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

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

LOCAL AUTHORITY ROADS CONFERENCE and EXHIBITION – 2023

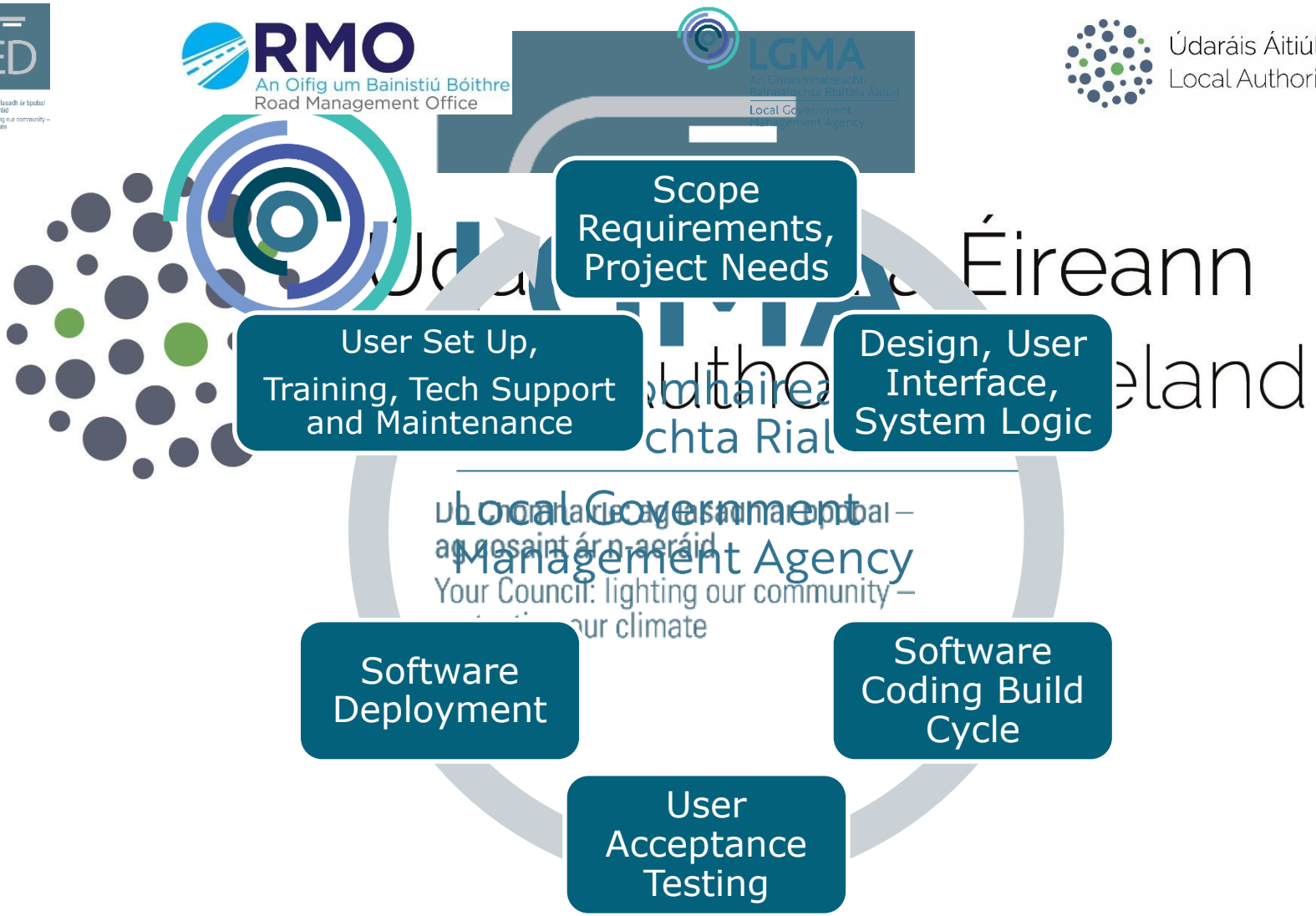
Capturing & Managing MapRoad Public Lighting (MPL) Infrastructure to Support the PLEEP PL Contracts

Henry Spratt
Project Manager
Road Management Office

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

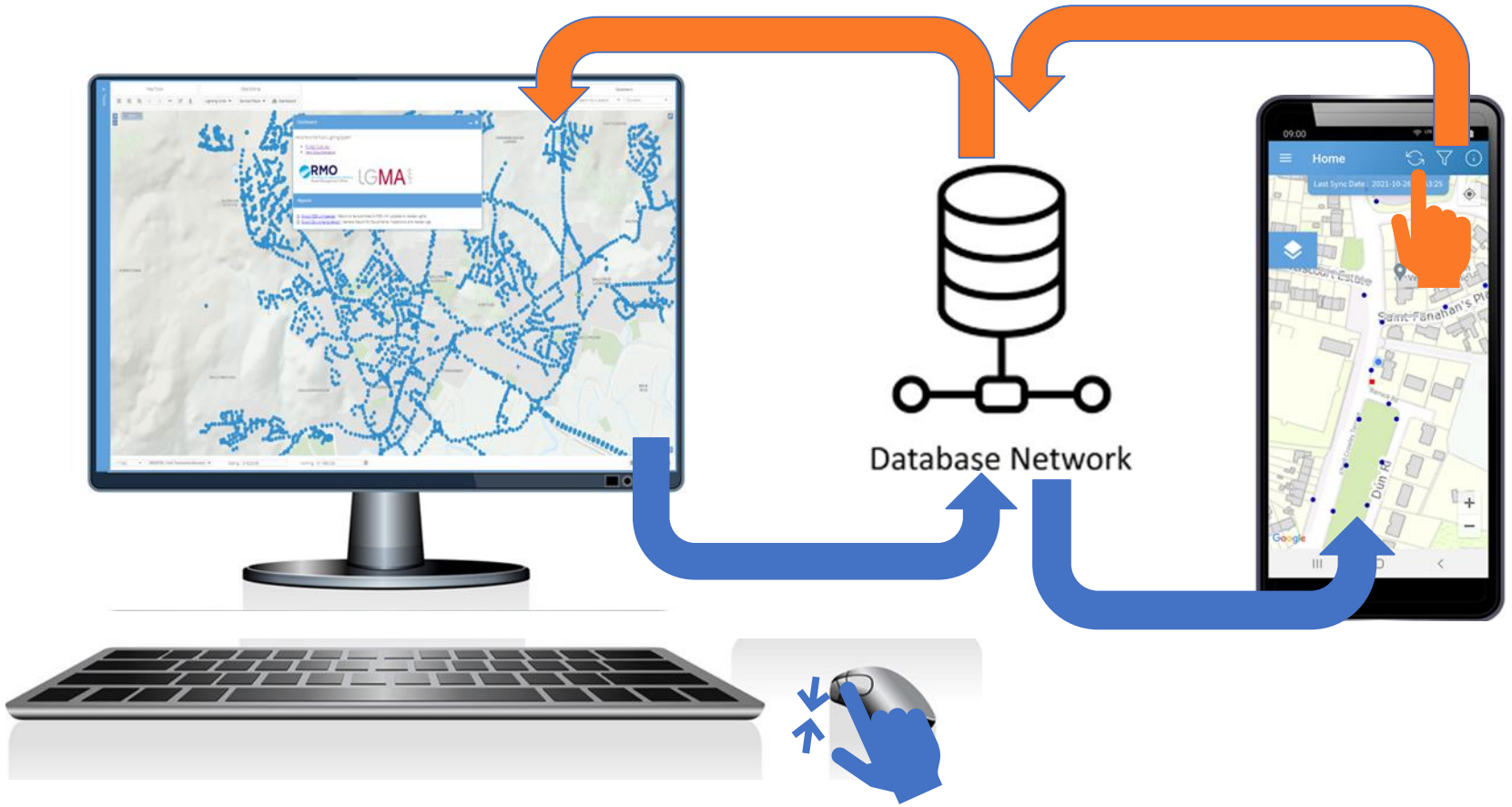
An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association



An Roinn Iompair
Department of Transport

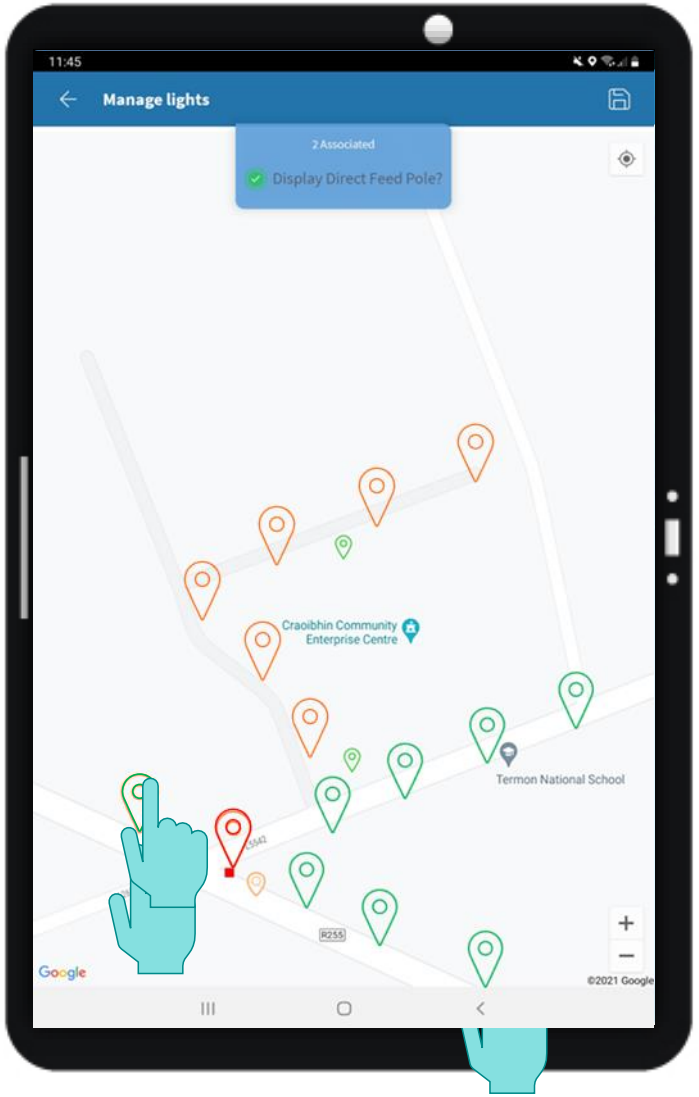
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

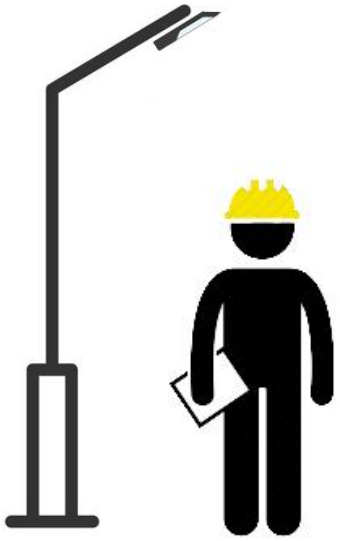


Survey in scope completed

Inventory Data
Condition Rating

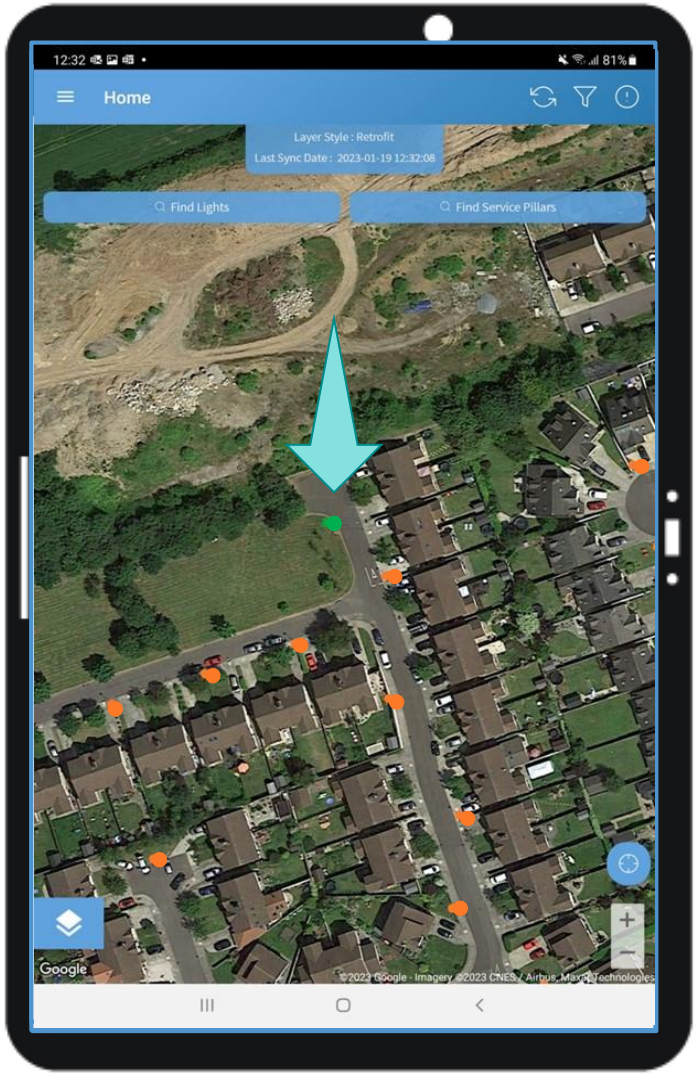
Gallery
Delete
Manage Lights

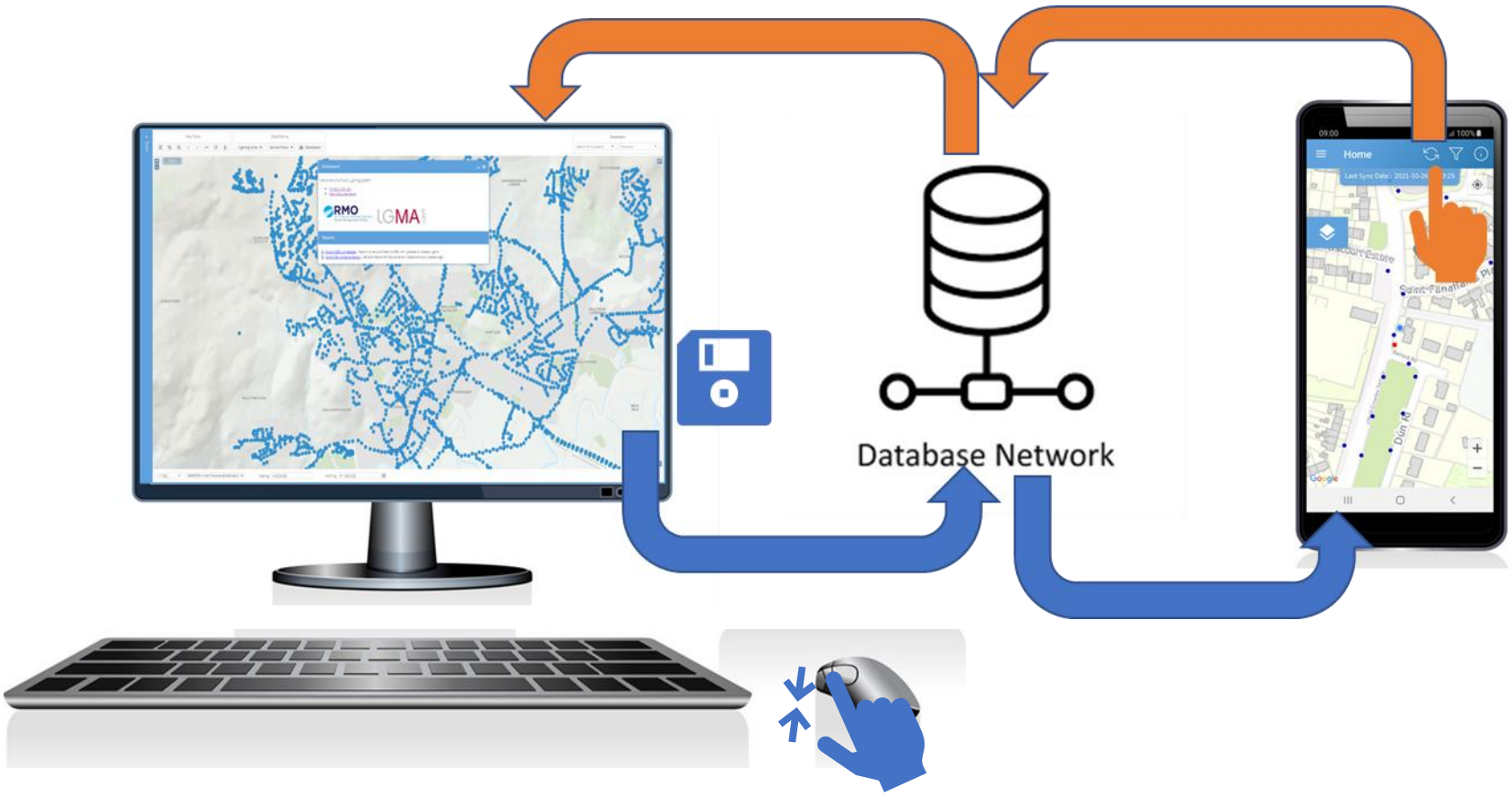




Retrofit in scope completed

Retrofit

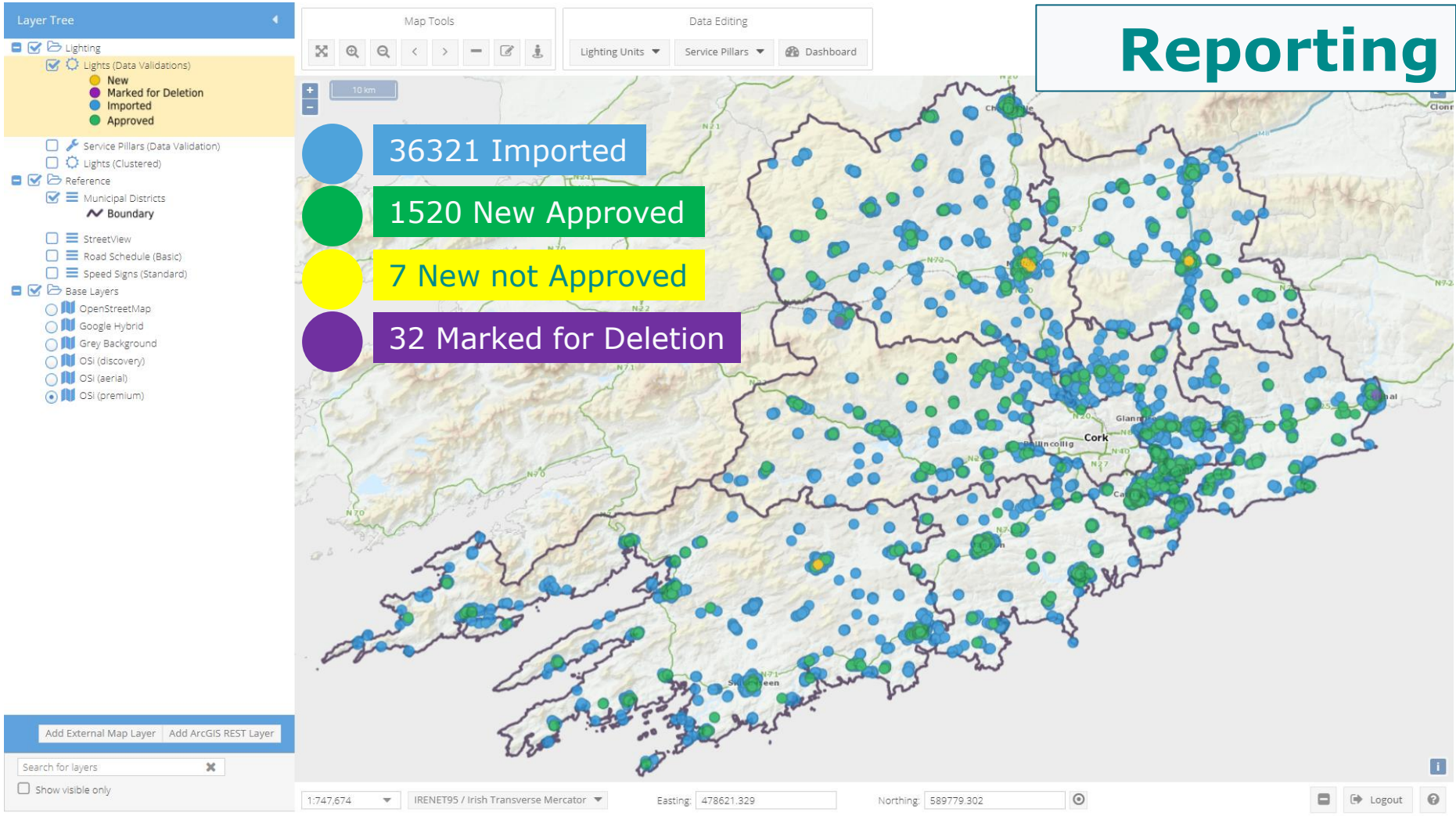



RMO
LGMA
Database Network
Home

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

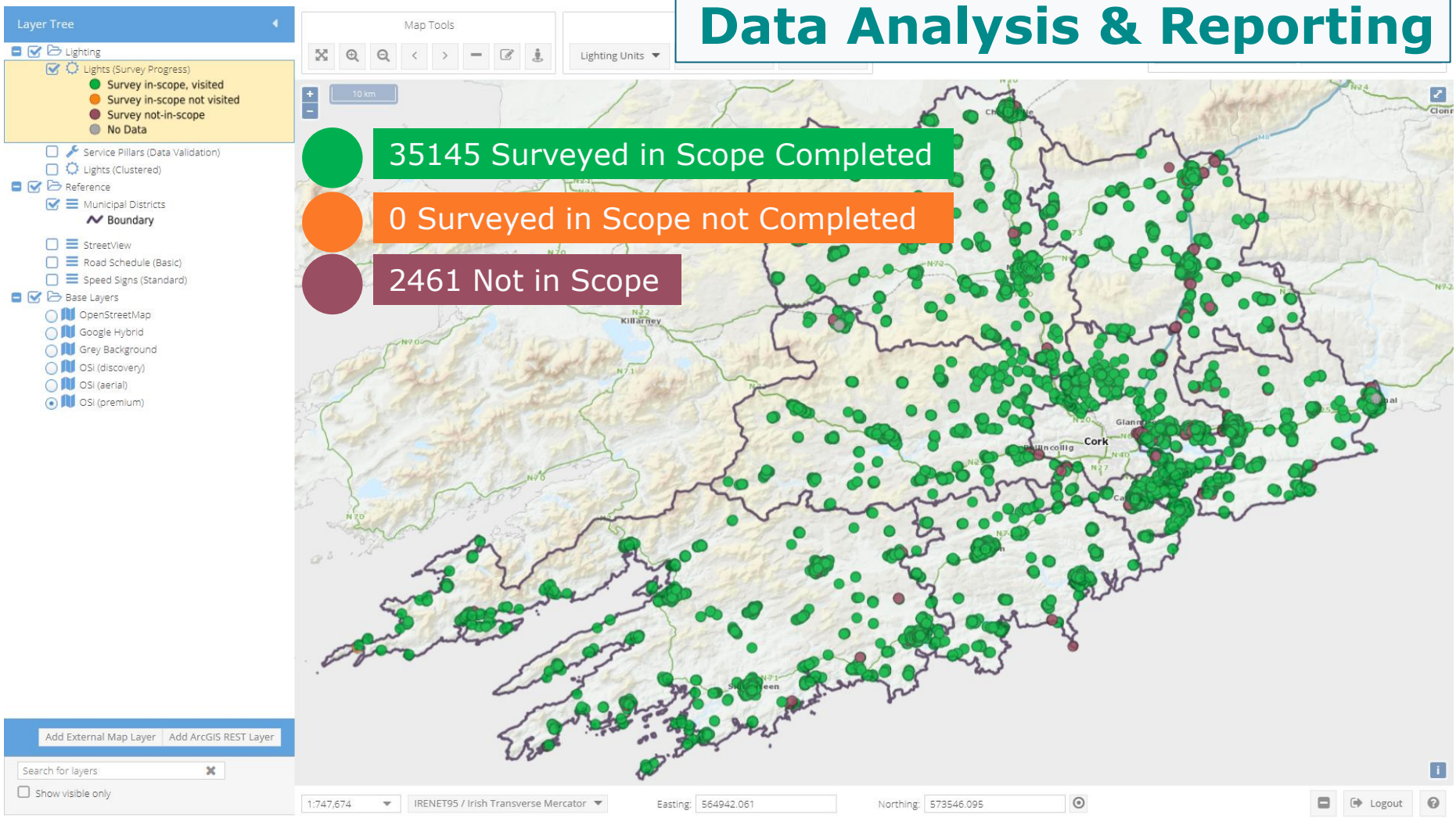
Reporting



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

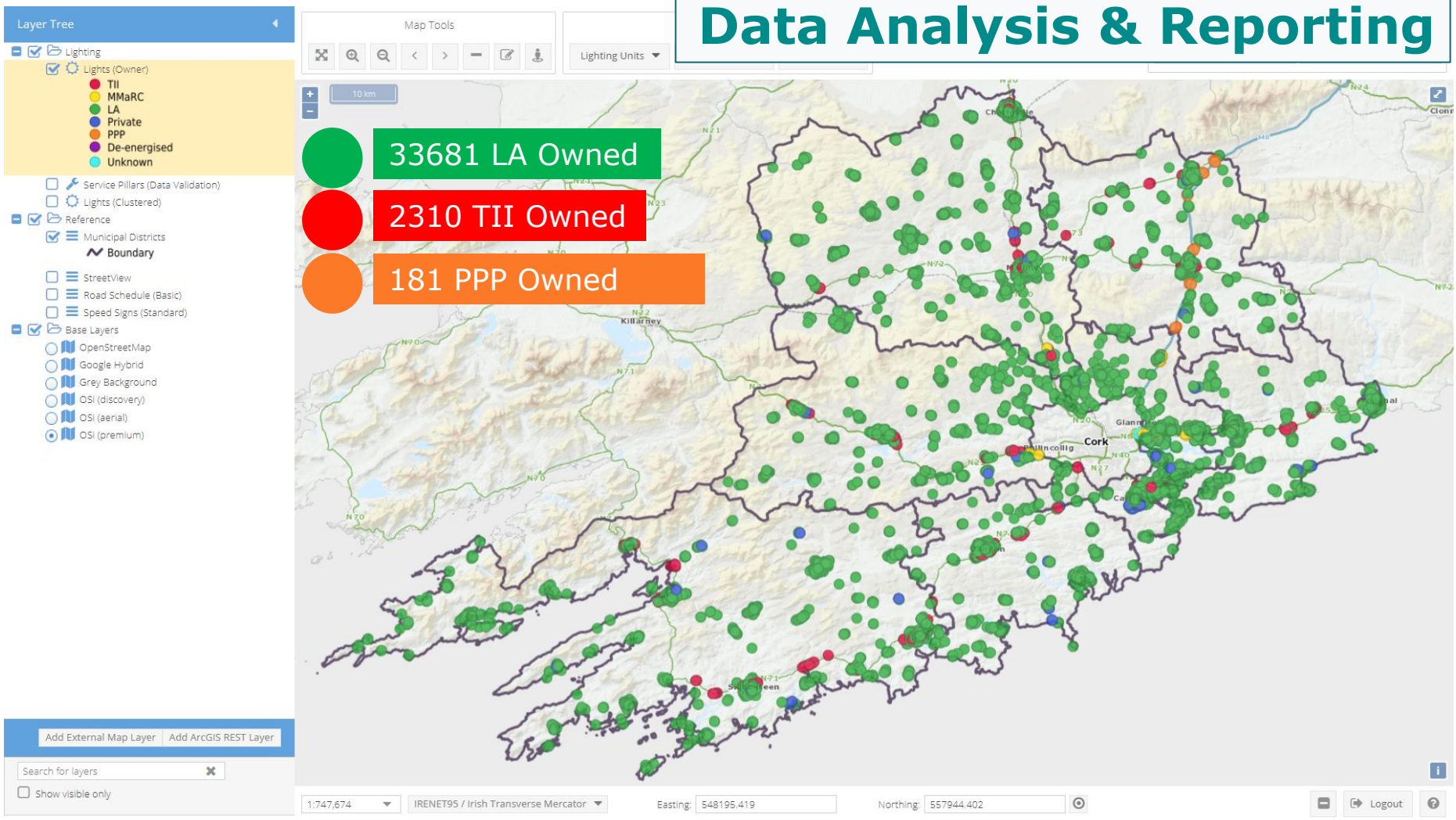
Data Analysis & Reporting



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

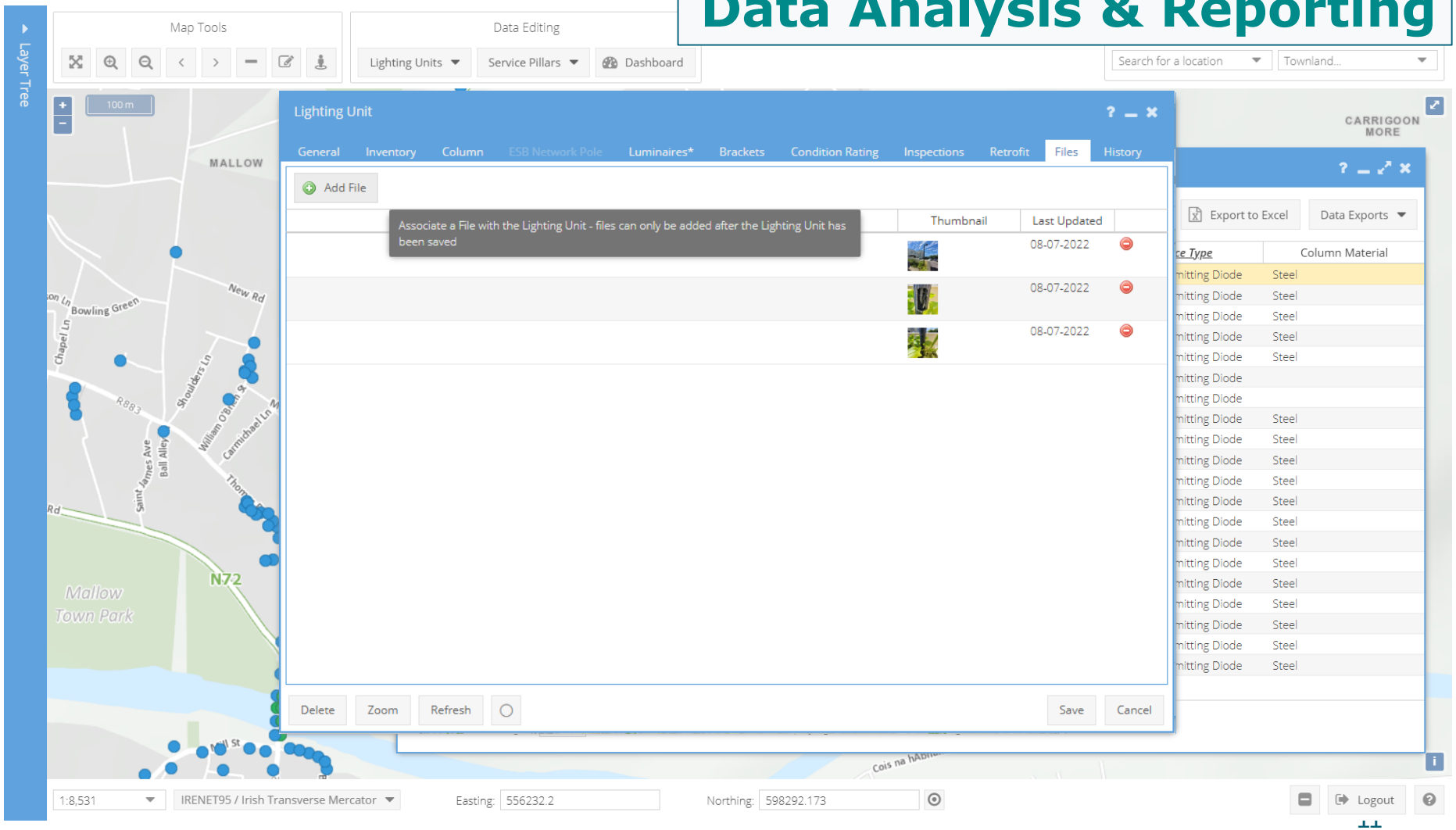
Data Analysis & Reporting



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

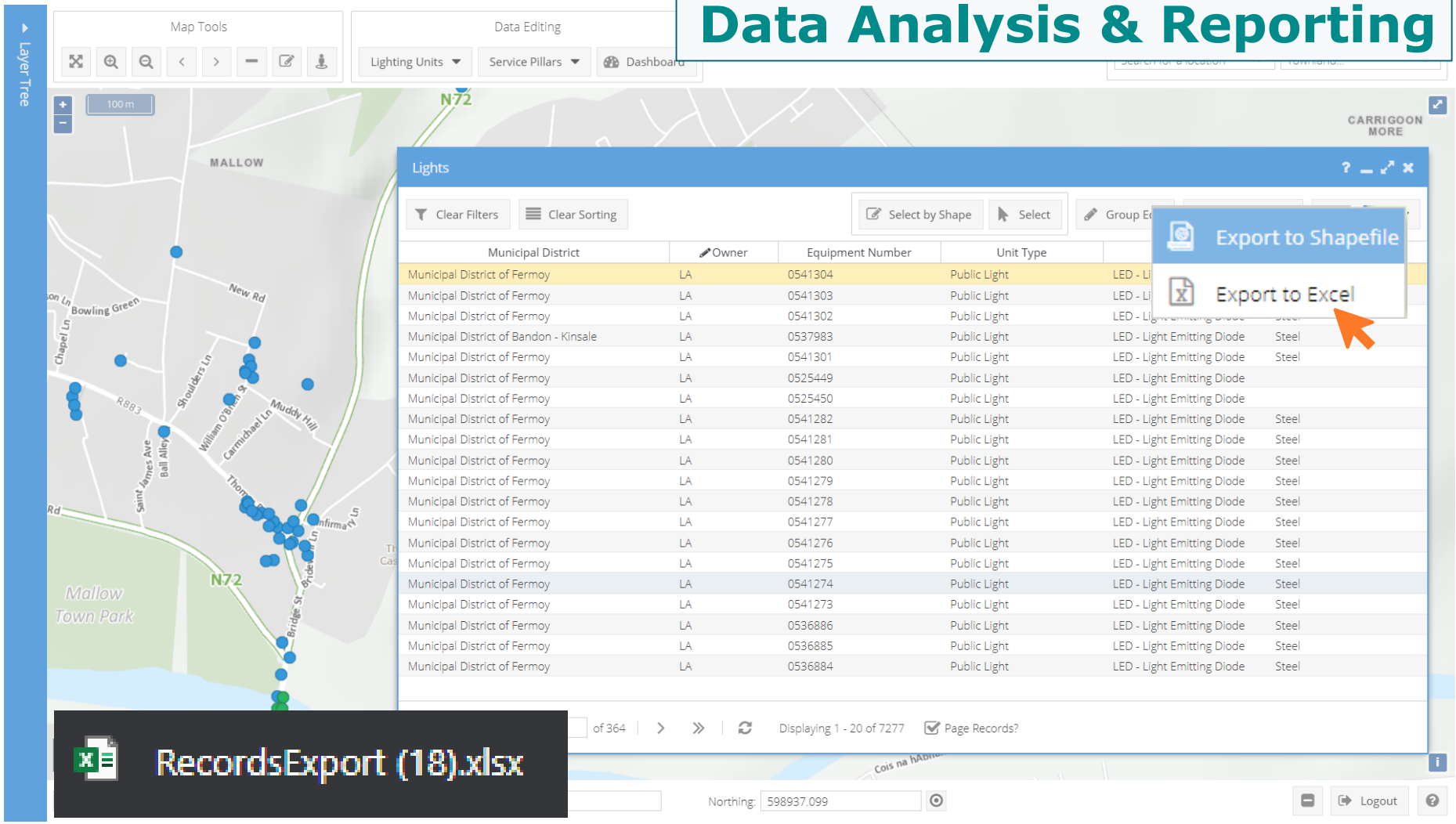
Data Analysis & Reporting



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Data Analysis & Reporting

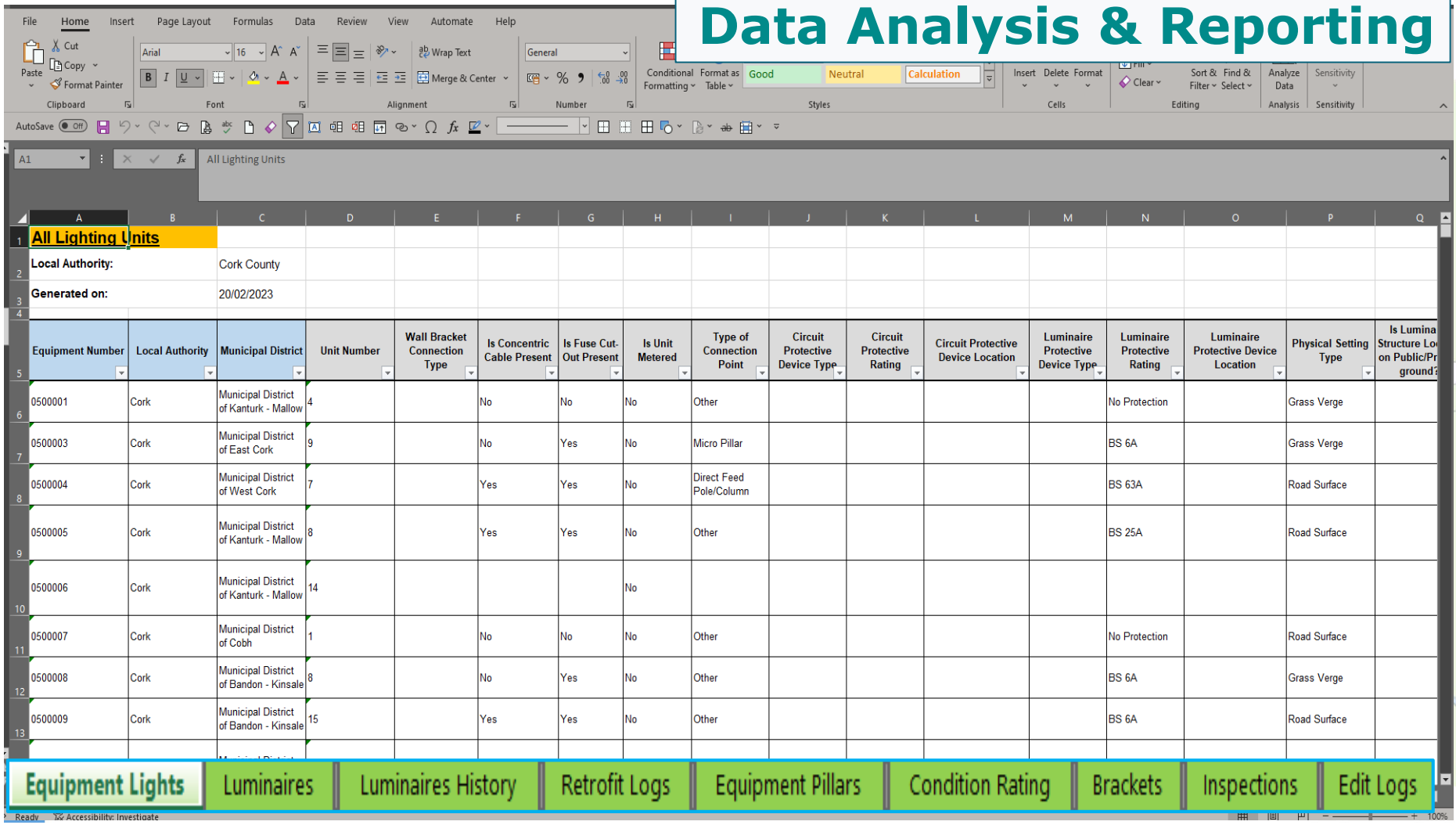


An Roinn Iompair
Department of Transport

LASNTG

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Data Analysis & Reporting



All Lighting Units

Local Authority:	Cork County
Generated on:	20/02/2023

Equipment Number	Local Authority	Municipal District	Unit Number	Wall Bracket Connection Type	Is Concentric Cable Present	Is Fuse Cut-Out Present	Is Unit Metered	Type of Connection Point	Circuit Protective Device Type	Circuit Protective Rating	Circuit Protective Device Location	Luminaire Protective Device Type	Luminaire Protective Rating	Luminaire Protective Device Location	Physical Setting Type	Is Lumina Structure Lo on Public/Pr ground?
0500001	Cork	Municipal District of Kanturk - Mallow	4		No	No	No	Other					No Protection		Grass Verge	
0500003	Cork	Municipal District of East Cork	9		No	Yes	No	Micro Pillar					BS 6A		Grass Verge	
0500004	Cork	Municipal District of West Cork	7		Yes	Yes	No	Direct Feed Pole/Column					BS 63A		Road Surface	
0500005	Cork	Municipal District of Kanturk - Mallow	8		Yes	Yes	No	Other					BS 25A		Road Surface	
0500006	Cork	Municipal District of Kanturk - Mallow	14				No									
0500007	Cork	Municipal District of Cobh	1		No	No	No	Other					No Protection		Road Surface	
0500008	Cork	Municipal District of Bandon - Kinsale	8		No	Yes	No	Other					BS 6A		Grass Verge	
0500009	Cork	Municipal District of Bandon - Kinsale	15		Yes	Yes	No	Other					BS 6A		Road Surface	

Equipment Lights | Luminaires | Luminaires History | Retrofit Logs | Equipment Pillars | Condition Rating | Brackets | Inspections | Edit Logs

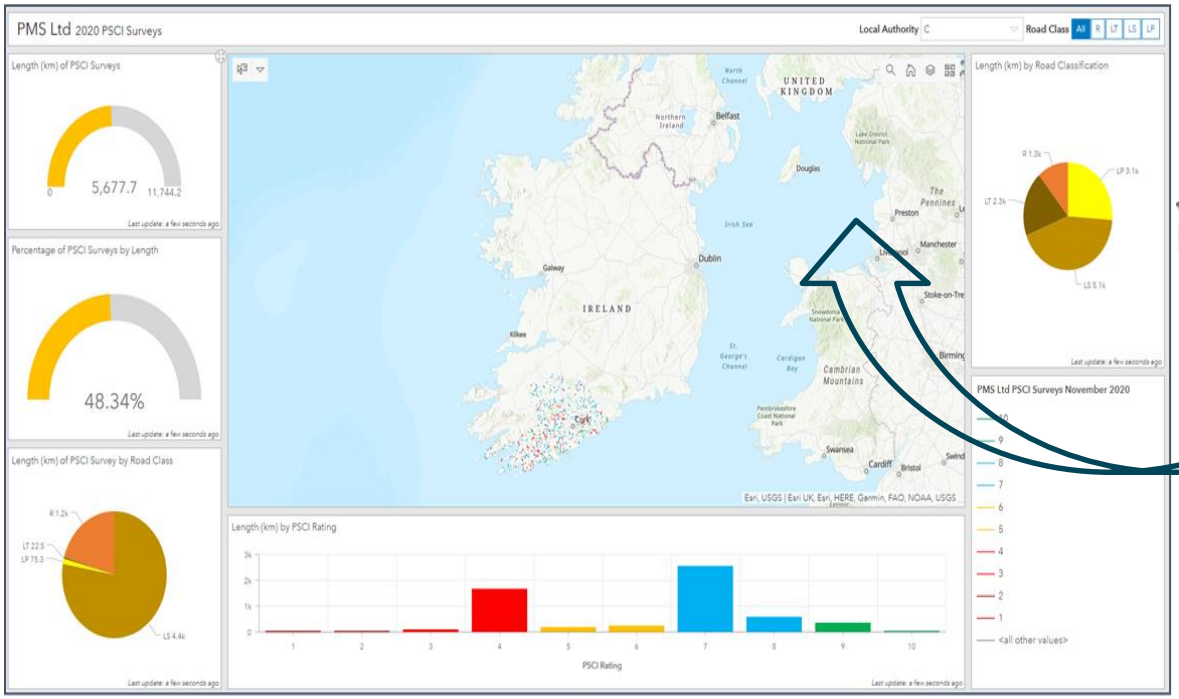
An Roinn Iompair
Department of Transport

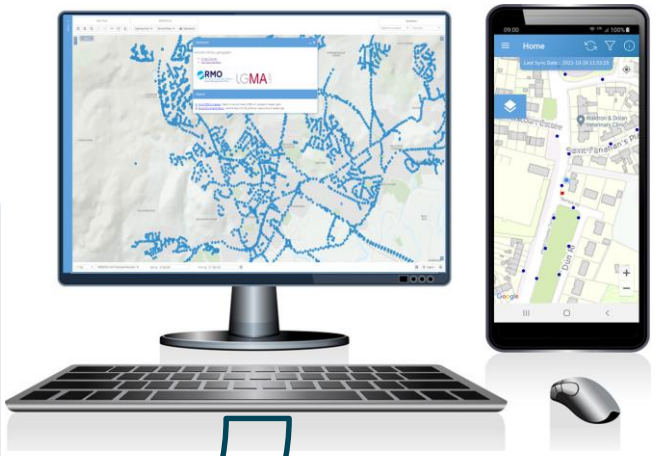
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Data Analysis & Reporting

Power BI

esri ArcGIS

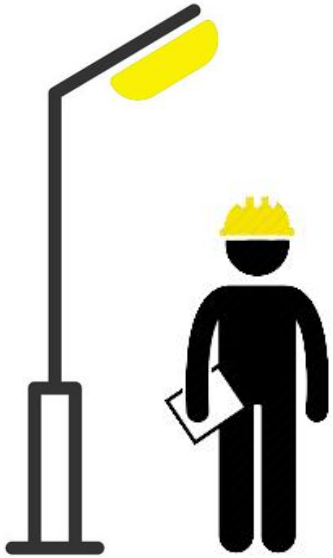




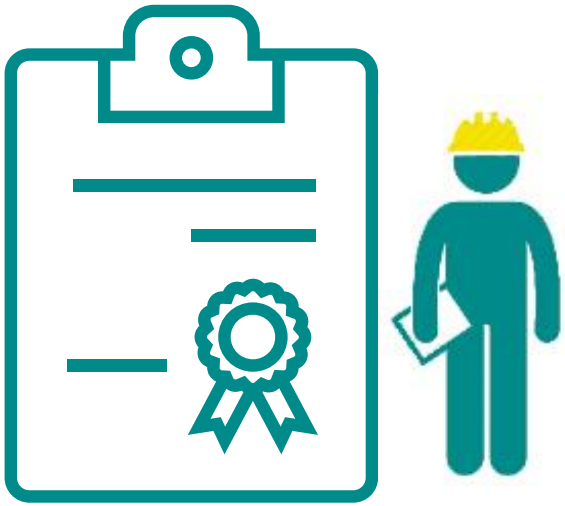
An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

MPL & Validation

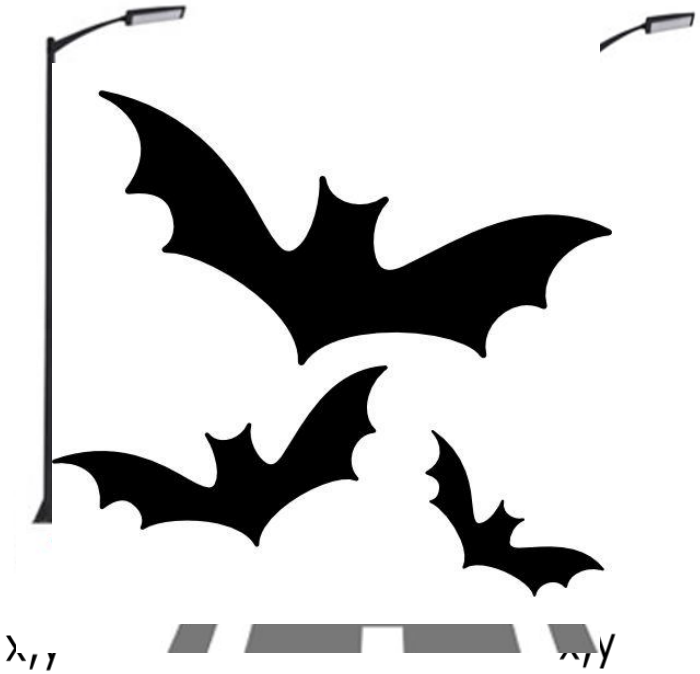


Survey in scope completed



An Roinn Iompair
Department of Transport

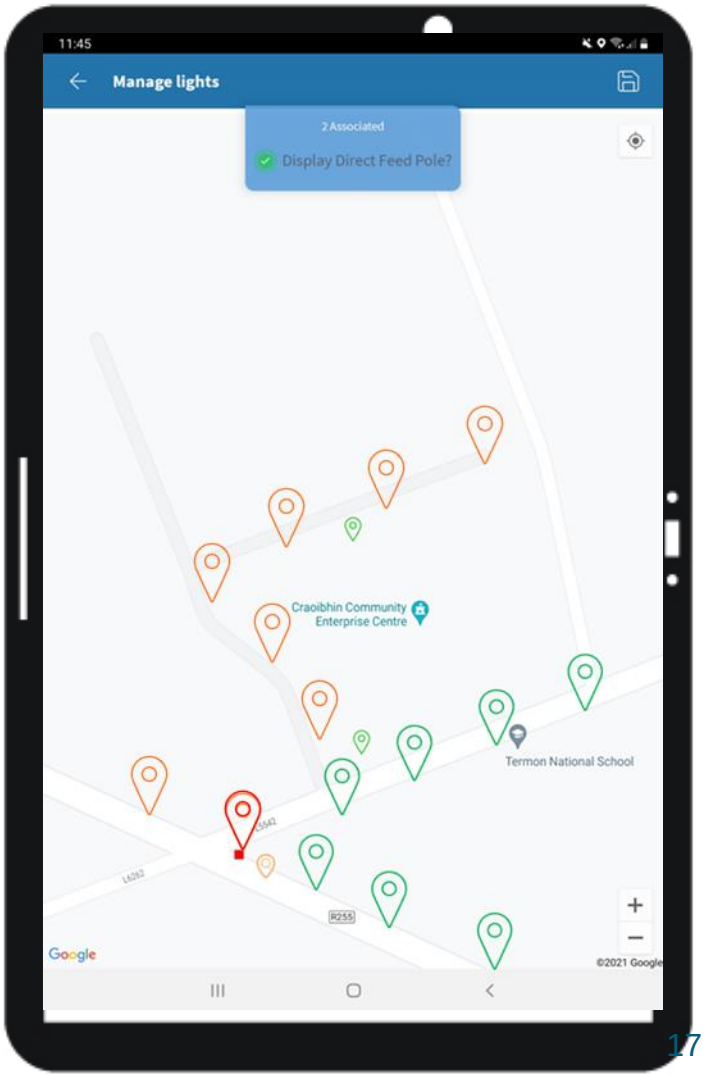
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association



MPL & Design

Luminaire Design

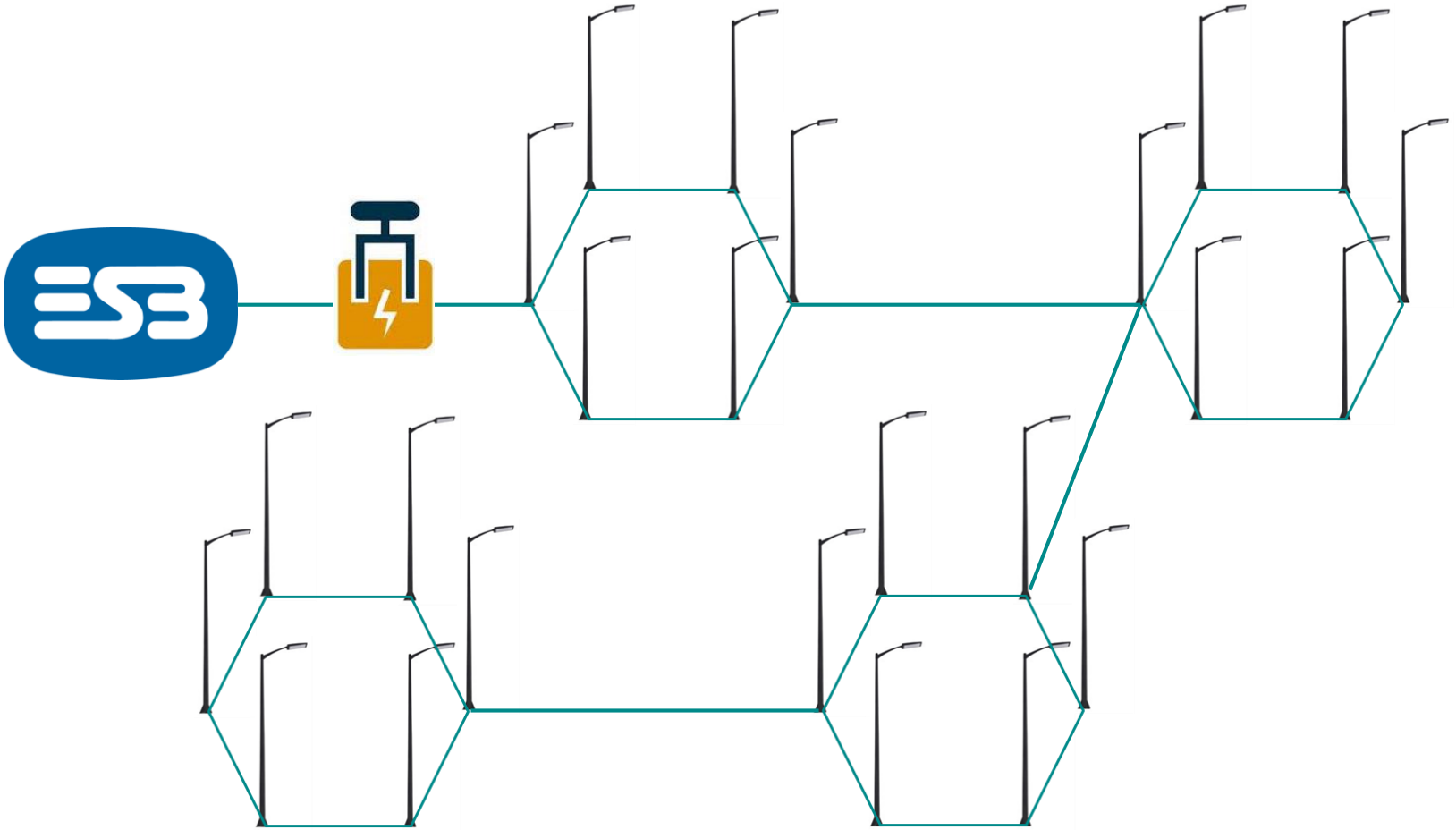
MPL & Unbundling



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

MPL & Unbundling



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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 2 John Horgan

Hodson Bay Hotel Athlone, May 2023

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

LOCAL AUTHORITY ROADS CONFERENCE and EXHIBITION – 2023

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

John Horgan

Road Management Office (RMO)

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

LOCAL AUTHORITY ROADS CONFERENCE and EXHIBITION – 2023

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

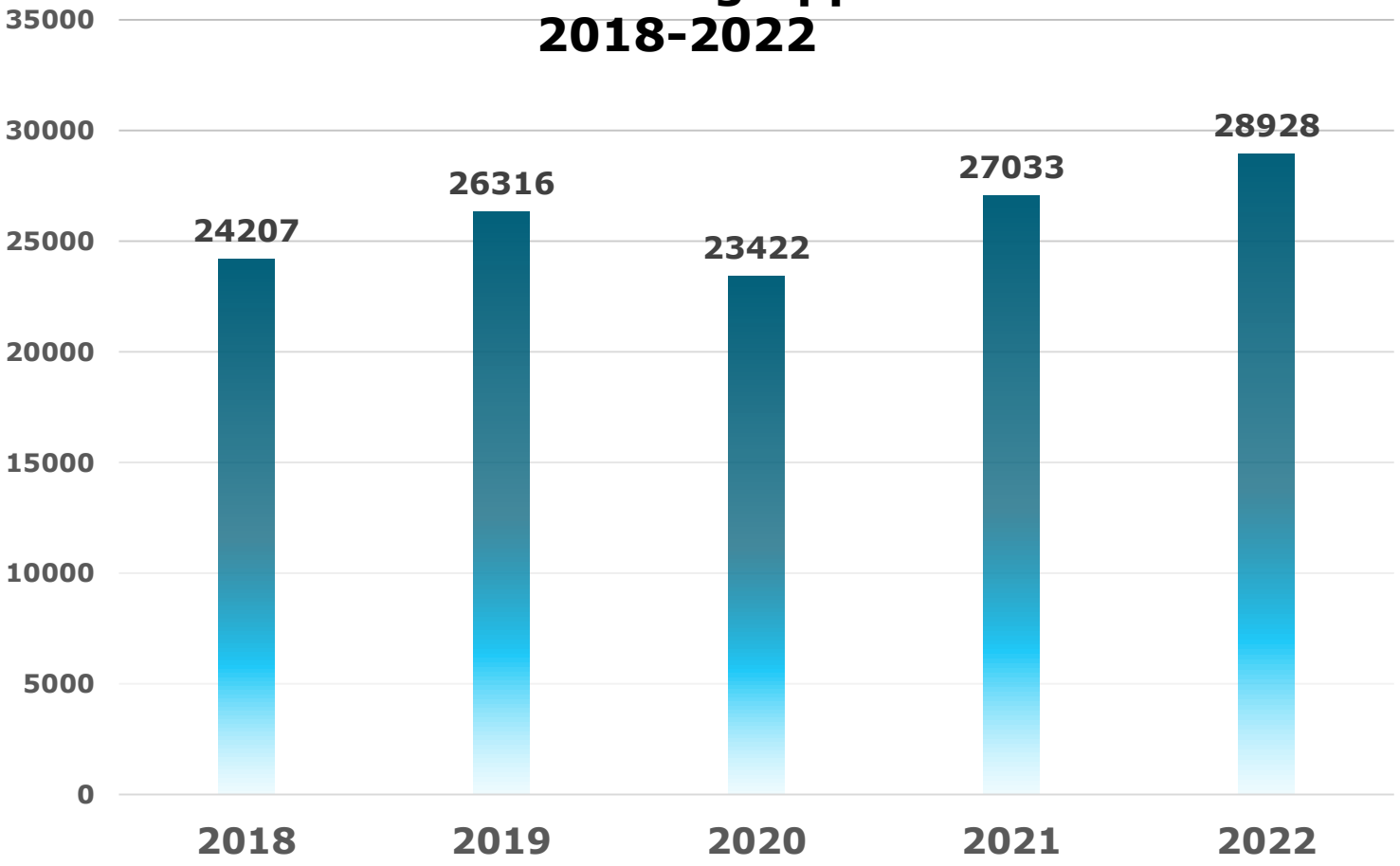
John Horgan

Road Management Office (RMO)

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Number of Road Licensing Applications on MRL 2018-2022

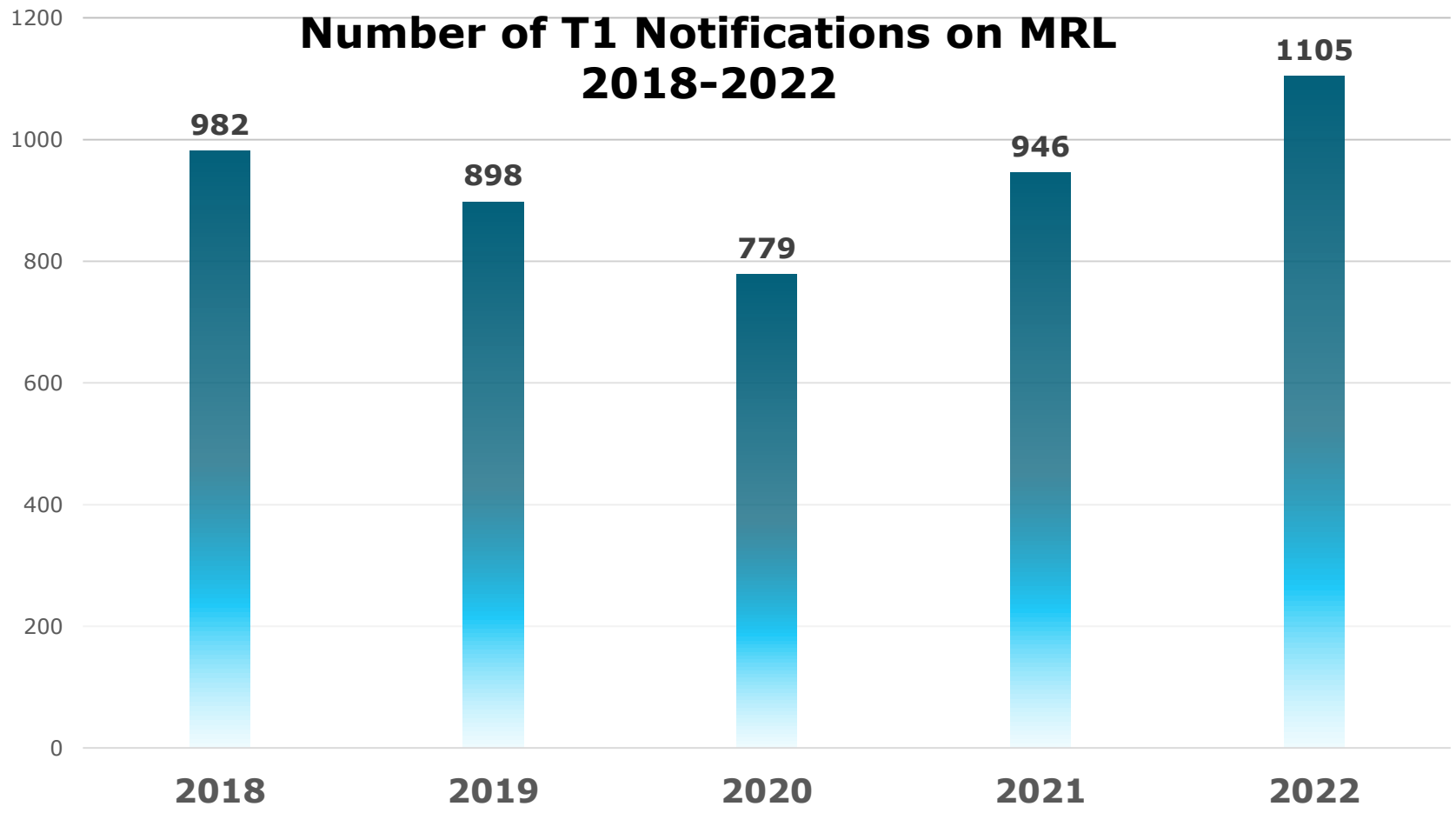


MAPROAD Licensing

90% of applications are from 8 Utilities

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association



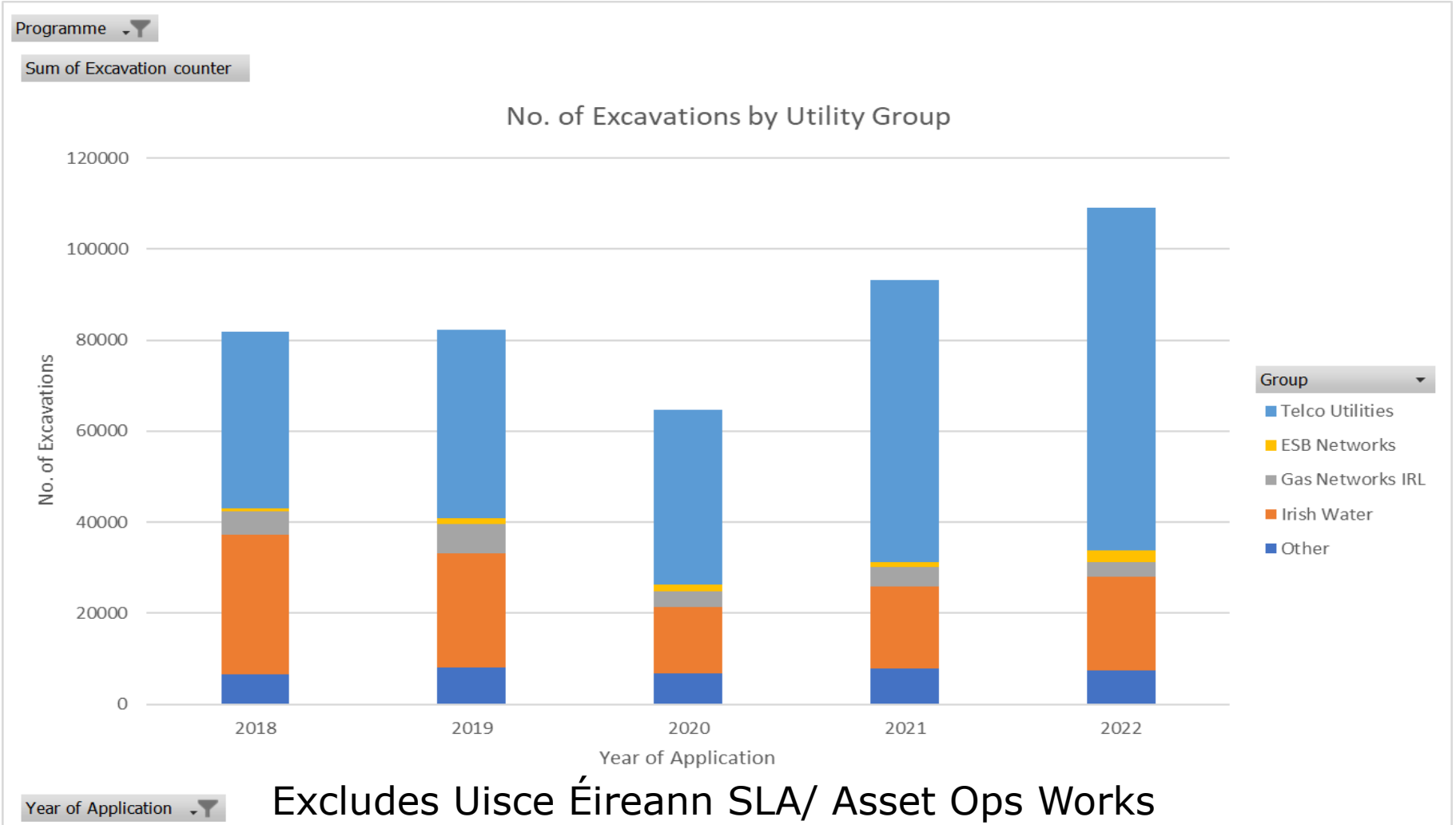
MAPROAD Licensing

T1 Required for works of High Impact or Complexity

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Number of excavations per year



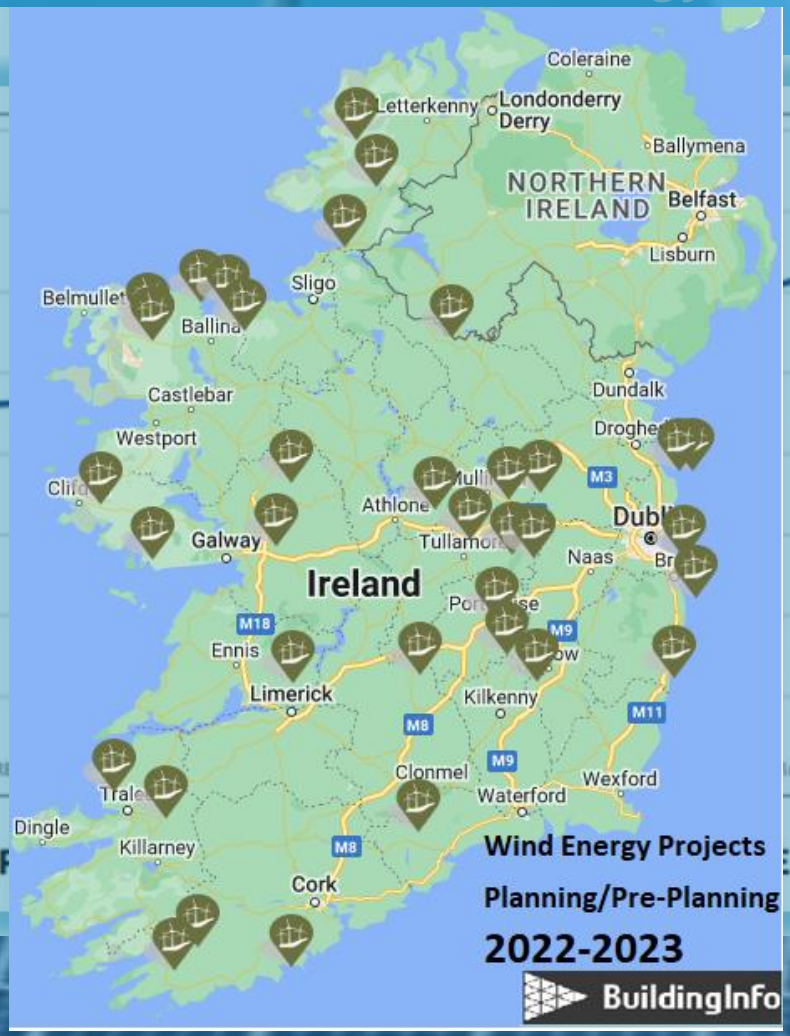
Excludes Uisce Éireann SLA/ Asset Ops Works

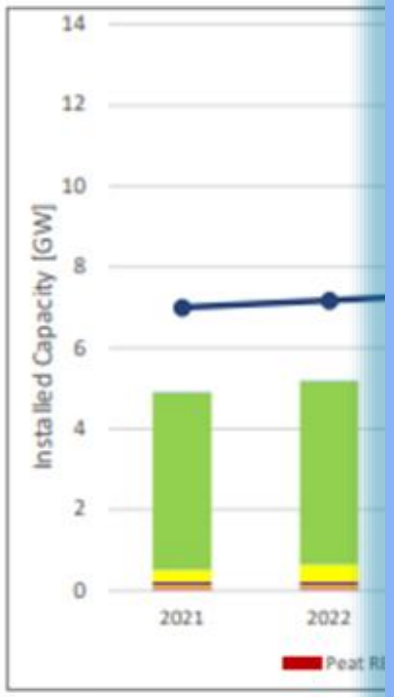
Electricity & Renewables

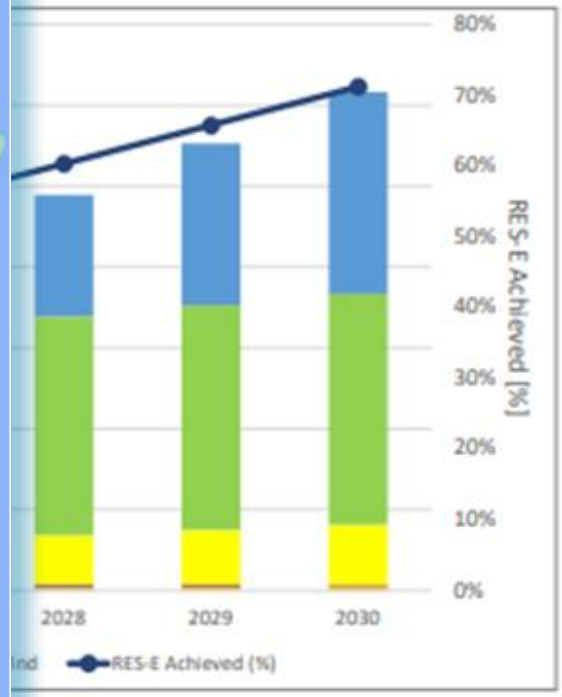
An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Renewable Energy







EirGrid

ES-E% levels in Ireland

An Roinn Iompair
Department of Transport

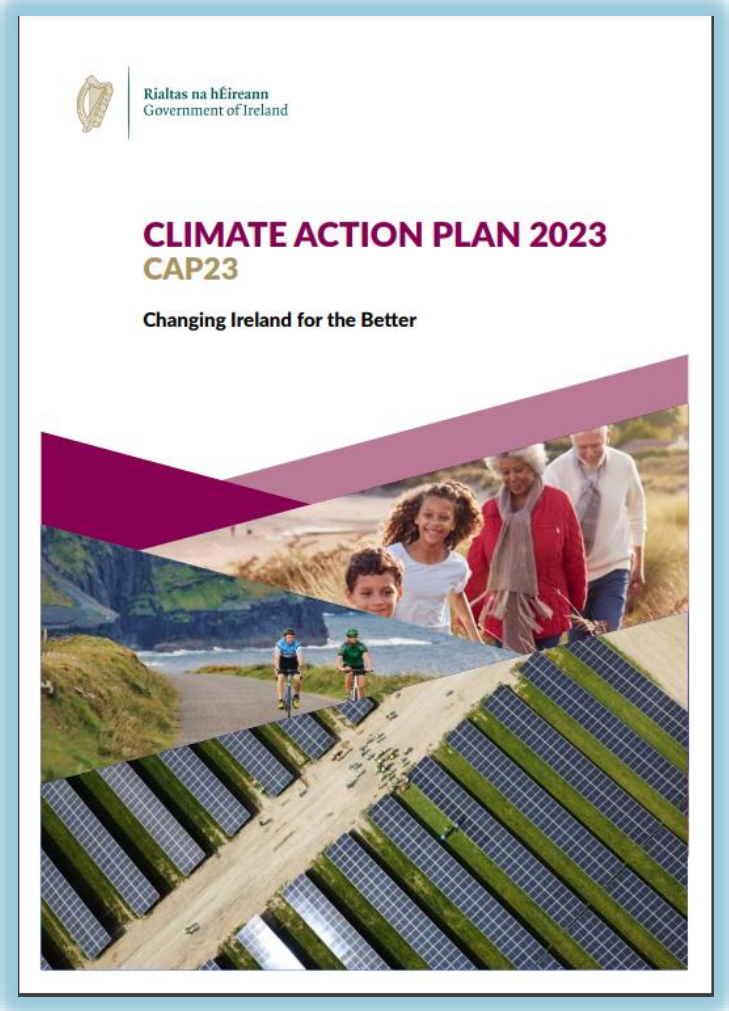
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

EirGrid

ESB

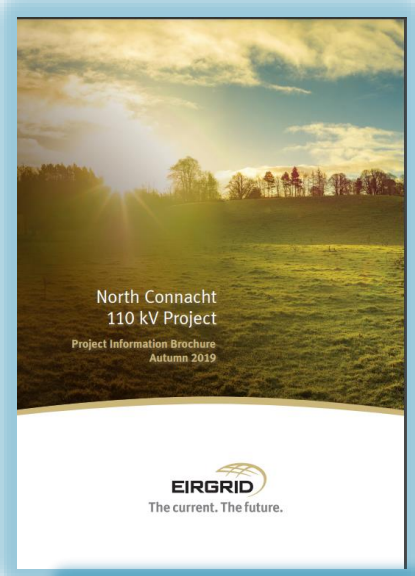
Shaping our electricity future

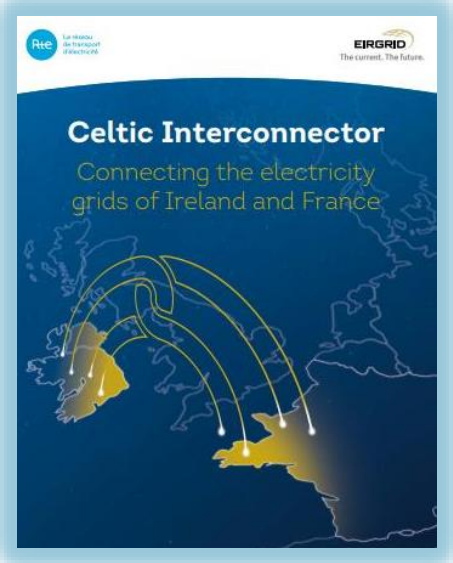
'This use of the road network is a key enabler for timely project delivery and to minimise routing constraints'



'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





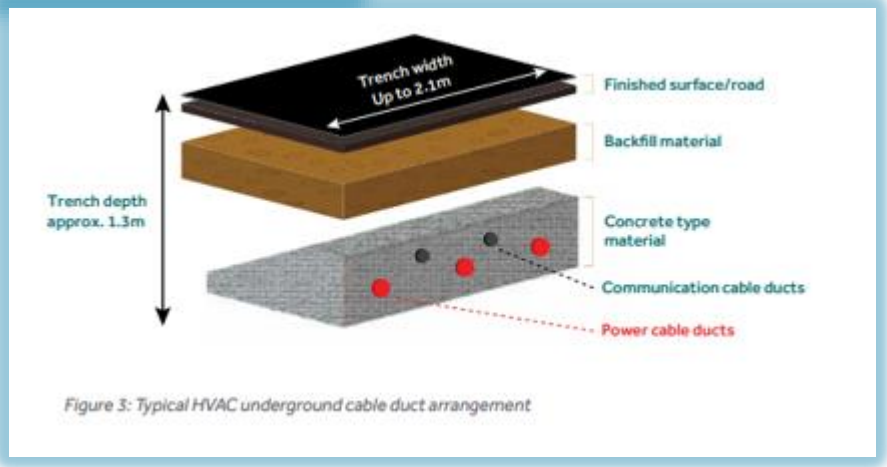


Figure 3: Typical HVAC underground cable duct arrangement

EirGrid

East Meath-
North Dublin
Grid Upgrade

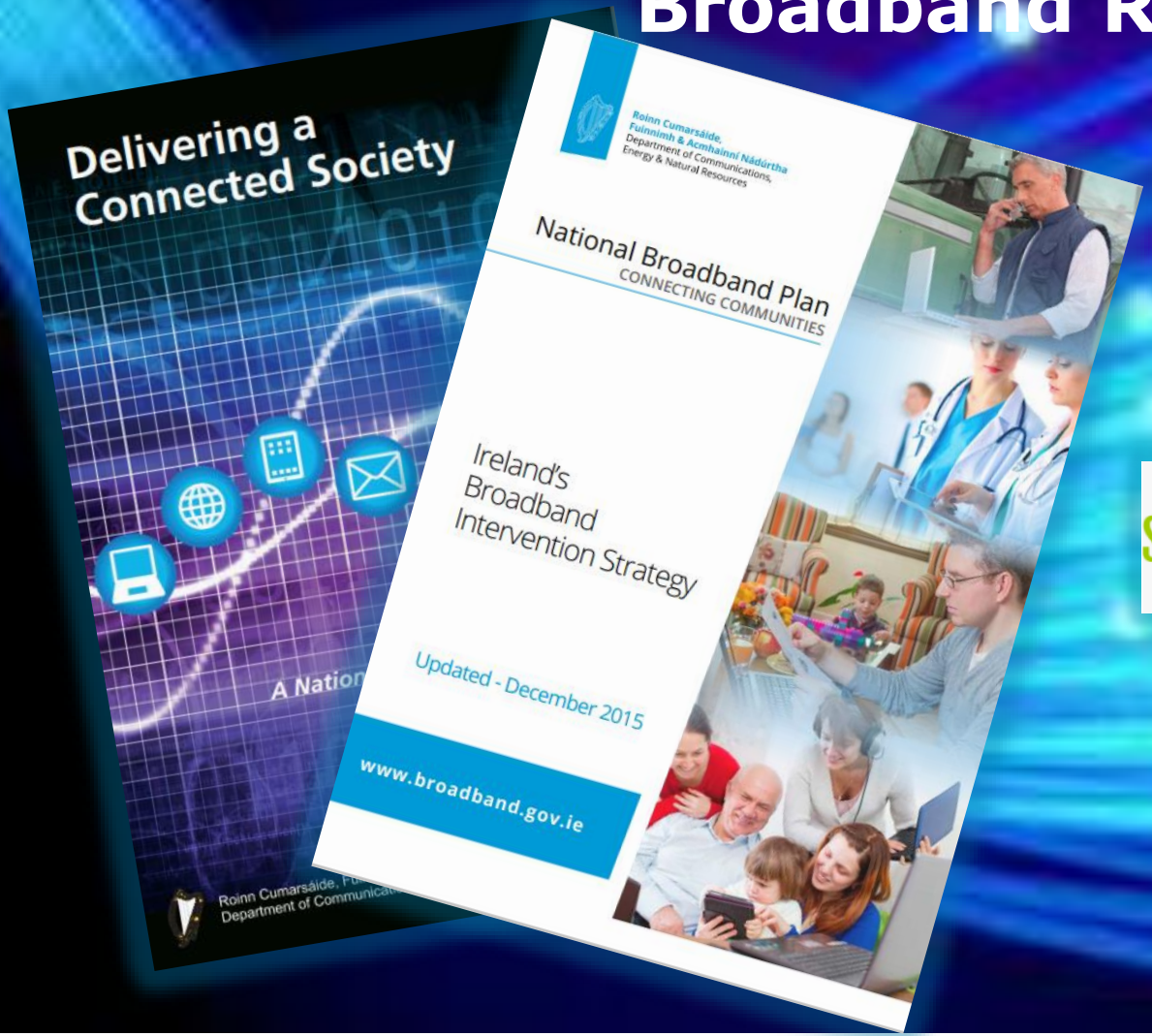
Eirgrid 400kv installation detail

Broadband

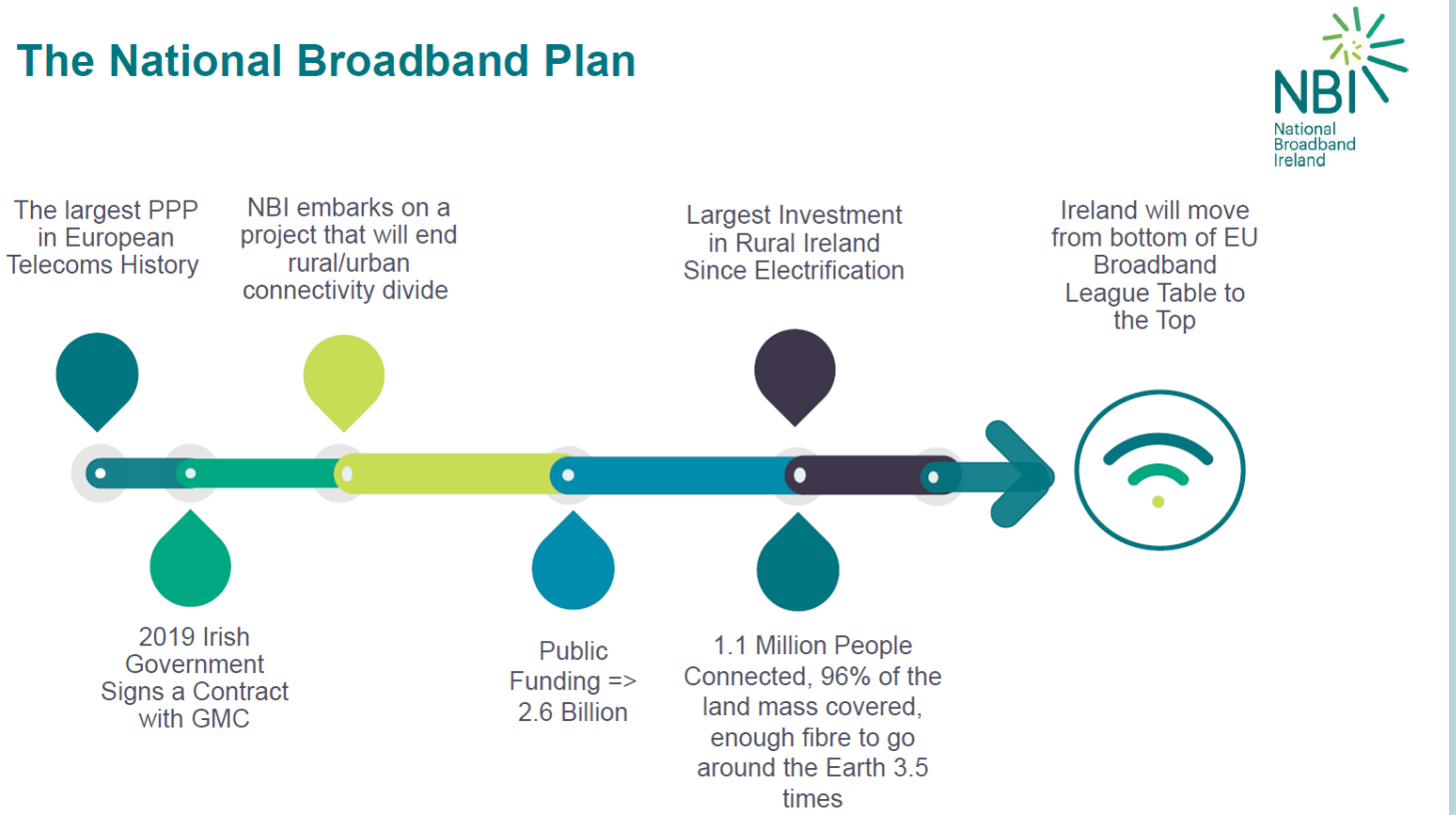
An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Broadband Rollout 2012 +



The National Broadband Plan

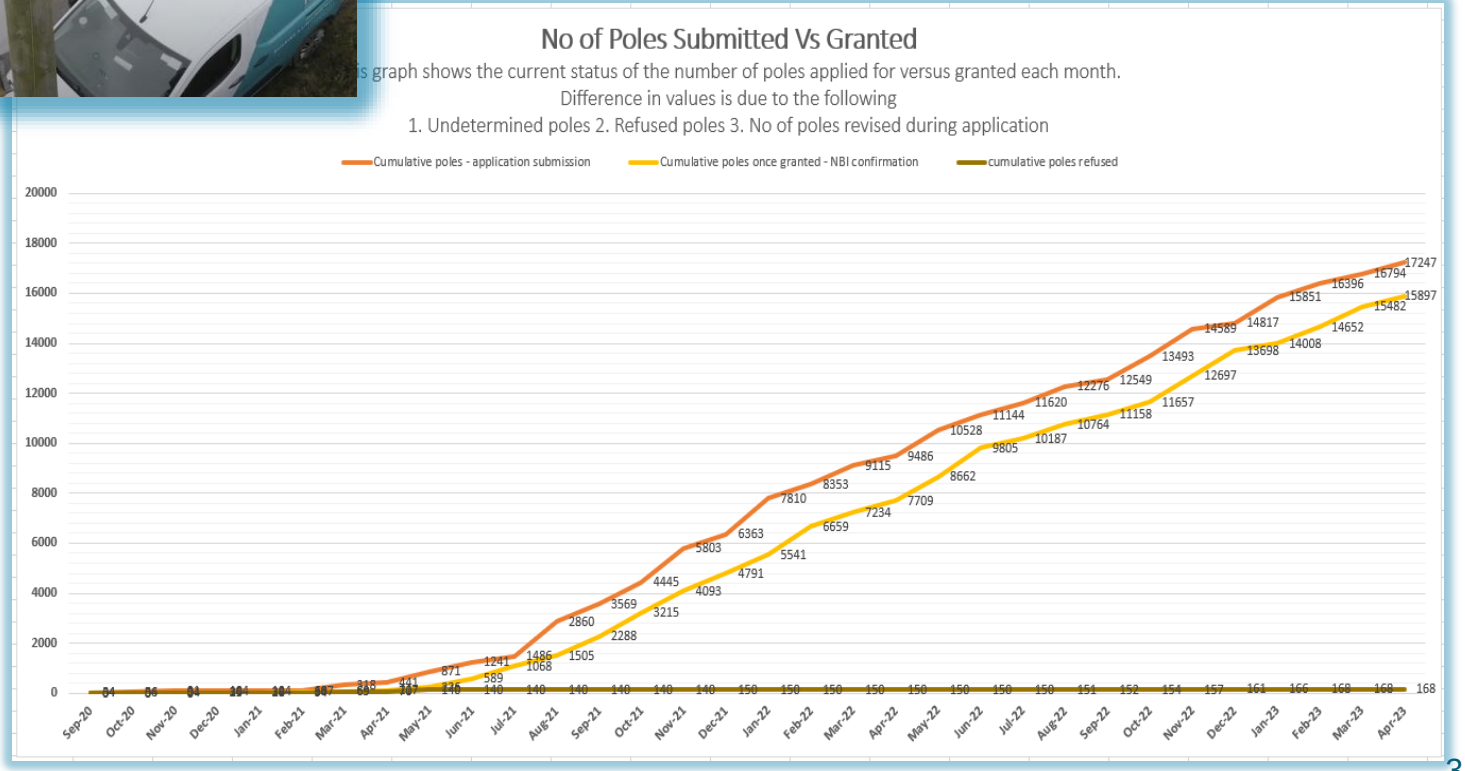


Estimated 146,000km of fibre cable required.

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

NBI - Section 254 licence Applications:

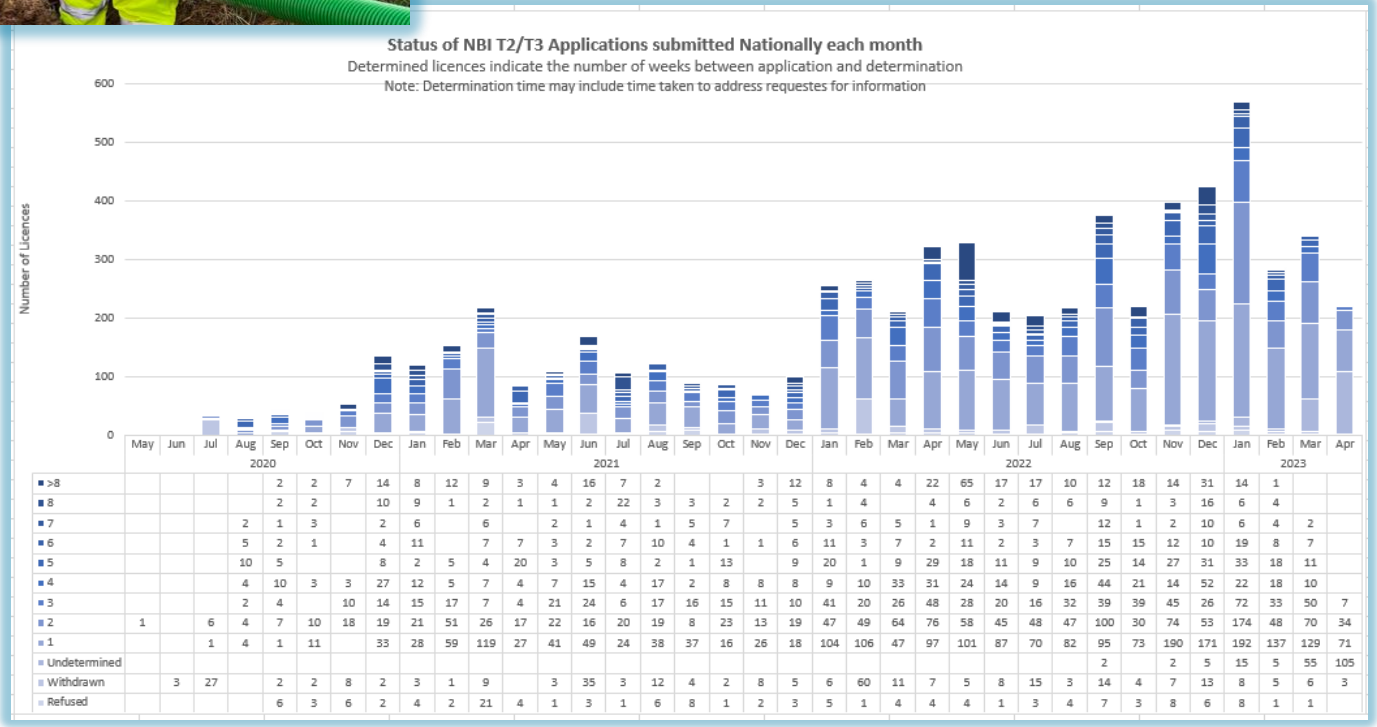
- Current average of 630 pole applications per month
- Estimated 100,000 poles required in total



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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



	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
	2020								2021												2022												2023			
>8					2	2	7	14	8	12	9	3	4	16	7	2			3	12	8	4	4	22	65	17	17	10	12	18	14	31	14	1		
8					2	2		10	9	1	2	1	1	2	22	3	3	2	2	5	1	4		4	6	2	6	6	9	1	3	16	6	4		
7				2	1	3		2	6		6		2	1	4	1	5	7		5	3	6	5	1	9	3	7		12	1	2	10	6	4	2	
6				5	2	1		4	11		7	7	3	2	7	10	4	1	1	6	11	3	7	2	11	2	3	7	15	15	12	10	19	8	7	
5				10	5			8	2	5	4	20	3	5	8	2	1	13		9	20	1	9	29	18	11	9	10	25	14	27	31	33	18	11	
4				4	10	3	3	27	12	5	7	4	7	15	4	17	2	8	8	8	9	10	33	31	24	14	9	16	44	21	14	52	22	18	10	
3				2	4		10	14	15	17	7	4	21	24	6	17	16	15	11	10	41	20	26	48	28	20	16	32	39	39	45	26	72	33	50	7
2	1		6	4	7	10	18	19	21	51	26	17	22	16	20	19	8	23	13	19	47	49	64	76	58	45	48	47	100	30	74	53	174	48	70	34
1			1	4	1	11		33	28	59	119	27	41	49	24	38	37	16	26	18	104	106	47	97	101	87	70	82	95	73	190	171	192	137	129	71
Undetermined																													2		2	5	15	5	55	105
Withdrawn		3	27		2	2	8	2	3	1	9		3	35	3	12	4	2	8	5	6	60	11	7	5	8	15	3	14	4	7	13	8	5	6	3
Refused					6	3	6	2	4	2	21	4	1	3	1	6	8	1	2	3	5	1	4	4	4	1	3	4	7	3	8	6	8	1	1	

Water

An Roinn Iompair
Department of Transport

LASNTG
Local Authority Services National Training Group

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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

'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%

Effect on Local Authorities Licensing

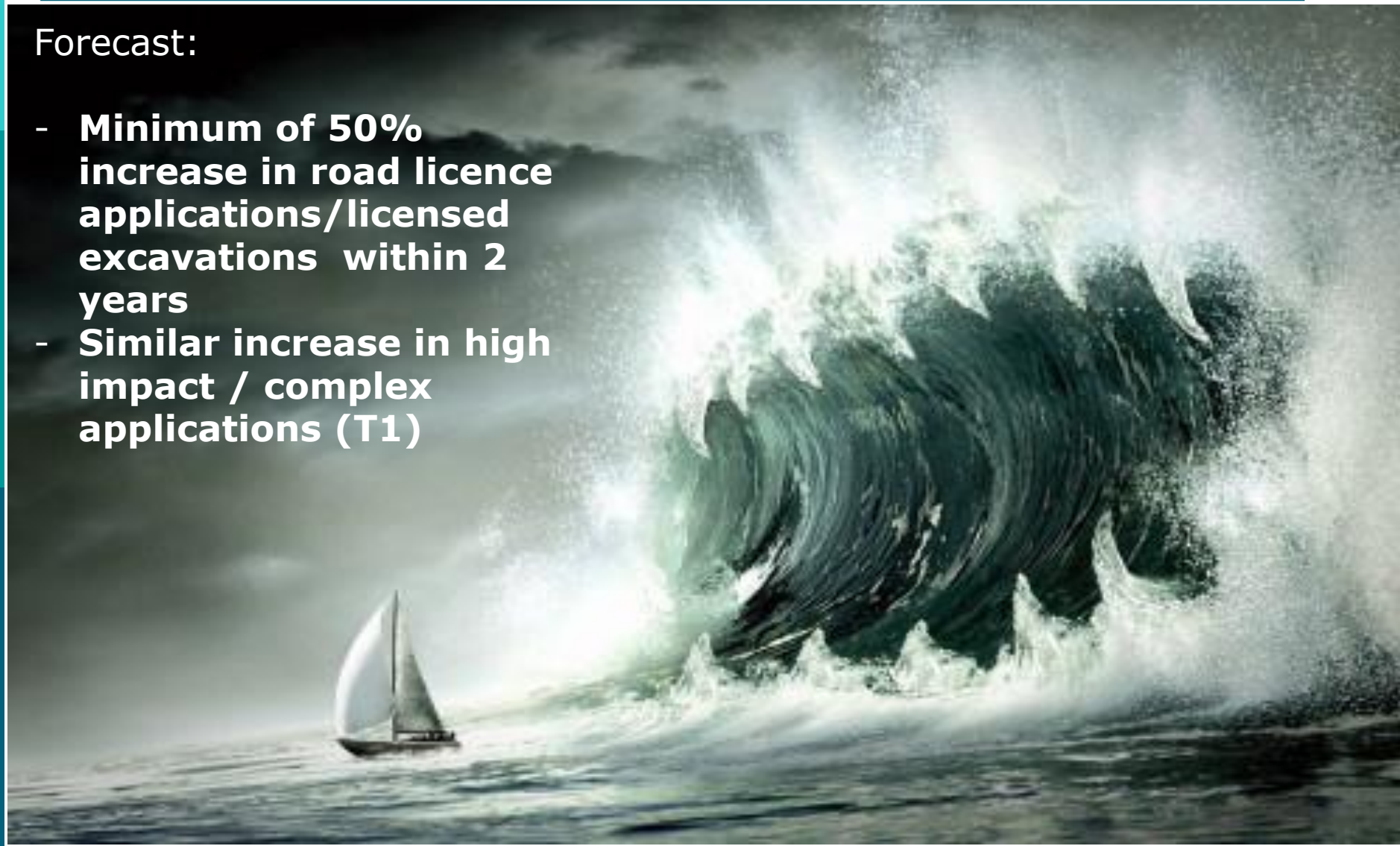
An Roinn Iompair
Department of Transport

LASNTG
Local Authority Services National Training Group

CCMA
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Forecast:

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



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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 ESBN 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.

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

www.RMO.ie

MRL Support: support@mrl.jitbit.com

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 3- Brian Burke & Colin O'Sullivan

Hodson Bay Hotel Athlone, May 2023

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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

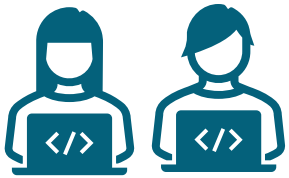
An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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.

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Technical Working Group (TWG) was assembled in 2021

TWG was made up of a number of representatives

LGMA
An Ghníomhaireacht Bainistíochta Rialtais Áitiúil
Local Government Management Agency

dlr
Comhairle Contae County Council

An Roinn Iompair
Department of Transport

RMO
An Oifig um Bainistiú Bóithre
Road Management Office

Dublin City Council
Comhairle Cathrach Bhaile Átha Cliath

NTA
Údarás Náisiúnta Iompair
National Transport Authority

TII
Bonneagar Iompair Éireann
Transport Infrastructure Ireland

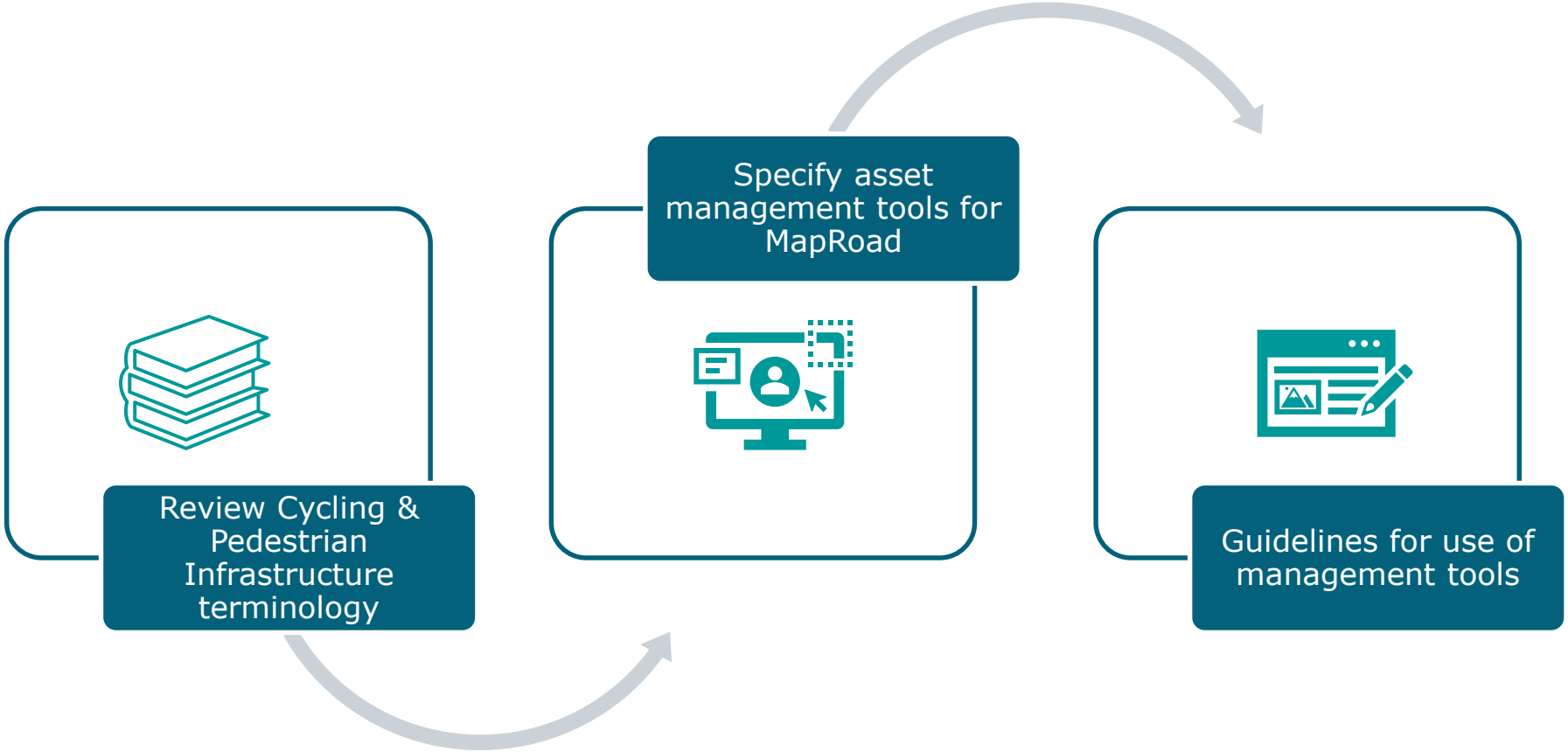
Comhairle Chontae na Gaillimhe
Galway County Council

SLIGO
COUNTY COUNCIL
COMHAIRLE CHONTAE SHLIGIGH

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

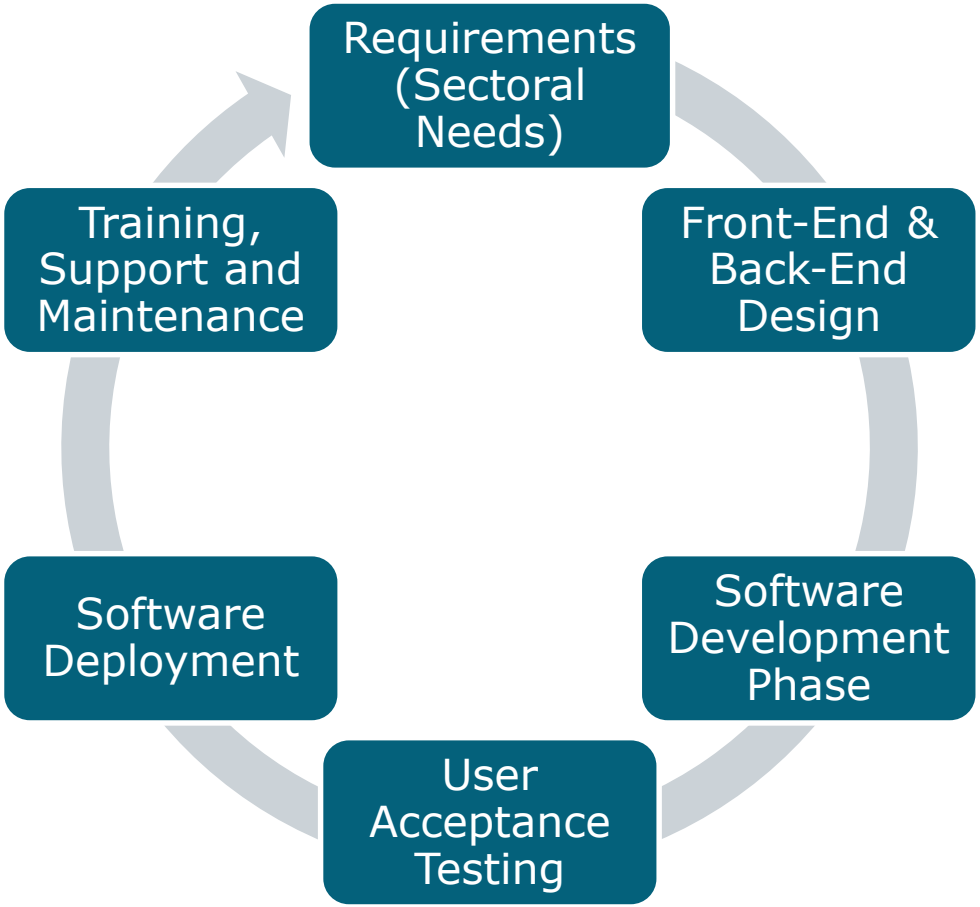
TWG Objectives/Tasks and how they were achieved.



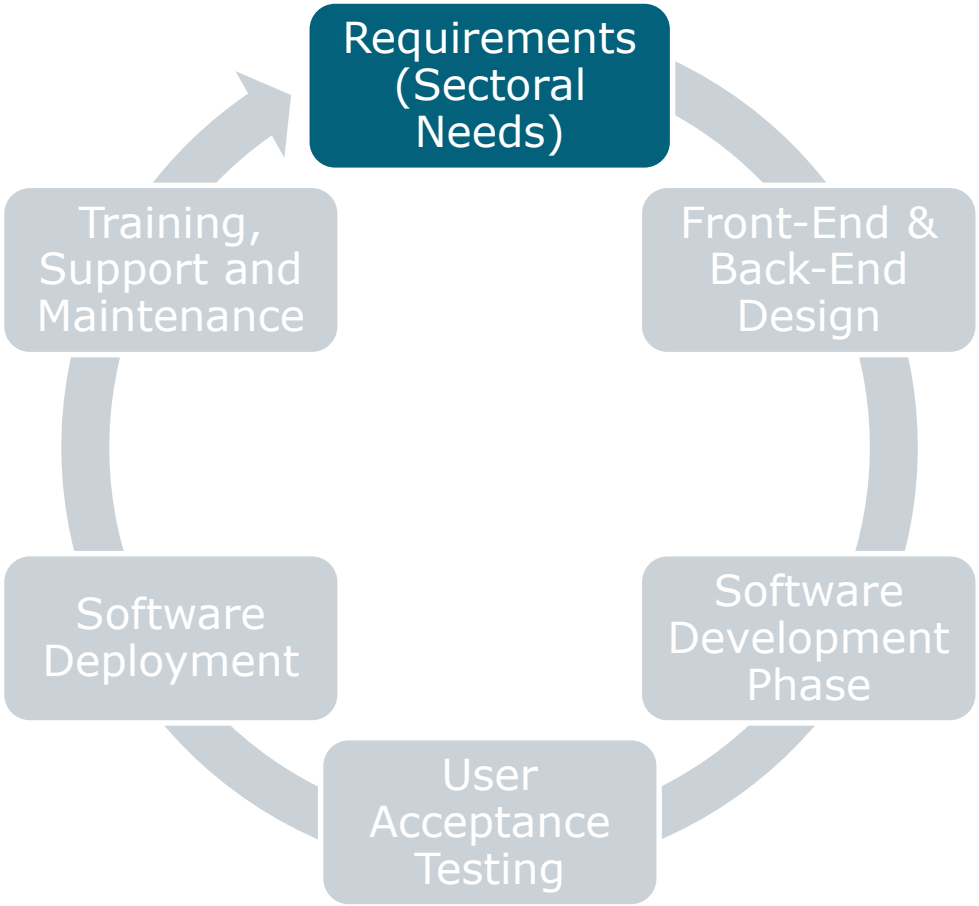
An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Phases undertaken to deliver Objectives

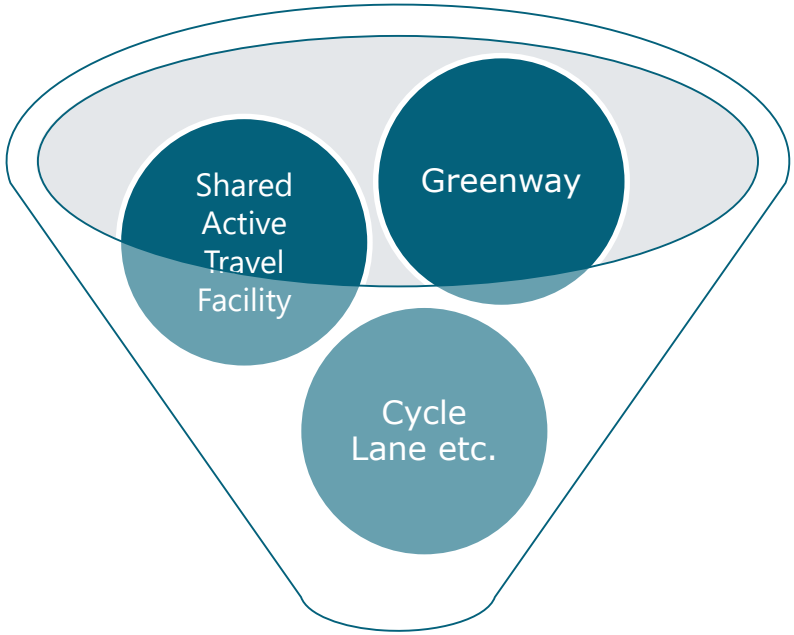


Requirements (Sectoral Needs) Phase



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.



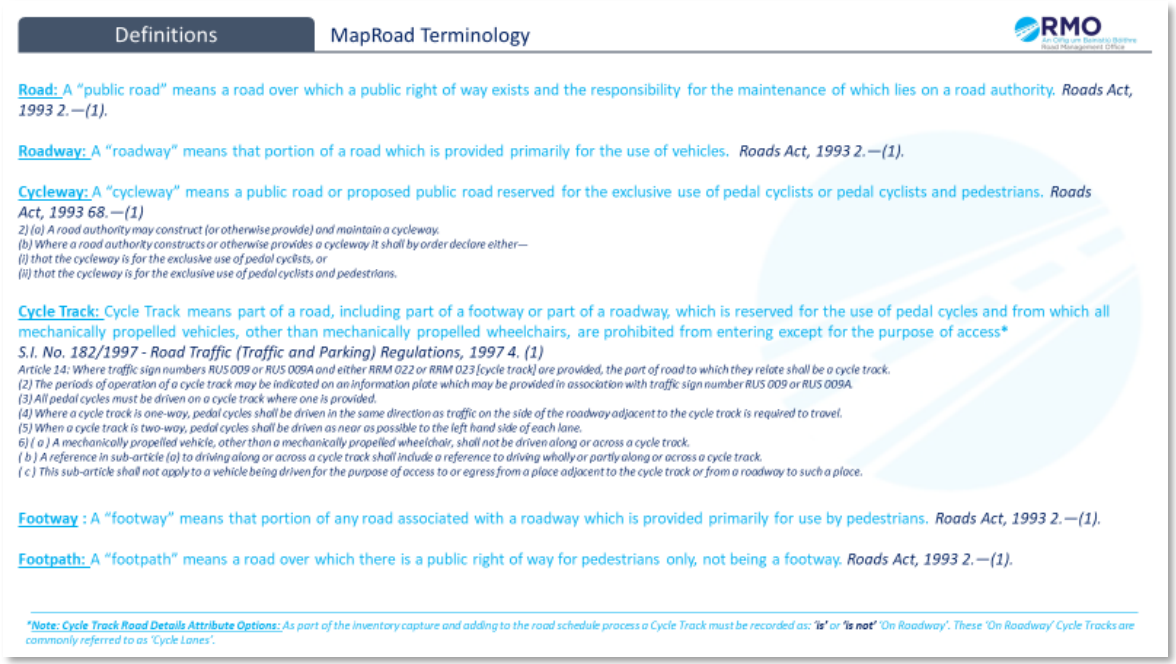
Commonplace Names for ATI

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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.



Definitions | MapRoad Terminology

RMO

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'.*

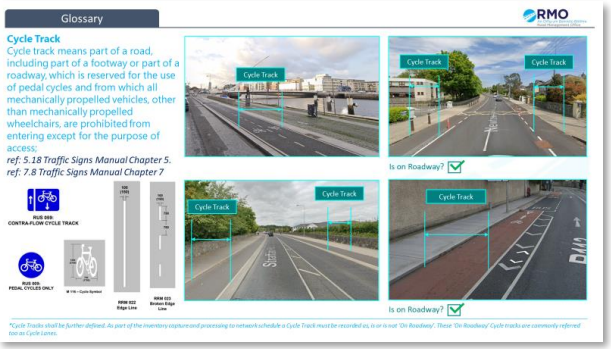
An Roinn Iompair
Department of Transport

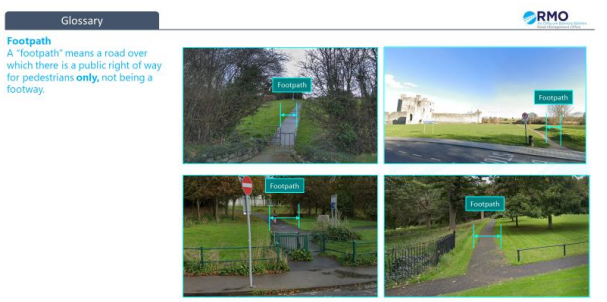
LASNTG Local Authority Services National Training Group

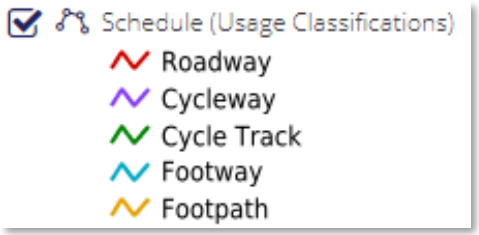
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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.





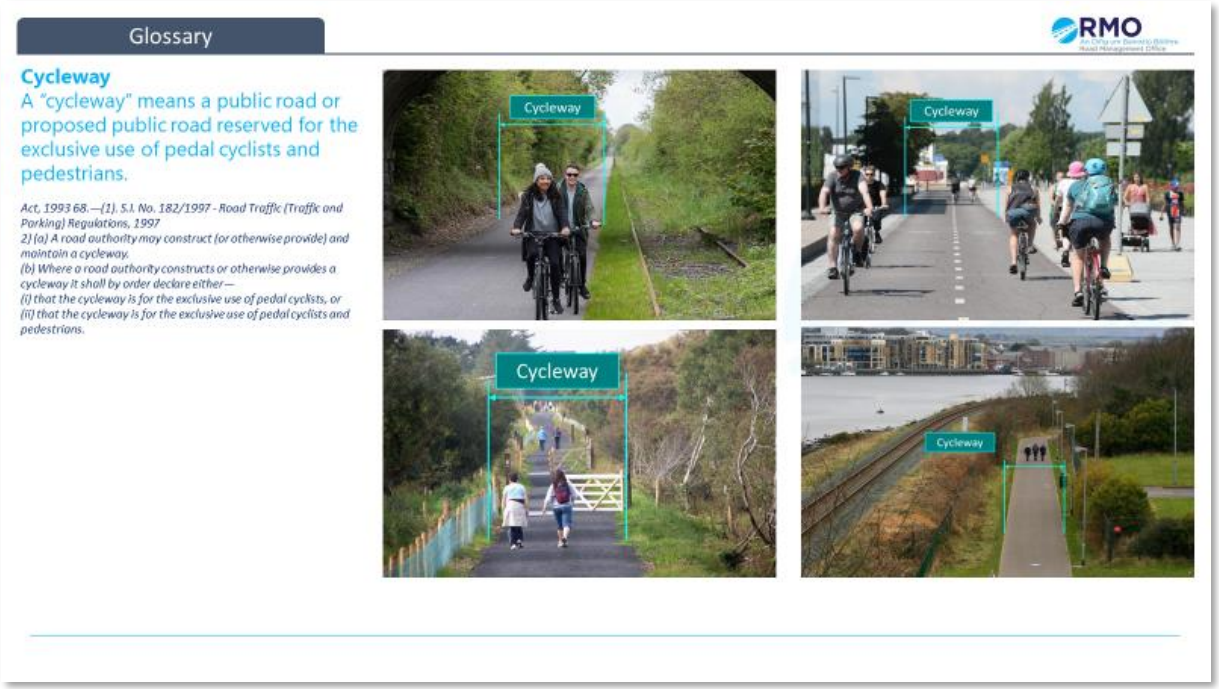


An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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.

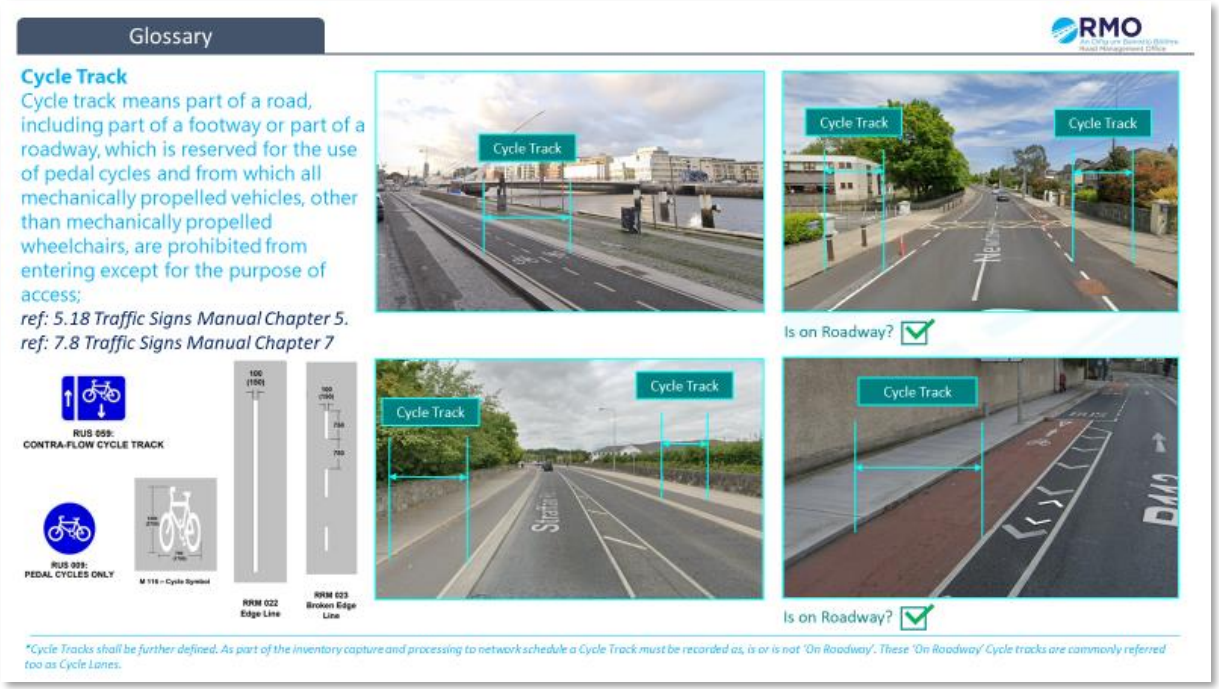


An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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.



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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.

An Roinn Iompair
Department of Transport

LASNTG

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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.

Glossary

RMO

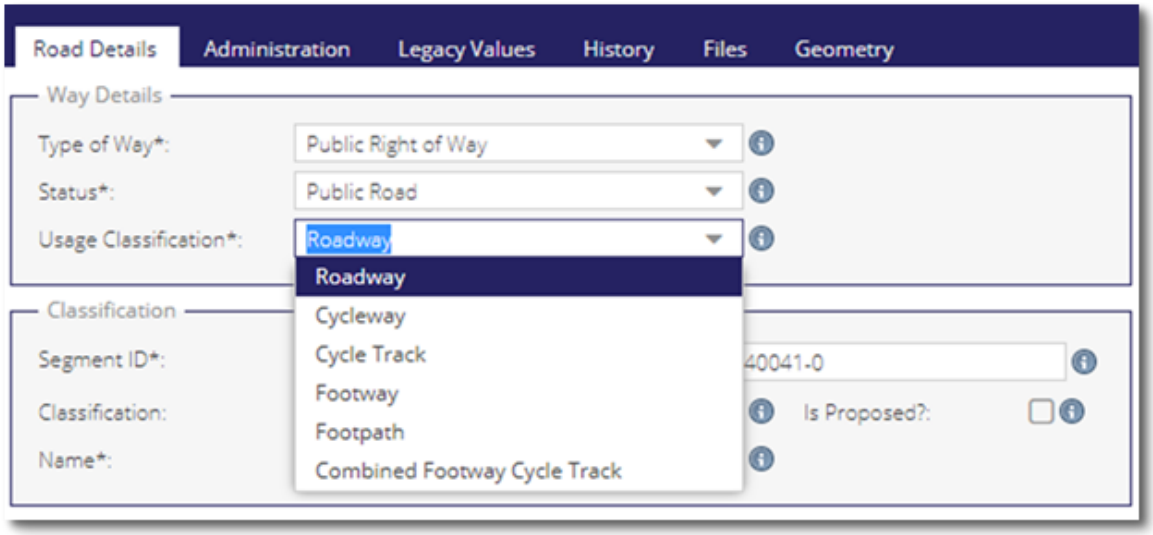
Footpath
A "footpath" means a road over which there is a public right of way for pedestrians **only,** not being a footway.

An Roinn Iompair
Department of Transport

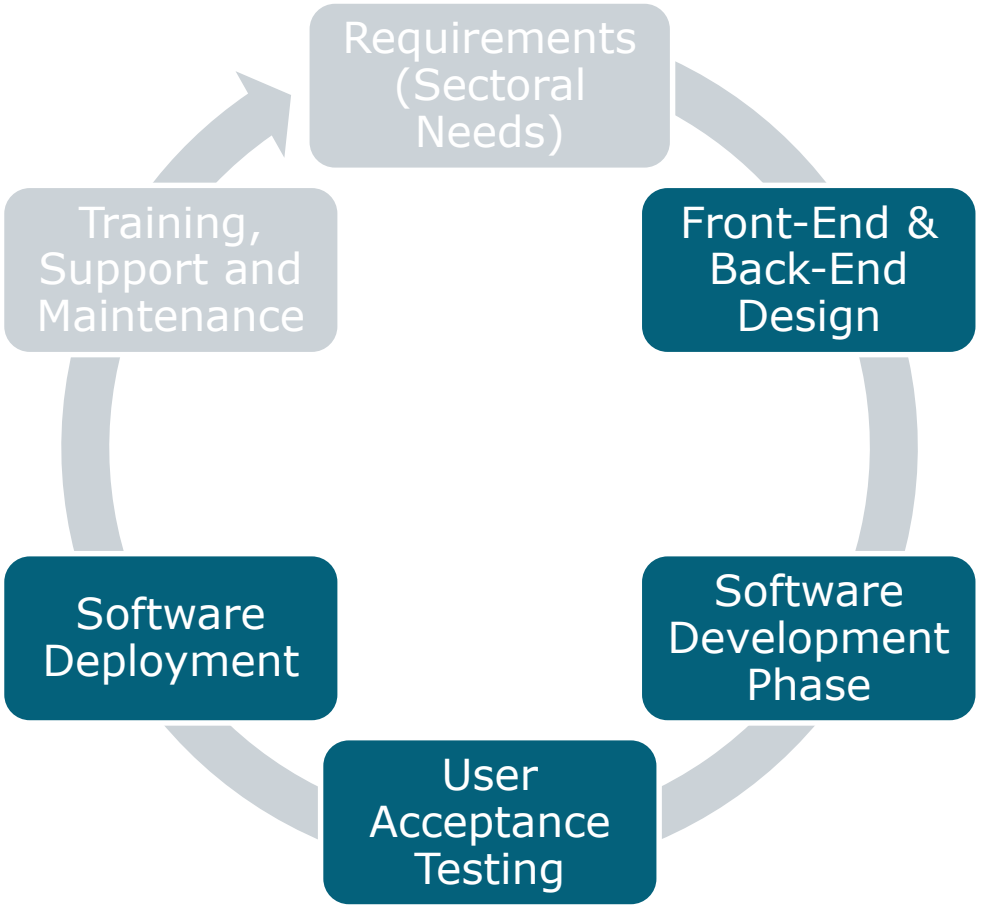
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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.



Software Development Phases



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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

Inventory

- Schedule of Assets e.g. mapped infrastructure

Projects

- Anchored to Inventory

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

Inventory

- Schedule of Assets e.g. mapped infrastructure

Projects

- Anchored to Inventory

An Roinn Iompair
Department of Transport

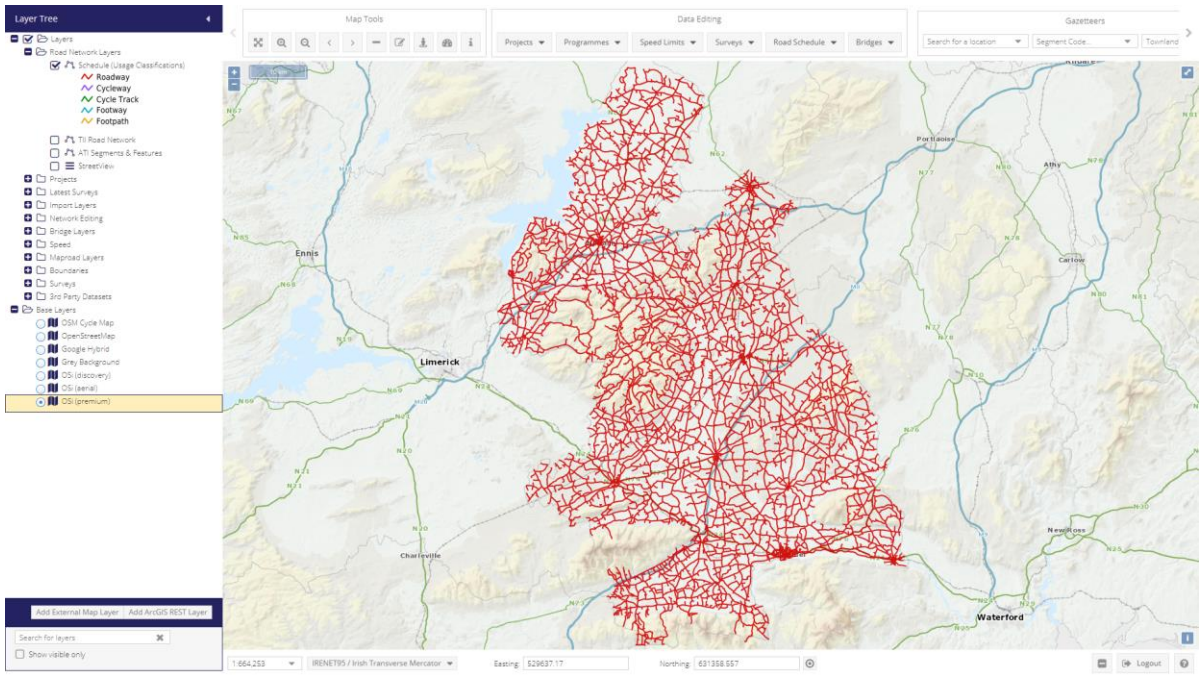
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Specify asset management tools for MapRoad

Inventory

- Schedule of Assets e.g. mapped infrastructure

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



An Roinn Iompair
Department of Transport

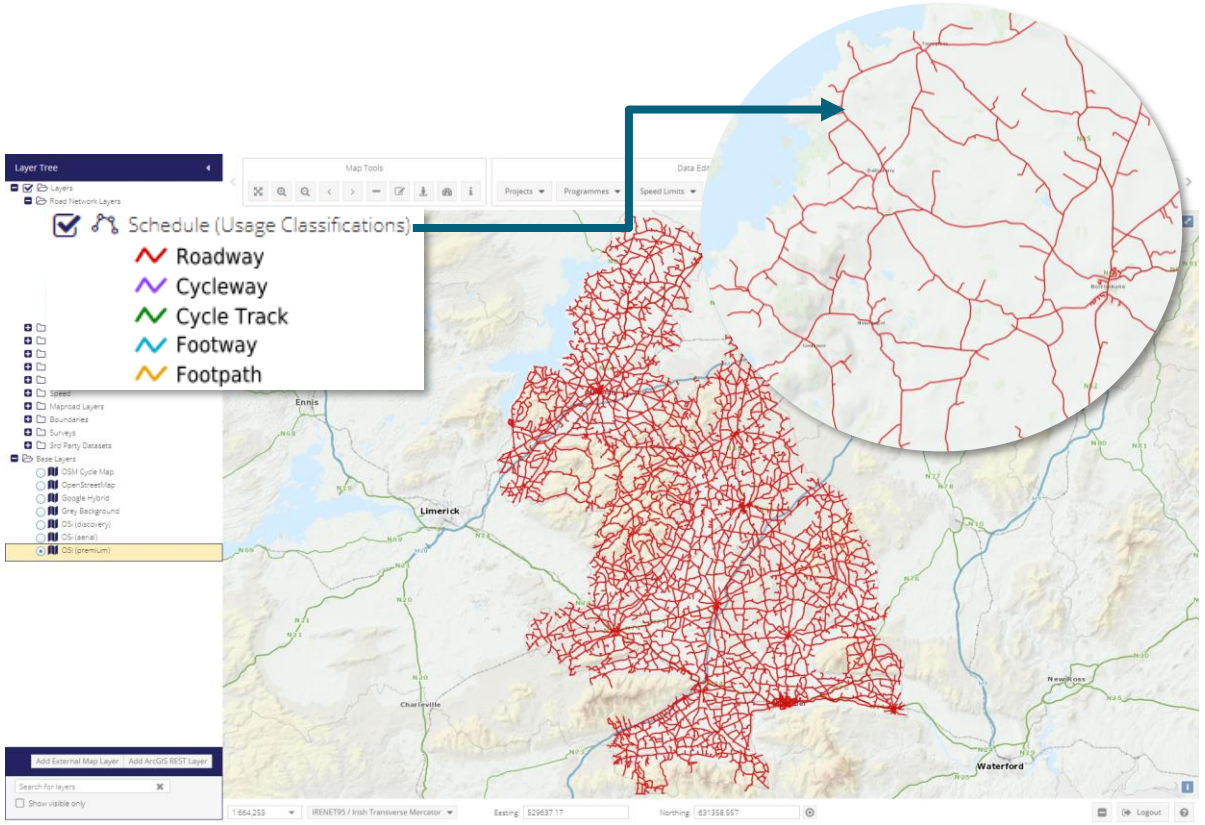
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Specify asset management tools for MapRoad

Inventory

- Schedule of Assets e.g. mapped infrastructure

- Usage Classifications:
  - Roadway
  - Cycleway
  - Cycle Track
  - Footway
  - Footpath

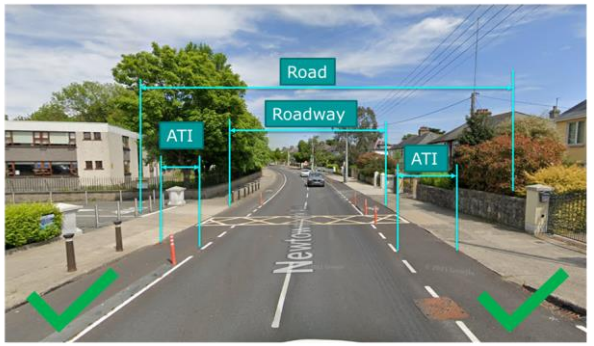


An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

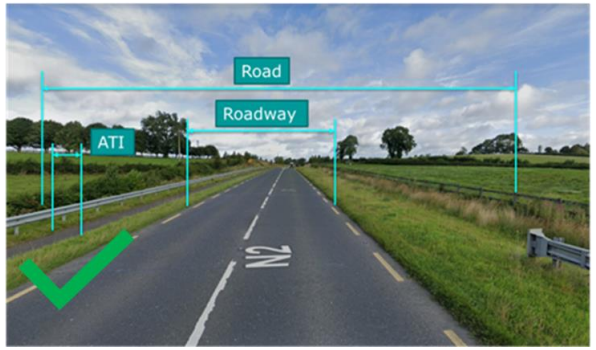
Specify asset management tools for MapRoad

ATI Feature 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.

ATI Linework Capture

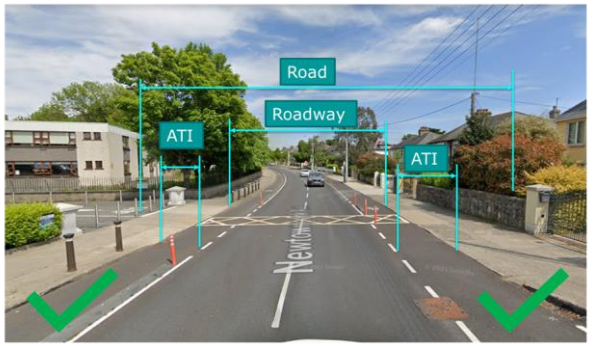


An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

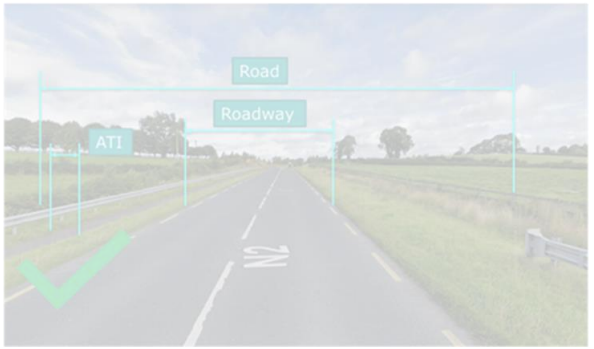
Specify asset management tools for MapRoad

ATI Feature 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.

ATI Linework Capture



An Roinn Iompair
Department of Transport

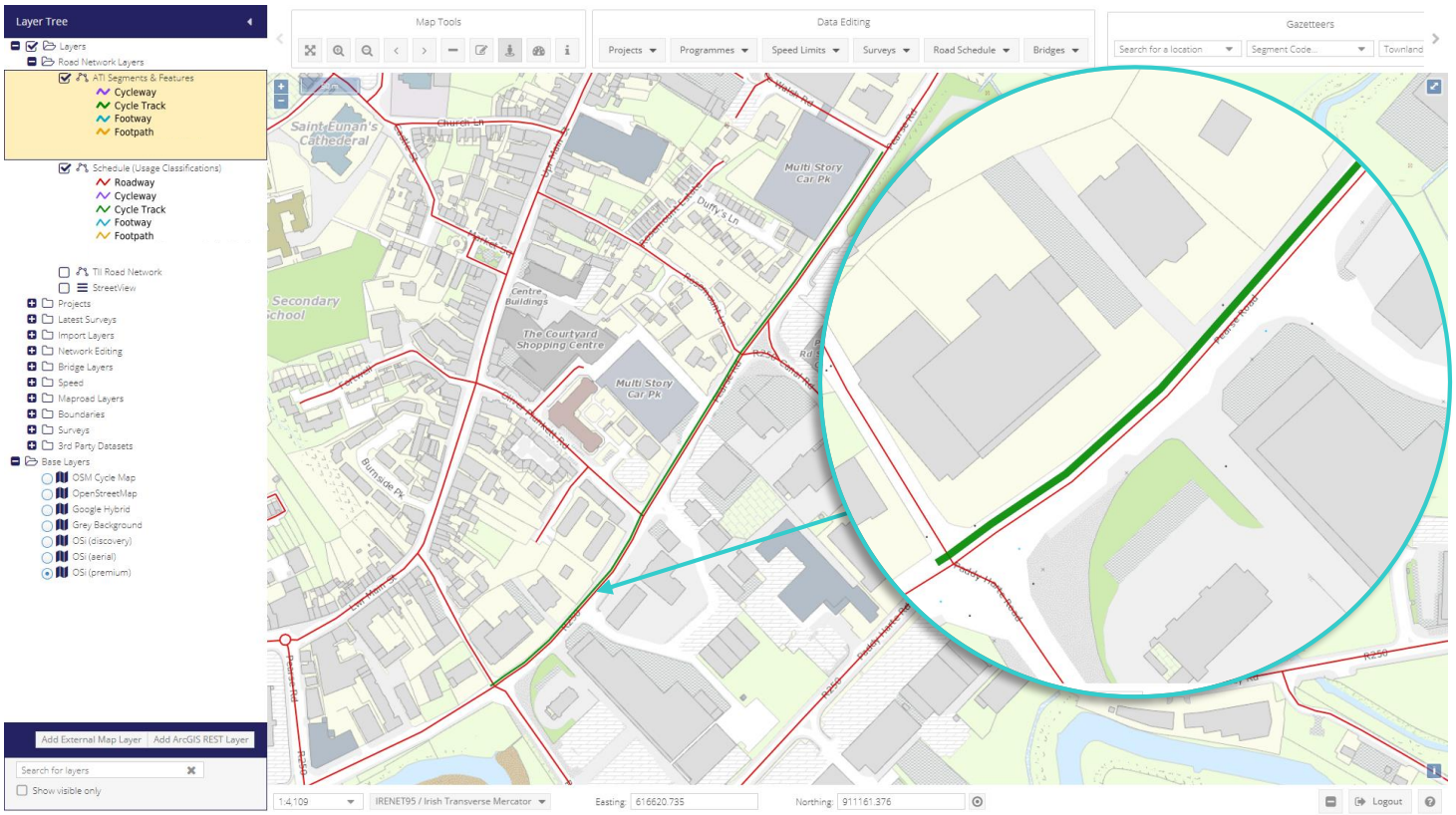
LASNTG
Local Authority Services National Training Group

CCMA
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Specify asset management tools for MapRoad

ATI Feature Capture

- Use existing road schedule to make ATI's.



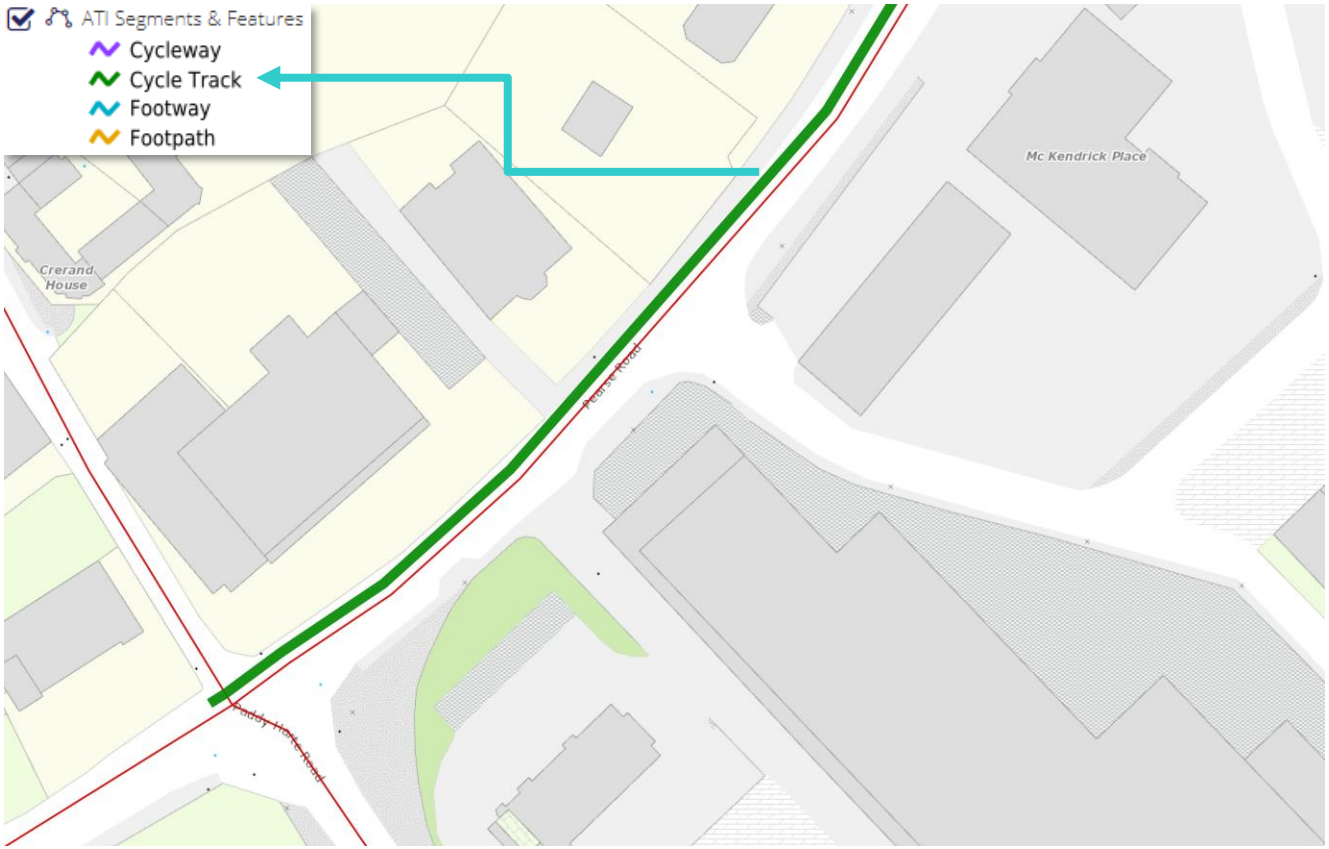
An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Specify asset management tools for MapRoad

ATI Feature Capture

- Use existing road schedule to make ATI's.



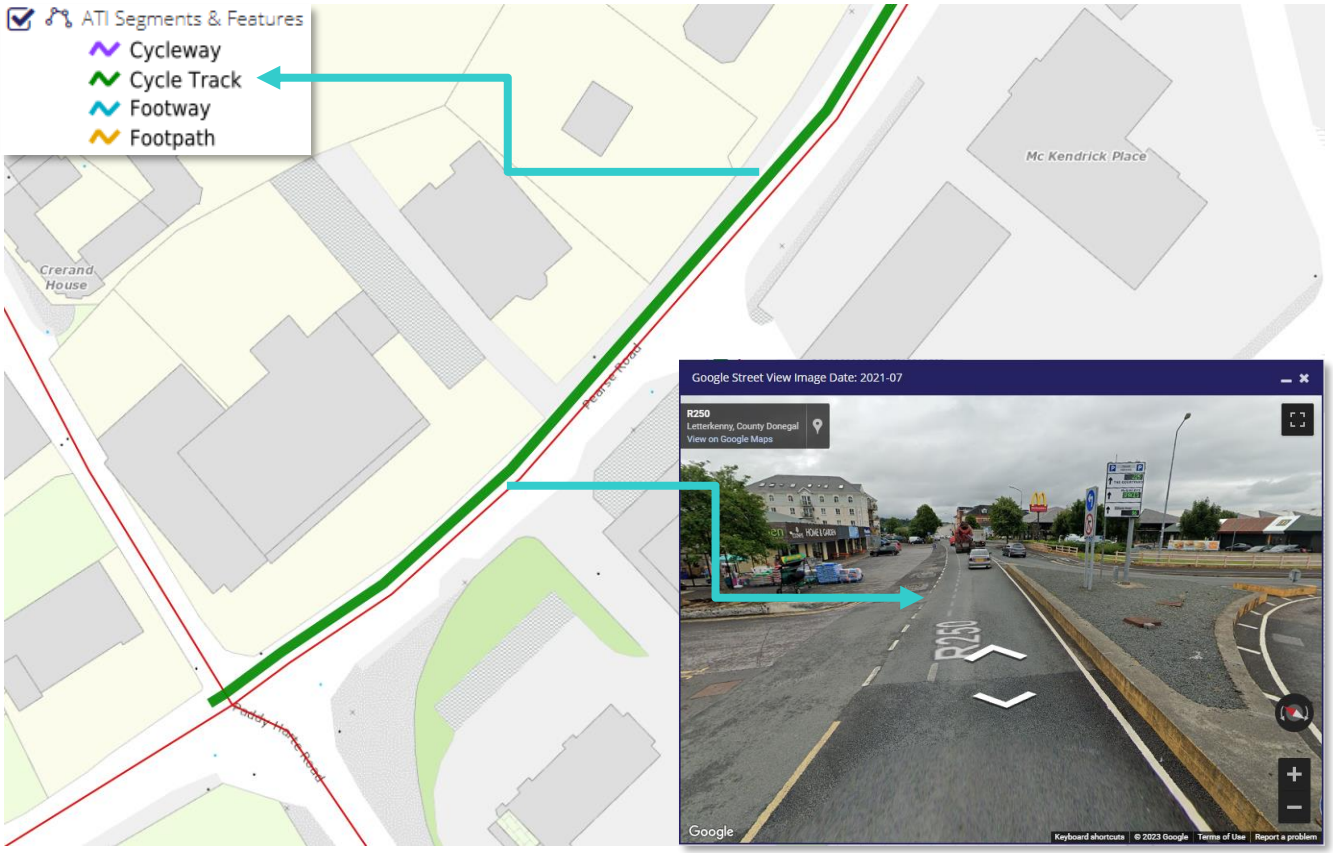
An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Specify asset management tools for MapRoad

ATI Feature Capture

- Use existing road schedule to make ATI's.



An Roinn Iompair
Department of Transport

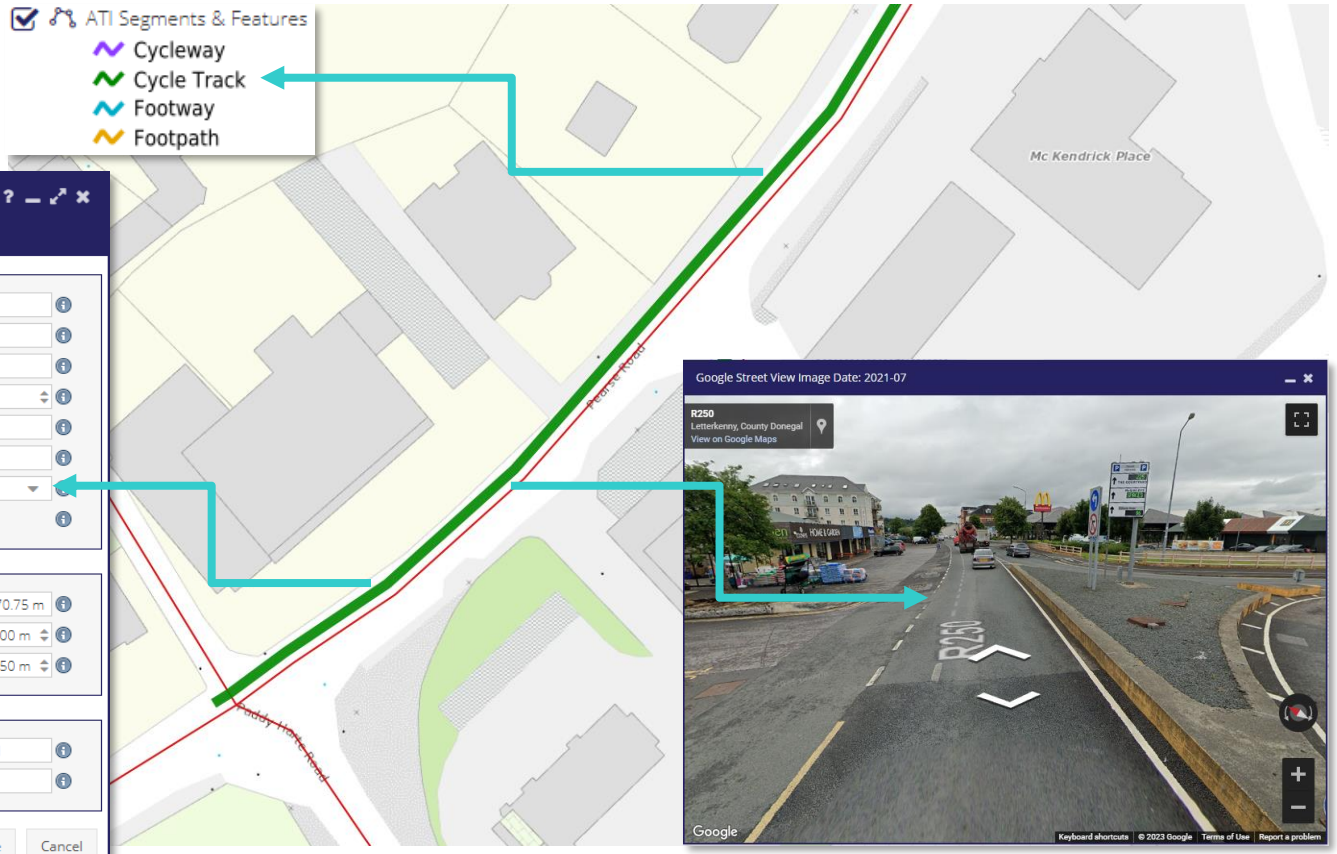
LASNTG
Local Authority Services National Training Group

CCMA
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Specify asset management tools for MapRoad

ATI Feature Capture

- Use existing road schedule to make ATI's.



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:	Juntion with Pearse Road and Paddy Harte Road
Ends At:	Juntion with Pearse Road and Rosemount Lane

Delete | Zoom | Save | Cancel

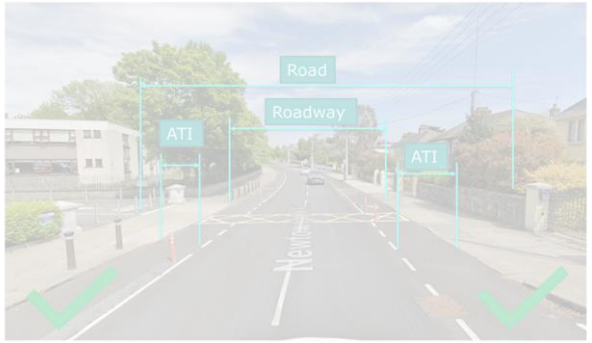
An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

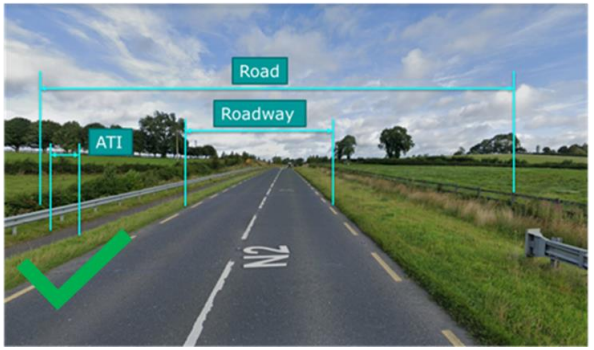
Specify asset management tools for MapRoad

- 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



An Roinn Iompair
Department of Transport

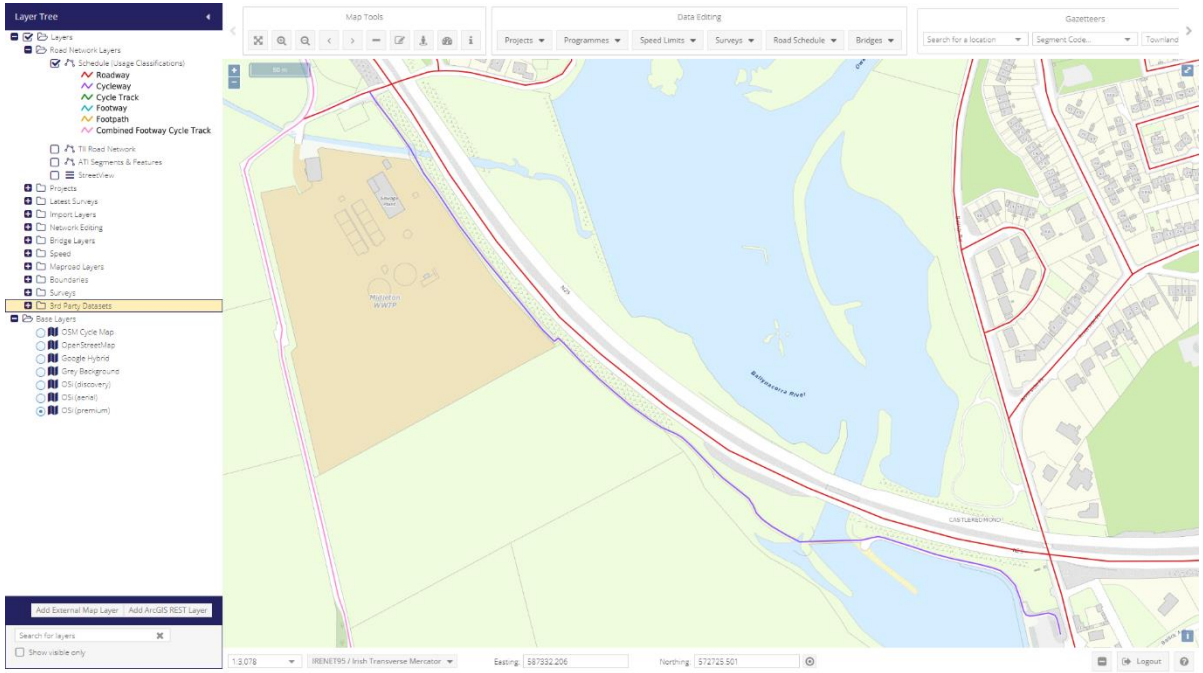
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Specify asset management tools for MapRoad

Inventory

- Schedule of Assets e.g. mapped infrastructure

- Ability to free draw ATI.

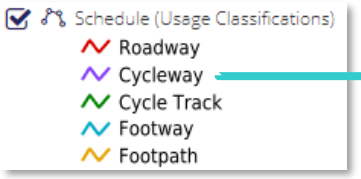


An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

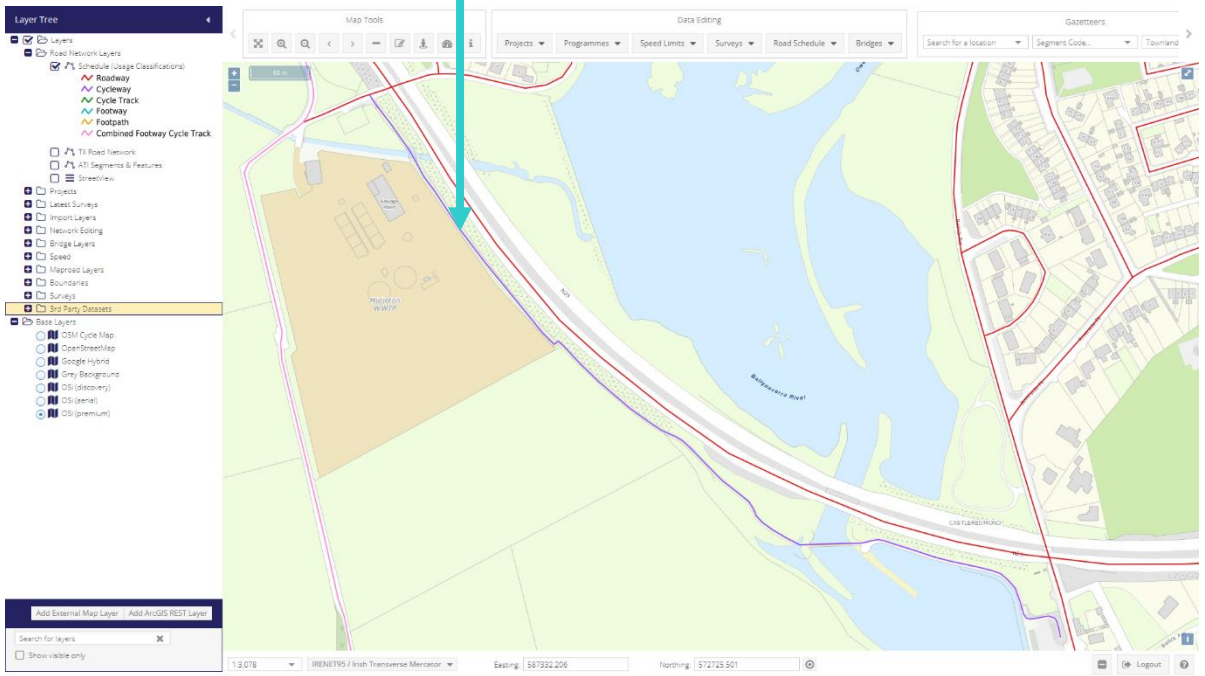
Specify asset management tools for MapRoad

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



Inventory

- Schedule of Assets e.g. mapped infrastructure

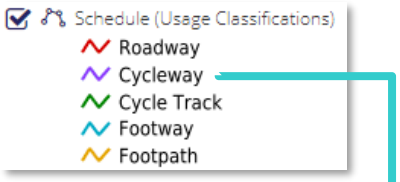


An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

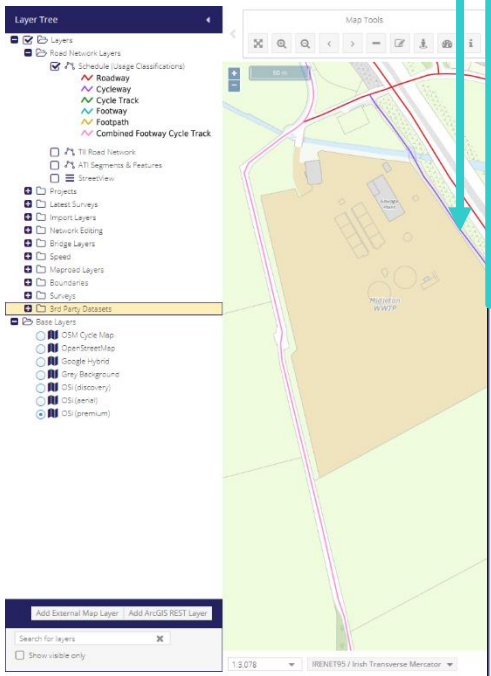
Specify asset management tools for MapRoad

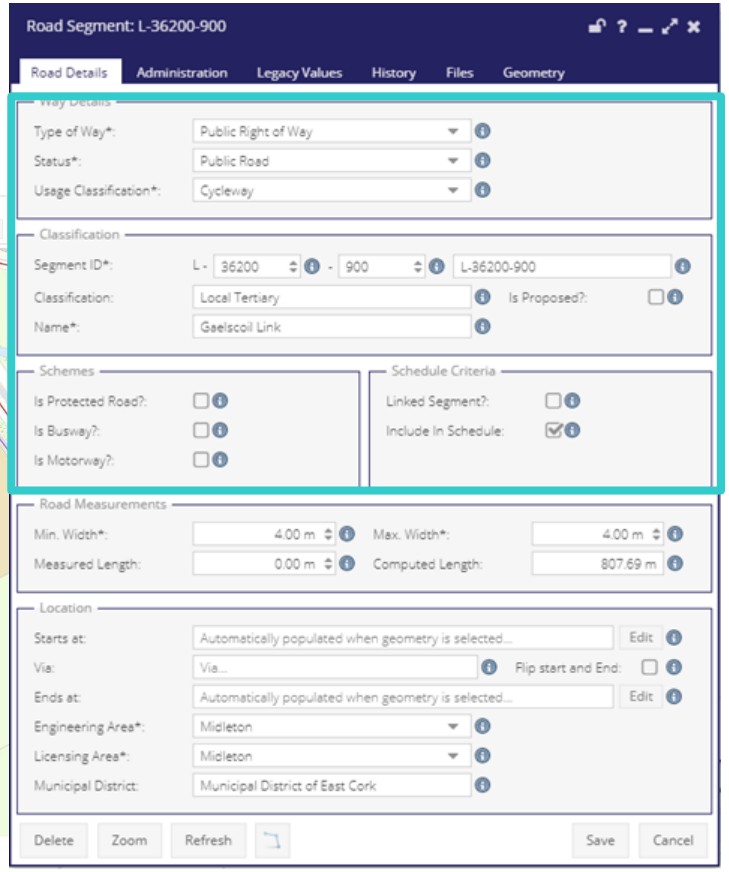
- Ability to assign schedule Inventory and assign Usage Classification through Schedule Form.



Inventory

- Schedule of Assets e.g. mapped infrastructure



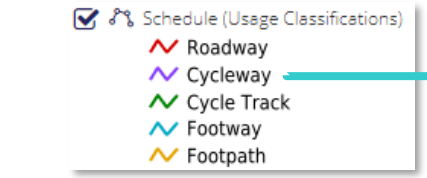


An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

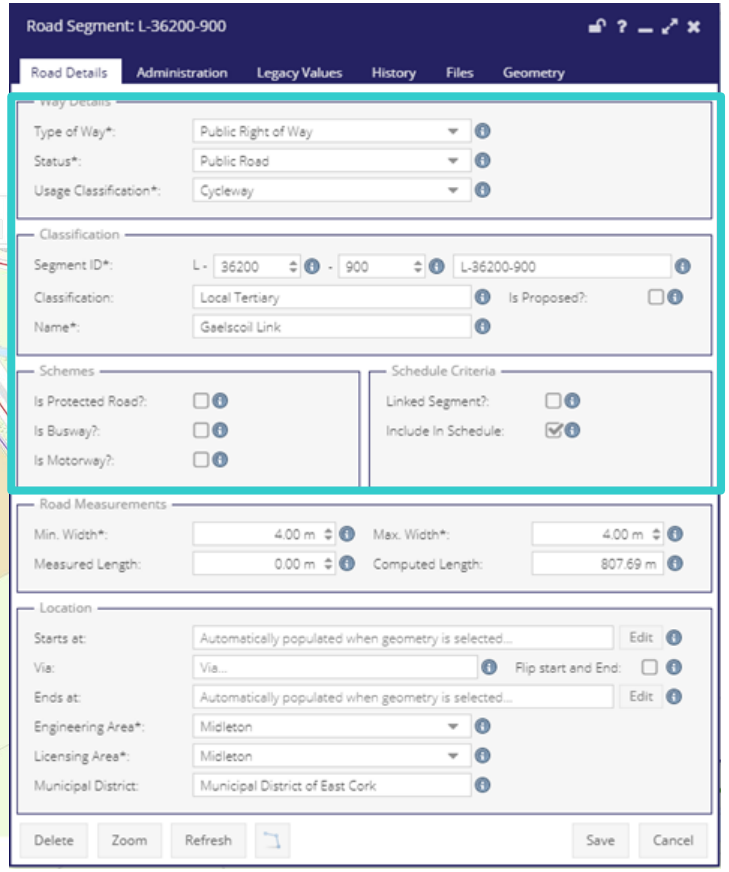
Specify asset management tools for MapRoad

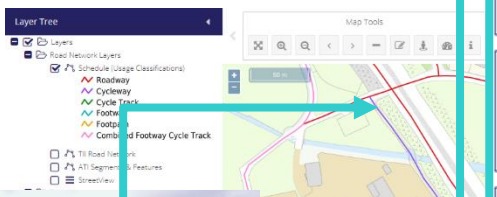
- Record of asset to enable:
  - Monitoring, planning and conditioning.
- Ability to control asset maintenance.



Inventory

- Schedule of Assets e.g. mapped infrastructure





An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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

Inventory

- Schedule of Assets e.g. mapped infrastructure

Projects

- Anchored to Inventory

An Roinn Iompair
Department of Transport

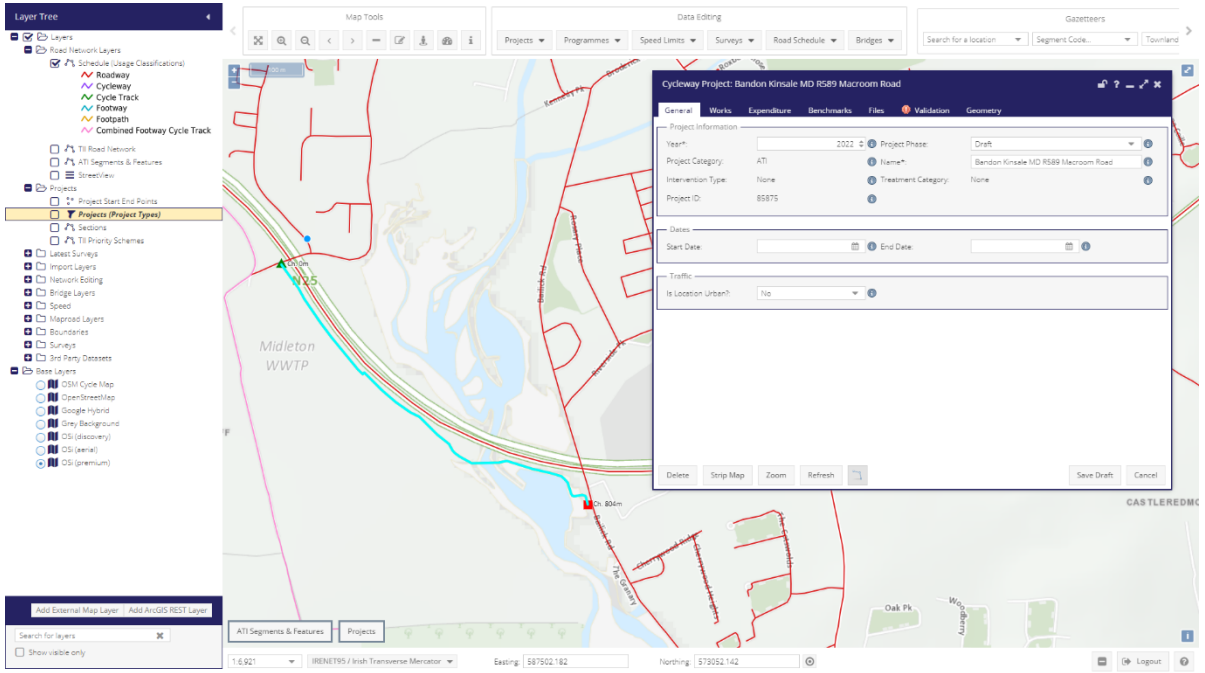
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Specify asset management tools for MapRoad

Projects

- Anchored to Inventory

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



An Roinn Iompair
Department of Transport

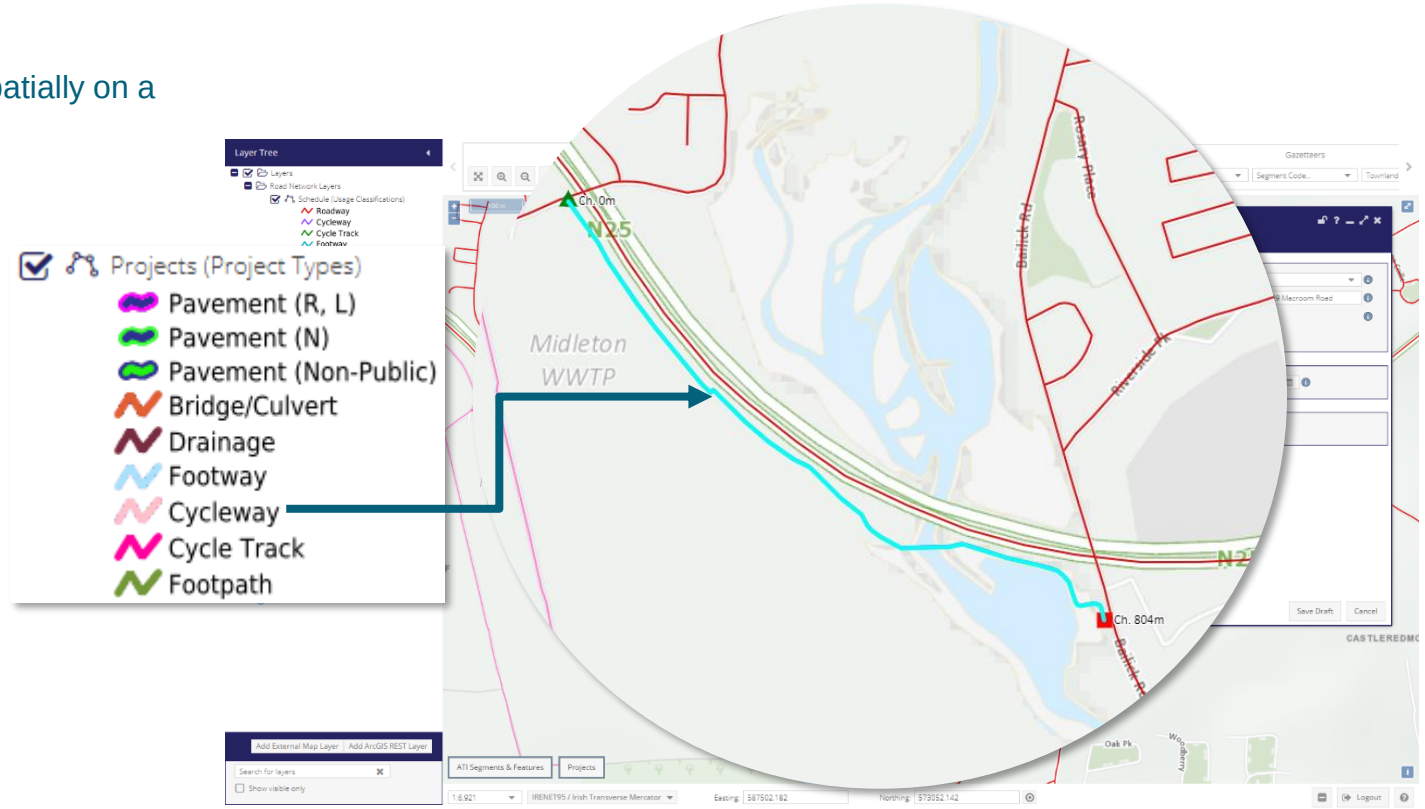
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Specify asset management tools for MapRoad

Projects

- Anchored to Inventory

- Ability to view projects spatially on a map.



An Roinn Iompair
Department of Transport

LASNTG
Local Authority Services National Training Group

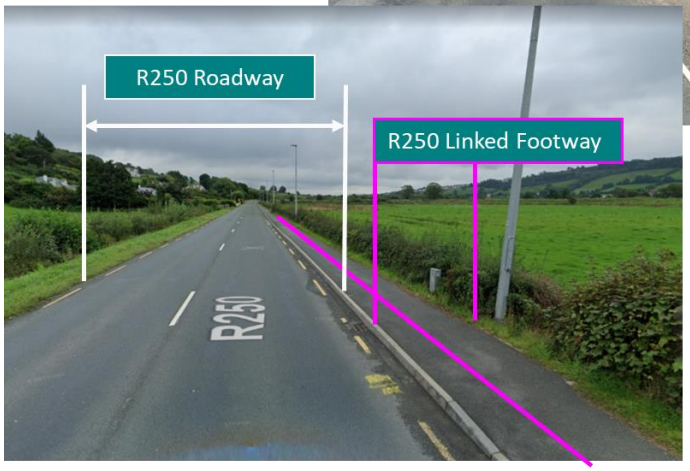
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Specify asset management tools for MapRoad

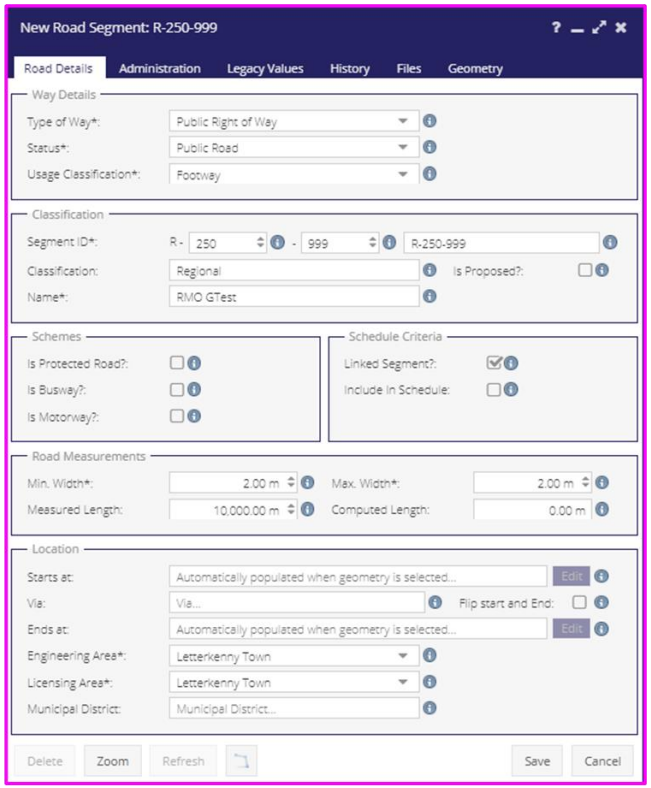
Projects

- Anchored to Inventory

Pre Project



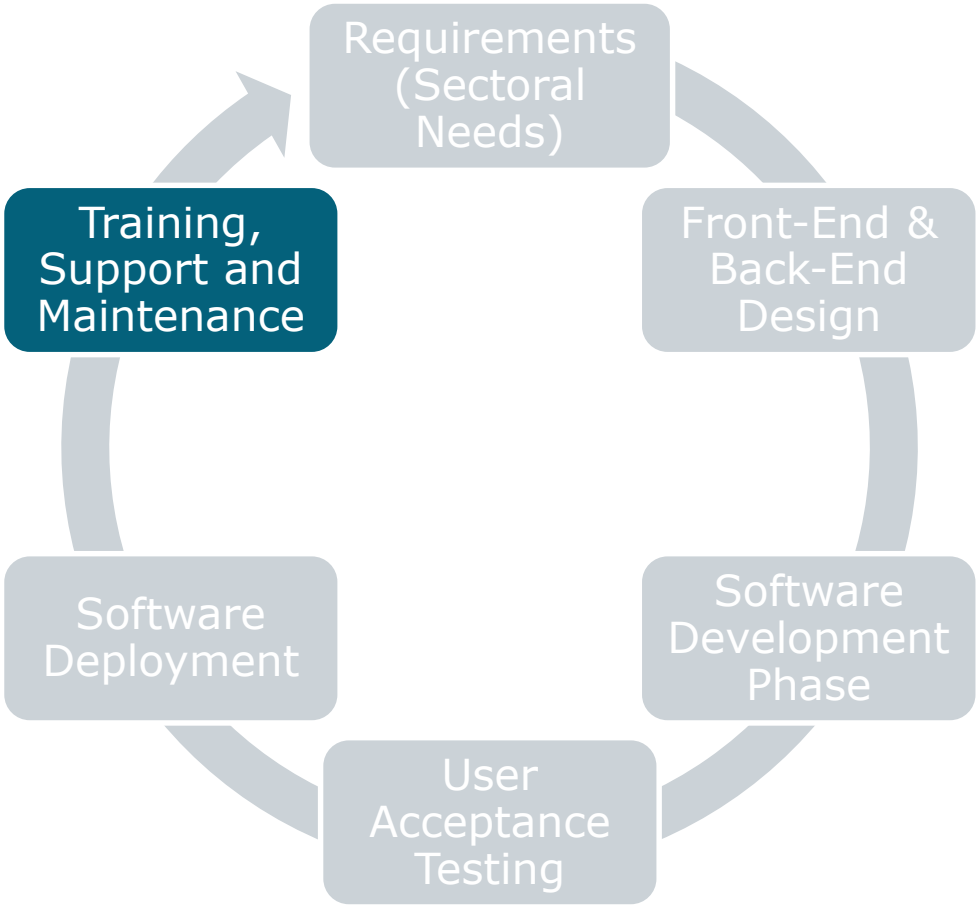
Post Project



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

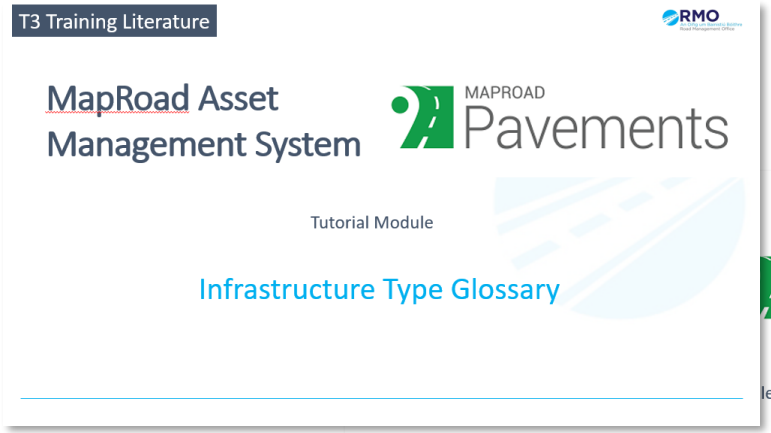
Training Support & Maintenance Phase

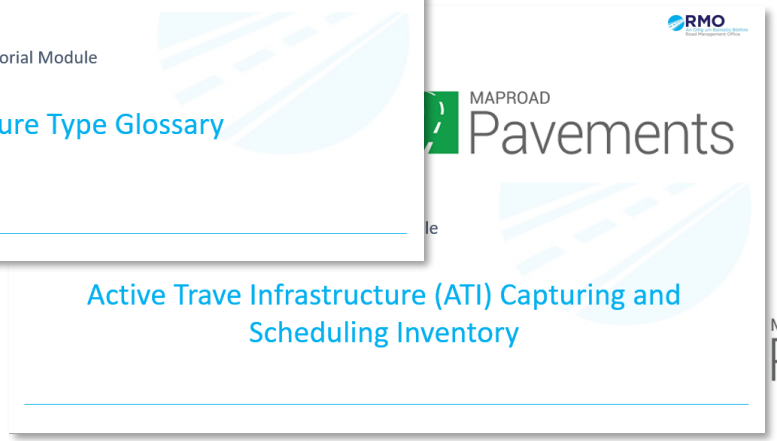


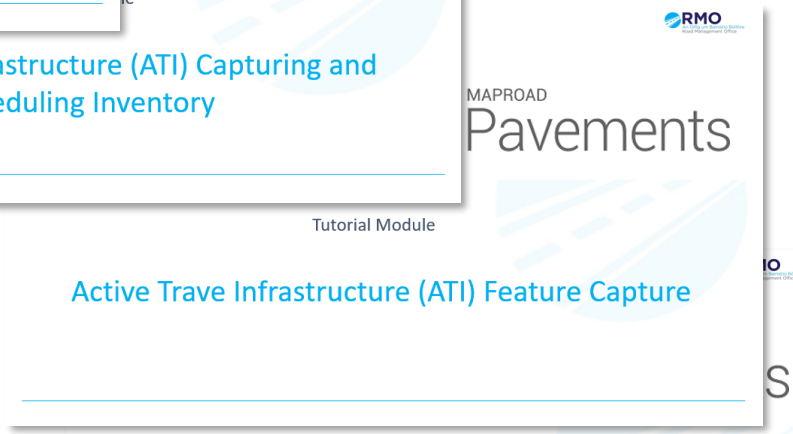
An Roinn Iompair
Department of Transport

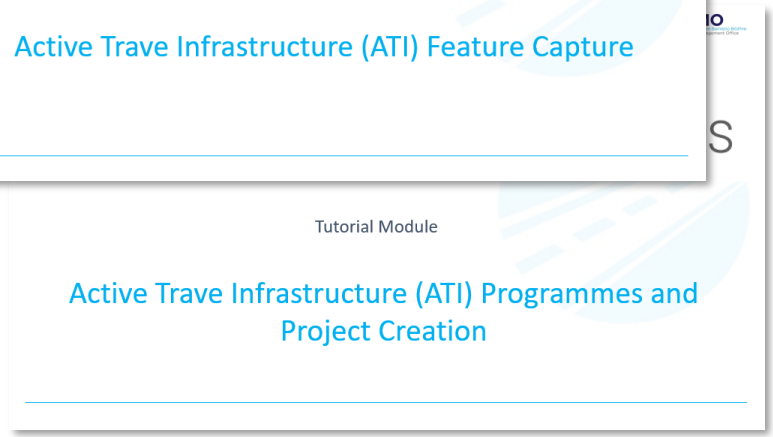
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Guidelines for use of management tools.









- T3 ATI Infrastructure Type Glossary
- T3 ATI Capturing and Scheduling Inventory
- T3 ATI Feature Capture
- T3 ATI Programmes and Project Creation

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Guidelines for use of management tools.

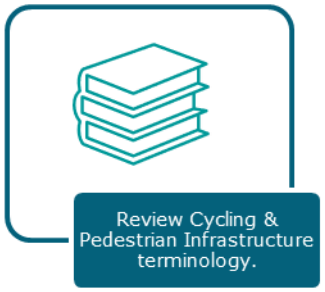
AT Workshop Schedule			
Date	Workshop	Status	No. Participants
Q4 2022	MapRoad AT Introduction Workshop 1 (Management Level)	Delivered	20
Q4 2022	MapRoad AT Introduction Workshop 2 (Management Level)	Delivered	20
Q4 2022	MapRoad AT Introduction Workshop 3 (Management Level)	Delivered	20
Q1 2023	Regional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

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

To Conclude

Review Cycling & Pedestrian Infrastructure terminology

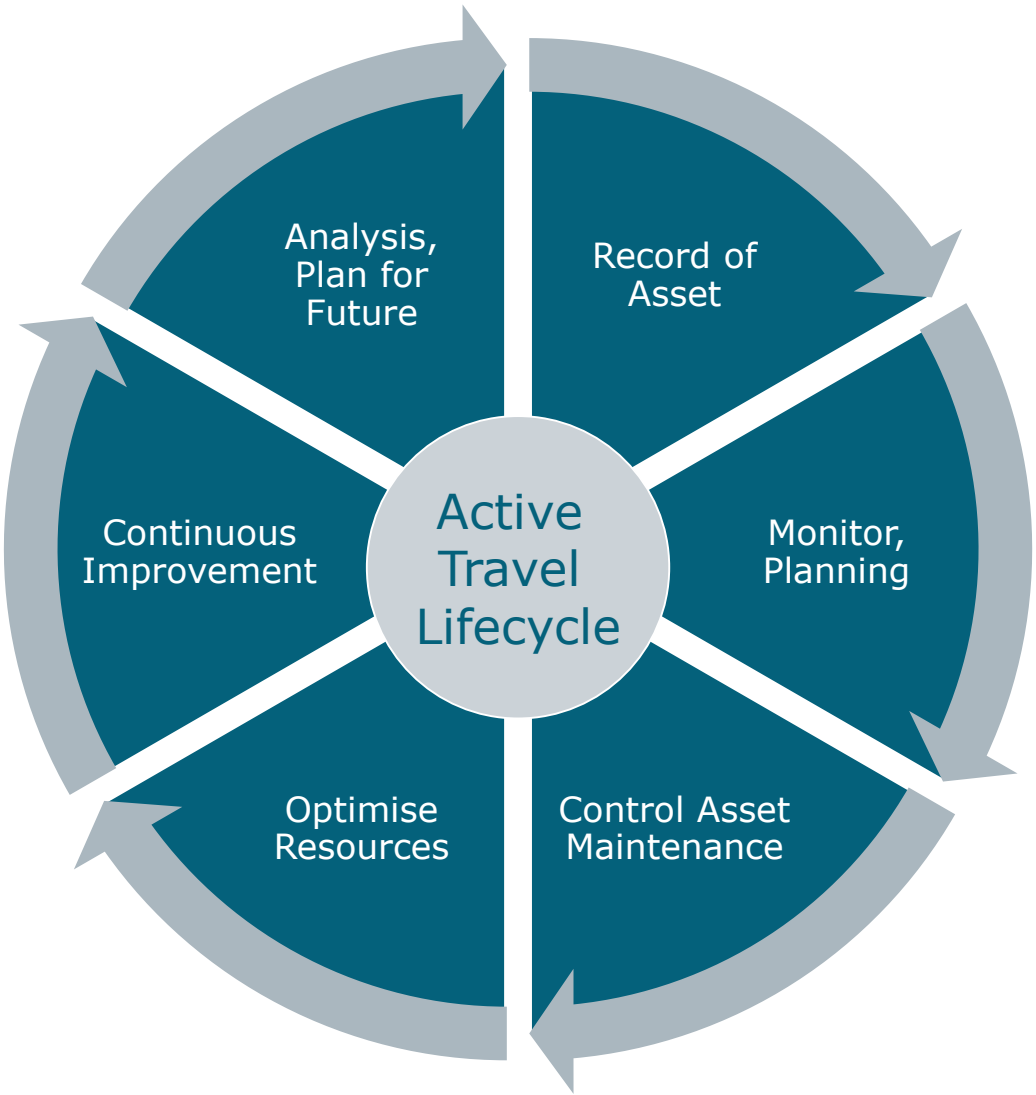


Specify and develop asset management tools for MapRoad

Guidelines / Training for use of management tools

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association



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

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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)

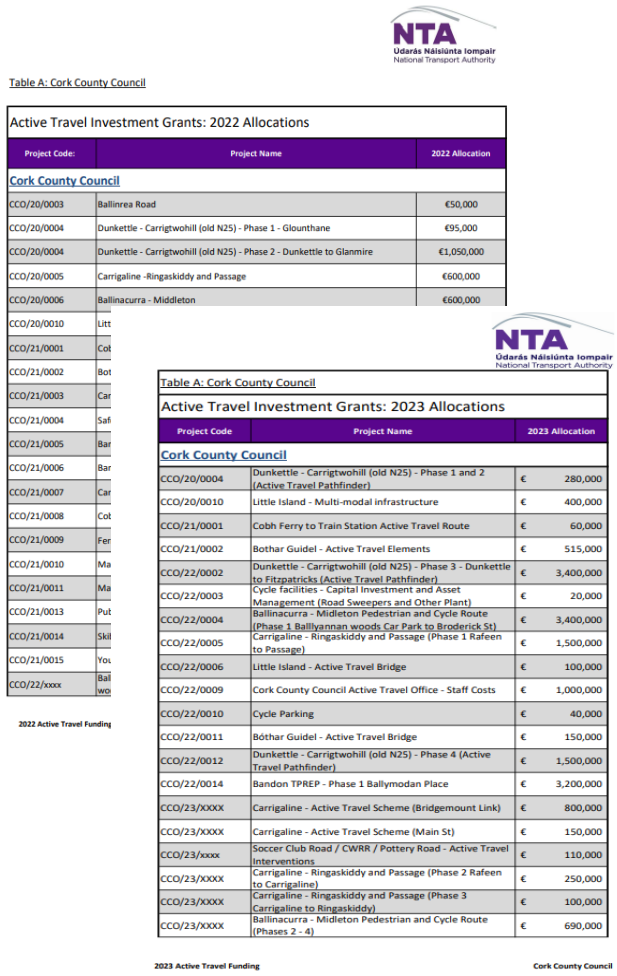


Table A: Cork County Council

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	Cob	
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	Cob	
CCO/21/0009	Fer	
CCO/21/0010	Ma	
CCO/21/0011	Ma	
CCO/21/0013	Put	
CCO/21/0014	Skl	
CCO/21/0015	You	
CCO/22/xxxx	Bal wo	

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 Fitzpatricks (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 - Midleton Pedestrian and Cycle Route (Phase 1 Balllyannan 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	Bóthar 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 - Midleton Pedestrian and Cycle Route (Phases 2 - 4)	€ 690,000

2023 Active Travel Funding

Cork County Council

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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.

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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.

<u>A Sample of ATI Projects Captured on MapRoad AMS</u>

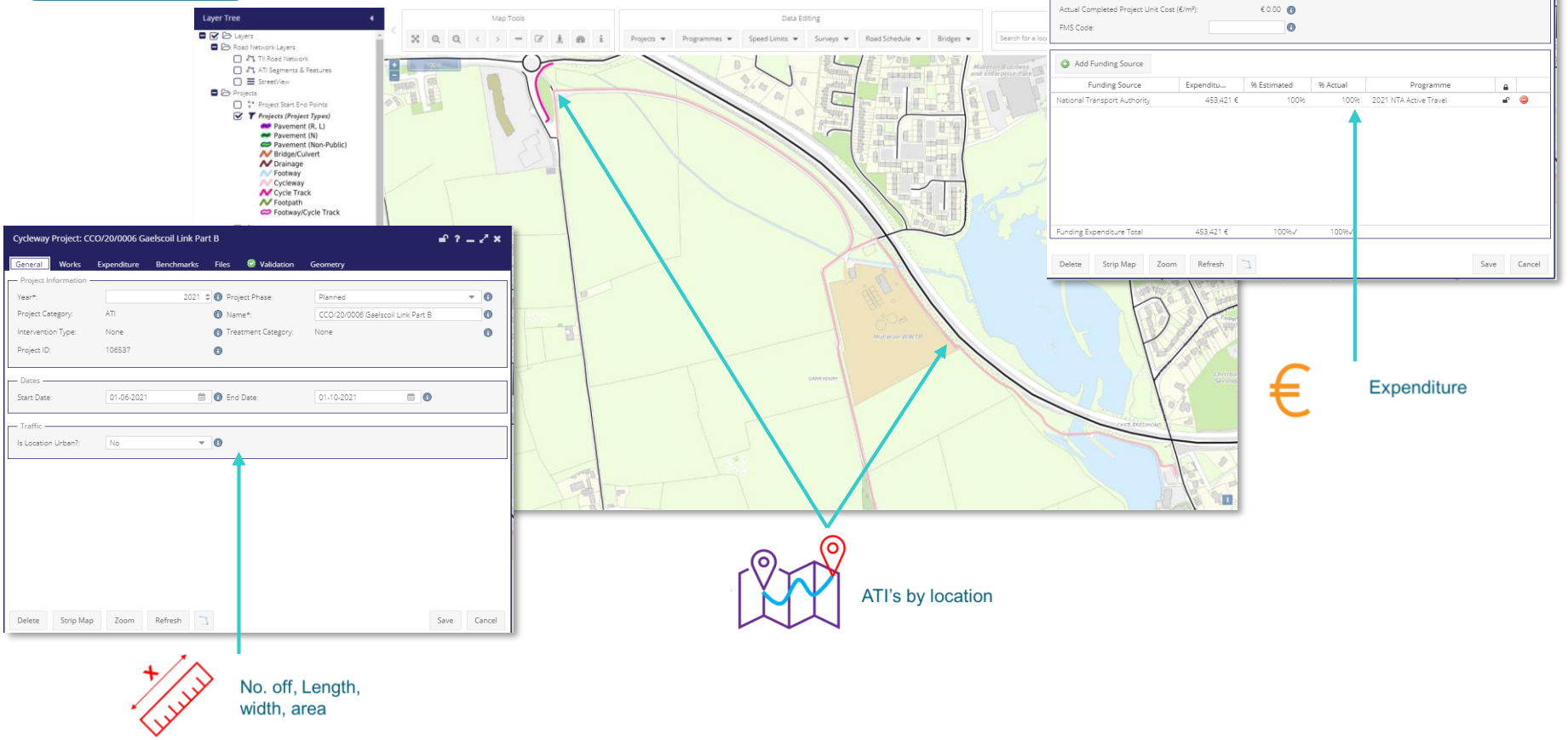
1. CCO/20/0006 Middleton Gaelscoil Link
2. CCO/22/0002 Strategic Cycle Corridors - Old N25 Dunkettle - Carrigtwohill Phase 3
3. CCO/22/0013 Carrigaline TPREP

An Roinn Iompair
Department of Transport

LASNTG
Local Authority Services National Training Group

CCMA
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

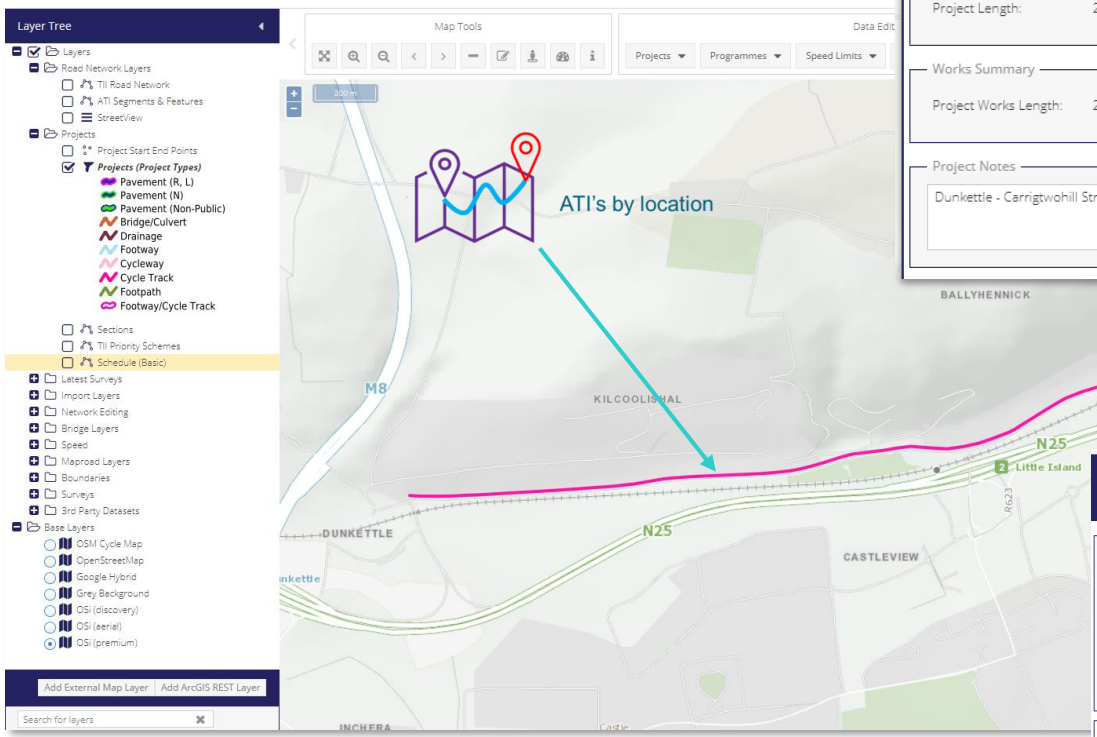
Project 1:
CCO/20/0006 Middleton Gaelscoil Link

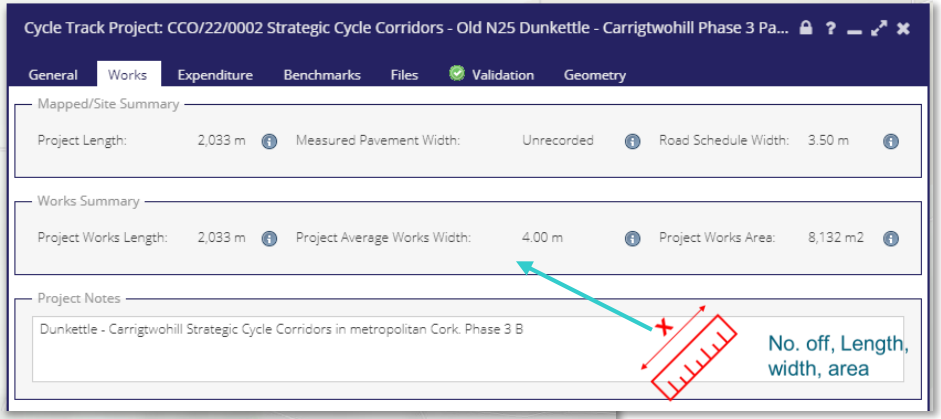


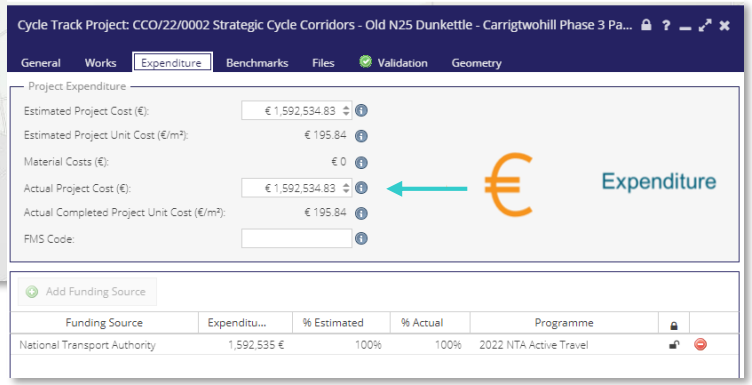
An Roinn Iompair
Department of Transport

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



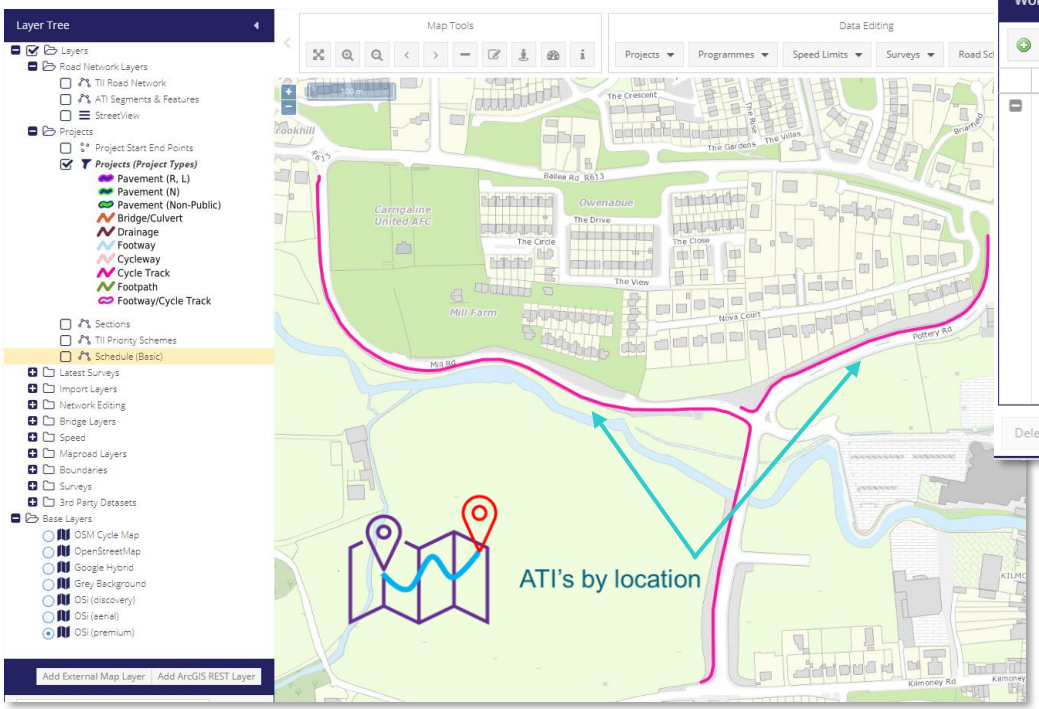


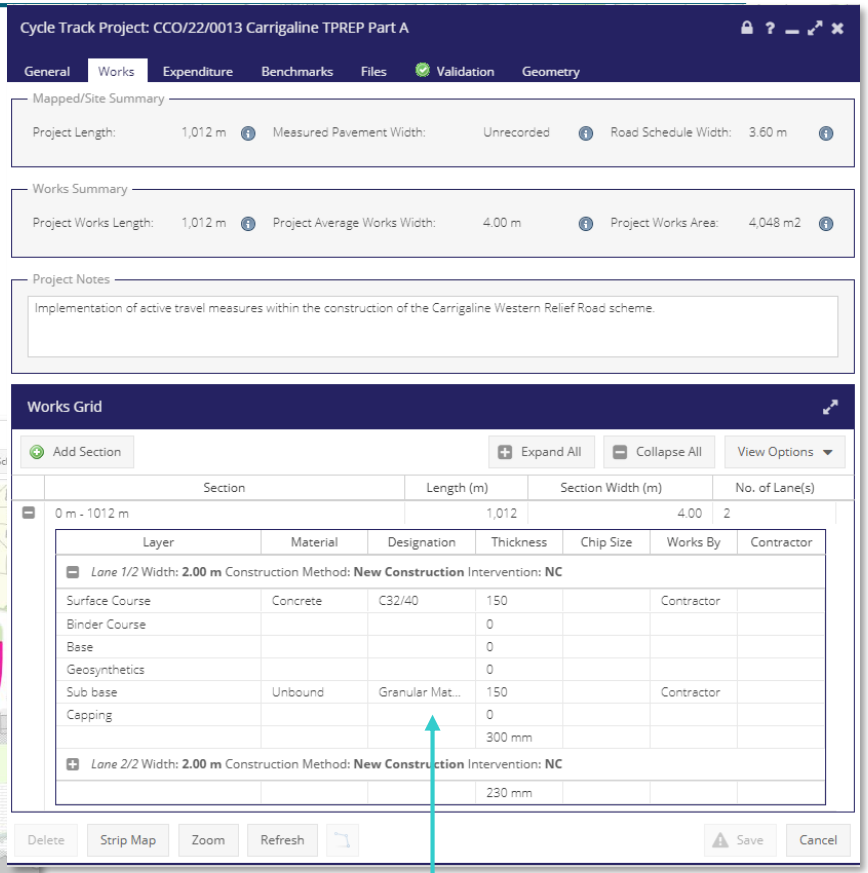


An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Project 3: CCO/22/0013 Carrigaline TPREP



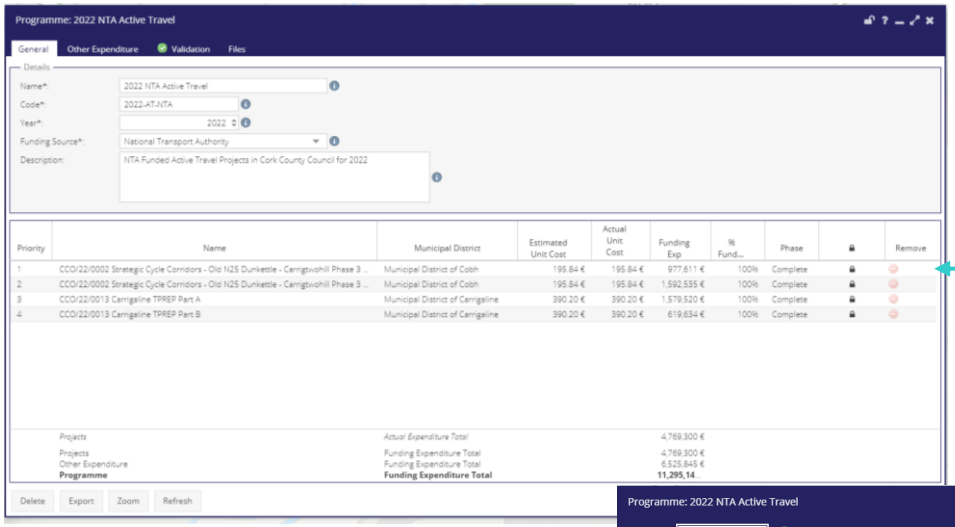


Analysis; materials, condition, maintenance

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Programme Outputs

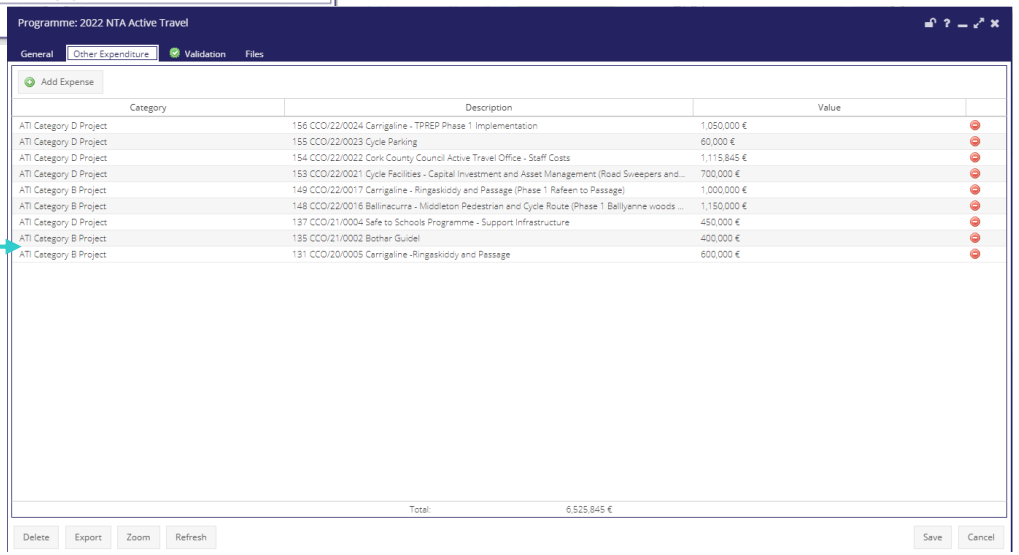


€

Project Expenditure (Spatial)

€

Other Expenditure (Non-Spatial)

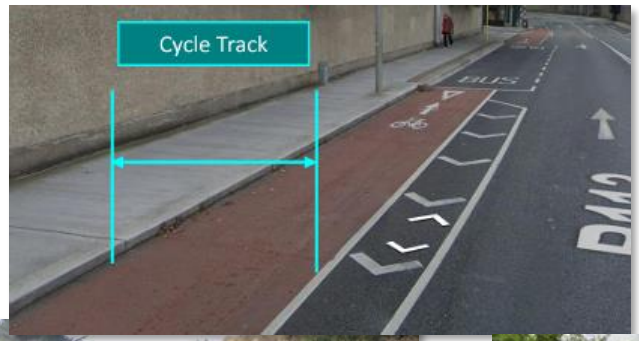


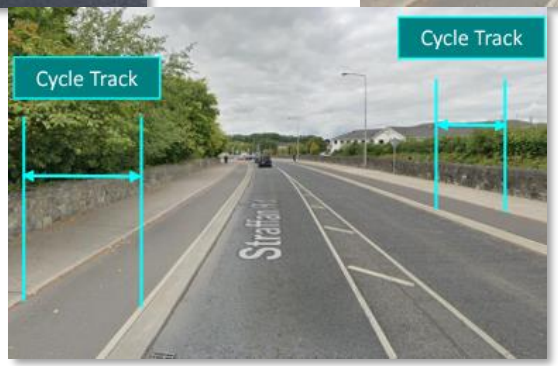
An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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.



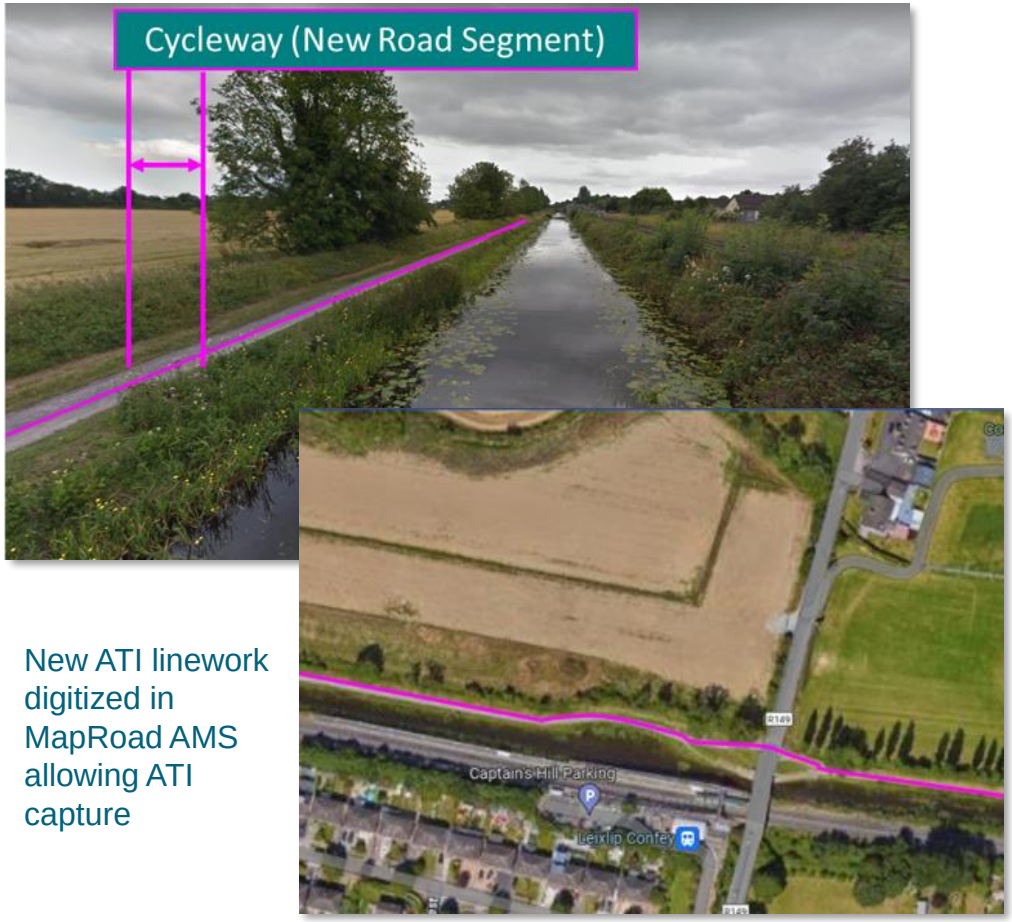


An Roinn Iompair
Department of Transport

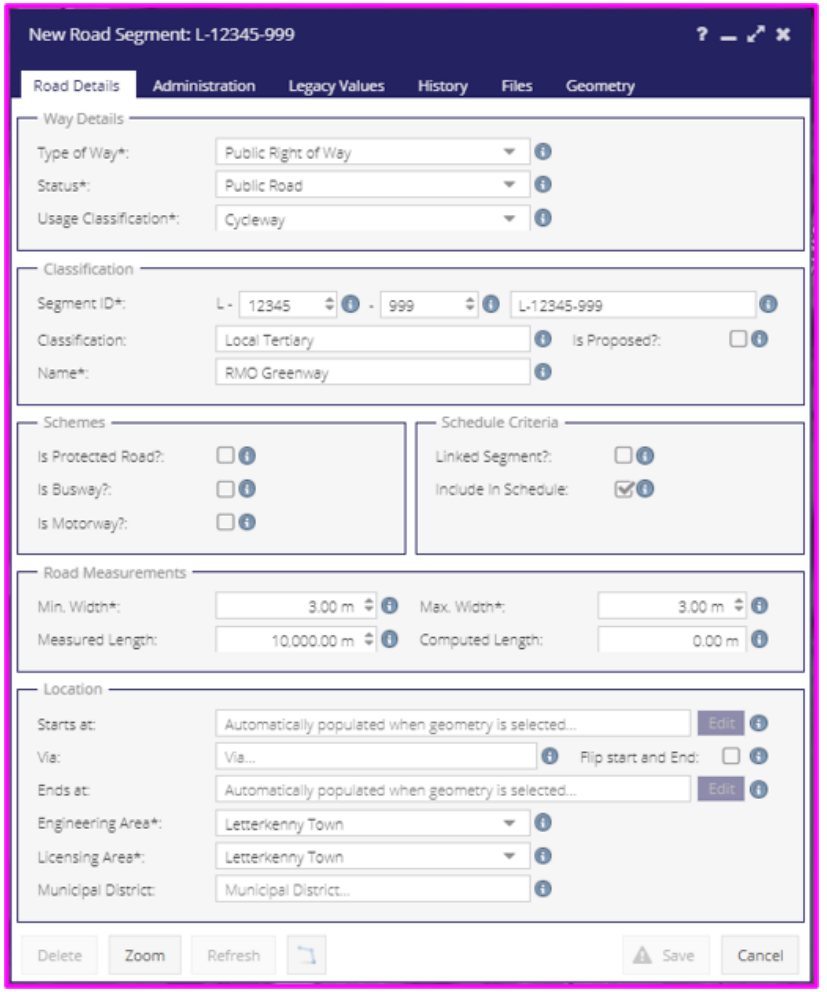
Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

How Inventory and Projects were Captured on MapRoad AMS

Capturing new ATI linework



New ATI linework digitized in MapRoad AMS allowing ATI capture



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

How Inventory and Projects were Captured on MapRoad AMS

Using existing MapRoad AMS linework

Existing MapRoad AMS Linework allowing ATI capture

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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:

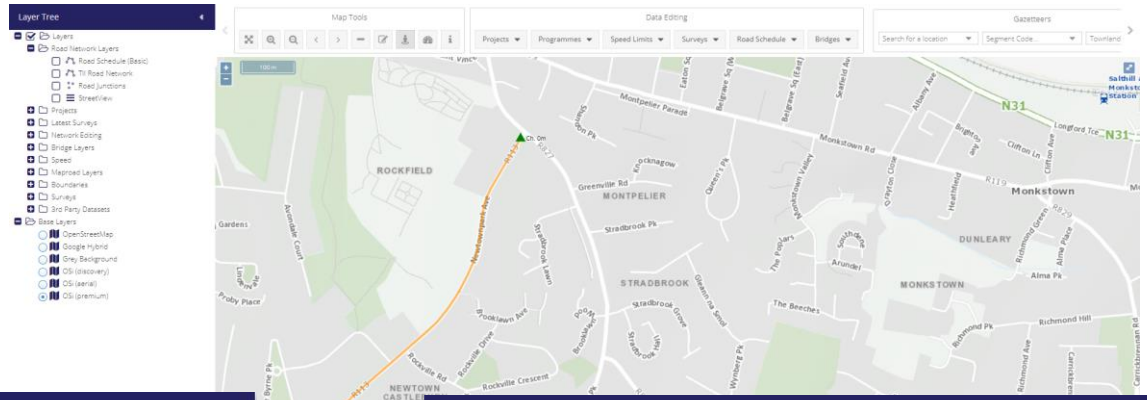
The MapRoad Asset Management System can offer various analytical capabilities to assess ATI. Reports and visualizations can be generated to provide insights for decision-making, planning, and resource allocation.

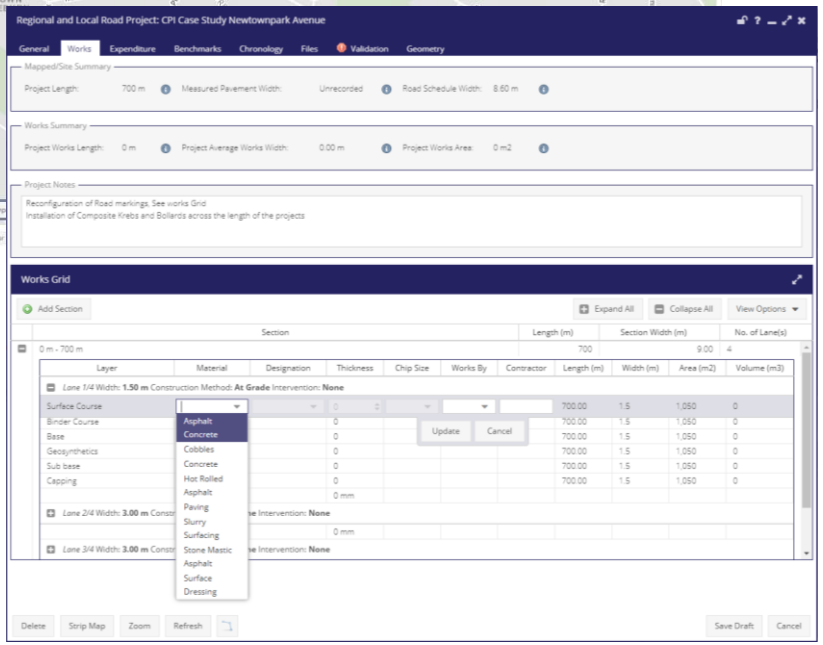
An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Attributes and Information Captured in MapRoad AMS

Information Capture at Individual Project and Authority Wide Programme Levels

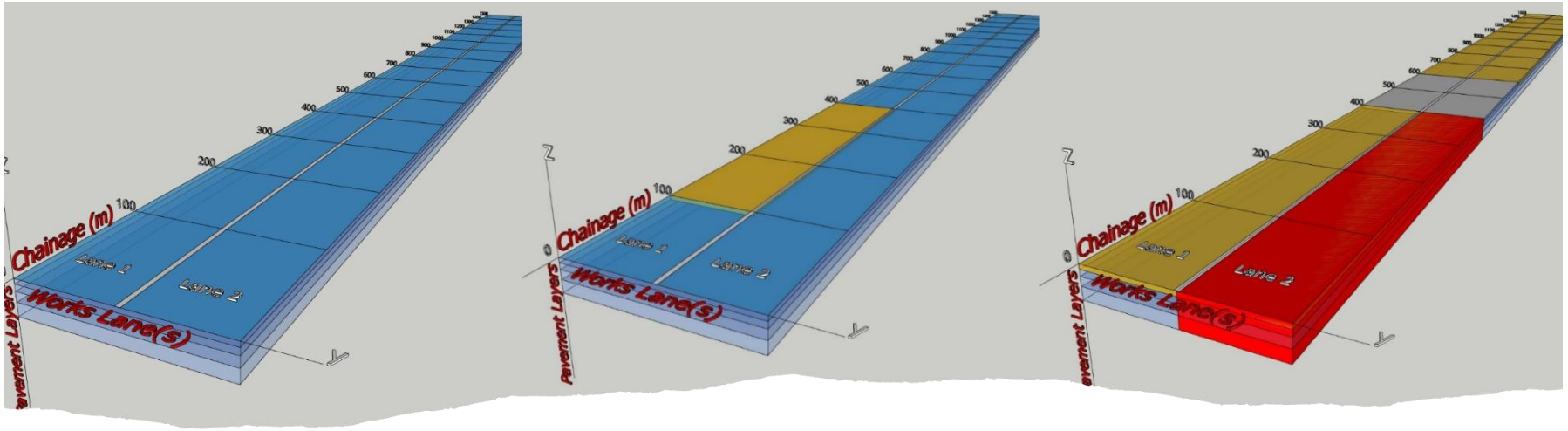




An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Attributes and Information Captured in MapRoad AMS



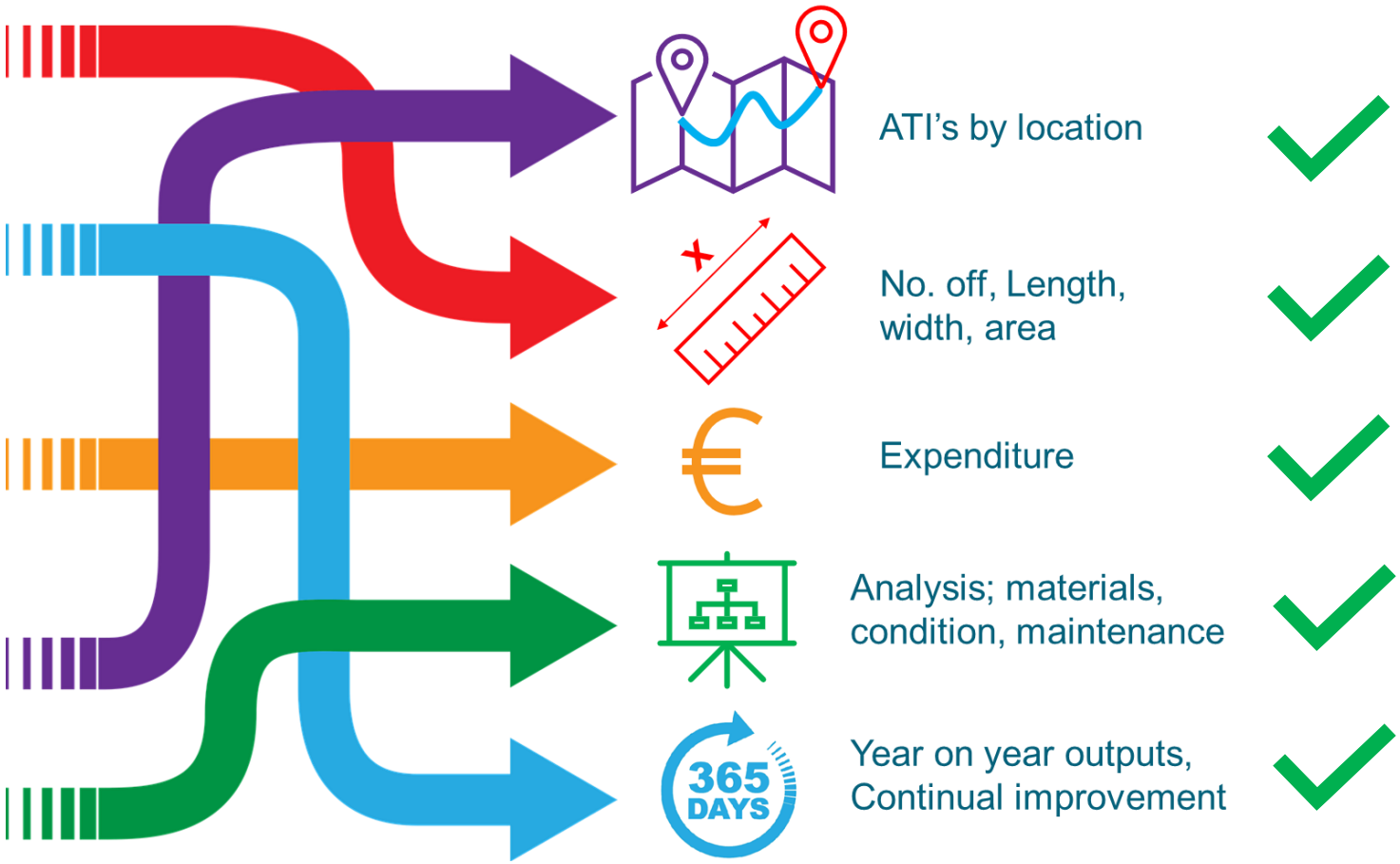
MapRoad AMS Project Outturns

- **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.

An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

Attributes and Information Captured in MapRoad AMS



An Roinn Iompair
Department of Transport

Cumann Lucht Bainistíochta Contae agus Cathrach
County and City Management Association

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

RMO
An Oifig um Bainistiú Bóithre
Road Management Office

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