads personnel of the importance of appropriate planning for climate change and implementation of climate adaptation strategies,
2. Develop a range of design, maintenance and rehabilitation strategies and approaches to adapt the Regional and Local Road Network for climate events and reduce the risk of damage and loss of function





Project Overview

Current Status

- Project Background
- LA Engagement and Consultation
- Climate Adaptation Strategy for Regional & Local Roads

Next Steps

- Green Public Procurement
- Green Initiatives - Information Sharing
- Carbon Measurement/Carbon Tool



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Climate Adaptation for Regional & Local Roads

Preparing yesterday's roads for tomorrow's climate

Dave Kelly

Atkins



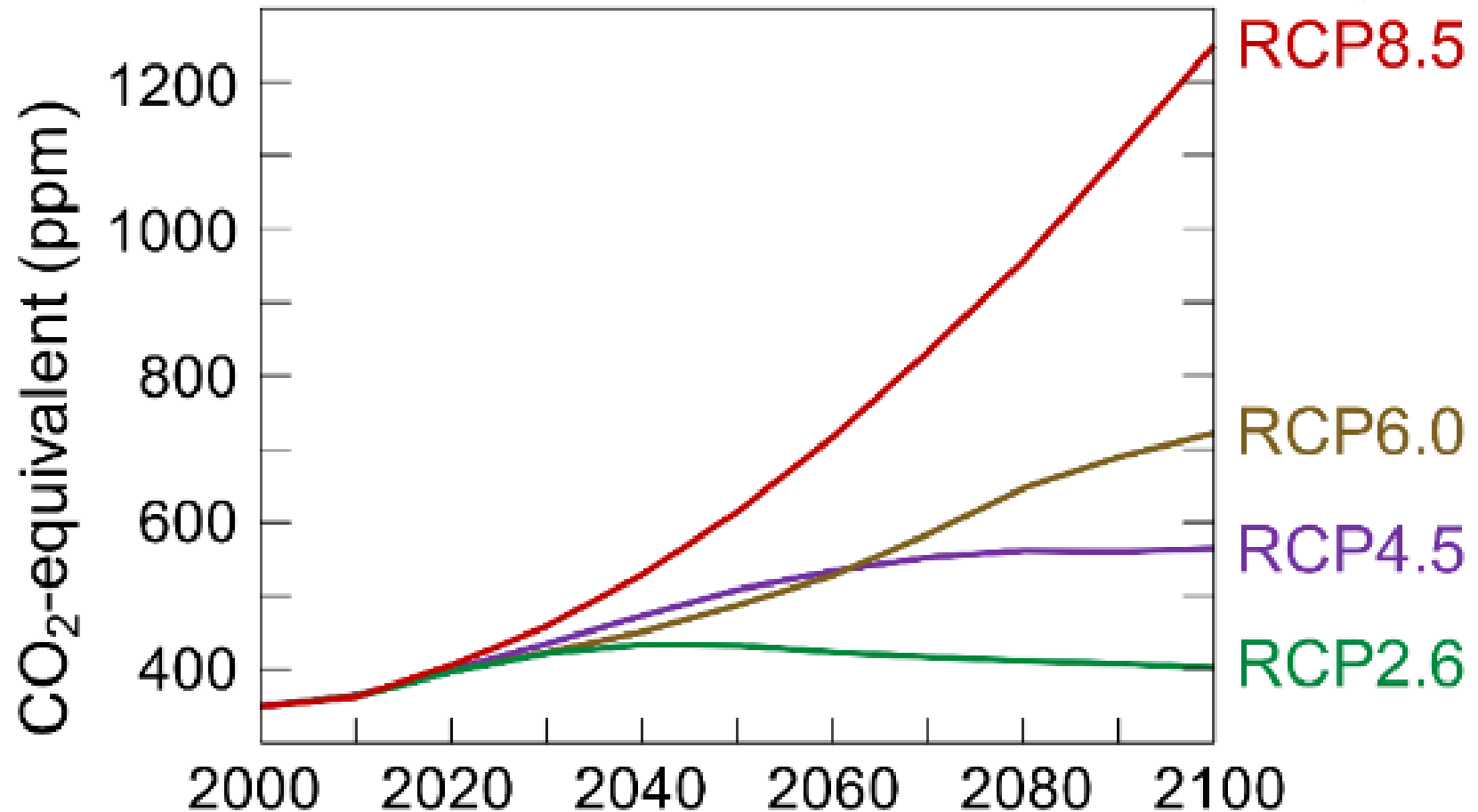
Climate
Mitigation

Climate Adaptation





IPCC Representative Concentration Pathways





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Are Regional and Local roads resilient to the changes that
are expected in Irish climate?



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Research



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Research

Asset
Management



Design
Standards

Prioritising
Projects



Real
Failures



Project Approach

1. Failure types
2. Climate change
3. Compare
 - a) Worse
 - b) Better
 - c) No change
4. Update existing guidance?
5. Update MapRoad / existing Works Prioritisation



Strategy Document

1. Consultation
2. Published in April 2023
3. Summary
 - a) Existing approach is strong
 - b) Strengthen some areas
 - c) Addendum to existing guidance
 - d) New guidance for Geotechnical Assets
 - e) Update MapRoad
 - f) Works Prioritisation
 - g) Critical Infrastructure Routes



Impact on Local Authorities

1. Climate Adaptation Addenda (Drainage, Pavement, Bridges)
2. Guidance for Maintenance of Geotechnical Assets
3. Works Prioritisation – align with MapRoad
4. Critical Infrastructure Routes



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Thank You



Kieran Kissane

Atlantic Seaboard South CARO

Dave Kelly

Atkins



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RSTG Conference 2023 9th May - Day 1
9th May - Day 1
Networking \ Exhibition & Coffee Break

Gala Dinner 19.00 pm

Note: Shuttle from leaving the Sheraton at 6.30pm and returning from the front of this building to the Sheraton at 12.00am.

The first session tomorrow(10th May) starts at 9.40am
Day 2 Session 1 Public Spending Code, Office of Government Procurement & National Development Plan Case Study

Chair Catherine Duff

1st Public Spending Code & Transport Appraisal Framework- Kevin Threadgold

2nd Contract Documentation- Charles Mitchell

3rd Athy Distributor Road- Daragh Conlan & Richard Spencer