



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 2 Presentation 1 Henry Spratt & Michael
Foley

Hodson Bay Hotel Athlone, May 2023



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County and City Management Association

LOCAL AUTHORITY ROADS CONFERENCE and EXHIBITION – 2023

Capturing & Managing MapRoad Public Lighting (MPL) Infrastructure to Support the PLEEP PL Contracts

Henry Spratt
Project Manager
Road Management Office

Michael Foley
Senior Resident Engineer
Public Lighting Energy Efficiency Project (PLEEP) – South West
Region



Do Chomhairle ag túsú arís le h-éirí
ag comhalt na n-áirí
Your Council: lighting our community –
protecting our climate

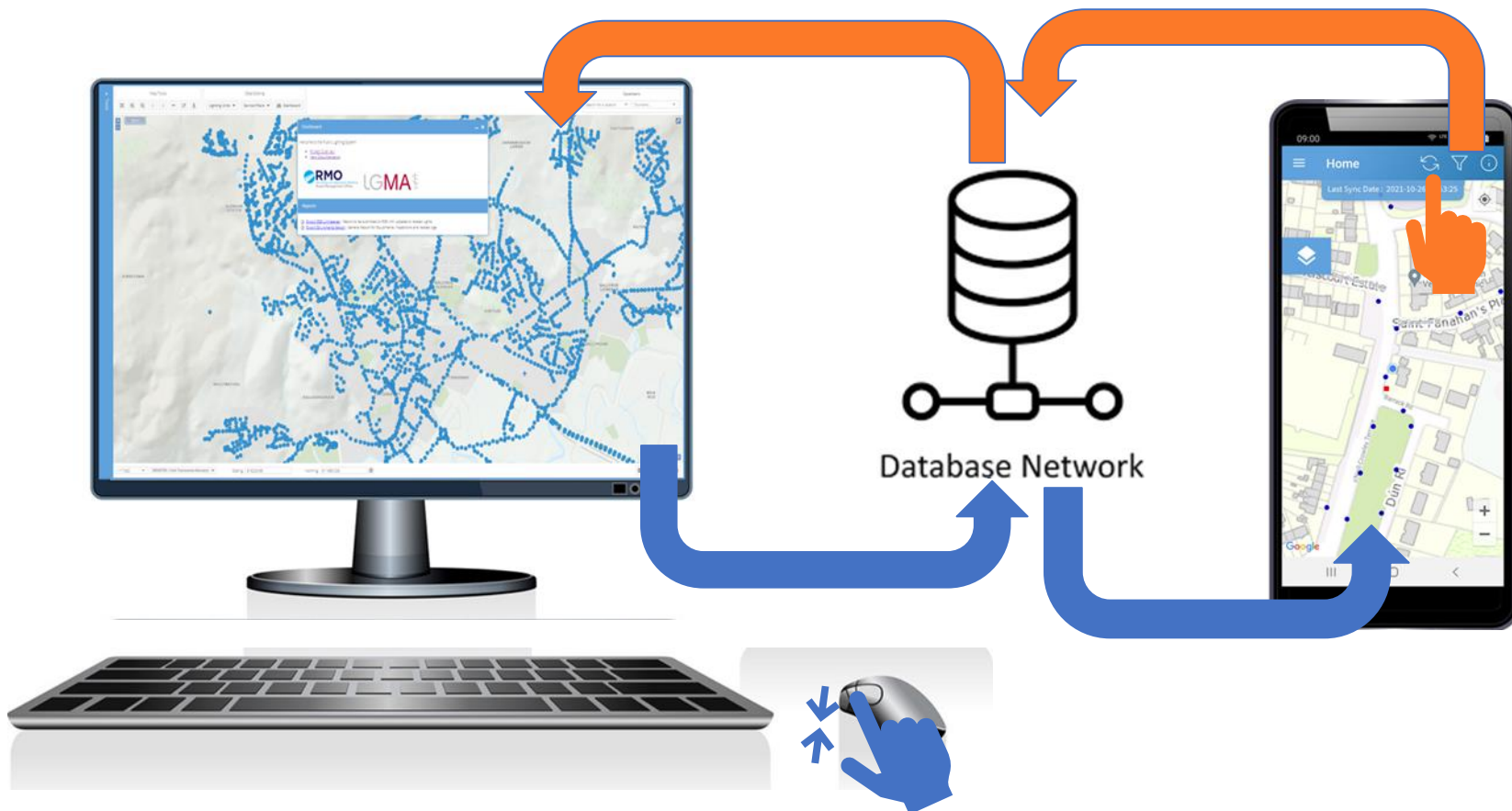


LGMA
An Chomhlacht
Bainistíochta Rialtas Ábail
Local Government
Management Agency



Údaráis Áitiúla Éireann
Local Authorities Ireland







Survey in scope
completed

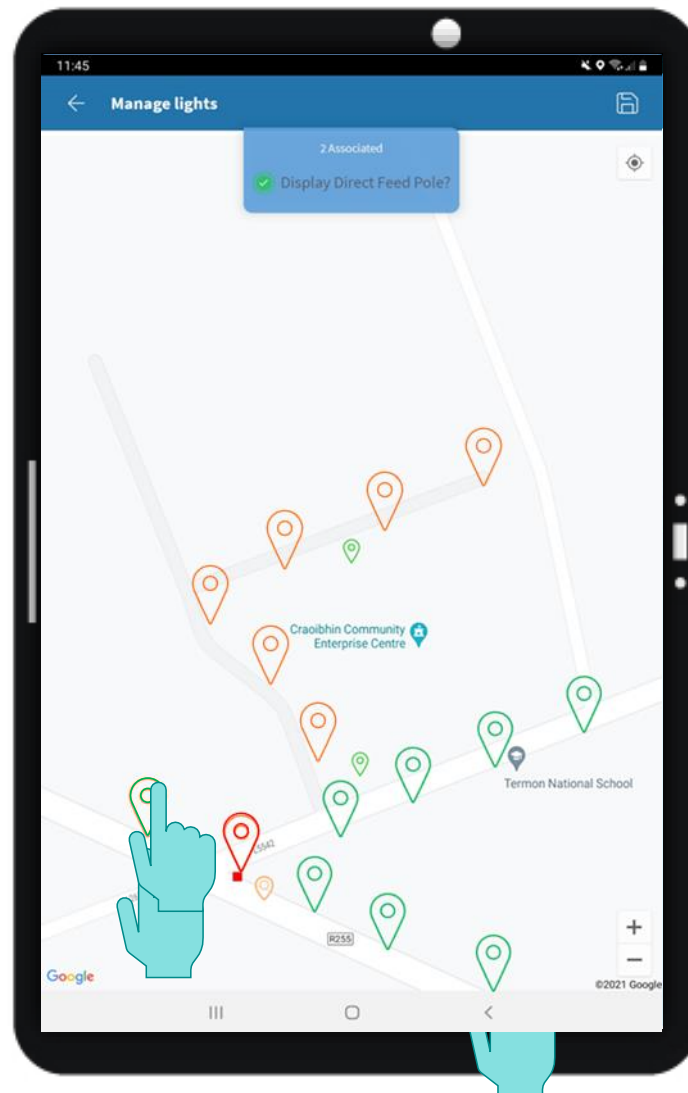


Inventory Data
Condition Rating

Gallery

Delete

Manage Lights

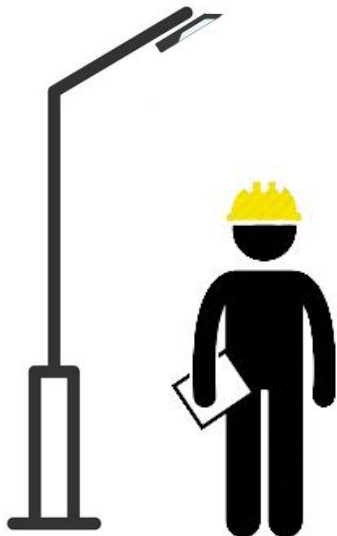




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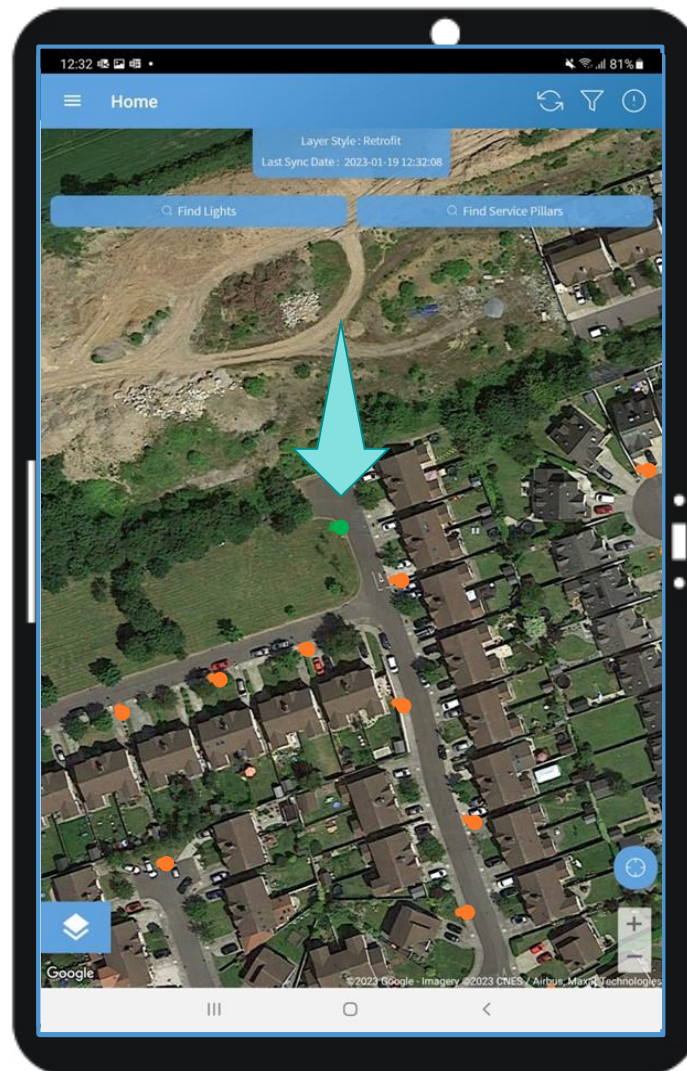
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

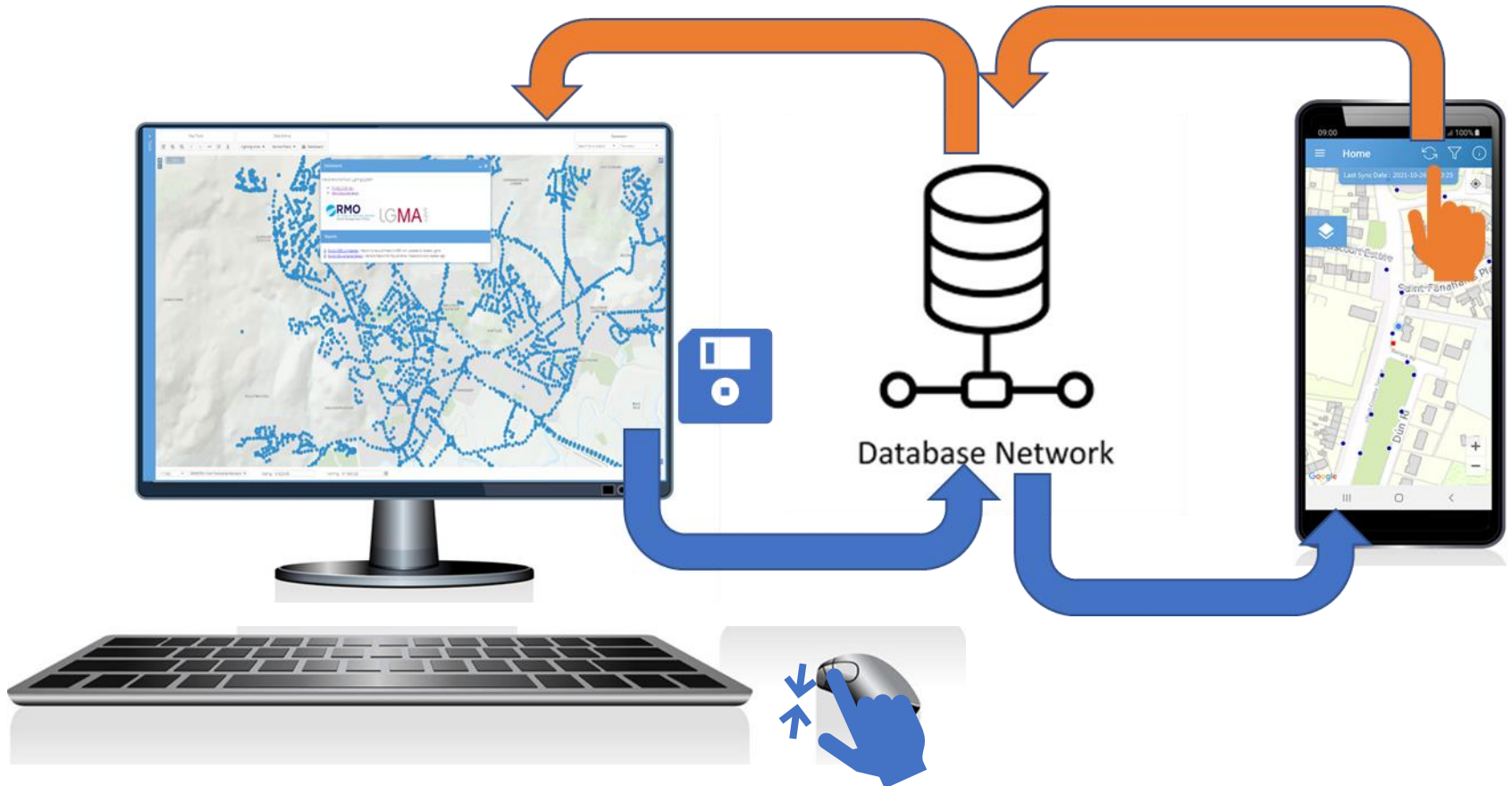


Retrofit in scope
completed



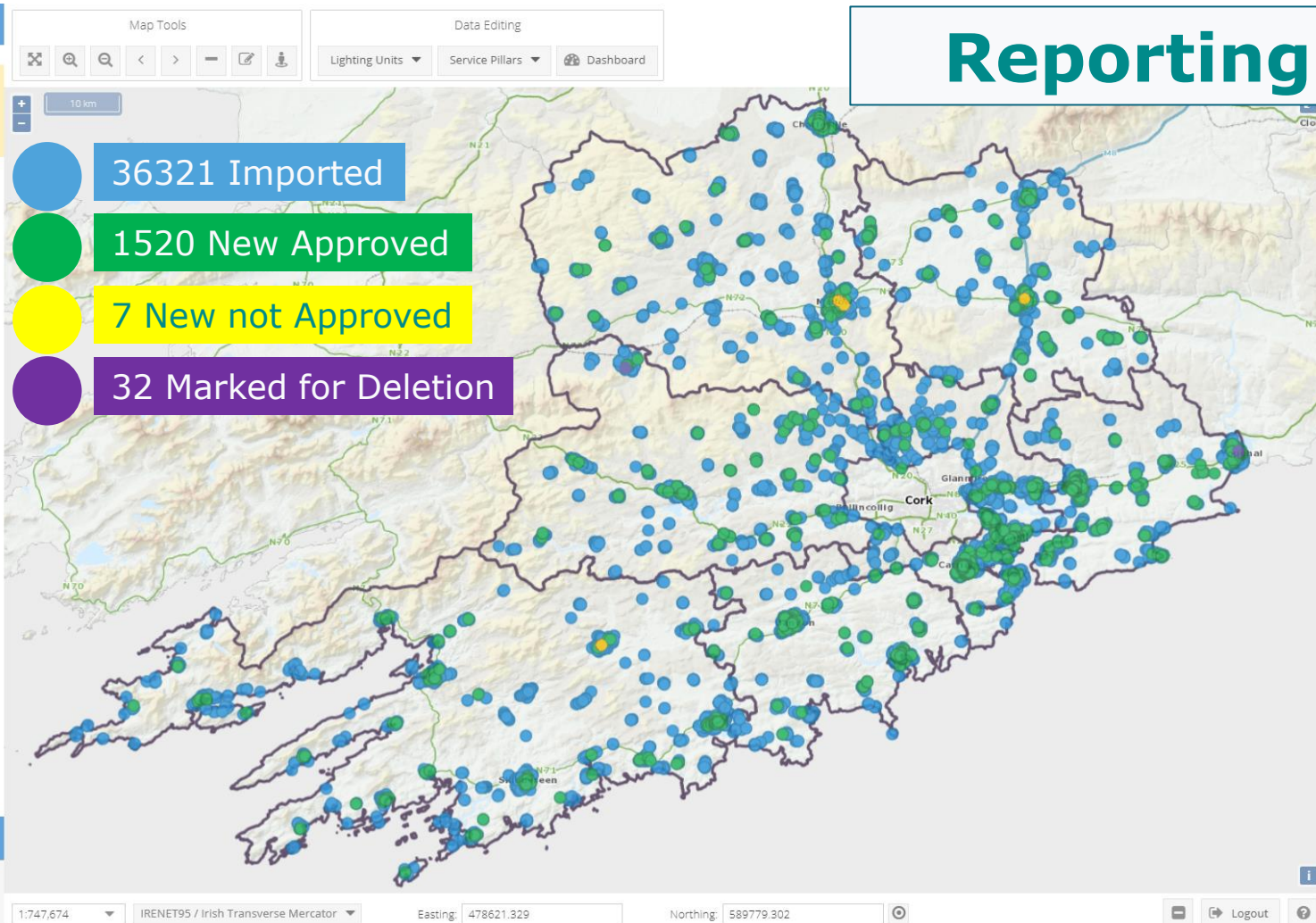
Retrofit





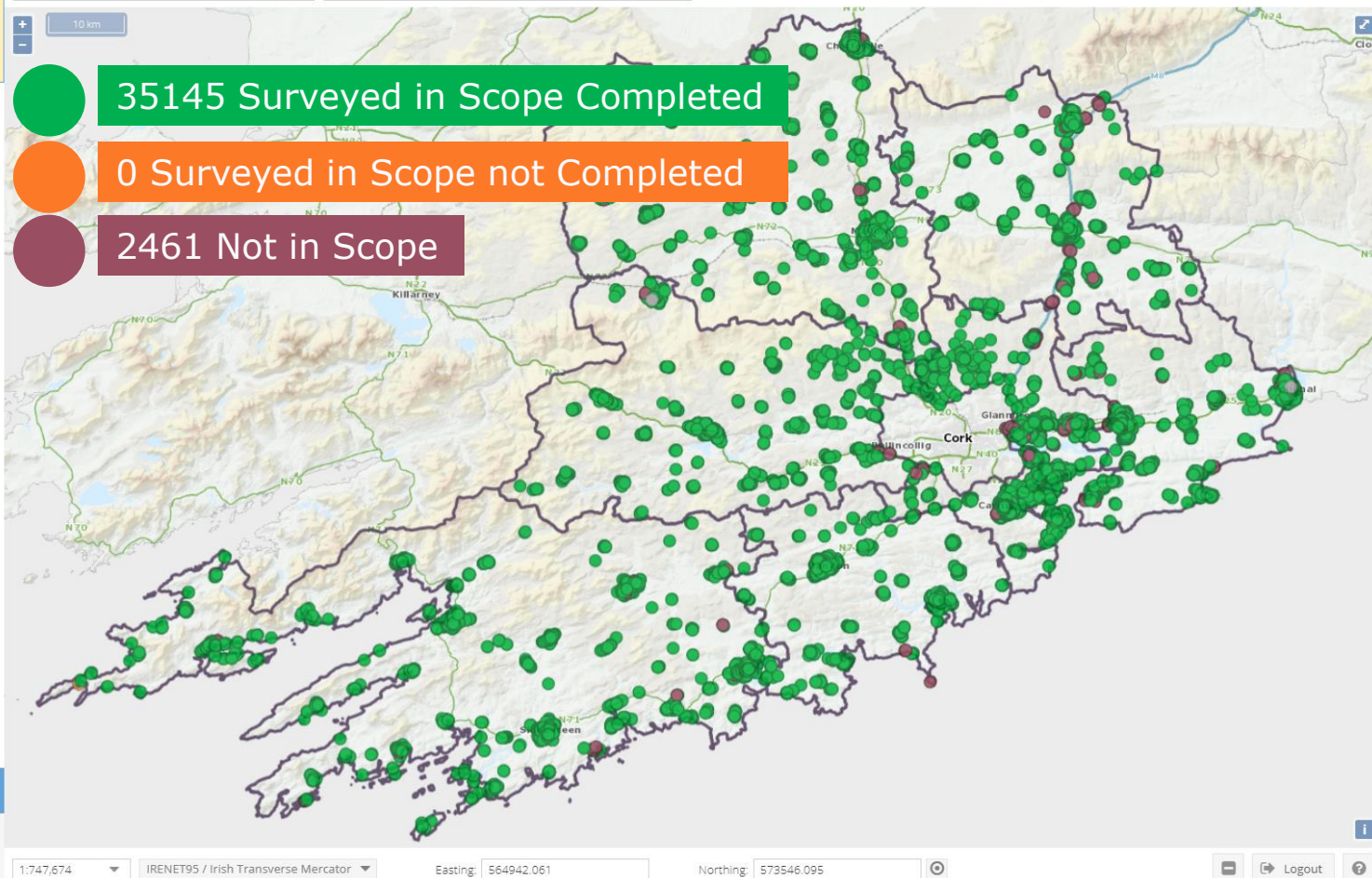


Reporting



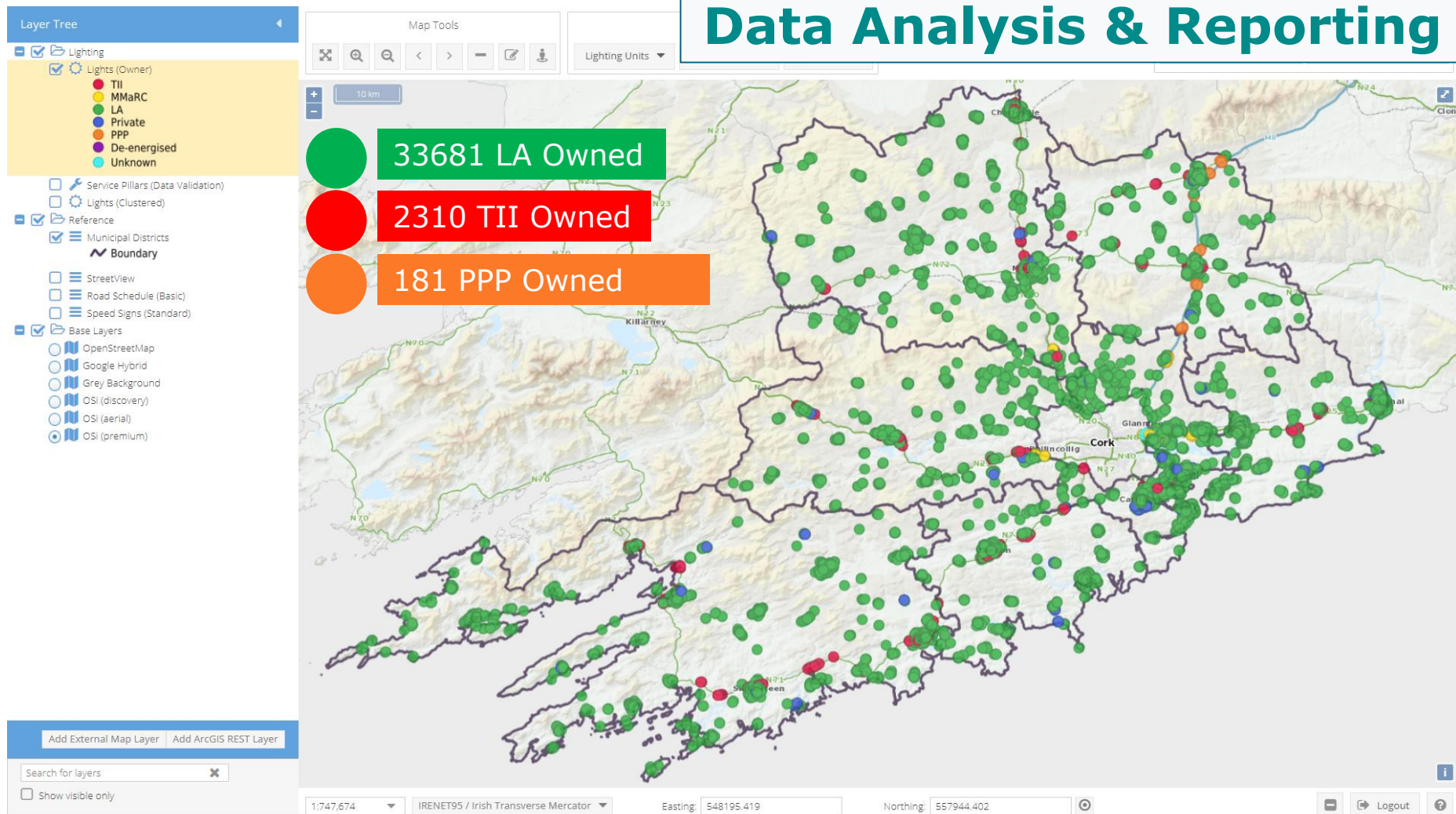


Data Analysis & Reporting





Data Analysis & Reporting





Data Analysis & Reporting

Layer Tree

Map Tools

Lighting Units

Service Pillars

Dashboard

Search for a location

Townland...

100 m

MALLOW

Bowling Green

New Rd

Chapel Ln

R883

Shoulders Ln

William O'Brien St

Carmichael Ln

Thomas St

Saint James Ave

Ball Alley

Mallow Town Park

N72

Lighting Unit

General Inventory Column ESB Network Pole Luminaires* Brackets Condition Rating Inspections Retrofit Files History

Add File

Associate a File with the Lighting Unit - files can only be added after the Lighting Unit has been saved

	Thumbnail	Last Updated	
		08-07-2022	⊖
		08-07-2022	⊖
		08-07-2022	⊖

Delete

Zoom

Refresh

Save

Cancel

Export to Excel

Data Exports

File Type	Column Material
mitting Diode	Steel
mitting Diode	Steel
mitting Diode	Steel
mitting Diode	Steel
mitting Diode	Steel
mitting Diode	Steel
mitting Diode	Steel
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mitting Diode	Steel
mitting Diode	Steel
mitting Diode	Steel
mitting Diode	Steel

1:8,531

IRENET95 / Irish Transverse Mercator

Easting: 556232.2

Northing: 598292.173

Logout



Data Analysis & Reporting

Map Tools: 100 m

Data Editing: Lighting Units Service Pillars Dashboard

Layer Tree

MALLOW

N72

Export to Shapefile

Export to Excel

Municipal District	Owner	Equipment Number	Unit Type		
Municipal District of Fermoy	LA	0541304	Public Light	LED - L	
Municipal District of Fermoy	LA	0541303	Public Light	LED - L	
Municipal District of Fermoy	LA	0541302	Public Light	LED - L	
Municipal District of Bandon - Kinsale	LA	0537983	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0541301	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0525449	Public Light	LED - Light Emitting Diode	
Municipal District of Fermoy	LA	0525450	Public Light	LED - Light Emitting Diode	
Municipal District of Fermoy	LA	0541282	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0541281	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0541280	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0541279	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0541278	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0541277	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0541276	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0541275	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0541274	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0541273	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0536886	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0536885	Public Light	LED - Light Emitting Diode	Steel
Municipal District of Fermoy	LA	0536884	Public Light	LED - Light Emitting Diode	Steel

of 364 | > >> | ↺ | Displaying 1 - 20 of 7277 | ☒ Page Records?

RecordsExport (18).xlsx

Cois na hAbhainne

Northing: 598937.099

Logout



Data Analysis & Reporting

File

Home

Insert

Page Layout

Formulas

Data

Review

View

Automate

Help



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County and City Management Association

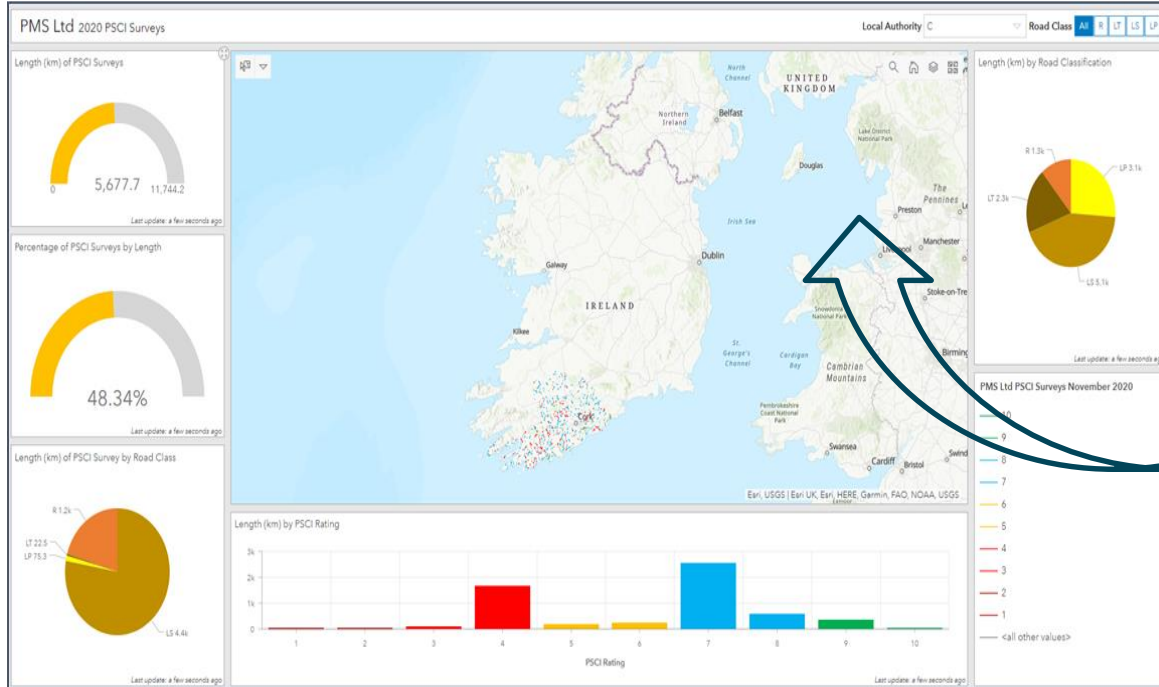
Data Analysis & Reporting



Power BI



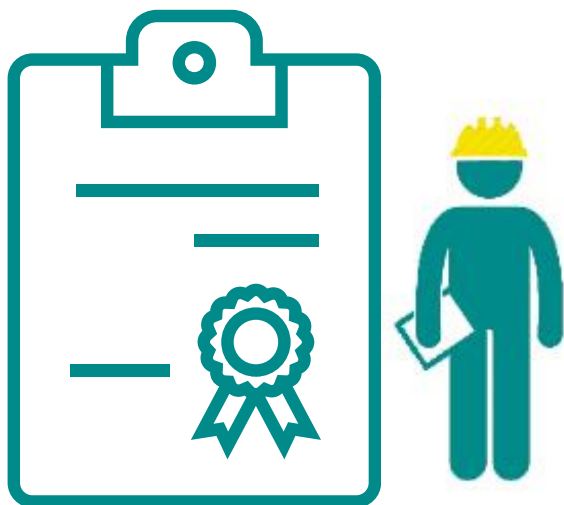
esri
ArcGIS





MPL & Validation

Survey in scope
completed



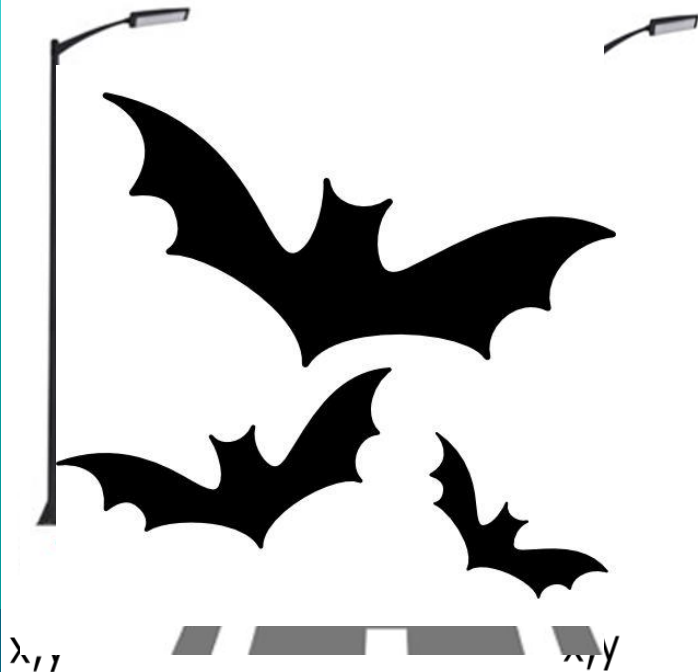


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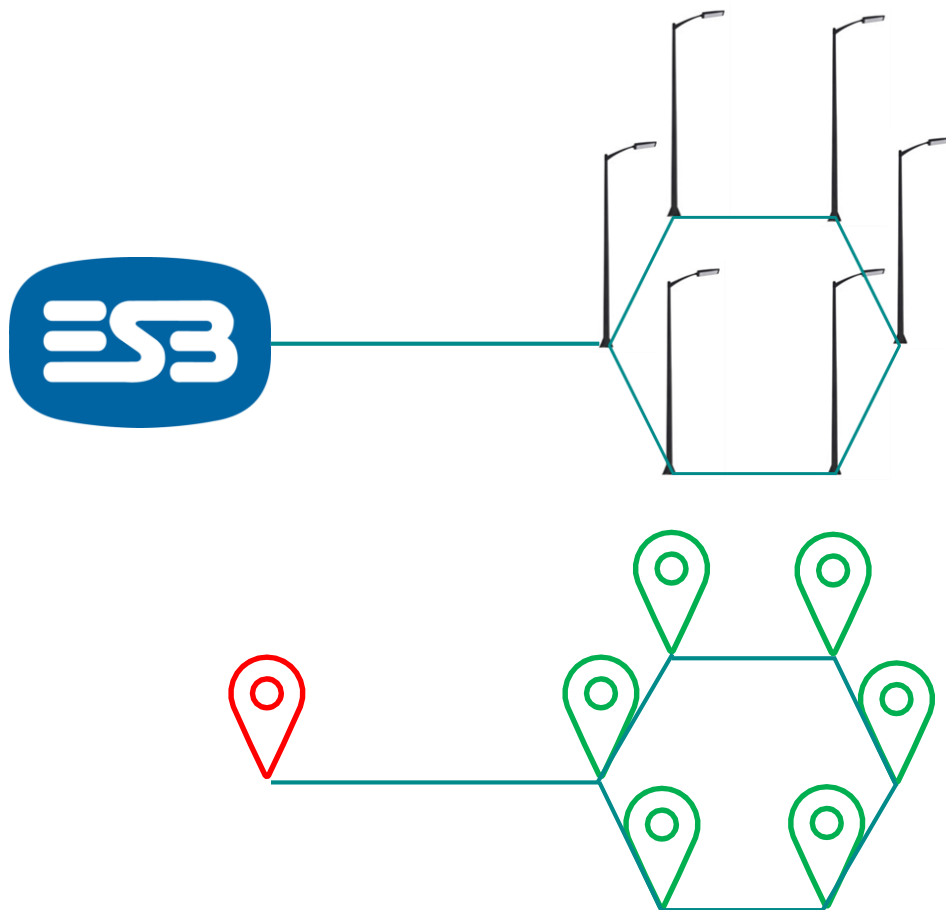
MPL & Design



**Luminaire
Design**

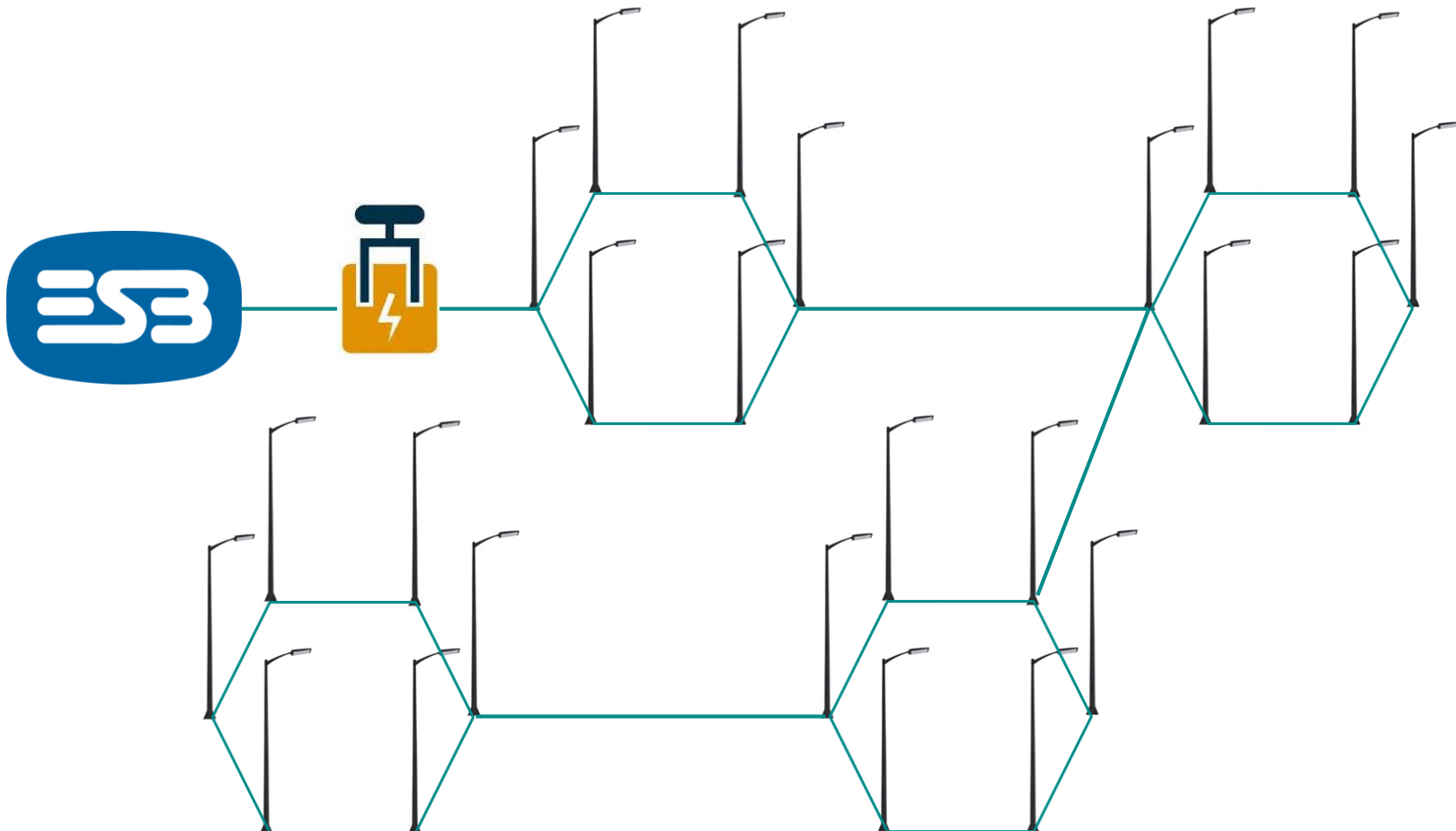


MPL & Unbundling





MPL & Unbundling





Layer Tree

Lighting

Lights (Data Validations)

New

Marked for Deletion

Imported

Approved

Service Pillars (Data Validation)

Lights (Clustered)

Reference

Municipal Districts

StreetView

Road Schedule (Basic)

Speed Signs (Standard)

Base Layers

OpenStreetMap

Google Hybrid

Grey Background

OSi (discovery)

OSi (aerial)

OSi (premium)

Map Tools

Data Editing

Lighting Units

Service Pillars

Dashboard

Gazetteers

Search for a location

Townland...

1000 m

Blarney

Model Village

Carrigrohane

Cork

N20

N22

N27

Add External Map Layer

Add ArcGIS REST Layer

Search for layers

Show visible only

1:54,140

IRENET95 / Irish Transverse Mercator

Easting: 562078.281

Northing: 574767.809

Logout



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Day 1 Session 2 Presentation 2 John Horgan

Hodson Bay Hotel Athlone, May 2023



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**Road openings and Licensing
Delivery of government strategies while protecting the
road asset.**

John Horgan

Road Management Office (RMO)



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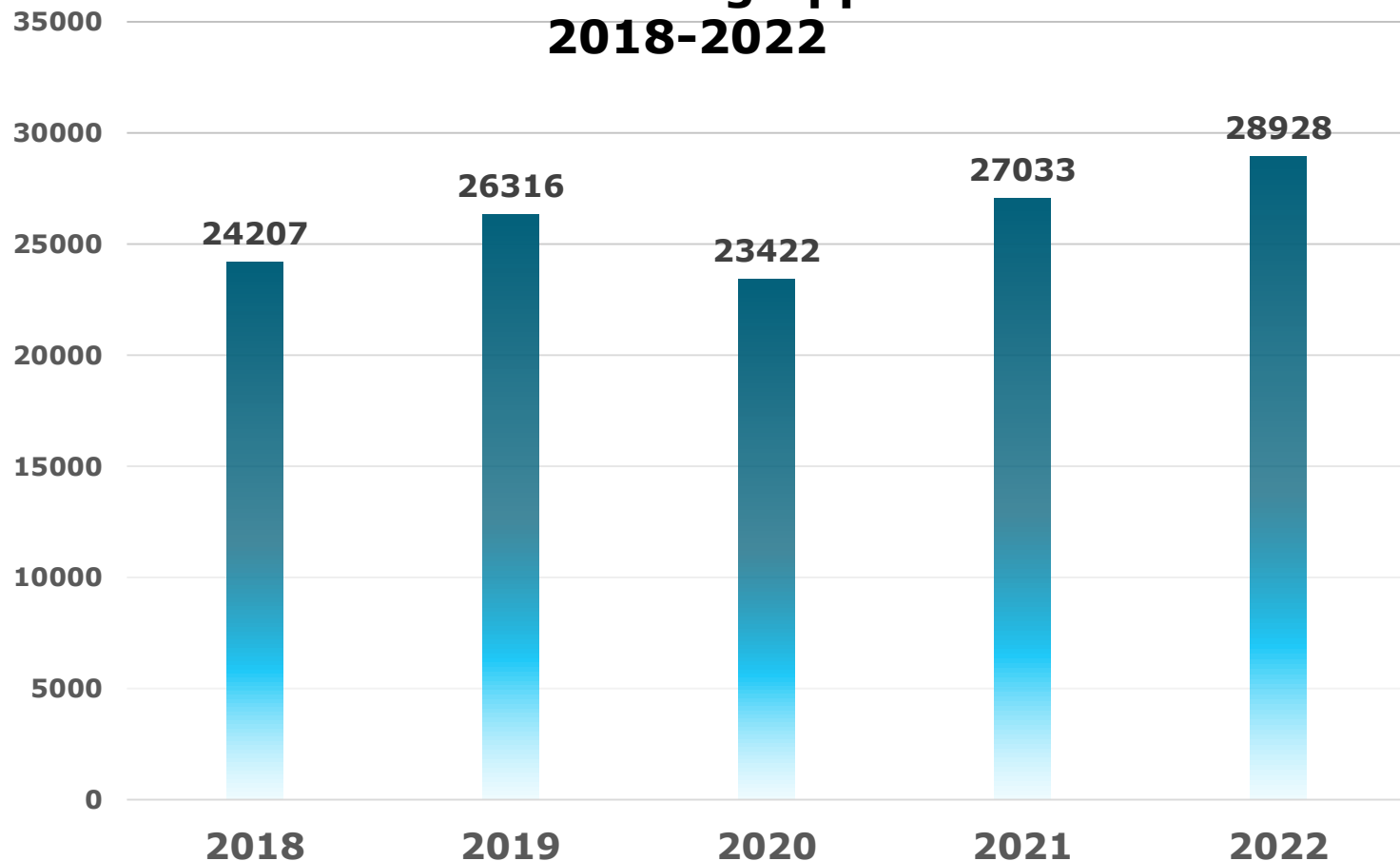
**Road Openings and Licensing -
Delivery of government strategies while protecting the
road asset.**

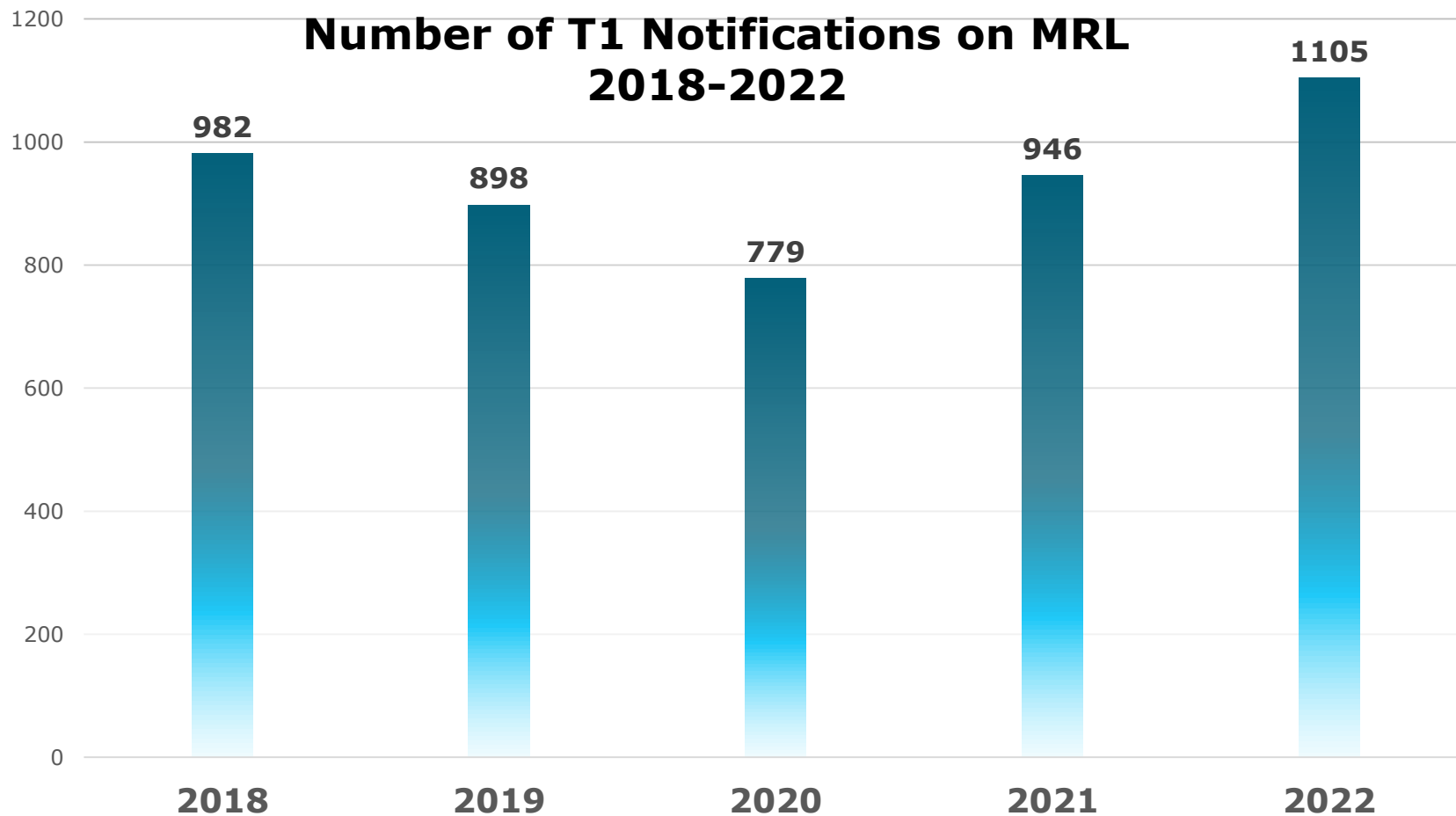
John Horgan

Road Management Office (RMO)



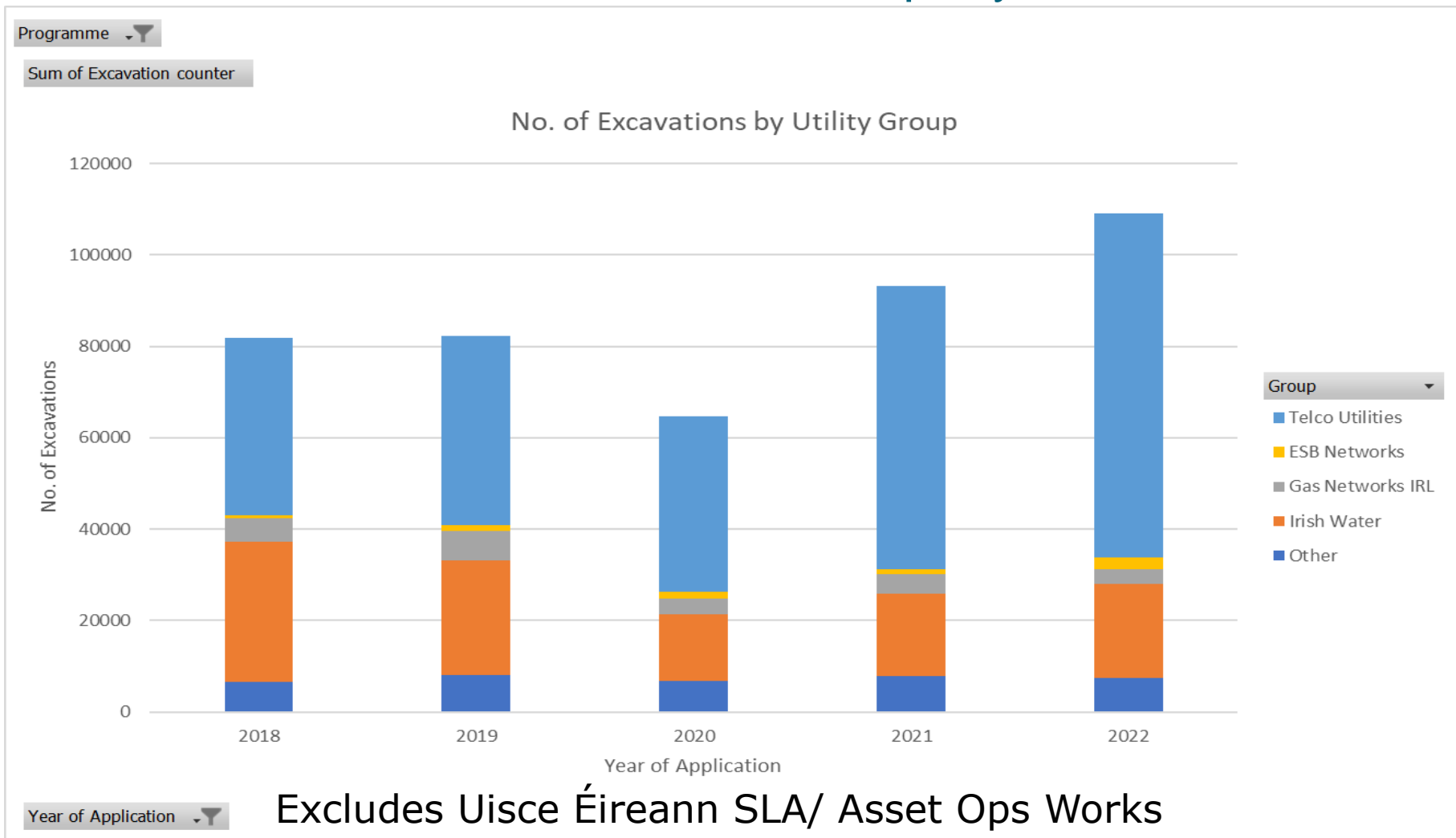
Number of Road Licensing Applications on MRL 2018-2022







Number of excavations per year





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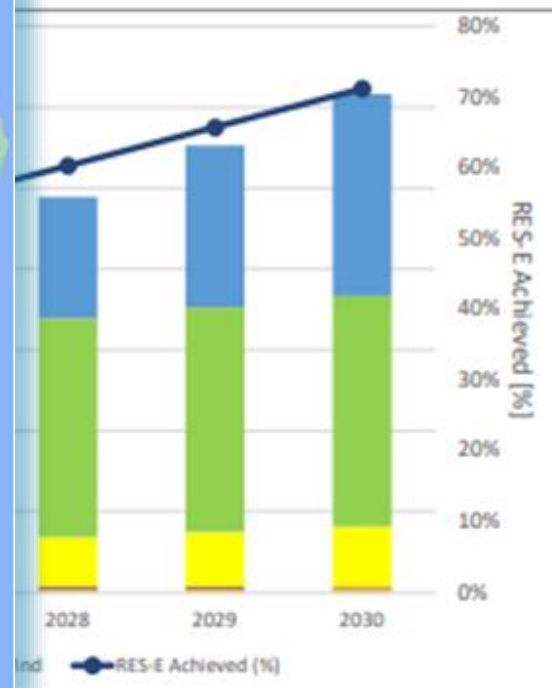
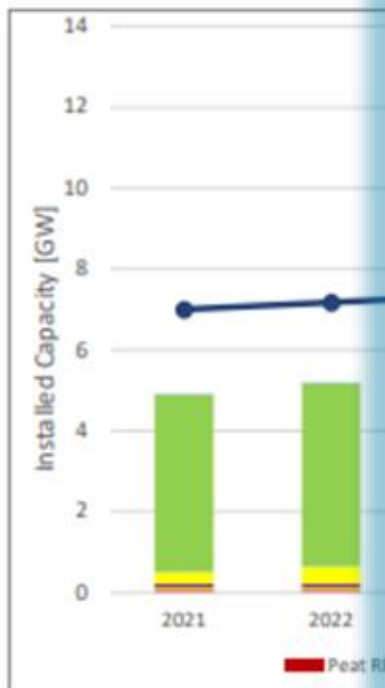


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Electricity & Renewables



Renewable Energy



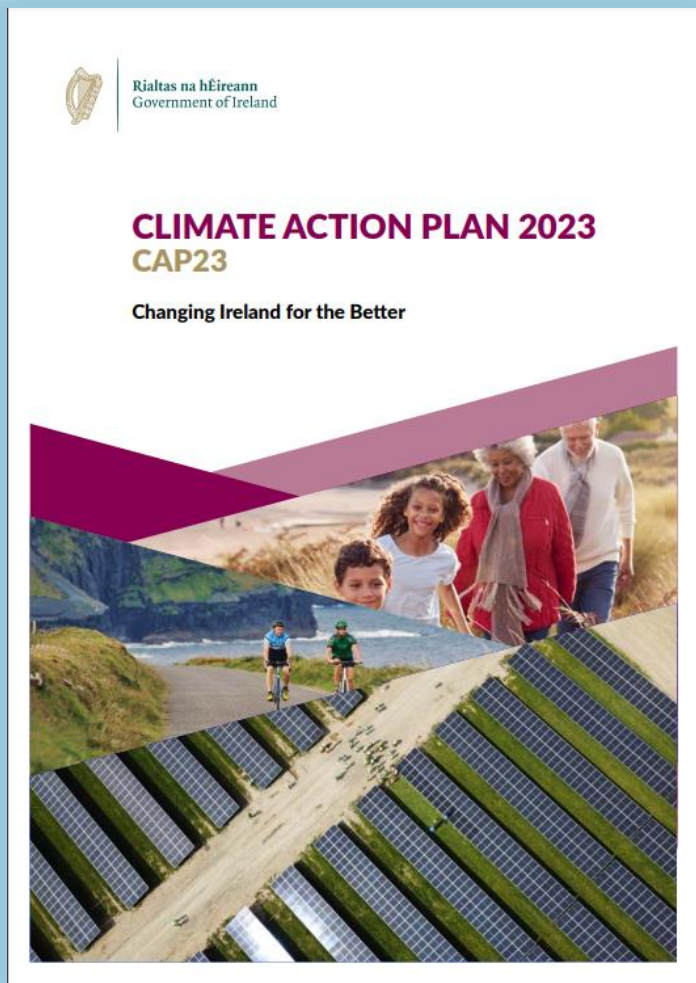
RES-E levels in Ireland



Shaping our electricity future



'This use of the road network is a key enabler for timely project delivery and to minimise routing constraints'



‘Enable the use of the public road and potentially the rail networks for routing of new public and private electricity circuits’



Initial Eirgrid Projects - Sample

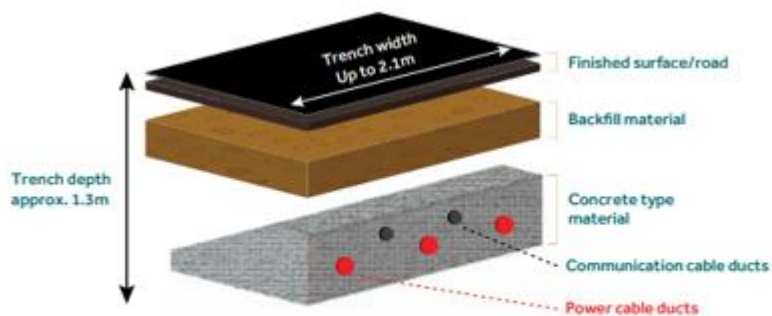
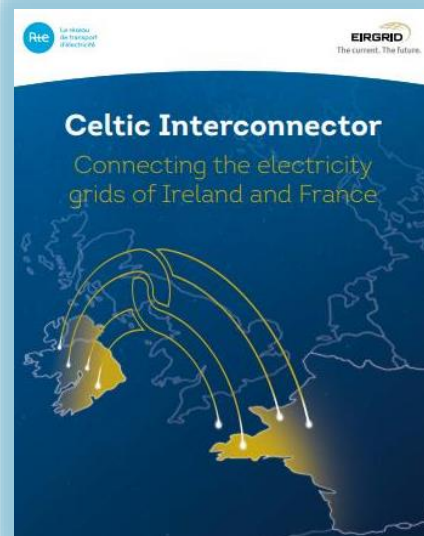
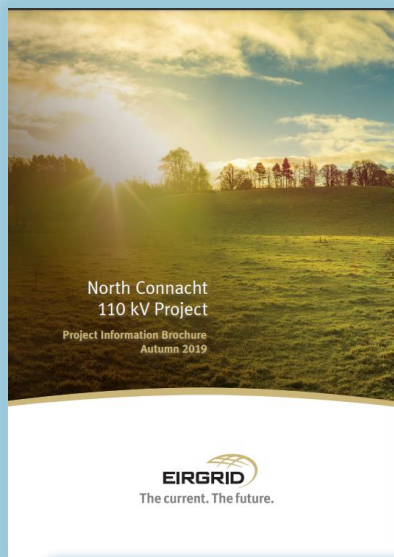


Figure 3: Typical HVAC underground cable duct arrangement



East Meath- North Dublin Grid Upgrade



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Broadband

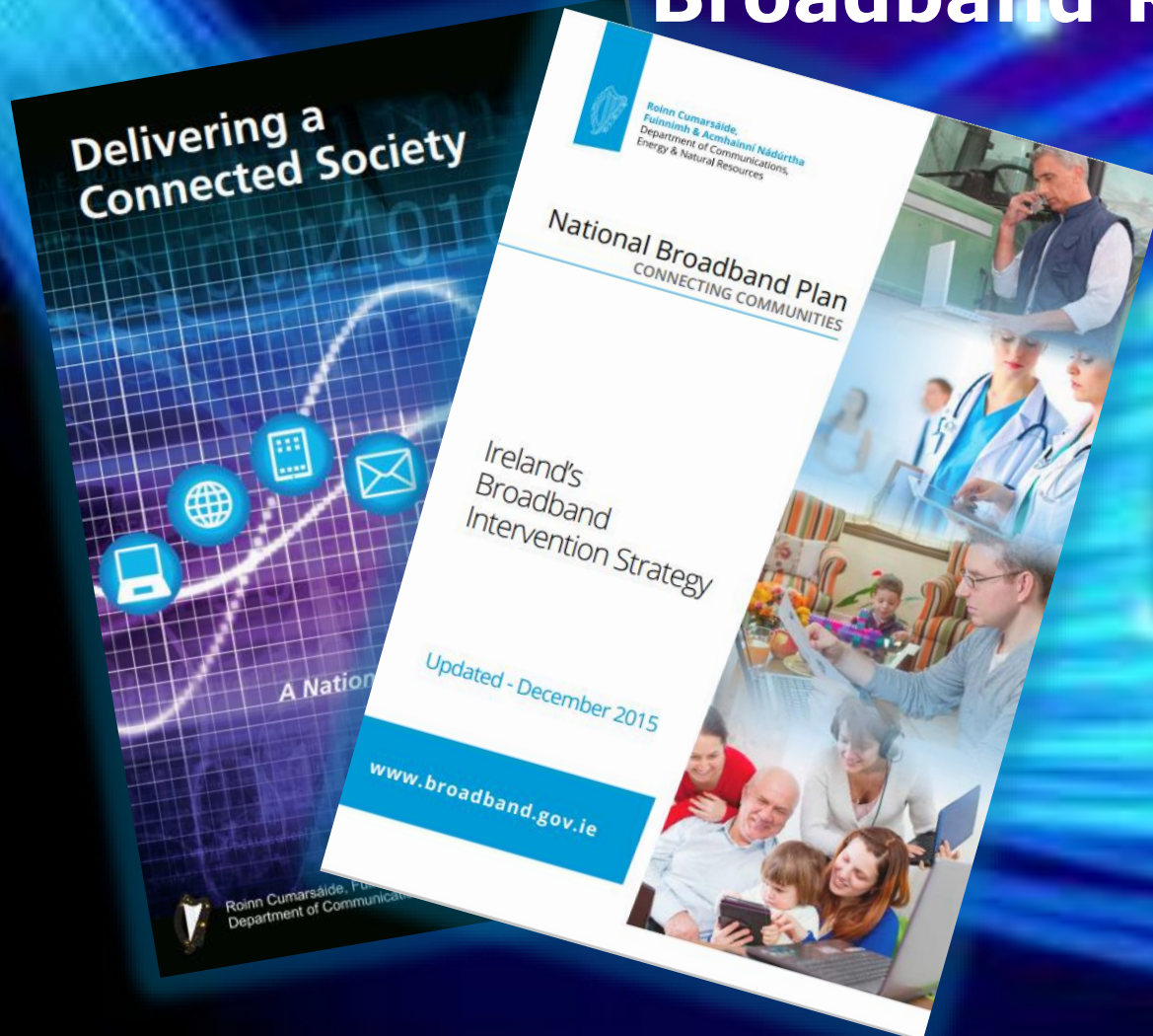


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Broadband Rollout 2012 +





The National Broadband Plan

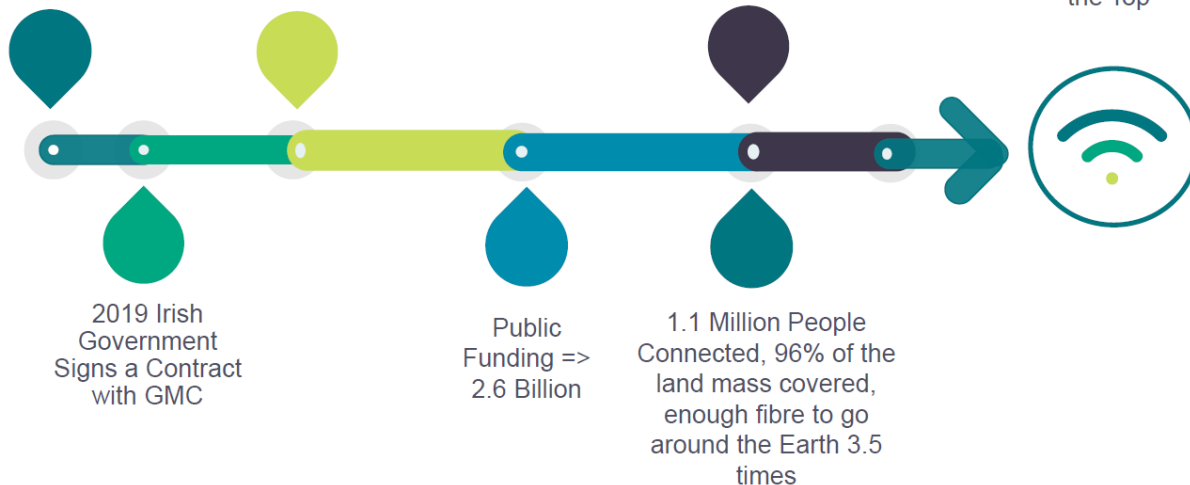


The largest PPP
in European
Telecoms History

NBI embarks on a
project that will end
rural/urban
connectivity divide

Largest Investment
in Rural Ireland
Since Electrification

Ireland will move
from bottom of EU
Broadband
League Table to
the Top

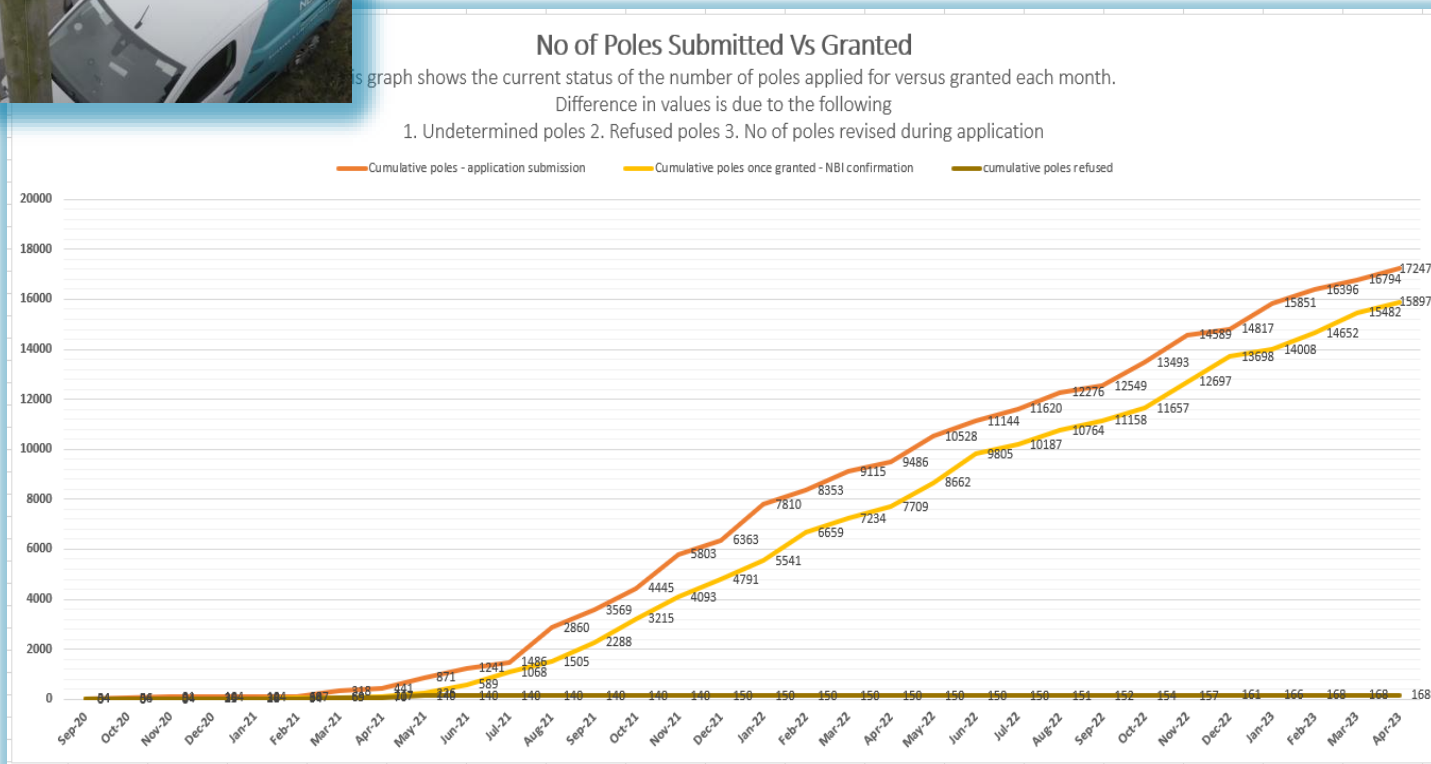


Estimated 146,000km of fibre cable required.

- **135,594 Premises Passed to date (April 2023)**
- **Total 544,168 premises in the intervention area.**

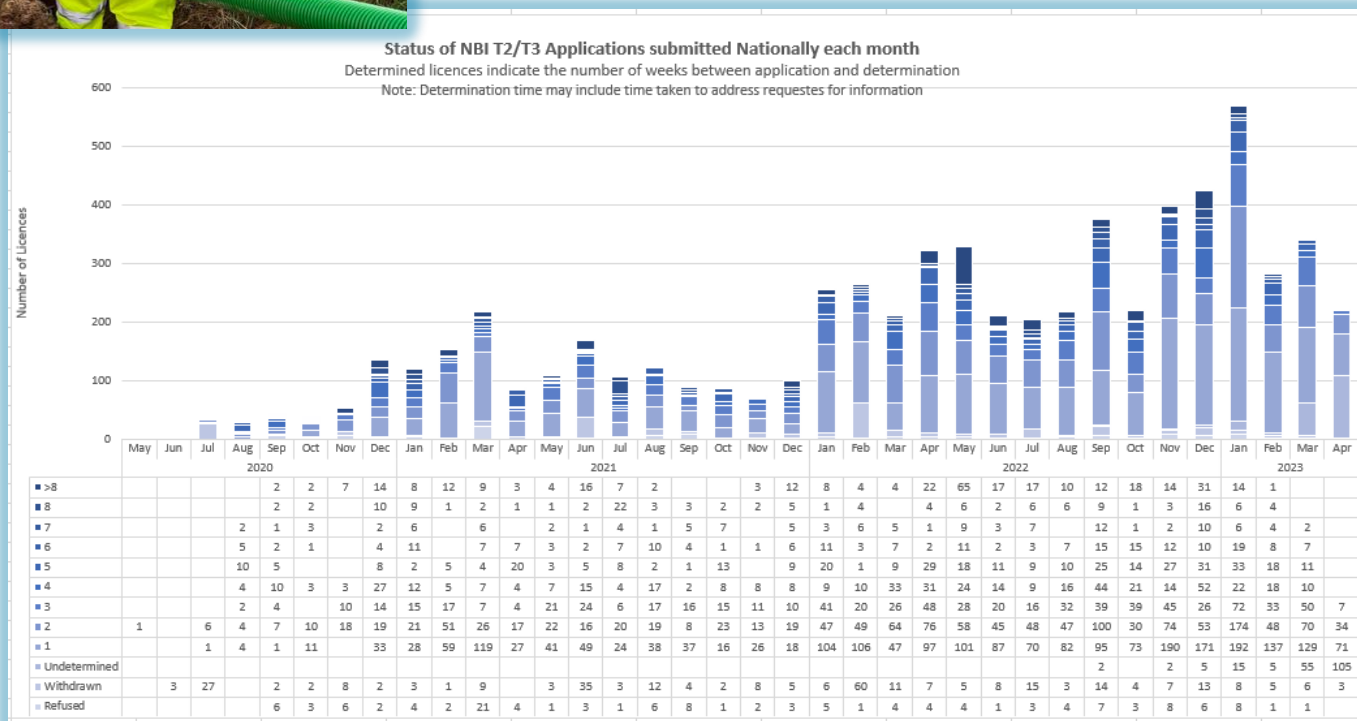


- ## NBI - Section 254 licence Applications:
- Current average of 630 pole applications per month
 - Estimated 100,000 poles required in total





NBI Road Opening Licences:
> 250 applications per month for
works of significant impact.





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Water



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UISCE
ÉIREANN : IRISH
WATER

Uisce
Éireann
Irish Water





Licensing of Uisce Éireann Asset Operations Works

- Current implementation programme June 2023 – June 2024 subject to signing of Master Agreements.
- Estimated 50,000 excavations per year to be licensed by local authorities.
- Asset Operations on an estimated 178,000km of underground UÉ assets
- RMO-UÉ implementation team commenced April 2023



Capital Investment Plan 2020-2024

Explanatory
Booklet
July 2021



‘In the period from 2021-2025 almost €6bn investment will be undertaken by Irish Water under the National Development Plan 2021-2030. This investment includes the projects and programmes committed to in Irish Water’s Capital Investment Plan 2020-2024’

Elements of Capital Investment Plan Budget that will require works on public roads.

Leakage Reduction	8%
Strategic Growth – Housing/Network Extensions etc	13%
Strategic – Significant Projects	15%
Operational – Capital Maintenance	15%



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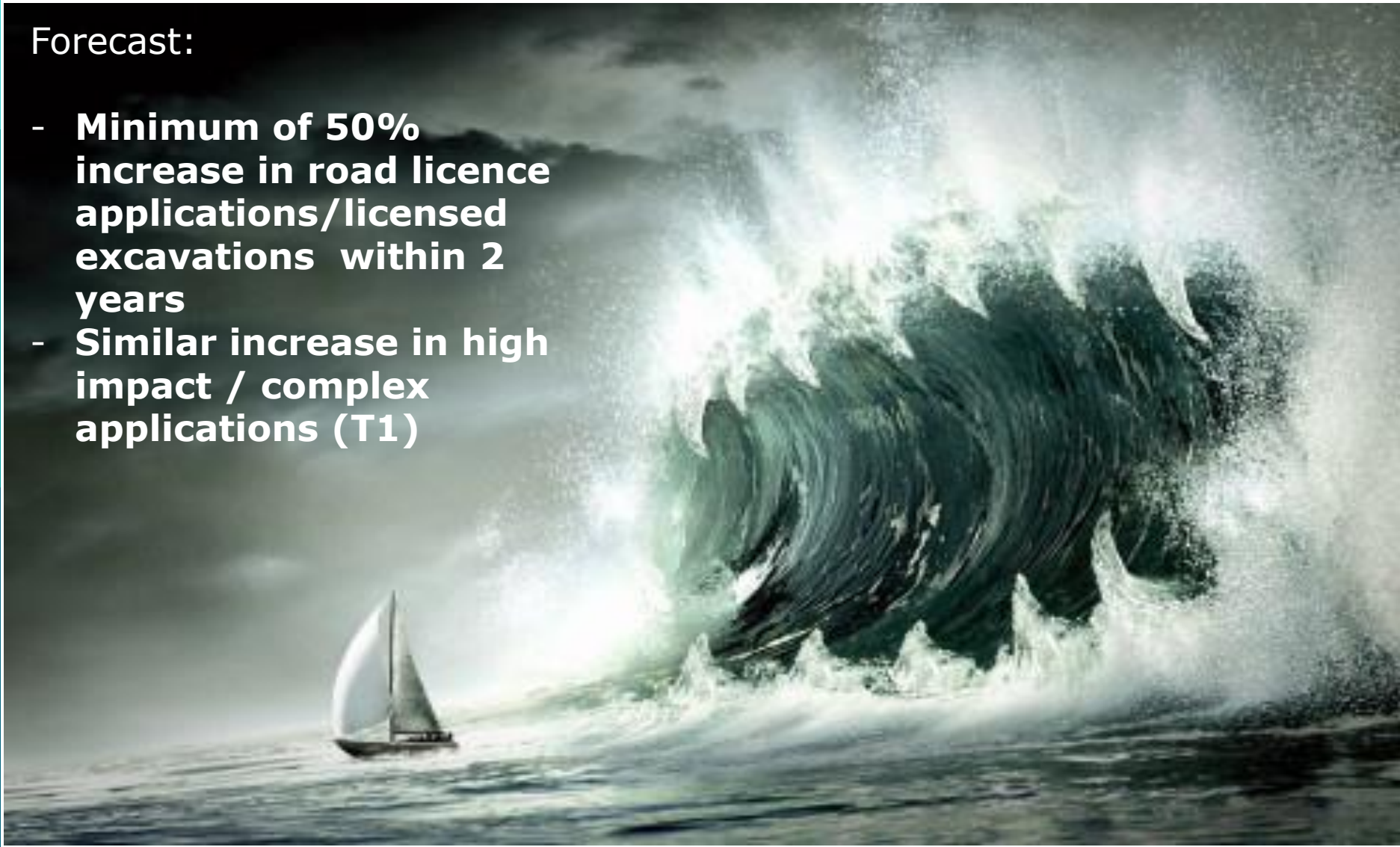
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Effect on Local Authorities Licensing



Forecast:

- **Minimum of 50% increase in road licence applications/licensed excavations within 2 years**
- **Similar increase in high impact / complex applications (T1)**





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Potential effect on our road asset





What helps?

- Monthly Centralised Billing of Utilities ensuring collection of licensing charges.
- Systemised Granting of T3's for Utilities Low Impact works.
- Standardised Licence Conditions for low/ moderate impact licences.
- Requirement for non-utilities to clear outstanding licensing actions annually to remain registered on MRL.
- LASNTG Development of Basic / Advanced reinstatement refresher courses with a focus on cardholder responsibilities
- Development of an MRL Inspection App due for phased release Q2 2023.
- Roads Sector Engagement with major utility representatives to develop national processes- e.g.
 - NBI
 - Uisce Éireann
 - HV Interface Forum created by ESNB includes TII / EirGrid/ESB / DoT / DECC / CCMA



What will help?



Dedicated LA Licensing team to engage with utilities and manage licences to get the best outcome for your authority to align with national processes.



Dedicated LA licence Inspectors on site.



Note: Minimum requirements for Licence Applicants

- Must have Statutory Powers – No contractor applications for utility works.
- Electricity Sector applicants normally require a Section 48 consent from the CRU if works are not carried out by ESB.
- LA engagement and issues should be addressed to the Licence Holder rather than the contractor
- Insurance, Indemnity and reinstatement training are managed by the RMO and a pre-requisite to MRL registration.



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www.RMO.ie

MRL Support: support@mrl.jitbit.com



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ROADS Services Training Group

LOCAL AUTHORITY ROADS CONFERENCE and EXHIBITION - 2023

Day 1 Session 2 Presentation 3- Brian Burke & Colin
O'Sullivan

Hodson Bay Hotel Athlone, May 2023



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LOCAL AUTHORITY ROADS CONFERENCE and EXHIBITION – 2023

Capturing & Managing Pedestrian and Cycling (Active Travel) Infrastructure on MapRoad AMS

Brian Burke
Programme Manager
Road Management Office

Colin O' Sullivan
Senior Executive Technician
Cork County Council



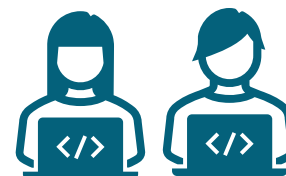
Overview

- MapRoad AMS software tools and guidance documents to capture Active Travel Infrastructure (ATI)
- Outline of assistance / training provided to Local Authorities and Stakeholders
- ATI Inventory and Project Capture in Cork County Council



One of the RMO objectives as agreed by the RMO Board in 2021 was to:

- Collaborating with stakeholders including DoT, NTA, and TII.
- Developing software solutions
- Providing guidance on capturing and managing Cycling & Pedestrian Infrastructure in MapRoad AMS.





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County and City Management Association

Technical Working Group (TWG) was assembled in 2021

TWG was made up of a number of representatives

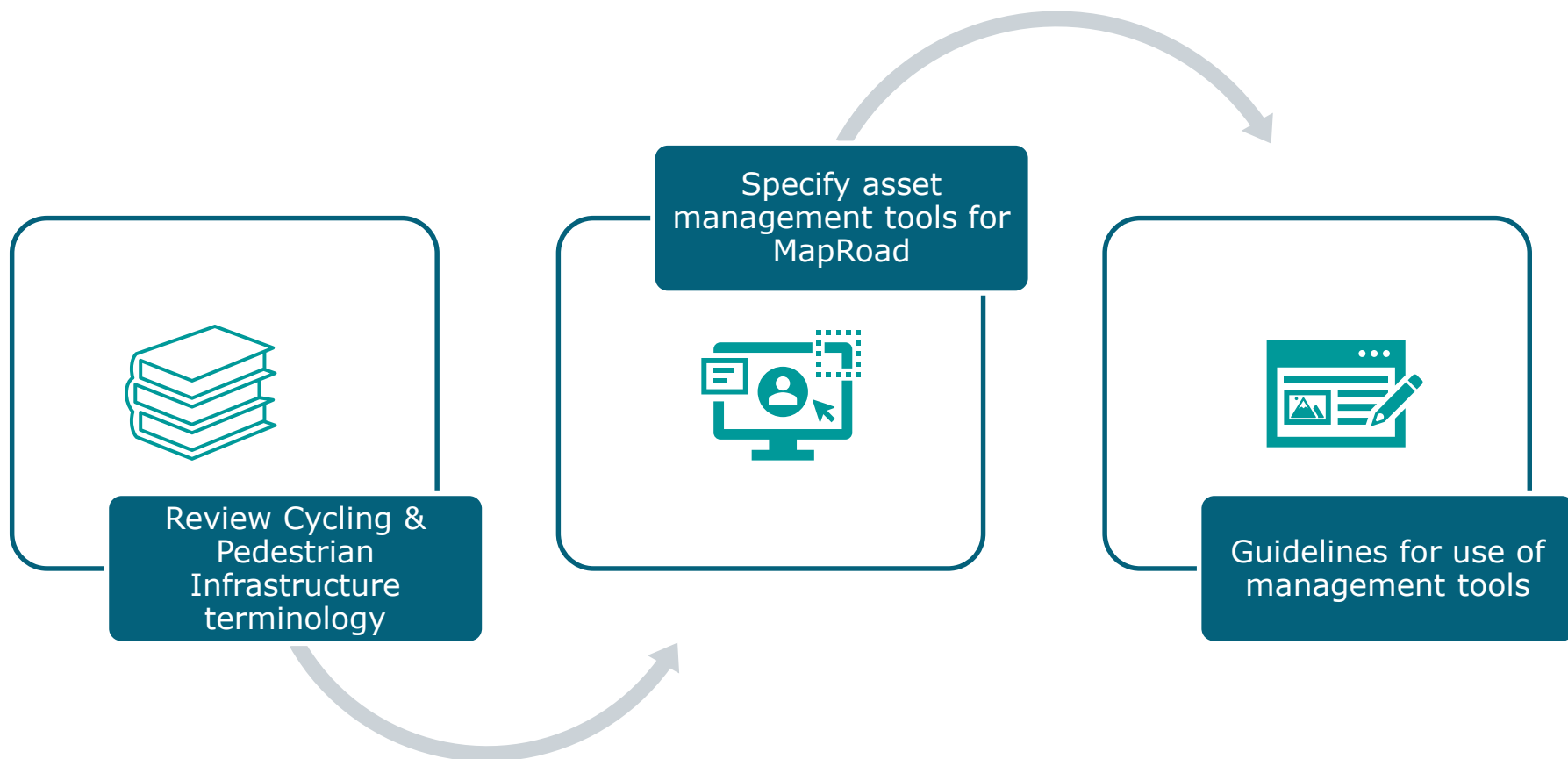


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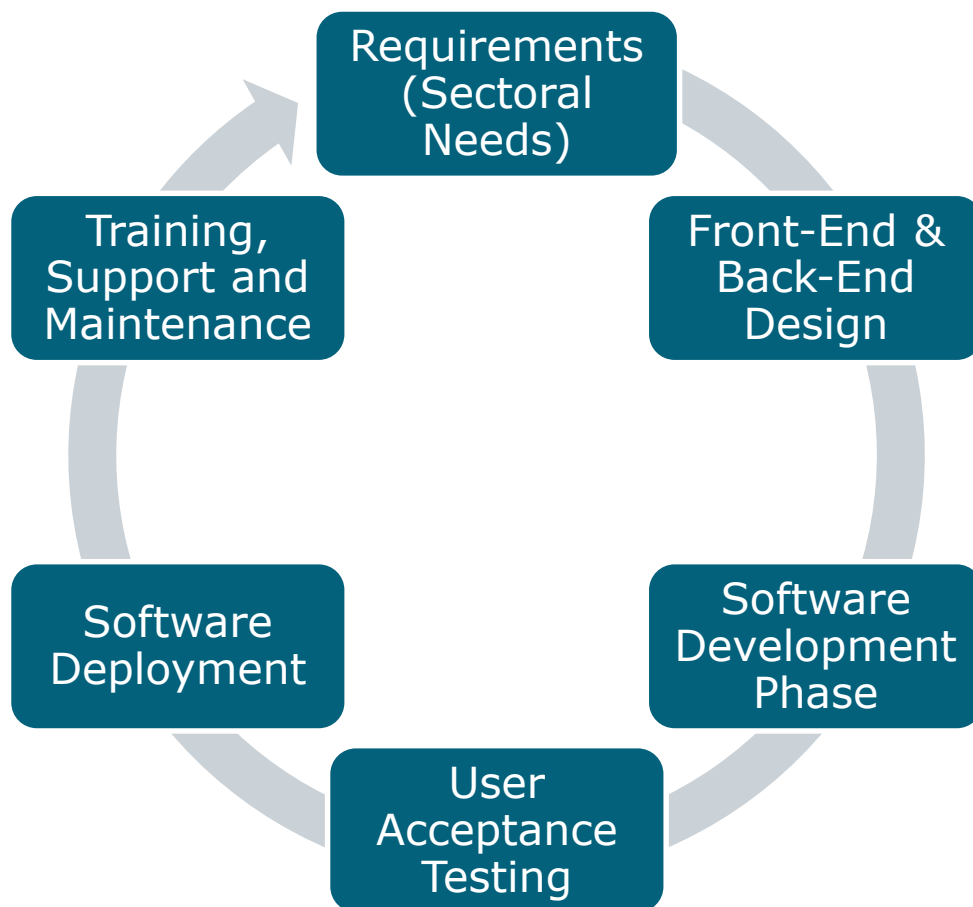


TWG Objectives/Tasks and how they were achieved.



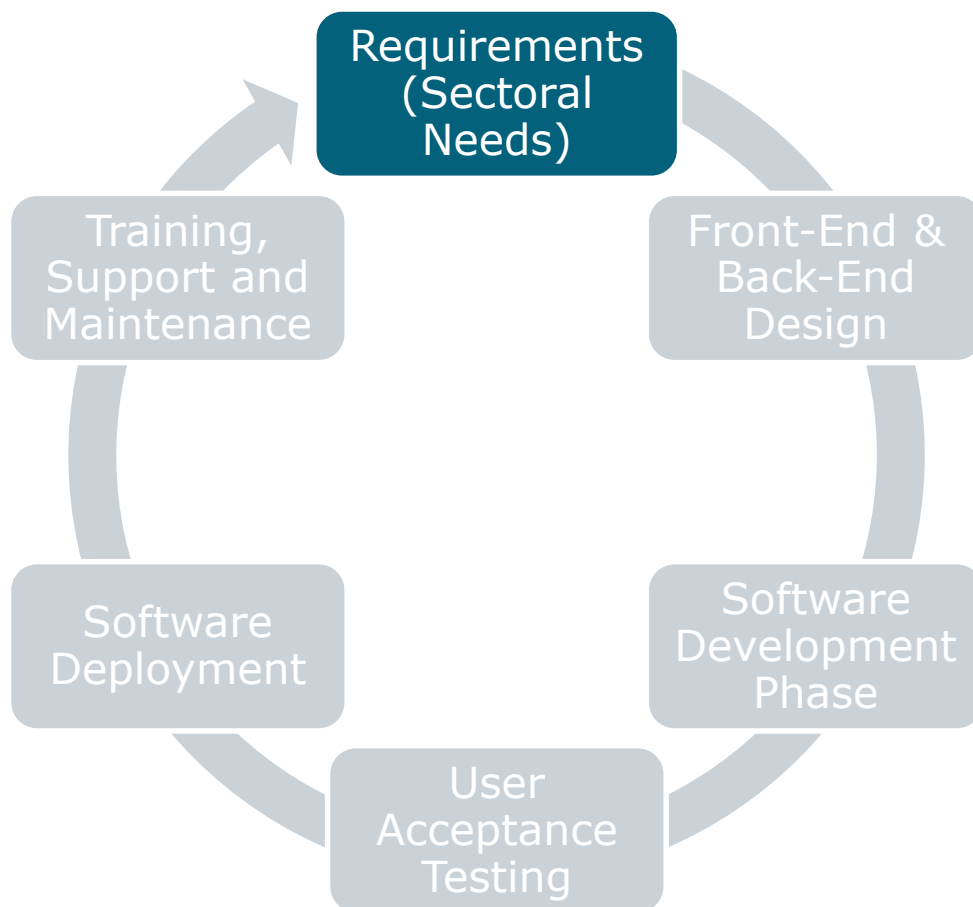


Phases undertaken to deliver Objectives





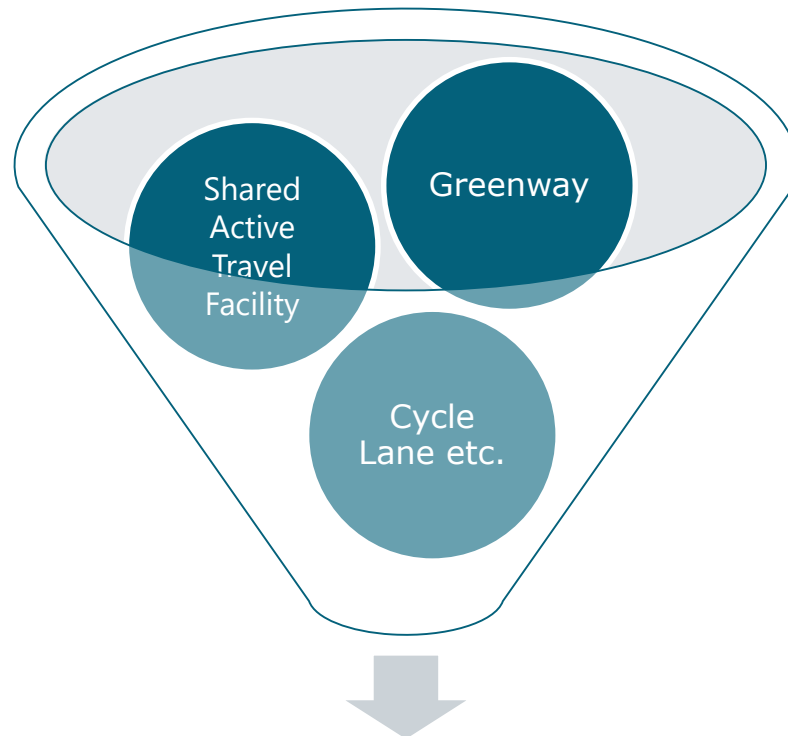
Requirements (Sectoral Needs) Phase





Review Cycling & Pedestrian Infrastructure terminology.

- There are many terms used to describe Active Travel Infrastructure (ATI) across the sector.
- Some commonly used terms are not legally defined.
- MapRoad terminology will be consistent sector wide.
- MapRoad Asset Management System provides legally defined ATI terminology options in a simple dropdown menu on the Road Segment Form.



Commonplace Names
for ATI



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Review Cycling &
Pedestrian Infrastructure
terminology.

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Definitions

MapRoad Terminology



Road: A "public road" means a road over which a public right of way exists and the responsibility for the maintenance of which lies on a road authority. *Roads Act, 1993 2.—(1).*

Roadway: A "roadway" means that portion of a road which is provided primarily for the use of vehicles. *Roads Act, 1993 2.—(1).*

Cycleway: A "cycleway" means a public road or proposed public road reserved for the exclusive use of pedal cyclists or pedal cyclists and pedestrians. *Roads Act, 1993 68.—(1)*

2) (a) A road authority may construct (or otherwise provide) and maintain a cycleway.
(b) Where a road authority constructs or otherwise provides a cycleway it shall by order declare either—
(i) that the cycleway is for the exclusive use of pedal cyclists, or
(ii) that the cycleway is for the exclusive use of pedal cyclists and pedestrians.

Cycle Track: Cycle Track means part of a road, including part of a footway or part of a roadway, which is reserved for the use of pedal cycles and from which all mechanically propelled vehicles, other than mechanically propelled wheelchairs, are prohibited from entering except for the purpose of access*

S.I. No. 182/1997 - Road Traffic (Traffic and Parking) Regulations, 1997 4. (1)

Article 14: Where traffic sign numbers RUS 009 or RUS 009A and either RRM 022 or RRM 023 [cycle track] are provided, the part of road to which they relate shall be a cycle track.
(2) The periods of operation of a cycle track may be indicated on an information plate which may be provided in association with traffic sign number RUS 009 or RUS 009A.
(3) All pedal cycles must be driven on a cycle track where one is provided.
(4) Where a cycle track is one-way, pedal cycles shall be driven in the same direction as traffic on the side of the roadway adjacent to the cycle track is required to travel.
(5) When a cycle track is two-way, pedal cycles shall be driven as near as possible to the left hand side of each lane.
(6) (a) A mechanically propelled vehicle, other than a mechanically propelled wheelchair, shall not be driven along or across a cycle track.
(b) A reference in sub-article (a) to driving along or across a cycle track shall include a reference to driving wholly or partly along or across a cycle track.
(c) This sub-article shall not apply to a vehicle being driven for the purpose of access to or egress from a place adjacent to the cycle track or from a roadway to such a place.

Footway: A "footway" means that portion of any road associated with a roadway which is provided primarily for use by pedestrians. *Roads Act, 1993 2.—(1).*

Footpath: A "footpath" means a road over which there is a public right of way for pedestrians only, not being a footway. *Roads Act, 1993 2.—(1).*

*Note: Cycle Track Road Details Attribute Options: As part of the inventory capture and adding to the road schedule process a Cycle Track must be recorded as: 'is' or 'is not' 'On Roadway'. These 'On Roadway' Cycle Tracks are commonly referred to as 'Cycle Lanes'.



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County and City Management Association



Review Cycling & Pedestrian Infrastructure terminology.

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Glossary

Cycle Track
Cycle track means part of a road, including part of a footway or part of a roadway, which is reserved for the use of pedal cycles and from which all mechanically propelled vehicles, other than mechanically propelled wheelchairs, are prohibited from entering except for the purpose of access.
ref: 5.18 Traffic Signs Manual Chapter 5.
ref: 7.8 Traffic Signs Manual Chapter 7

Is on Roadway? ☒

Is on Roadway? ☐

*Cycle Tracks should be further defined. As part of the inventory capture and processing to network schedule a Cycle Track must be recorded as, or in or out 'On Roadway'. These 'On Roadway' Cycle Tracks are commonly referred to as 'On Roadway'.

Glossary

Footpath
A "footpath" means a road over which there is a public right of way for pedestrians **only**, not being a footway.

Glossary

Cycleway
A "cycleway" means a public road or proposed public road reserved for the exclusive use of pedal cyclists and pedestrians.
As 1997-1998 (21) S.I. No. 140/1997 - Road Traffic (Traffic and Parking) Regulations, 1997
21st & 22nd (21st & 22nd) Regulations may construct or otherwise provide and maintain a cycleway.
(b) Where a road authority constructs or otherwise provides a cycleway it shall by order decide whether:
(i) that the cycleway is for the exclusive use of pedal cyclists and pedestrians;
(ii) that the cycleway is for the exclusive use of pedal cyclists and pedestrians.

Glossary

Footway
A "footway" means that portion of any road associated with a roadway which is provided primarily for use by pedestrians.

ref: 5.18 Traffic Signs Manual Chapter 5.
ref: 7.8 Traffic Signs Manual Chapter 7

- ☒ Schedule (Usage Classifications)
- Roadway
 - Cycleway
 - Cycle Track
 - Footway
 - Footpath



Review Cycling &
Pedestrian Infrastructure
terminology.

Glossary

Cycleway

A "cycleway" means a public road or proposed public road reserved for the exclusive use of pedal cyclists and pedestrians.

Act, 1993 68. —(1). S.1 No. 182/1997 - Road Traffic (Traffic and Parking) Regulations, 1997
2) (a) A road authority may construct (or otherwise provide) and maintain a cycleway.
(b) Where a road authority constructs or otherwise provides a cycleway it shall by order declare either —
(i) that the cycleway is for the exclusive use of pedal cyclists, or
(ii) that the cycleway is for the exclusive use of pedal cyclists and pedestrians.



- There are many terms used to describe Active Travel Infrastructure (ATI) across the sector.
- Some commonly used terms are not legally defined.
- MapRoad terminology will be consistent sector wide.
- MapRoad Asset Management System provides legally defined ATI terminology options in a simple dropdown menu on the Road Segment Form.



Review Cycling & Pedestrian Infrastructure terminology.

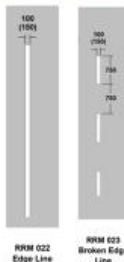
- There are many terms used to describe Active Travel Infrastructure (ATI) across the sector.
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Glossary

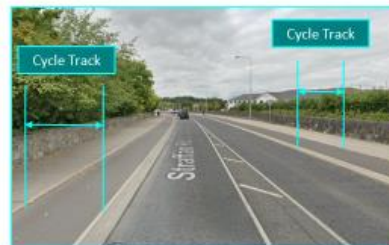
Cycle Track

Cycle track means part of a road, including part of a footway or part of a roadway, which is reserved for the use of pedal cycles and from which all mechanically propelled vehicles, other than mechanically propelled wheelchairs, are prohibited from entering except for the purpose of access;

ref: 5.18 Traffic Signs Manual Chapter 5.
ref: 7.8 Traffic Signs Manual Chapter 7



Is on Roadway? ☒



Is on Roadway? ☒

**Cycle Tracks shall be further defined. As part of the inventory capture and processing to network schedule a Cycle Track must be recorded as, is or is not 'On Roadway'. These 'On Roadway' Cycle tracks are commonly referred too as Cycle Lanes.*



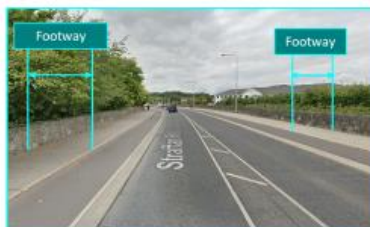
Review Cycling &
Pedestrian Infrastructure
terminology.

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Glossary

Footway

A "footway" means that portion of any road associated with a roadway which is provided primarily for use by pedestrians.



***Note: Cycle Track on Footway: As part of the inventory capture process a Cycle Track on a Footway can be recorded as an additional attribute of the Footway. Note Software update for this function available early May 2023*



Review Cycling &
Pedestrian Infrastructure
terminology.

Glossary

Footpath

A "footpath" means a road over which there is a public right of way for pedestrians **only**, not being a footway.



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Review Cycling &
Pedestrian Infrastructure
terminology.

- There are many terms used to describe Active Travel Infrastructure (ATI) across the sector.
- Some commonly used terms are not legally defined.
- MapRoad terminology will be consistent sector wide.
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Road Details Administration Legacy Values History Files Geometry

Way Details

Type of Way*: Public Right of Way ⓘ

Status*: Public Road ⓘ

Usage Classification*: Roadway ⓘ
Roadway
Cycleway
Cycle Track
Footway
Footpath
Combined Footway Cycle Track

Classification

Segment ID*: 40041-0 ⓘ

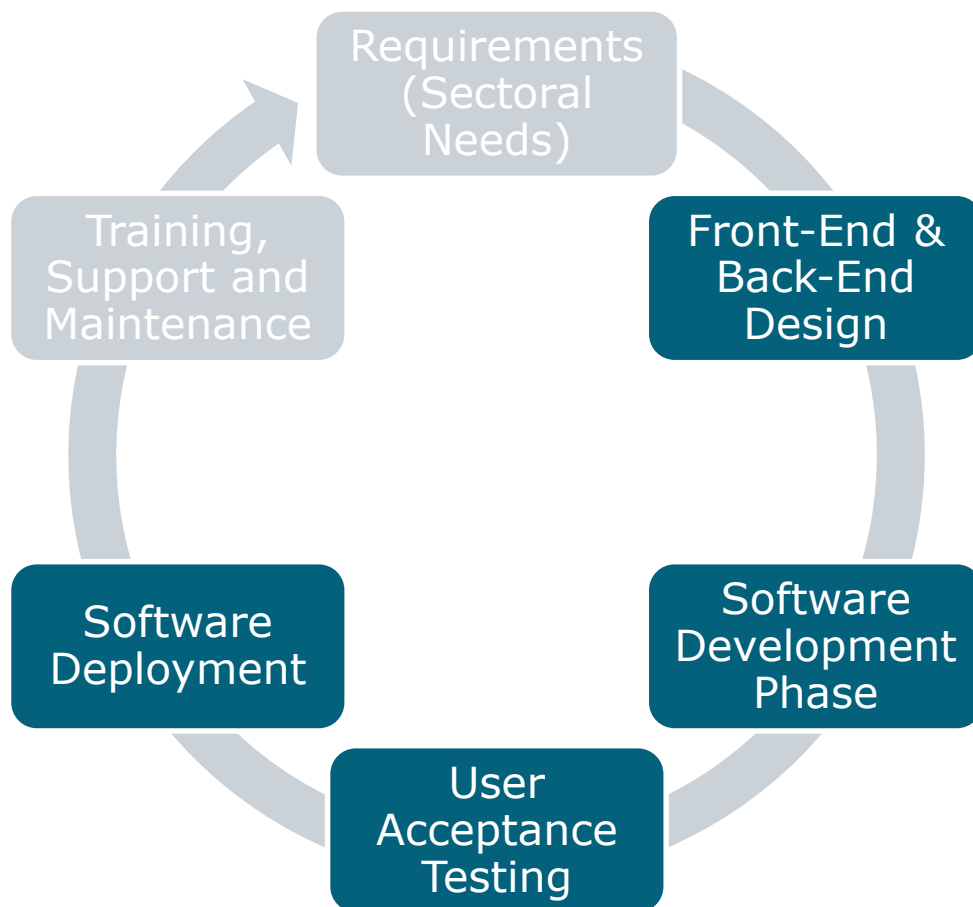
Classification*: ⓘ

Name*: ⓘ

Is Proposed?: ☐ ⓘ



Software Development Phases





Specify asset
management tools
for MapRoad

- 2 Main components considered under asset management tools, these where:
 - Inventory
 - Projects

Inventory

- Schedule of Assets e.g. mapped infrastructure



Projects

- Anchored to Inventory



Specify asset
management tools
for MapRoad

- 2 Main components considered under asset management tools, these where:
 - Inventory
 - Projects

Inventory

- Schedule of Assets e.g. mapped infrastructure



Projects

- Anchored to Inventory

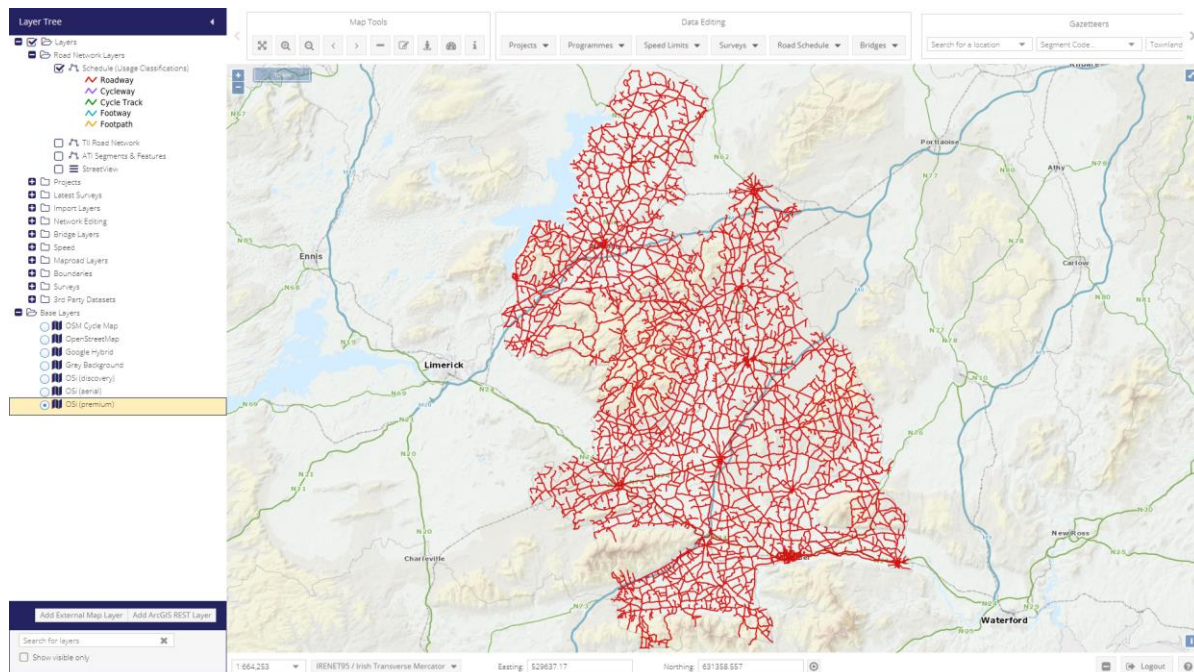


Specify asset management tools for MapRoad

Inventory

- Schedule of Assets e.g. mapped infrastructure

- Inventory:
 - Schedule of Assets e.g. mapped infrastructure





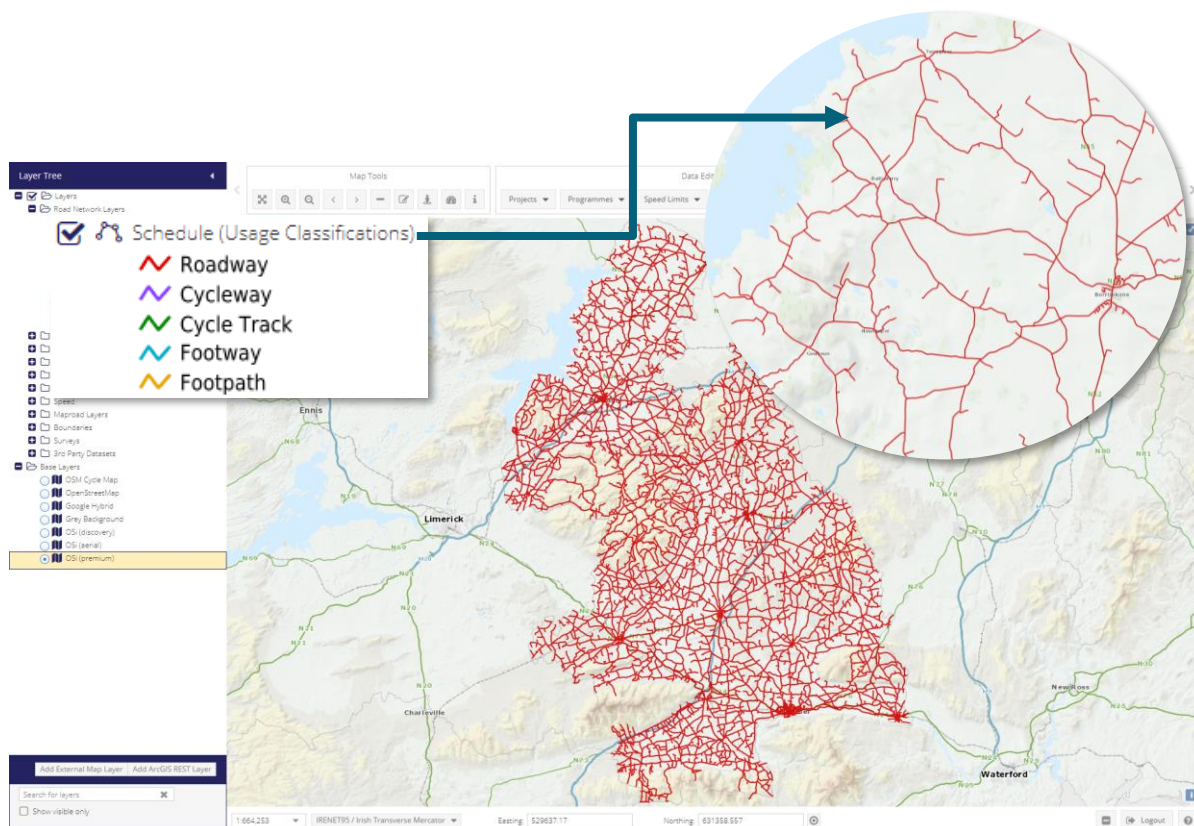
Specify asset management tools for MapRoad

- Usage Classifications:

- Roadway
- Cycleway
- Cycle Track
- Footway
- Footpath

Inventory

- Schedule of Assets e.g. mapped infrastructure



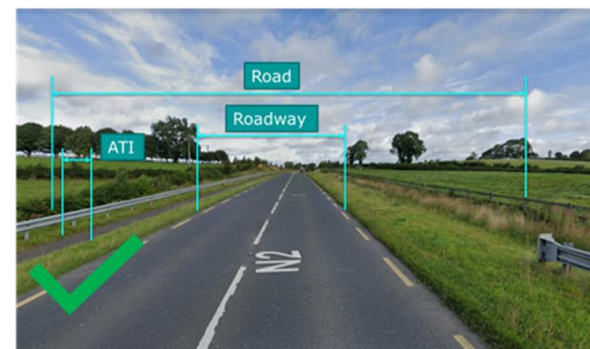
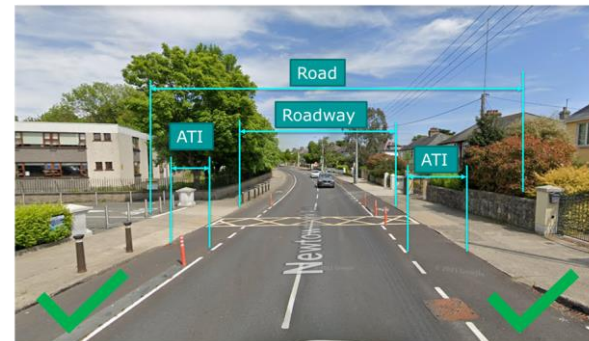


Specify asset
management tools
for MapRoad

- ATI Feature capture used when:
 - ATI(s) occupy space on the roadway. These can be shared or segregated from motorised traffic with road markings or temporary physical delineation.
- ATI Linework capture used when:
 - ATI(s) occupy space off the Roadway.

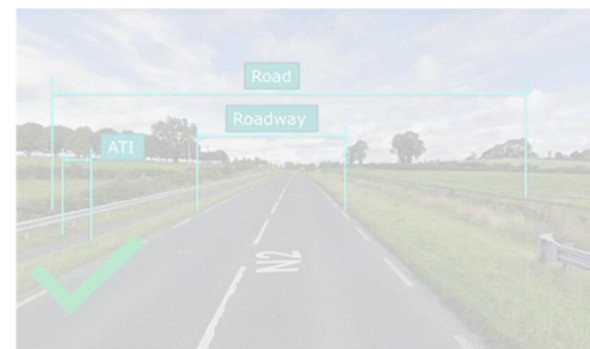
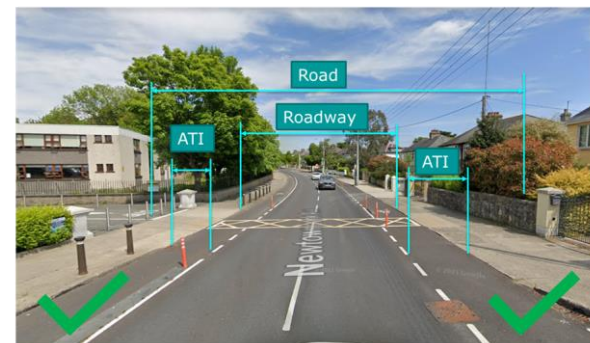
ATI
Feature
Capture

ATI
Linework
Capture





- ATI Feature capture used when:
 - ATI(s) occupy space on the roadway. These can be shared or segregated from motorised traffic with road markings or temporary physical delineation.
- ATI Linework capture used when:
 - ATI(s) occupy space off the Roadway.





Specify asset management tools for MapRoad

ATI Feature Capture

- Use existing road schedule to make ATI's.

The screenshot displays the MapRoad software interface. On the left is a 'Layer Tree' panel with the following sections:

- Layers**
 - ☒ Road Network Layers
 - ☒ ATI Segments & Features
 - Cycleway
 - Cycle Track
 - Footway
 - Footpath
- ☒ Schedule (Usage Classifications)
 - Roadway
 - Cycleway
 - Cycle Track
 - Footway
 - Footpath
- ☐ TII Road Network
- ☐ StreetView
- Projects**
 - Latest Surveys
 - Import Layers
 - Network Editing
 - Bridge Layers
 - Speed
 - Maproad Layers
 - Boundaries
 - Surveys
 - 3rd Party Datasets
- Base Layers**
 - ☐ OSM Cycle Map
 - ☐ OpenStreetMap
 - ☐ Google Hybrid
 - ☐ Grey Background
 - ☐ OSl (discovery)
 - ☐ OSl (aerial)
 - ☒ OSl (premium)

At the bottom of the Layer Tree is a section for 'Add External Map Layer' and 'Add ArcGIS REST Layer' with a search bar and a 'Show visible only' checkbox.

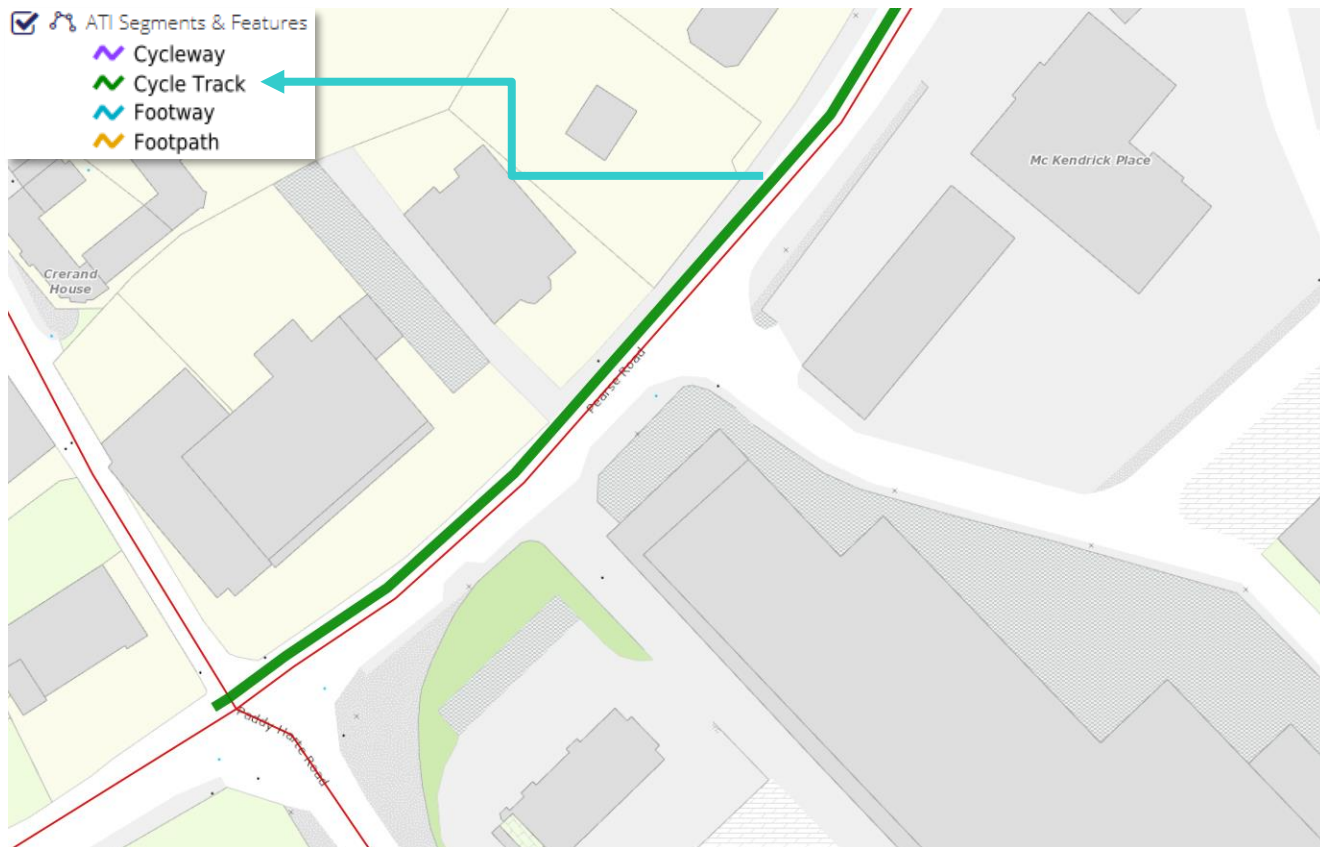
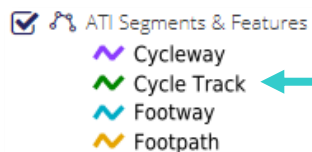
The main map area shows a street network with a green line segment highlighted. A large circular inset provides a magnified view of this segment. The top of the interface includes 'Map Tools' and 'Data Editing' tabs. The 'Data Editing' tab is active, showing dropdown menus for 'Projects', 'Programmes', 'Speed Limits', 'Surveys', 'Road Schedule', and 'Bridges'. A search bar for 'Gazetteers' is also present. The bottom status bar displays the map scale (1:4,109), the coordinate system (IRENET95 / Irish Transverse Mercator), and the Easting (616620.735) and Northing (911161.376) coordinates.



Specify asset
management tools
for MapRoad

ATI Feature Capture

- Use existing road schedule to make ATI's.

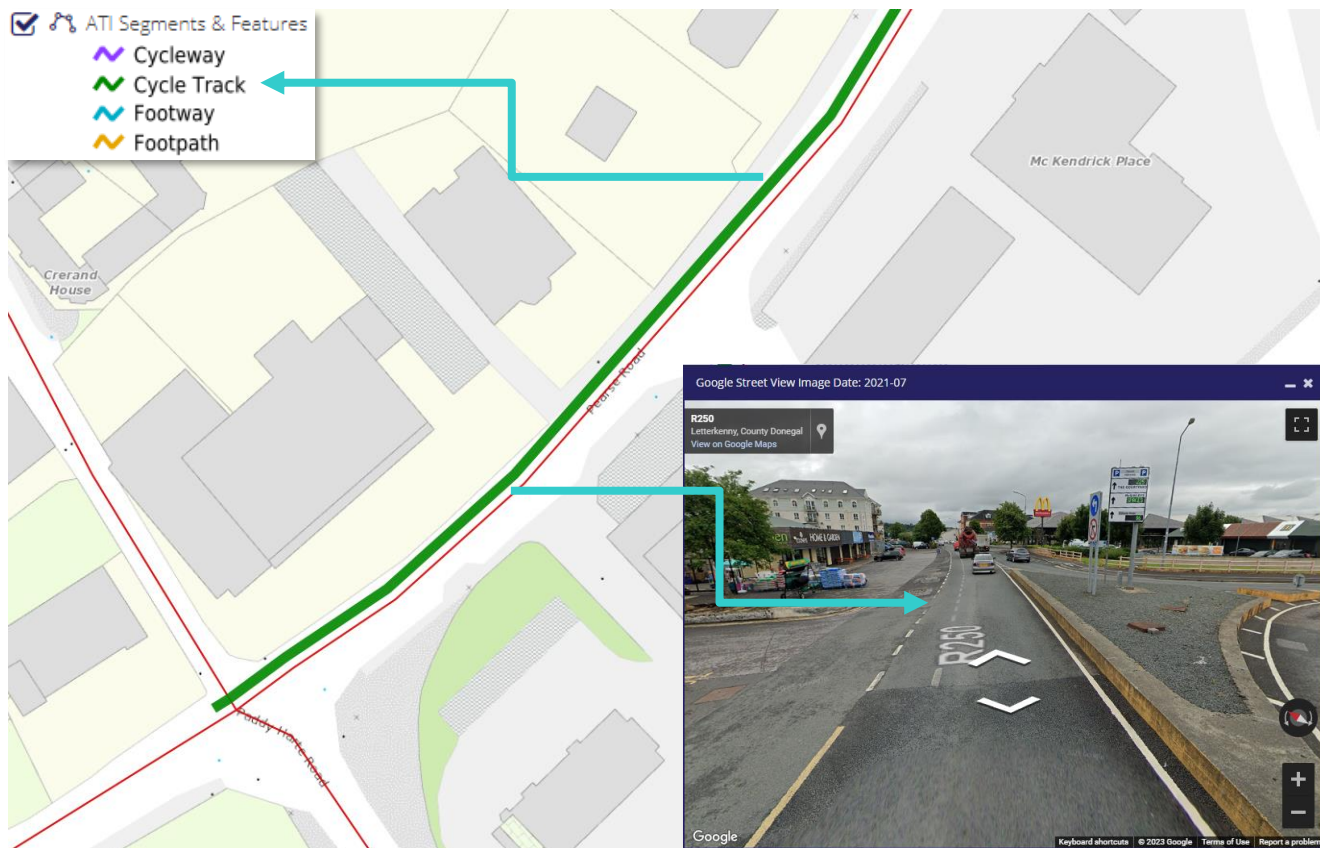




Specify asset
management tools
for MapRoad

ATI Feature Capture

- Use existing road schedule to make ATI's.





Specify asset management tools for MapRoad

ATI Feature Capture

- Use existing road schedule to make ATI's.

☒ ATI Segments & Features

- Cycleway
- Cycle Track
- Footway
- Footpath

ATI Feature

Road Details | Files | History | Geometry

Details

Road Number: R-250

Classification: Regional

Name*: Pearse Road Cycle Track

Offset: -4

Type of Way*: Public Right of Way

Status*: Public Road

Usage Classification*: Cycle Track

Is on Roadway?: ☒

ATI Measurements

Length (m): 370.75 m

Measured Length (m): 0.00 m

Average Width (m)*: 1.50 m

Location

Start At: Junction with Pearse Road and Paddy Harte Road

Ends At: Junction with Pearse Road and Rosemount Lane

Delete Zoom Save Cancel

Google Street View Image Date: 2021-07

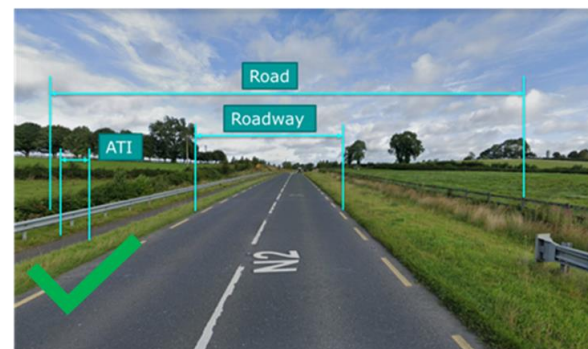
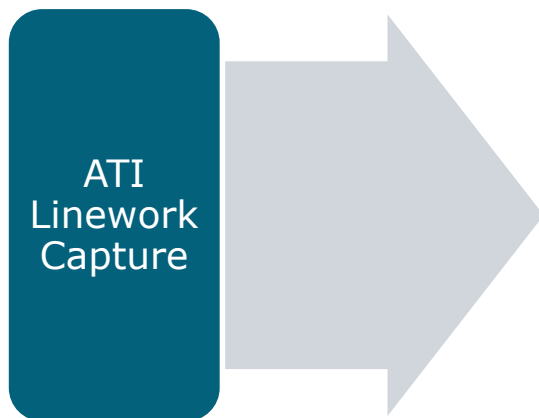
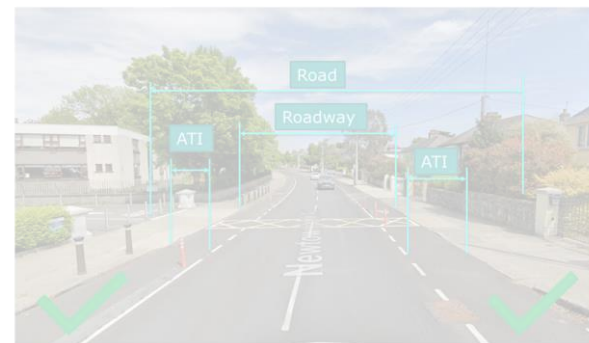
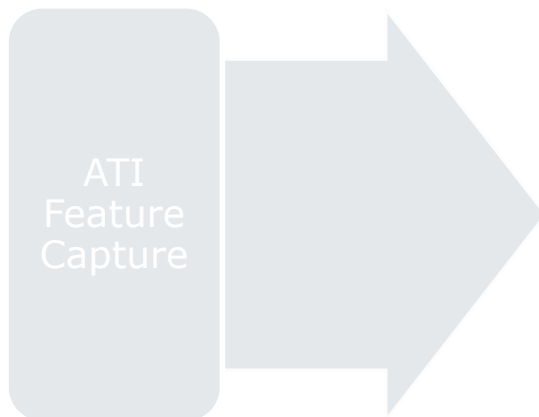
R250
Letterkenny, County Donegal
View on Google Maps

Google

Keyboard shortcuts © 2023 Google Terms of Use Report a problem



- ATI Feature capture used when:
 - ATI(s) occupy space on the roadway. These can be shared or segregated from motorised traffic with road markings or temporary physical delineation.
- ATI Linework capture used when:
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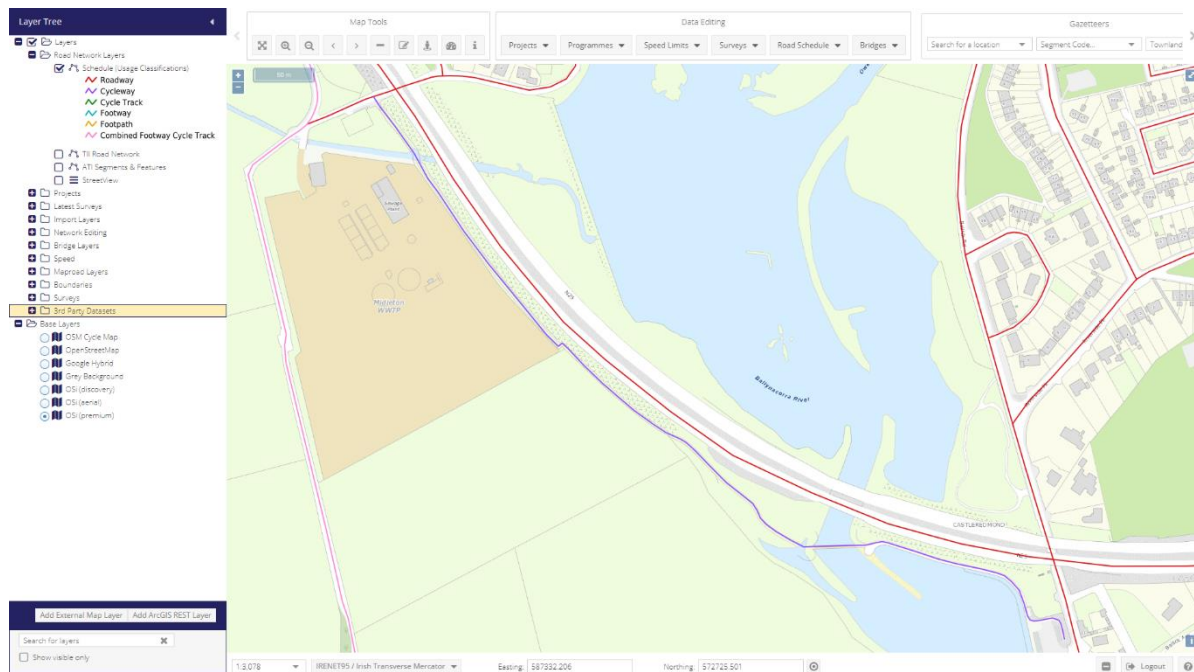


Specify asset
management tools
for MapRoad

- Ability to free draw ATI.

Inventory

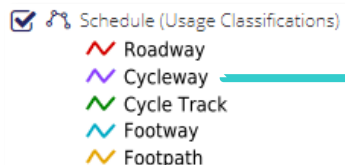
- Schedule of Assets e.g. mapped infrastructure





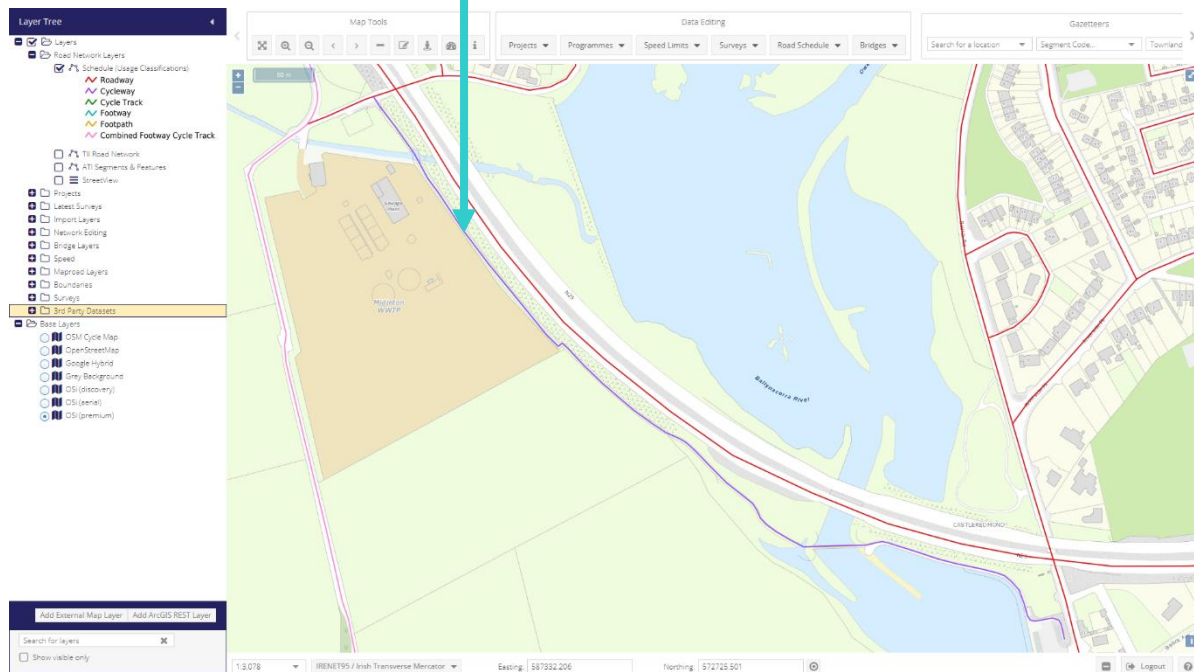
Specify asset management tools for MapRoad

- Ability to assign schedule Inventory and assign Usage Classification through Schedule Form.



Inventory

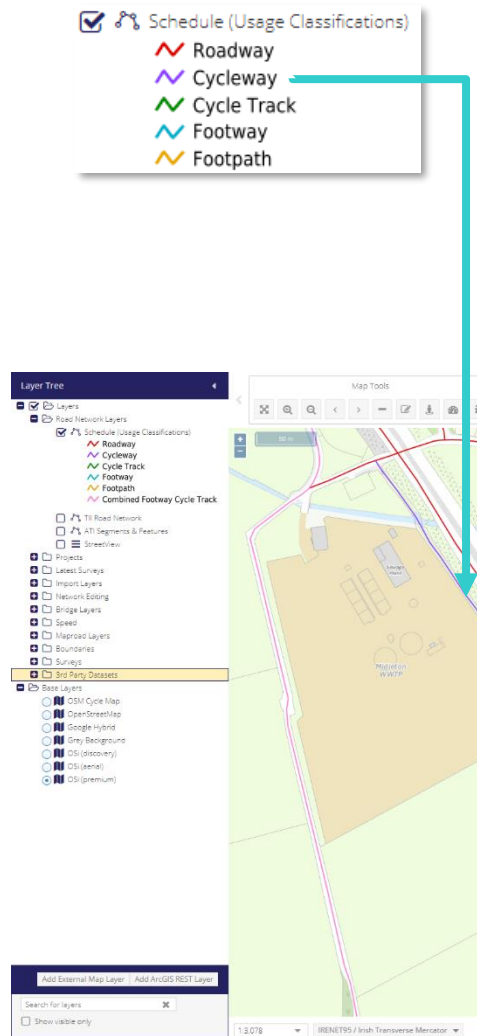
- Schedule of Assets e.g. mapped infrastructure





Specify asset management tools for MapRoad

- Ability to assign schedule Inventory and assign Usage Classification through Schedule Form.



Inventory

- Schedule of Assets e.g. mapped infrastructure

Road Segment: L-36200-900

Road Details Administration Legacy Values History Files Geometry

Way Details

Type of Way*: Public Right of Way
Status*: Public Road
Usage Classification*: Cycleway

Classification

Segment ID*: L - 36200 - 900 L-36200-900
Classification: Local Tertiary Is Proposed?:
Name*: Geelscoil Link

Schemes

Is Protected Road?:
Is Busway?:
Is Motorway?:

Schedule Criteria

Linked Segment?:
Include In Schedule: ☒

Road Measurements

Min. Width*: 4.00 m Max. Width*: 4.00 m
Measured Length: 0.00 m Computed Length: 807.69 m

Location

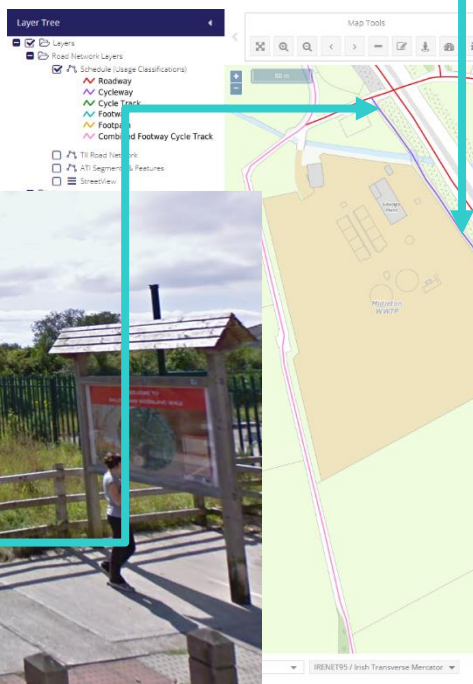
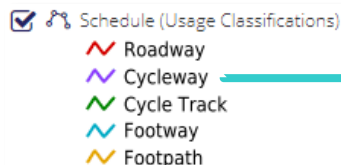
Starts at: Automatically populated when geometry is selected...
Via: Via... Flip start and End:
Ends at: Automatically populated when geometry is selected...
Engineering Area*: Middleton
Licensing Area*: Middleton
Municipal District: Municipal District of East Cork

Delete Zoom Refresh Save Cancel



Specify asset management tools for MapRoad

- Record of asset to enable:
 - Monitoring, planning and conditioning.
- Ability to control asset maintenance.



Inventory

- Schedule of Assets e.g. mapped infrastructure

Road Segment: L-36200-900

Administration Legacy Values History Files Geometry

Way Details

Type of Way*: Public Right of Way

Status*: Public Road

Usage Classification*: Cycleway

Classification

Segment ID*: L - 36200 - 900 L-36200-900

Classification: Local Tertiary

Name*: Geelscoil Link

Schemes

Is Protected Road?: ☐

Is Busway?: ☐

Is Motorway?: ☐

Schedule Criteria

Linked Segment?: ☐

Include In Schedule: ☒

Road Measurements

Min. Width*: 4.00 m

Max. Width*: 4.00 m

Measured Length: 0.00 m

Computed Length: 807.69 m

Location

Starts at: Automatically populated when geometry is selected...

Via: Via...

Ends at: Automatically populated when geometry is selected...

Engineering Area*: Midleton

Licensing Area*: Midleton

Municipal District: Municipal District of East Cork

Delete Zoom Refresh Save Cancel





- 2 Main components considered under asset management tools, these where:
 - Inventory
 - Projects

Inventory

- Schedule of Assets e.g. mapped infrastructure



Projects

- Anchored to Inventory

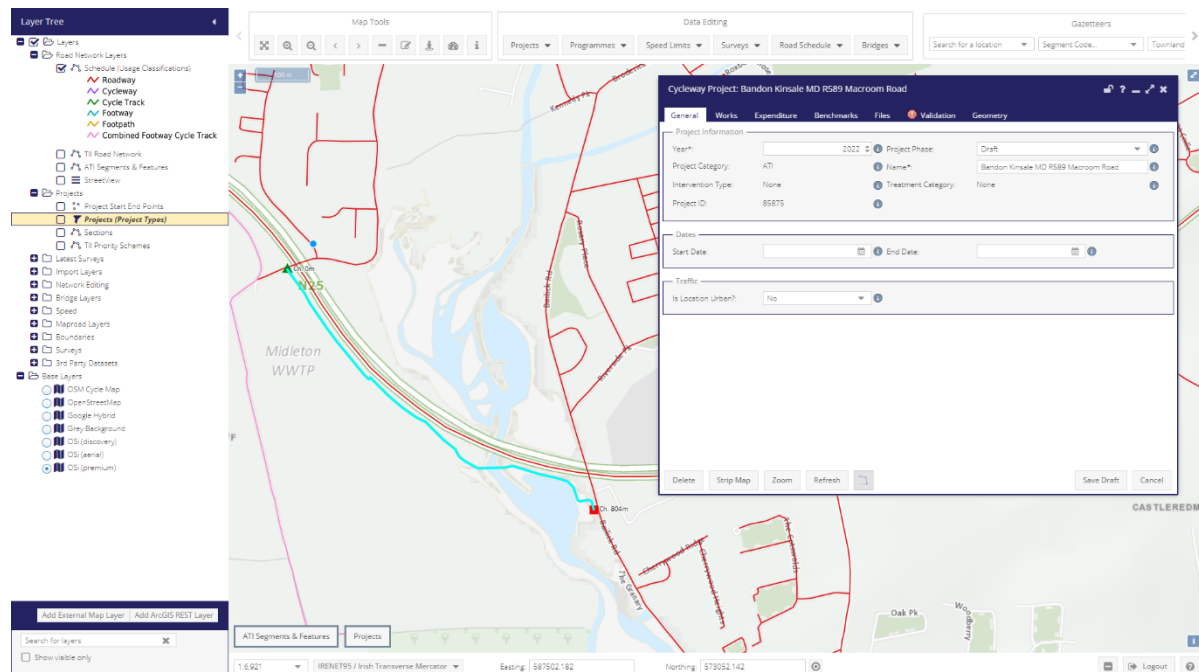


Specify asset
management tools
for MapRoad

Projects

- Anchored to Inventory

- Ability to capture projects on recorded Inventory e.g. Cycleways.



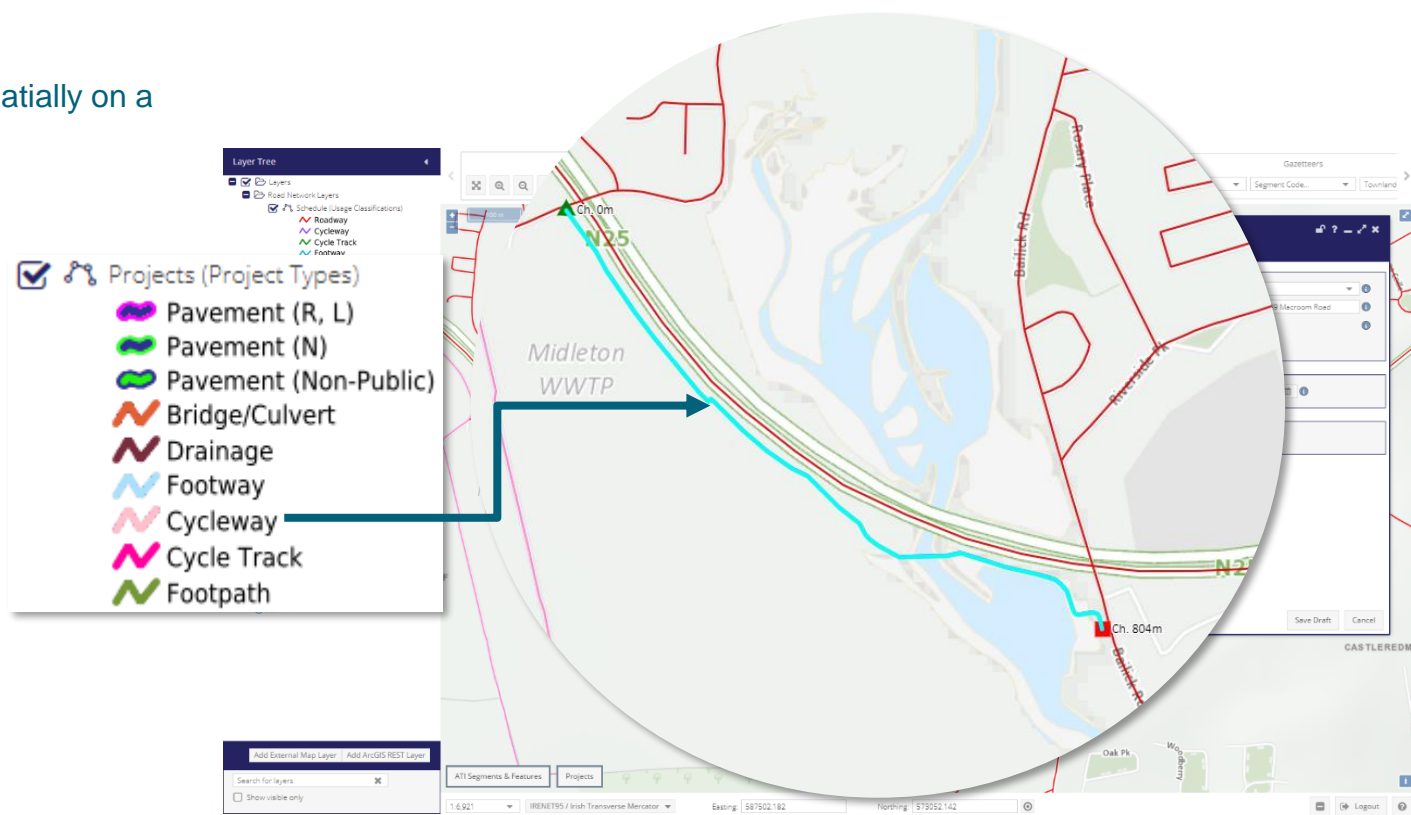


Specify asset
management tools
for MapRoad

Projects

- Anchored to Inventory

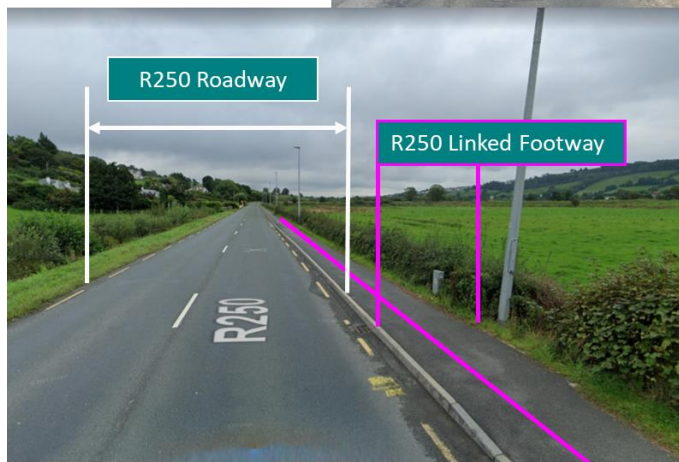
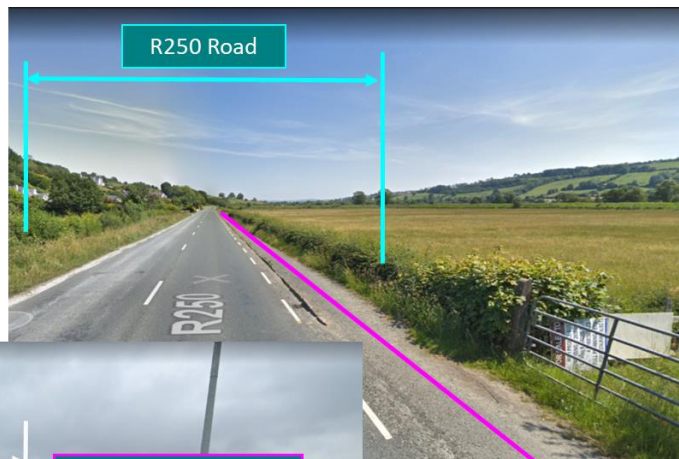
- Ability to view projects spatially on a map.





Specify asset
management tools
for MapRoad

Pre Project



Post Project

Projects

- Anchored to Inventory

New Road Segment: R-250-999

Way Details

Type of Way*: Public Right of Way

Status*: Public Road

Usage Classification*: Footway

Classification

Segment ID*: R-250 - 999 R-250-999

Classification: Regional Is Proposed?: ☐

Name*: RMO GTest

Schemes

Is Protected Road?: ☐

Is Busway?: ☐

Is Motorway?: ☐

Schedule Criteria

Linked Segment?: ☒

Include in Schedule: ☐

Road Measurements

Min. Width*: 2.00 m Max. Width*: 2.00 m

Measured Length: 10,000.00 m Computed Length: 0.00 m

Location

Starts at: Automatically populated when geometry is selected...

Via: Via... Flip start and End: ☐

Ends at: Automatically populated when geometry is selected...

Engineering Area*: Letterkenny Town

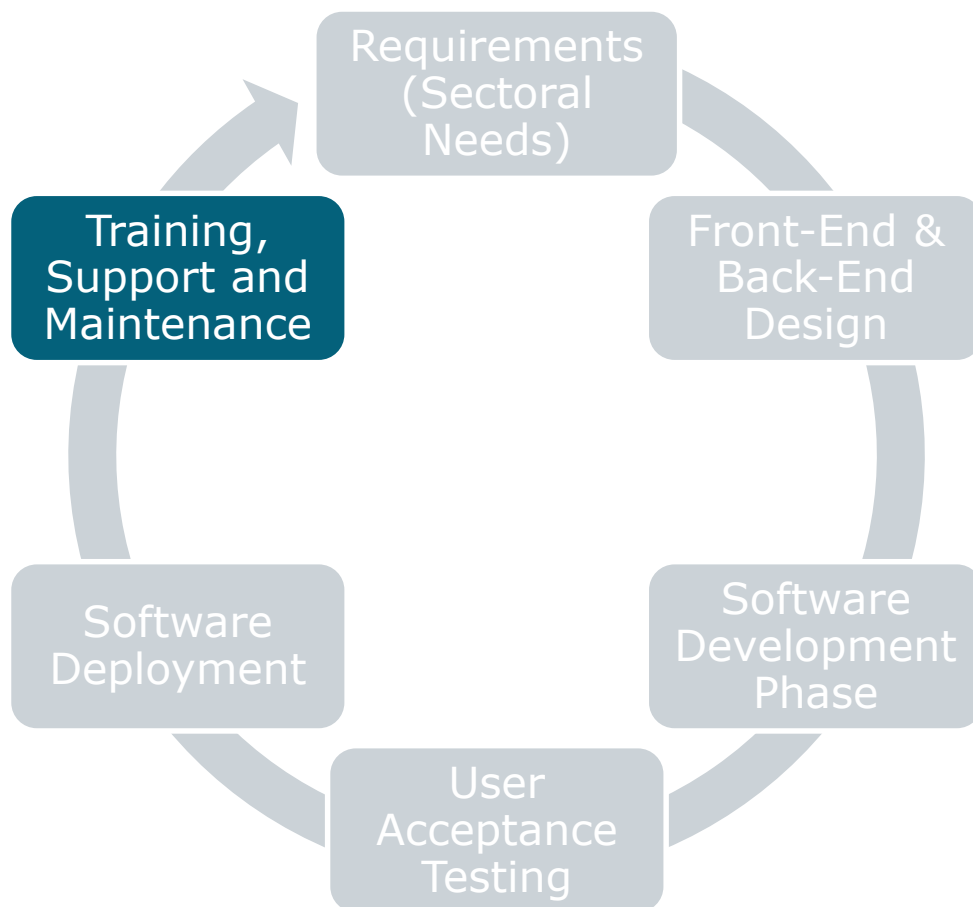
Licensing Area*: Letterkenny Town

Municipal District: Letterkenny Town...

Delete Zoom Refresh Save Cancel



Training Support & Maintenance Phase





Guidelines for use
of management
tools.

T3 Training Literature

MapRoad Asset
Management System

MAPROAD
Pavements

Tutorial Module

Infrastructure Type Glossary

Active Trave Infrastructure (ATI) Capturing and
Scheduling Inventory

MAPROAD
Pavements

Tutorial Module

Active Trave Infrastructure (ATI) Feature Capture

T3 ATI
Infrastructure
Type Glossary

T3 ATI
Capturing and
Scheduling
Inventory

T3 ATI Feature
Capture

T3 ATI
Programmes
and Project
Creation

Active Trave Infrastructure (ATI) Programmes and
Project Creation



Guidelines for use
of management
tools.

AT Workshop Schedule

Date	Workshop	Status	No. Participants
Q4 2022	MapRoad AT Introduction Workshop 1 (Management Level)	Delivered	20
Q4 2022	MapRoad AT Introduction Workshop 2 (Management Level)	Delivered	20
Q4 2022	MapRoad AT Introduction Workshop 3 (Management Level)	Delivered	20
Q1 2023	Regional AT Workshop (Technical level)	Delivered	91



Working together effectively
Ag obair go héifeachtach le chéile

Road Management Office MapRoad Active Travel Workshop 1



Working together effectively
Ag obair go héifeachtach le chéile

Road Management Office MapRoad Active Travel Regional Workshop



To Conclude

Review Cycling & Pedestrian
Infrastructure terminology



Review Cycling &
Pedestrian Infrastructure
terminology.



Specify and develop asset
management tools for MapRoad



Specify asset
management tools
for MapRoad

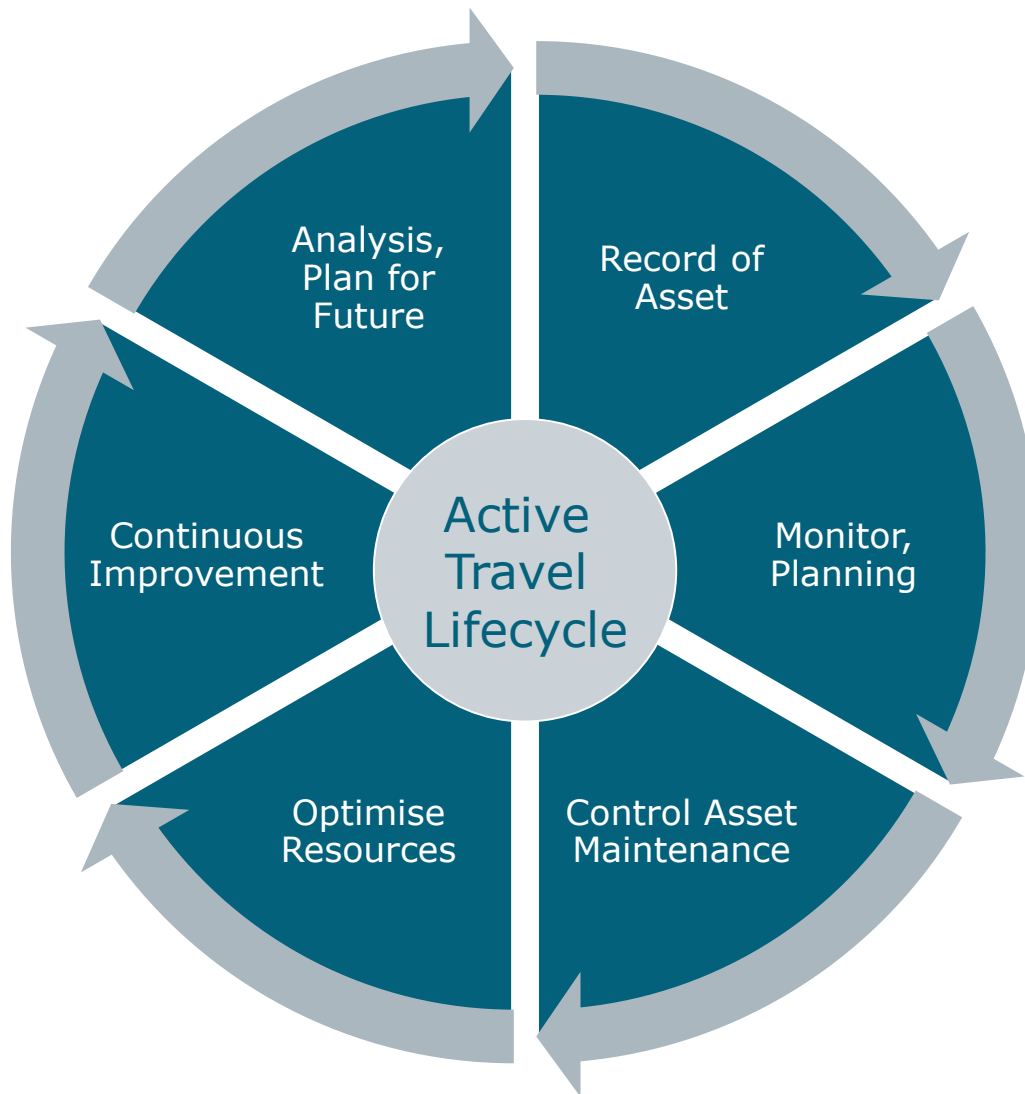


Guidelines / Training for use of
management tools



Guidelines for use
of management
tools.







To Conclude

- Continue to provide training and assistance to LA ATI users and stakeholders in capturing.
 - ATI Inventory
 - ATI Projects on MapRoad AMS
- Build and release MapRoad AMS 6.1 – ATI Module in Q3 2023.
 - Dynamic routing of Active travel network
 - Linking projects
 - Survey tool to capture Active travel widths



ATI Project Capture - Cork Co Co

- NTA ATI Grant 2022 - €20.5m
(32 No Projects Proposed)
- NTA ATI Grant 2023 - €22.2m
(41 No Projects Proposed)

Table A: Cork County Council

Active Travel Investment Grants: 2022 Allocations		
Project Code	Project Name	2022 Allocation
Cork County Council		
CCO/20/0003	Ballinrea Road	€50,000
CCO/20/0004	Dunkettle - Carrigtwohill (old N25) - Phase 1 - Glounthane	€95,000
CCO/20/0004	Dunkettle - Carrigtwohill (old N25) - Phase 2 - Dunkettle to Glanmire	€1,050,000
CCO/20/0005	Carrigaline - Ringaskiddy and Passage	€600,000
CCO/20/0006	Ballinacurra - Middleton	€600,000

CCO/20/0010	Litt
CCO/21/0001	Cot
CCO/21/0002	Bot
CCO/21/0003	Car
CCO/21/0004	Saf
CCO/21/0005	Bar
CCO/21/0006	Bar
CCO/21/0007	Car
CCO/21/0008	Cot
CCO/21/0009	Fer
CCO/21/0010	Ma
CCO/21/0011	Ma
CCO/21/0013	Put
CCO/21/0014	Ski
CCO/21/0015	Yo
CCO/22/xxxx	Bal
	we

2022 Active Travel Funding

Table A: Cork County Council

Active Travel Investment Grants: 2023 Allocations		
Project Code	Project Name	2023 Allocation
Cork County Council		
CCO/20/0004	Dunkettle - Carrigtwohill (old N25) - Phase 1 and 2 (Active Travel Pathfinder)	€ 280,000
CCO/20/0010	Little Island - Multi-modal infrastructure	€ 400,000
CCO/21/0001	Cobh Ferry to Train Station Active Travel Route	€ 60,000
CCO/21/0002	Bothar Guidel - Active Travel Elements	€ 515,000
CCO/22/0002	Dunkettle - Carrigtwohill (old N25) - Phase 3 - Dunkettle to Fitzpatrick's (Active Travel Pathfinder)	€ 3,400,000
CCO/22/0003	Cycle facilities - Capital Investment and Asset Management (Road Sweepers and Other Plant)	€ 20,000
CCO/22/0004	Ballinacurra - Middleton Pedestrian and Cycle Route (Phase 1 Ballynanna woods, Car Park to Broderick St)	€ 3,400,000
CCO/22/0005	Carrigaline - Ringaskiddy and Passage (Phase 1 Rafeen to Passage)	€ 1,500,000
CCO/22/0006	Little Island - Active Travel Bridge	€ 100,000
CCO/22/0009	Cork County Council Active Travel Office - Staff Costs	€ 1,000,000
CCO/22/0010	Cycle Parking	€ 40,000
CCO/22/0011	Bothar Guidel - Active Travel Bridge	€ 150,000
CCO/22/0012	Dunkettle - Carrigtwohill (old N25) - Phase 4 (Active Travel Pathfinder)	€ 1,500,000
CCO/22/0014	Bandon TPREP - Phase 1 Ballymodan Place	€ 3,200,000
CCO/23/XXXX	Carrigaline - Active Travel Scheme (Bridgemount Link)	€ 800,000
CCO/23/XXXX	Carrigaline - Active Travel Scheme (Main St)	€ 150,000
CCO/23/XXXX	Soccer Club Road / CWRR / Pottery Road - Active Travel Interventions	€ 110,000
CCO/23/XXXX	Carrigaline - Ringaskiddy and Passage (Phase 2 Rafeen to Carrigaline)	€ 250,000
CCO/23/XXXX	Carrigaline - Ringaskiddy and Passage (Phase 3 Carrigaline to Ringaskiddy)	€ 100,000
CCO/23/XXXX	Ballinacurra - Middleton Pedestrian and Cycle Route (Phases 2 - 4)	€ 690,000

2023 Active Travel Funding

Cork County Council



How were ATI Projects Identified and Selected?

- Initial review of Cork County Council's ATI's. This included projects related to cycling infrastructure, pedestrian pathways and all initiatives aimed at promoting active modes of transportation.
- Project relevance assessment for each ATI in the context of the MapRoad AMS considering the capture and management of project data, tracking progress, and facilitating communication among project stakeholders.
- Projects recorded in MapRoad AMS can provide valuable data or insights, have a significant influence on transportation networks, infrastructure, or active travel patterns in County Cork.
- Projects with readily available data, such as project plans, timelines, budgets, and performance metrics can be easily captured in MapRoad AMS.



How were ATI Projects Identified and Selected?

- Projects prioritized based on relevance, impact, and data availability. The Focus was on selecting a manageable sample of projects that could be effectively captured within the MapRoad AMS system, considering the available resources and timeline.
- Once Projects were selected their details were documented, including project descriptions, widths, lengths, materials, budgets and other relevant metrics.
- Engagement with relevant stakeholders, such as project managers, engineers, planners, and data providers was undertaken ensuring a collaborative approach, verification of project details and addressing of any concerns
- By following this approach 3 of the ATI Projects from Cork County Council's portfolio were successfully integrated into the MapRoad AMS delivering effective project capture and management.

A Sample of ATI Projects Captured on MapRoad AMS

1. CCO/20/0006 Middleton Gaelscoil Link
2. CCO/22/0002 Strategic Cycle Corridors - Old N25 Dunkettle - Carrigtwohill Phase 3
3. CCO/22/0013 Carrigaline TPREP



Project 1:
CCO/20/0006 Middleton
Gaelscoil Link

Cycleway Project: CCO/20/0006 Gaelscoil Link Part B

General Works Expenditure Benchmarks Files Validation Geometry

Project Information

Year*: 2021 Project Phase: Planned

Project Category: ATI Name*: CCO/20/0006 Gaelscoil Link Part B

Intervention Type: None Treatment Category: None

Project ID: 106537

Dates

Start Date: 01-06-2021 End Date: 01-10-2021

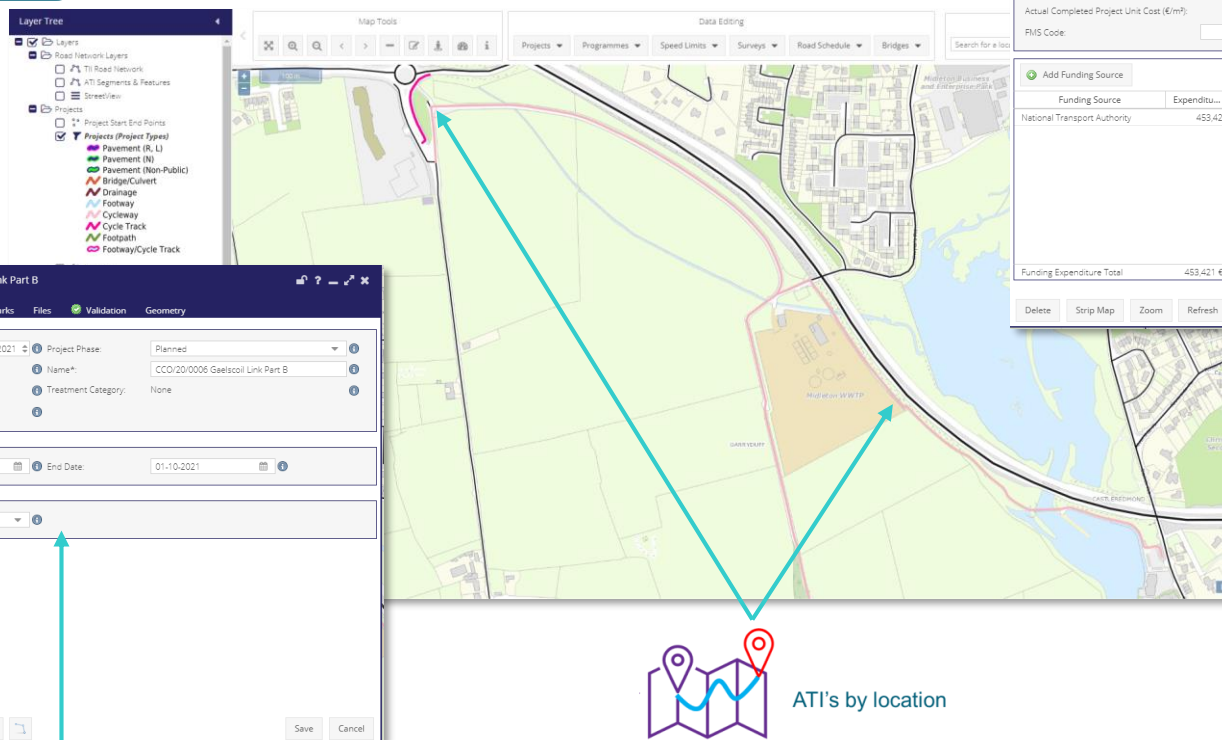
Traffic

Is Location Urban?: No

Delete Strip Map Zoom Refresh Save Cancel



No. off, Length,
width, area



ATI's by location

Cycleway Project: CCO/20/0006 Gaelscoil Link Part B

General Works Expenditure Benchmarks Files Validation Geometry

Project Expenditure

Estimated Project Cost (€): € 453,421.29

Estimated Project Unit Cost (€/m³): € 0.00

Material Costs (€): € 0.00

Actual Project Cost (€): € 453,421.29

Actual Completed Project Unit Cost (€/m³): € 0.00

RMS Code:

Add Funding Source

Funding Source	Expenditure...	% Estimated	% Actual	Programme
National Transport Authority	453,421 €	100%	100%	2021 NTA Active Travel

Funding Expenditure Total: 453,421 € 100% 100%

Delete Strip Map Zoom Refresh Save Cancel



Expenditure



An Roinn Iompair
Department of Transport







































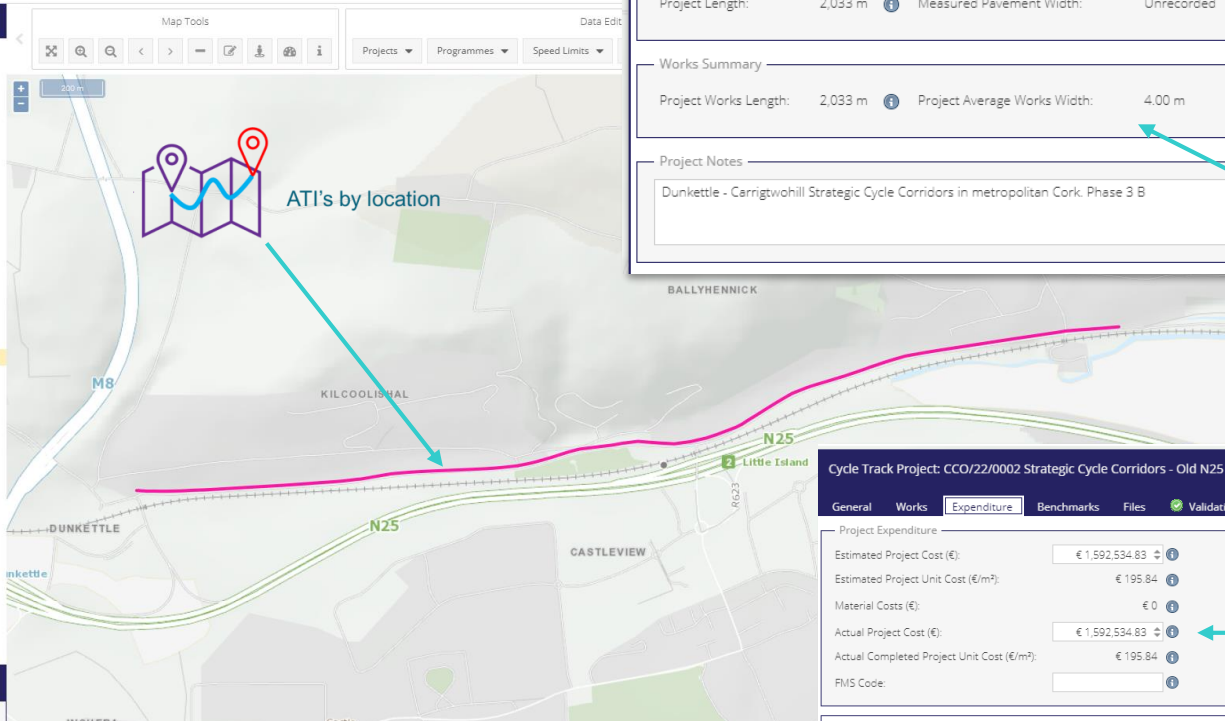
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association



Project 2: CCO/22/0002 Strategic Cycle Corridors - Old N25 Dunkettle - Carrigtwohill Phase 3

Layer Tree

- ☒  Layers
 - ☒  Road Network Layers
 - ☐  TII Road Network
 - ☐  ATI Segments & Features
 - ☐  StreetView
 - ☒  Projects
 - ☐  Project Start End Points
 - ☒  **Projects (Project Types)**
 -  Pavement (R, L)
 -  Pavement (N)
 -  Pavement (Non-Public)
 -  Bridge/Culvert
 -  Drainage
 -  Footway
 -  Cycleway
 -  Cycle Track
 -  Footpath
 -  Footway/Cycle Track
 - ☐  Sections
 - ☐  TII Priority Schemes
 - ☐  Schedule (Basic)
 - ☒  Latest Surveys
 - ☒  Import Layers
 - ☒  Network Editing
 - ☒  Bridge Layers
 - ☒  Speed
 - ☒  Maproad Layers
 - ☒  Boundaries
 - ☒  Surveys
 - ☒  3rd Party Datasets
 - ☒  Base Layers
 - ☐  OSM Cycle Map
 - ☐  OpenStreetMap
 - ☐  Google Hybrid
 - ☐  Grey Background
 - ☐  OSI (discovery)
 - ☐ OSI (aerial)
 - ☒ OSI (premium)



Cycle Track Project: CCO/22/0002 Strategic Cycle Corridors - Old N25 Dunkettle - Carrigtohill Phase 3 Pa...

General | **Works** | Expenditure | Benchmarks | Files | Validation | Geometry

Mapped/Site Summary

Project Length: 2,033 m Measured Pavement Width: Unrecorded Road Schedule Width: 3.50 m

Works Summary

Project Works Length: 2,033 m Project Average Works Width: 4.00 m Project Works Area: 8,132 m²

Project Notes

Dunkettle - Carrigtohill Strategic Cycle Corridors in metropolitan Cork: Phase 3 B

No. off, Length, width, area

Cycle Track Project: CCO/22/0002 Strategic Cycle Corridors - Old N25 Dunkettle - Carrigtohill Phase 3 Pa...

General Works **Expenditure** Benchmarks Files Validation Geometry

Project Expenditure

- Estimated Project Cost (€): € 1,592,534.83
- Estimated Project Unit Cost (€/m²): € 195.84
- Material Costs (€): € 0
- Actual Project Cost (€): € 1,592,534.83
- Actual Completed Project Unit Cost (€/m²): € 195.84
- FMS Code:

Expenditure

Funding Source	Expenditu...	% Estimated	% Actual	Programme
National Transport Authority	1,592,535 €	100%	100%	2022 NTA Active Travel



Project 3: CCO/22/0013 Carrigaline TPREP

Layer Tree

- Layers
 - Road Network Layers
 - TII Road Network
 - ATI Segments & Features
 - StreetView
 - Projects
 - Project Start End Points
 - Projects (Project Types)
 - Pavement (R, L)
 - Pavement (N)
 - Pavement (Non-Public)
 - Bridge/Culvert
 - Drainage
 - Footway
 - Cycleway
 - Cycle Track
 - Footpath
 - Footway/Cycle Track
 - Sections
 - TII Priority Schemes
 - Schedule (Basic)
 - Latest Surveys
 - Import Layers
 - Network Editing
 - Bridge Layers
 - Speed
 - Maproad Layers
 - Boundaries
 - Surveys
 - 3rd Party Datasets
 - Base Layers
 - OSM Cycle Map
 - OpenStreetMap
 - Google Hybrid
 - Grey Background
 - OS (discovery)
 - OS (aerial)
 - OS (premium)

Map Tools

Data Editing

Projects Programmes Speed Limits Surveys Road S

ATI's by location

Cycle Track Project: CCO/22/0013 Carrigaline TPREP Part A

General Works Expenditure Benchmarks Files Validation Geometry

Mapped/Site Summary

Project Length: 1,012 m Measured Pavement Width: Unrecorded Road Schedule Width: 3.60 m

Works Summary

Project Works Length: 1,012 m Project Average Works Width: 4.00 m Project Works Area: 4,048 m²

Project Notes

Implementation of active travel measures within the construction of the Carrigaline Western Relief Road scheme.

Works Grid

Section		Length (m)	Section Width (m)		No. of Lane(s)	
0 m - 1012 m		1,012	4.00		2	
Layer	Material	Designation	Thickness	Chip Size	Works By	Contractor
Lane 1/2 Width: 2.00 m Construction Method: New Construction Intervention: NC						
Surface Course	Concrete	C32/40	150		Contractor	
Binder Course			0			
Base			0			
Geosynthetics			0			
Sub base	Unbound	Granular Mat...	150		Contractor	
Capping			0			
			300 mm			
Lane 2/2 Width: 2.00 m Construction Method: New Construction Intervention: NC						
			230 mm			



Analysis; materials,
condition, maintenance



Programme Outputs

Programme: 2022 NTA Active Travel

General | Other Expenditure | Validation | Files

Details

Name*: 2022 NTA Active Travel
Code*: 2022-AT-NTA
Year*: 2022
Funding Source*: National Transport Authority
Description: NTA Funded Active Travel Projects in Cork County Council for 2022

Priority	Name	Municipal District	Estimated Unit Cost	Actual Unit Cost	Funding Exp.	% Fund...	Phase		Remove
1	CCO/22/0002 Strategic Cycle Corridors - Old N25 Dunkettle - Carrigrohilly Phase 3...	Municipal District of Cobh	195.84 €	195.84 €	977.811 €	100%	Complete		
2	CCO/22/0002 Strategic Cycle Corridors - Old N25 Dunkettle - Carrigrohilly Phase 3...	Municipal District of Cobh	195.84 €	195.84 €	1,592.535 €	100%	Complete		
3	CCO/22/0013 Carrigaline TPREP Part A	Municipal District of Carrigaline	390.20 €	390.20 €	1,579.520 €	100%	Complete		
4	CCO/22/0013 Carrigaline TPREP Part B	Municipal District of Carrigaline	390.20 €	390.20 €	619.634 €	100%	Complete		
Projects			Actual Expenditure Total		4,769.300 €				
Projects			Funding Expenditure Total		4,769.300 €				
Other Expenditure			Funding Expenditure Total		6,525.845 €				
Programme			Funding Expenditure Total		11,295.14 €				

Delete Export Zoom Refresh



Project
Expenditure
(Spatial)



Other
Expenditure
(Non-Spatial)

Programme: 2022 NTA Active Travel

General | Other Expenditure | Validation | Files

Add Expense

Category	Description	Value	
AT1 Category D Project	156 CCO/22/0024 Carrigaline - TPREP Phase 1 Implementation	1,050,000 €	
AT1 Category D Project	155 CCO/22/0023 Cycle Parking	60,000 €	
AT1 Category D Project	154 CCO/22/0022 Cork County Council Active Travel Office - Staff Costs	1,115,845 €	
AT1 Category D Project	153 CCO/22/0021 Cycle Facilities - Capital Investment and Asset Management (Road Sweepers and...	700,000 €	
AT1 Category B Project	149 CCO/22/0017 Carrigaline - Ringskiddy and Passage (Phase 1 Referen to Passage)	1,000,000 €	
AT1 Category B Project	148 CCO/22/0016 Ballinacurre - Middleton Pedestrian and Cycle Route (Phase 1 Ballinacurre woods...	1,150,000 €	
AT1 Category D Project	137 CCO/21/0004 Safe to Schools Programme - Support Infrastructure	450,000 €	
AT1 Category B Project	135 CCO/21/0002 Bothar Guide!	400,000 €	
AT1 Category B Project	131 CCO/20/0005 Carrigaline - Ringskiddy and Passage	600,000 €	
Total:		6,525,845 €	

Delete Export Zoom Refresh Save Cancel



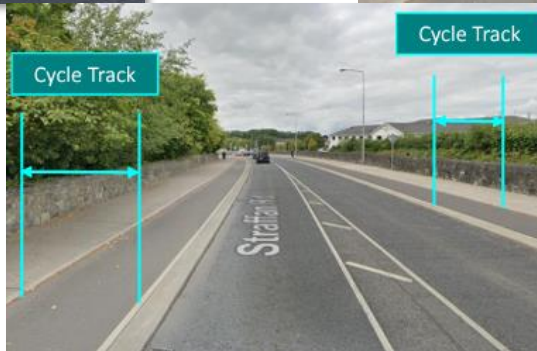
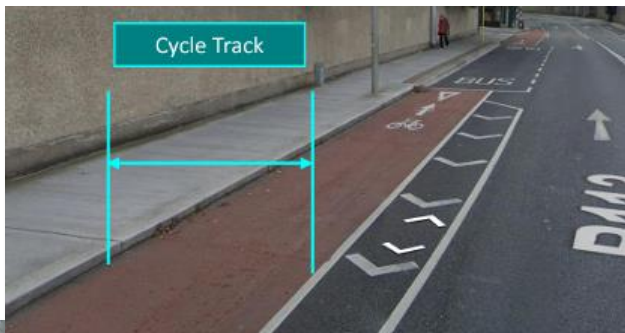
How Inventory and Projects were Captured on MapRoad AMS

1. Desktop Study to collect ATI Data:

- Gathering information on Cycle-tracks (on/off roadway), Cycleways, Footways, Footpaths, and any other elements related to active travel.

2. Mapping of Projects:

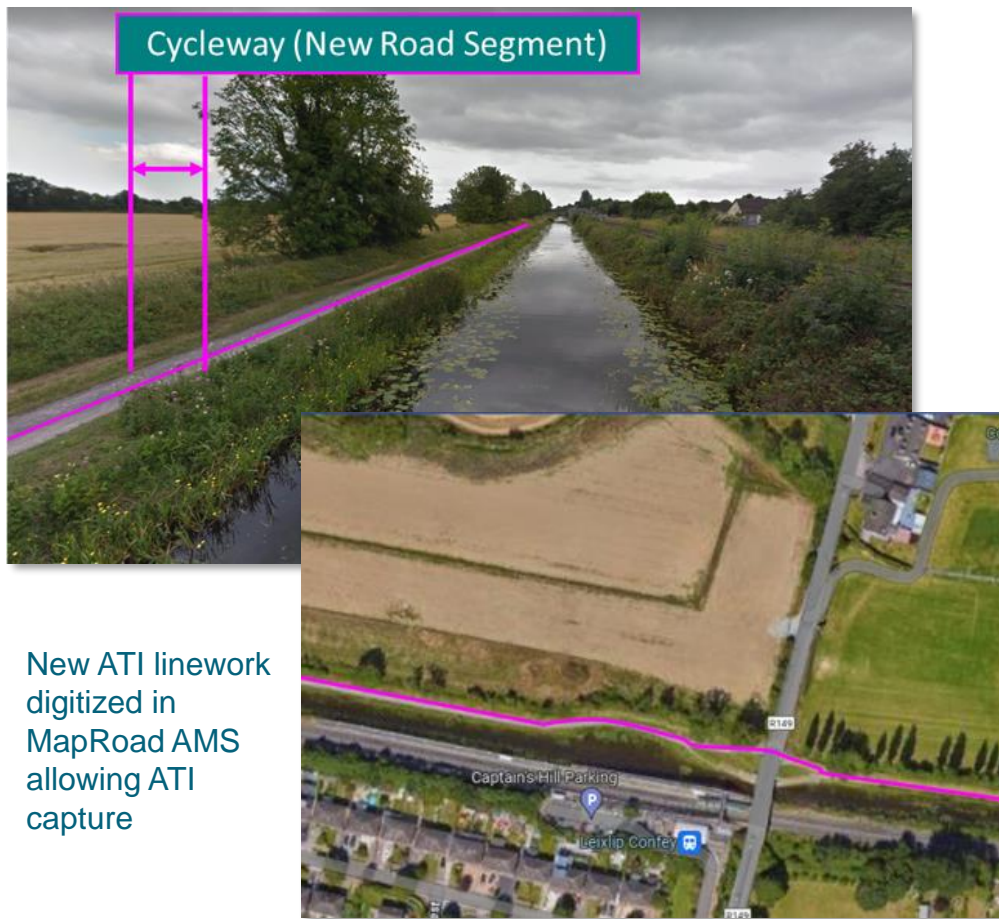
- Capturing new inventory linework or using existing MapRoad AMS linework for spatially recording, visualizing and analyzing of project data.





How Inventory and Projects were Captured on MapRoad AMS

Capturing new ATI linework



New ATI linework digitized in MapRoad AMS allowing ATI capture

New Road Segment: L-12345-999

Navigation: Road Details | Administration | Legacy Values | History | Files | Geometry

Way Details

Type of Way*: Public Right of Way ⓘ

Status*: Public Road ⓘ

Usage Classification*: Cycleway ⓘ

Classification

Segment ID*: L - 12345 ⓘ - 999 ⓘ L-12345-999 ⓘ

Classification: Local Tertiary ⓘ

Name*: RMO Greenway ⓘ

Is Proposed?: ☐ ⓘ

Schemes

Is Protected Road?: ☐ ⓘ

Is Busway?: ☐ ⓘ

Is Motorway?: ☐ ⓘ

Schedule Criteria

Linked Segment?: ☐ ⓘ

Include In Schedule: ☒ ⓘ

Road Measurements

Min. Width*: 3.00 m ⓘ

Max. Width*: 3.00 m ⓘ

Measured Length: 10,000.00 m ⓘ

Computed Length: 0.00 m ⓘ

Location

Starts at: Automatically populated when geometry is selected... ⓘ

Via: Via... ⓘ

Ends at: Automatically populated when geometry is selected... ⓘ

Engineering Area*: Letterkenny Town ⓘ

Licensing Area*: Letterkenny Town ⓘ

Municipal District: Municipal District... ⓘ

Buttons: Delete | Zoom | Refresh | Save | Cancel



How Inventory and Projects were Captured on MapRoad AMS

Using existing MapRoad AMS linework

The screenshot displays the MapRoad AMS interface. On the left, the 'ATI Feature' form is open, showing details for a road segment. The form includes fields for Road Number (R-113), Classification (Regional), Name (Newtownpark Road ATI North Bound), Offset (-4), Type of Way (Public Right of Way), Status (Public Road), Usage Classification (Cycle Track), and Is on Roadway? (checked). It also shows ATI Measurements: Length (749.39 m), Measured Length (753.00 m), and Average Width (1.50 m). The Location section shows Start At (Junction L-1068) and Ends At (Junction R-827). The form has buttons for Delete, Zoom, Save, and Cancel. The main map area shows a street network with a highlighted green line representing the ATI linework. A Google Street View inset shows a street-level view of the road. The bottom of the interface shows the 'ATI Segments & Features' panel and the map's coordinate system (IRNET95 / Irish Transverse Mercator) with Easting (723038.004) and Northing (728570.707) coordinates.

Existing MapRoad
AMS Linework
allowing ATI
capture



How Inventory and Projects were Captured on MapRoad AMS

Data Input:

Project data is manually input into the MapRoad Asset Management System using dropdown menus, free text entry and spatial capture tools. This system is a centralized database for managing and maintaining information about ATI.

Categorization and Classification:

Once the data is input it is categorized and classified based on predefined ATI criteria. This allows for easy searching, filtering, and analysis of ATI assets. For example, different types of ATI may be grouped together based on their characteristics or purpose.

Visualization:

The MapRoad Asset Management System displays data spatially. Users can view the assets and projects in their spatial context and perform spatial queries to extract specific information.

Tracking and Updating:

The system allows for the tracking and updating of ATI and projects. Changes or additions to the infrastructure can be recorded and reflected in the system to maintain an up-to-date representation of the assets.

Analysis and Reporting:

The MapRoad Asset Management System can offer various analytical capabilities to assess ATI. Reports and visualizations can be generated to provide insights for decision-making, planning, and resource allocation.



Attributes and Information Captured in MapRoad AMS

Information Capture at
Individual Project and
Authority Wide
Programme Levels

Layer Tree

- Layers
 - Road Network Layers
 - Road Schedule (Basic)
 - Traffic Road Network
 - Road Junctions
 - Street View
 - Project
 - Latest Surveys
 - Network Editing
 - Bridge Layers
 - Street
 - Magroad Layers
 - Boundaries
 - Surveys
 - Site Party Datasets
 - Base Layers
 - OpenStreetMap
 - Google Hybrid
 - OS Background
 - OS (discovery)
 - OS (aerial)
 - OS (premium)

Map Tools

Projects | Programmes | Speed Limits | Surveys | Road Schedule | Bridges

Search for a location | Segment Code | Tourstart

Google Street View Image Date: 2021-05

48 Newtownpark Ave
Dublin, County Dublin
View on Google Maps

© 2022 Google | Terms of Use | Report a problem

Regional and Local Road Project: CPI Case Study Newtownpark Avenue

General | Works | Expenditure | Benchmarks | Chronology | Files | Validation | Geometry

Mapped/Site Summary

- Project Length: 700 m
- Measured Pavement Width: Unrecorded
- Road Schedule Width: 8.60 m

Works Summary

- Project Works Length: 0 m
- Project Average Works Width: 0.00 m
- Project Works Area: 0 m2

Project Notes

- Reconfiguration of Road markings: See works Grid
- Installation of Composite Kerbs and Bollards across the length of the projects

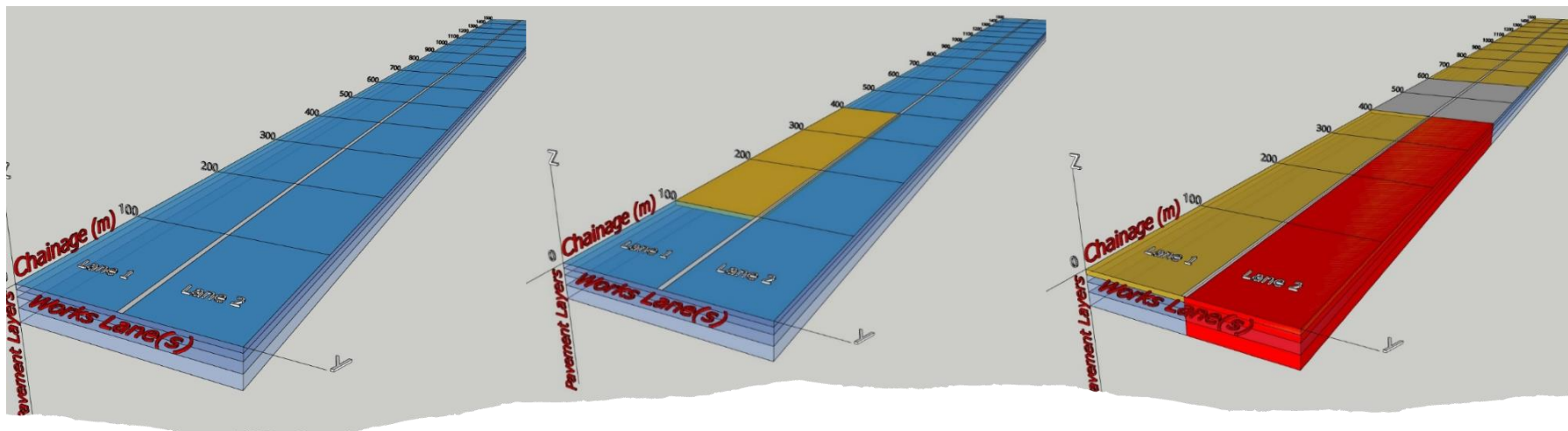
Works Grid

- 0 m - 700 m
- Section
- Length (m): 700
- Section Width (m): 9.00
- No. of Lanes: 4

Layer	Material	Designation	Thickness	Chip Size	Works By	Contractor	Length (m)	Width (m)	Area (m2)	Volume (m3)
Lane 1/4 Width: 1.50 m Construction Method: At Grade Intervention: None										
Surface Course	Asphalt		0	0			700.00	1.5	1,050	0
Binder Course	Concrete		0	0			700.00	1.5	1,050	0
Base	Cobbles		0	0			700.00	1.5	1,050	0
Geosynthetics	Concrete		0	0			700.00	1.5	1,050	0
Sub base	Hot Rolled Asphalt		0	0			700.00	1.5	1,050	0
Capping	Asphalt		0	0			700.00	1.5	1,050	0
Lane 2/4 Width: 3.00 m Const										
	Gravel		0	0			700.00	1.5	1,050	0
	Blurry		0	0			700.00	1.5	1,050	0
	Surfacing		0	0			700.00	1.5	1,050	0
Lane 3/4 Width: 3.00 m Const										
	Stone Mastic		0	0			700.00	1.5	1,050	0
	Asphalt		0	0			700.00	1.5	1,050	0
	Surface		0	0			700.00	1.5	1,050	0
	Dressing		0	0			700.00	1.5	1,050	0



Attributes and Information Captured in MapRoad AMS

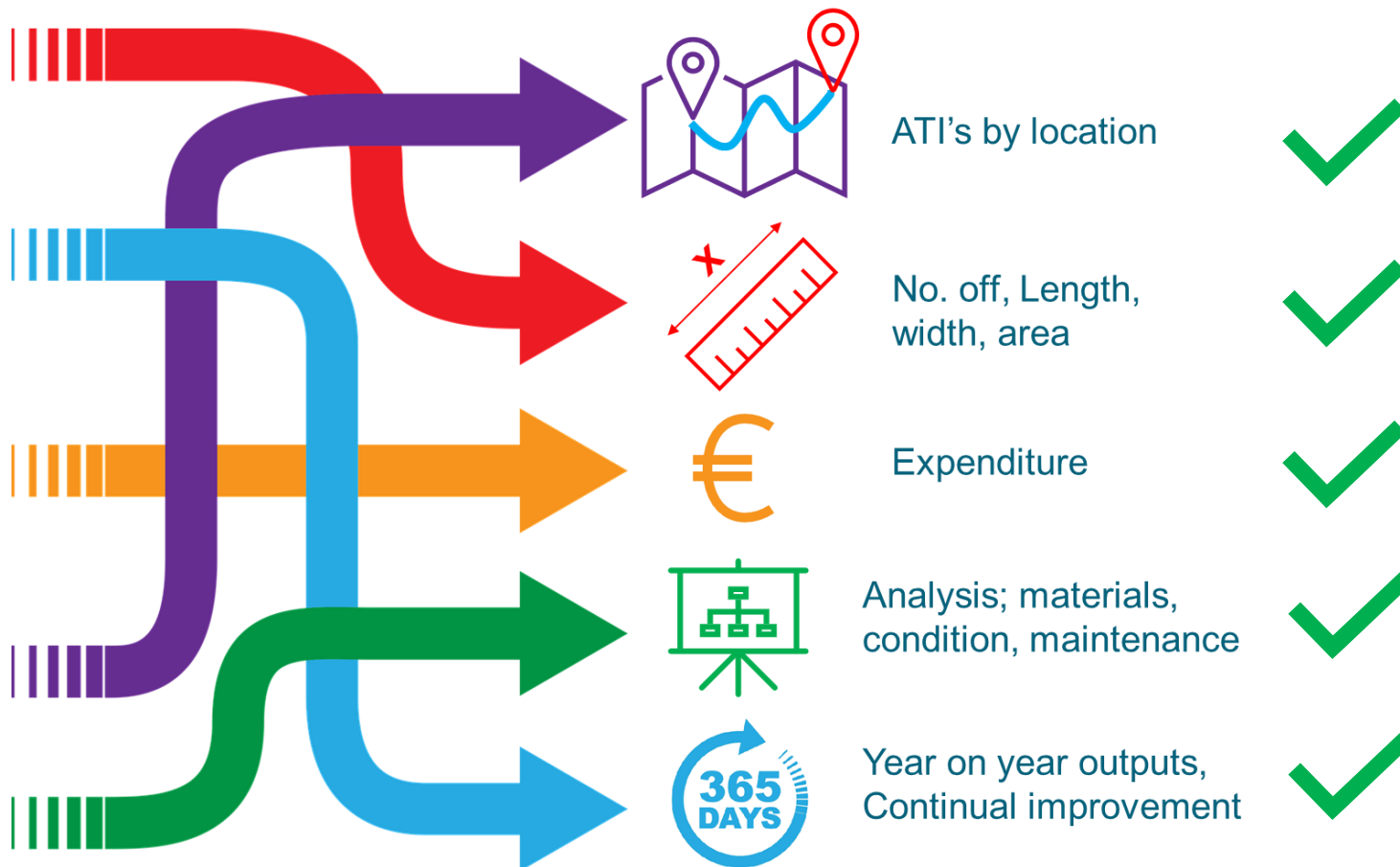


MapRoad AMS Project Outturns

- **X - Chainage (m):** Longitudinal distance in meters along a road pavement.
- **Y - Lane(s):** Transverse distance in meters across a road pavement.
- **Z - Pavement Layers:** Thickness in mm by road pavement layer.



Attributes and Information Captured in MapRoad AMS





To Conclude

- I would like to express appreciation for the invaluable support and guidance the RMO have provided me in getting up to speed on MapRoad Asset Management System. Your assistance has been instrumental in enabling me to quickly familiarize myself with the intricacies of the system
- As a result of your support, I now feel confident in my ability to utilize the Asset Management System to its full potential, ensuring accurate and efficient management of our county wide assets. This newfound proficiency will undoubtedly contribute to the overall success of our Active Travel team and the organization as a whole.
- I look forward to continuing to collaborate and contribute effectively to our shared objectives.



An Roinn Iompair
Department of Transport



Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Thank You

Contact@rmo.ie





An Roinn Iompair
Department of Transport



Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

RSTG Conference 2023 9th May - Day 1
9th May - Day 1
Networking \Exhibition & Coffee Break
We will resume at 14.25 pm

Session 3- Climate Considerations

Chair Siobhan McNulty

1st Climate Action Plan 23 - Naoise Grisewood

2nd Fleet Management –Brendan O'Donnell

3rd Reclaimed Asphalt Pavement-Kevin West & Alan Anderson

Join the Q&A session at Slido.com and enter 1685372

Or via the QR Code

