Rialtas na hÉireann
Government of Ireland

zevi

Zero Emission
Vehicles Ireland

Delivering Local EV Infrastructure

Aoife O’ Grady – Principal Advisor ZEVI

Rialtas na hÉireann
Government of Ireland

zevi Zero Emission Vehicles Ireland

Ireland ZEV targets

1. 30% of Private Cars by 2030
2. Estimated number of 195,000 plug-in EVs on the road by 2025
3. AFIR then requires 325% increase in charging capacity by 2025

Rialtas na hÉireann
Government of Ireland

zevi Zero Emission Vehicles Ireland

Power and charge point capacity 2025

Power increase:

80,000kW to 214,000kW

Charge Point Increase:

2,100 to 3,200 – 6,210 nationally

Depending on need

Charging Pool every 60Km on the motorway network

600-1200kW on Ten T

HDV Infrastructure

TEN-T Core & Comprehensive

1.4MW - 7MW every 60/100kM

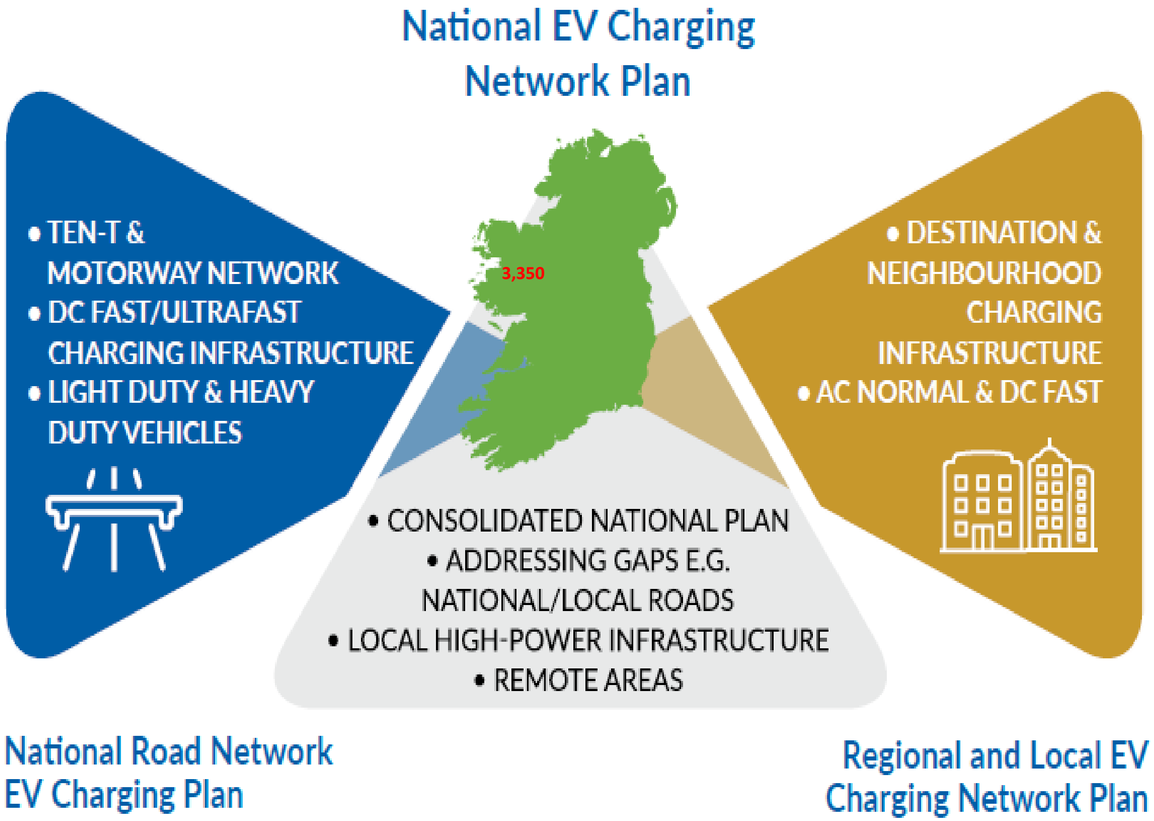
By 2030 (15% by 2025)

An additional three-fold increase to 2030
Need to consider Scalability and Additionality

Rialtas na hÉireann
Government of Ireland

zevi Zero Emission Vehicles Ireland

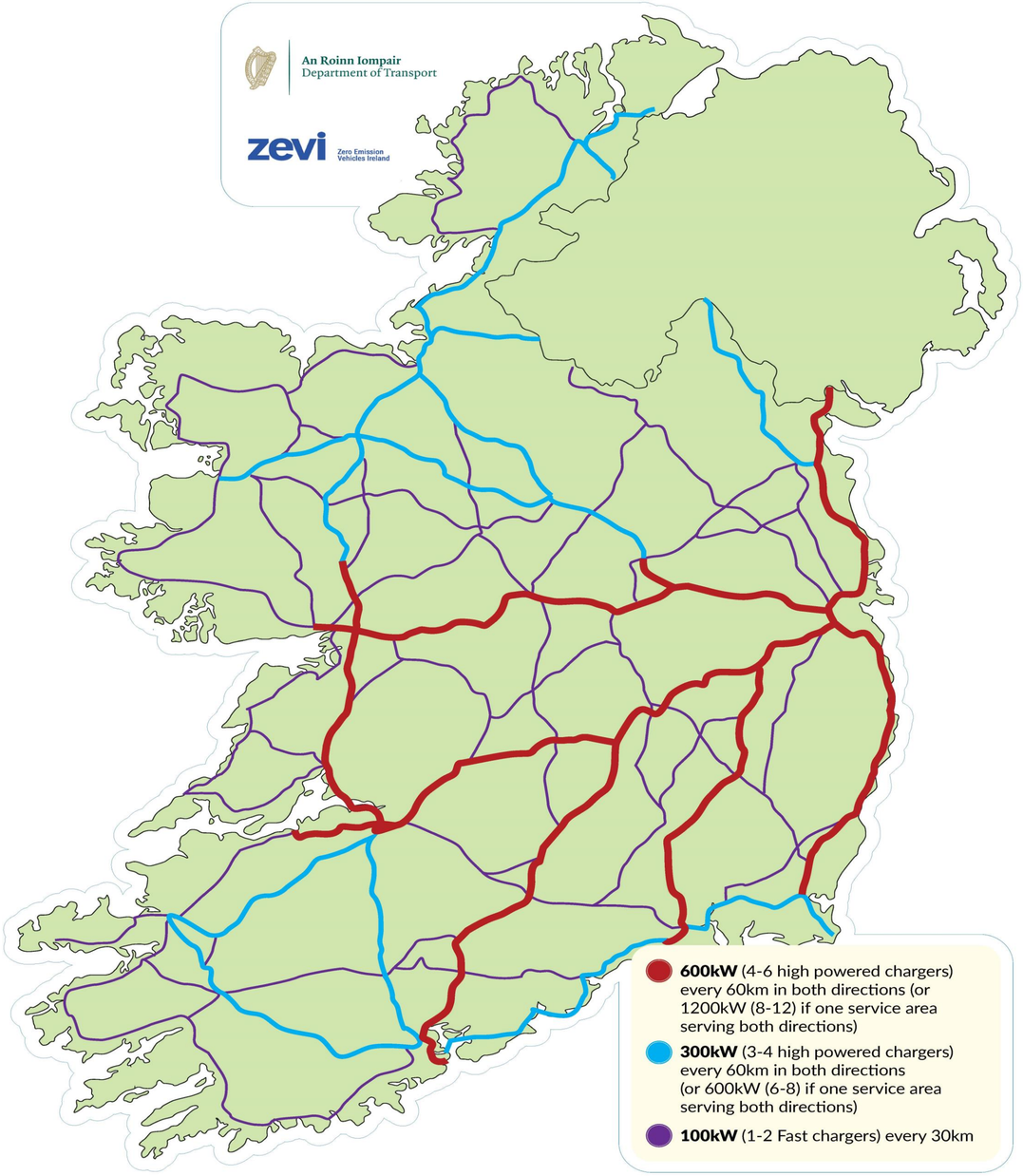
Developing a National EV Charging Network



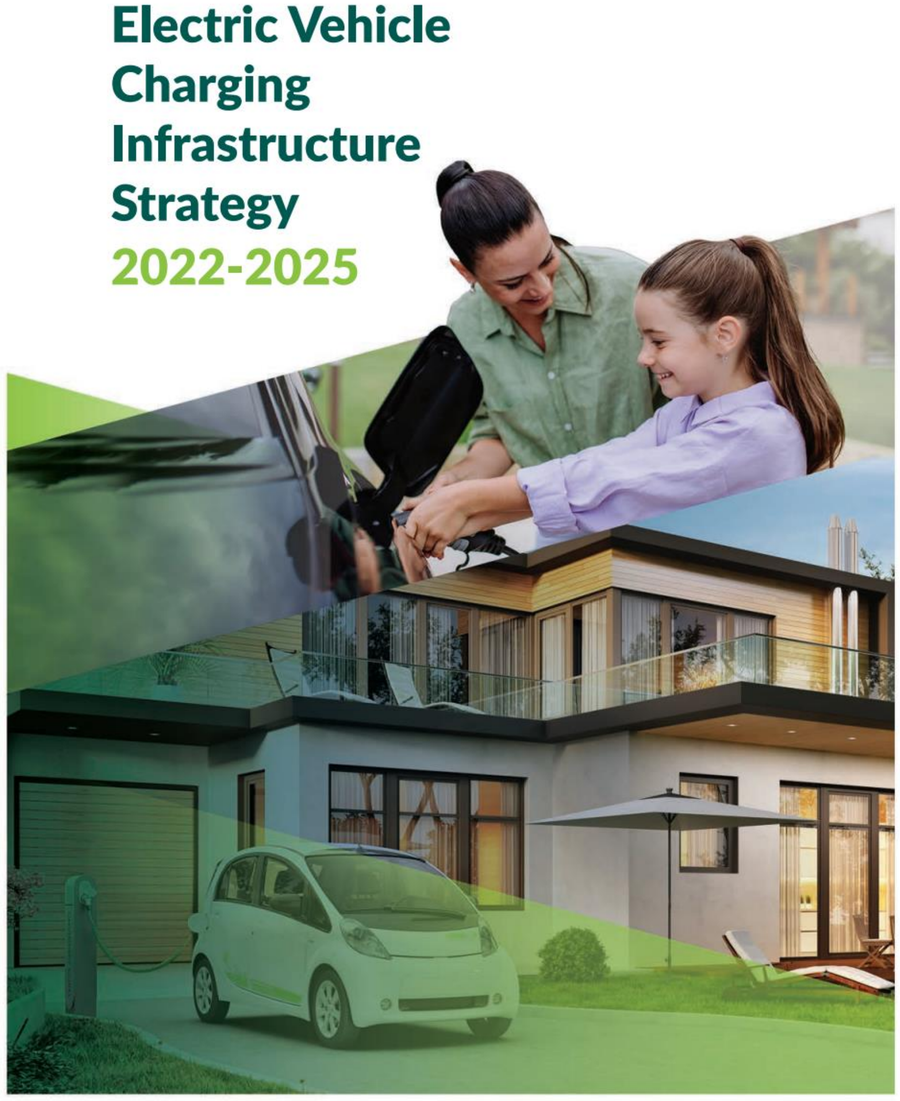
Rialtas na hÉireann
Government of Ireland

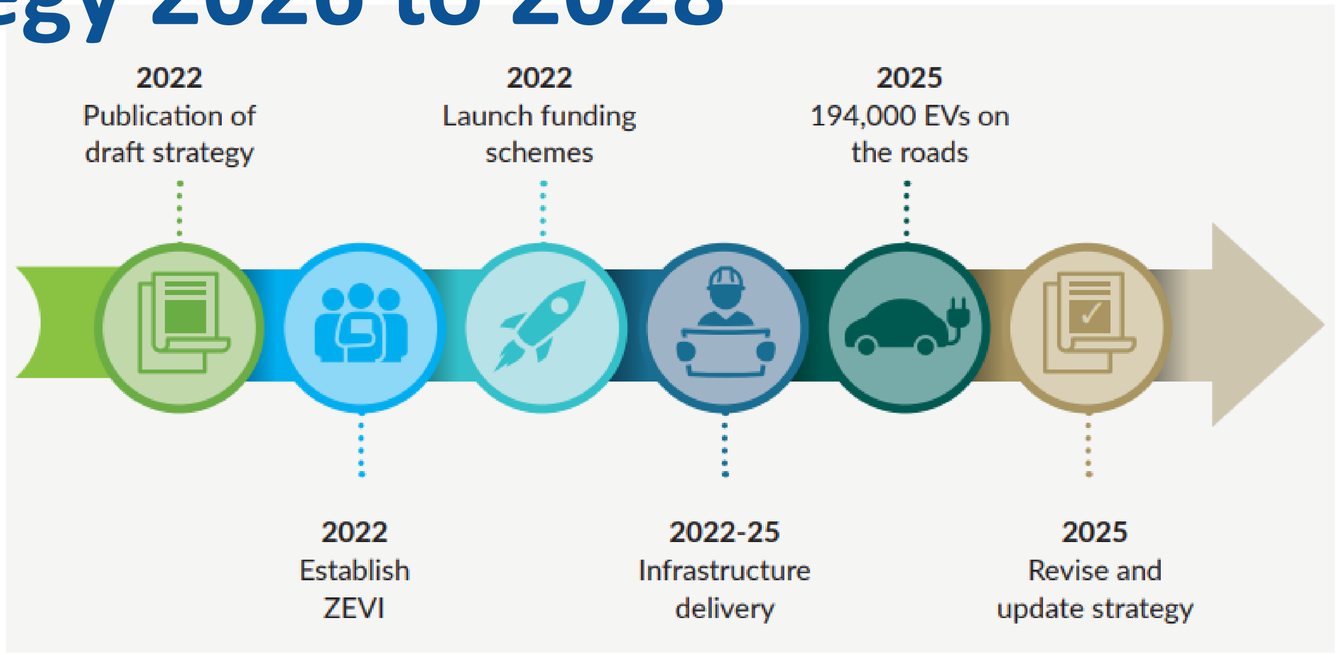
National Road Network EV Charging Plan- delivered by TII

Location	Legend	2025	2030
		Alternative 2 *Medium EV Charging Capacity Scenario*	Alternative 2 *Medium EV Charging Capacity Scenario*
Motorway/Dual Carriageway @ 60 km		2 x 600 kW	2 x 1,800 kW
TEN-T - Single Carriageway @ 60 km		2 x 300 kW	2 x 600 kW
Primary and Secondary Roads Non-TEN-T @ 30 km		100 kW	300 kW



EV Infrastructure Strategy 2026 to 2028





EV Infrastructure Strategy 2026 - 2028

- **Update on existing Strategy**
- **Focus on delivery of EV charging infrastructure**
- **Builds on progress made**
- **Customer & Stakeholder led**
- **Multiple opportunities to input**
- **Delivery end 2025**

Rialtas na hÉireann
Government of Ireland

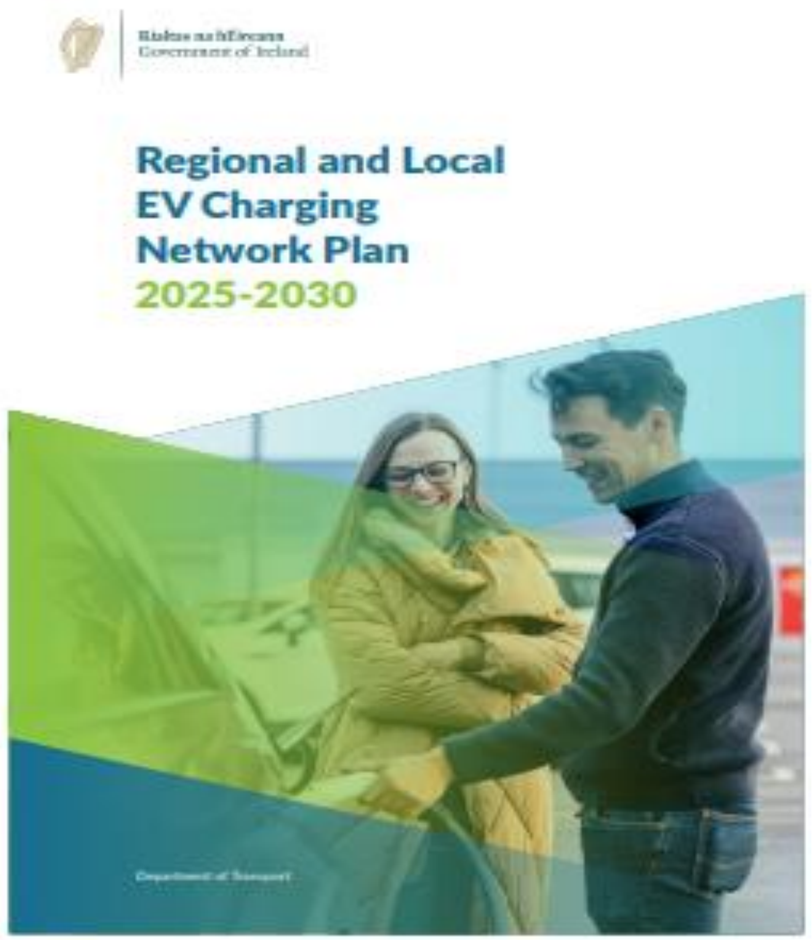
zevi

Zero Emission
Vehicles Ireland

Regional and Local EV Charging Network Plan 2025 to 2030

Michael McGrath- Senior Advisor ZEVI

Regional and Local EV Charging Network Plan- Delivered by LAs



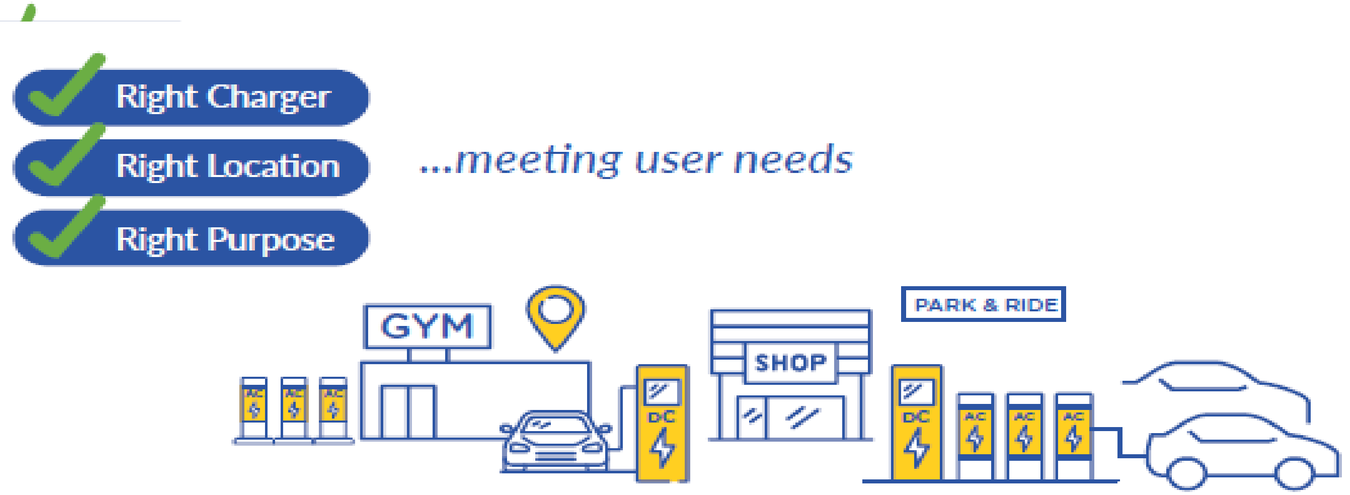
The objectives of this plan are to:

1) Support the delivery of well-defined local and regional plans for a resilient, self-sustaining, future-proofed network that minimises public funding supports and meets user needs.

2) In partnership with key stakeholders, support the coordinated and accelerated expansion of a destination and neighbourhood EV charging network that aligns with greater e-mobility policies.

3) Provide a pathway to deliver on national infrastructure targets in support of both AFIR requirements and Climate Action Plan objectives.

The accelerated expansion of public destination and neighbourhood charging infrastructure will be led by local authorities with the support and in partnership with other public sector bodies, private sector groups and other stakeholders.



Rialtas na hÉireann
Government of Ireland

zevi Zero Emission Vehicles Ireland

Local Infrastructure – Regions and AFIR Targets

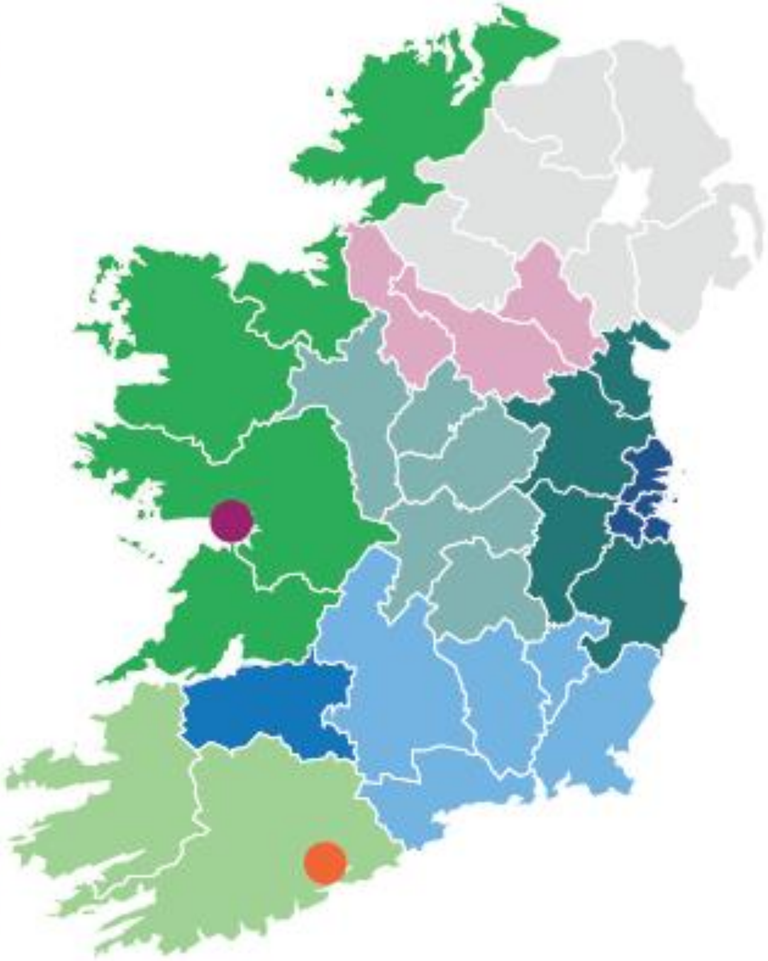
Region 7	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Donegal	5,724	18,716
Sligo	2,412	8,019
Galway County	6,437	21,465
Mayo	5,006	16,271
Clare	4,535	14,888
Total	**24,113**	**79,360**

City 1	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Galway City	2,797	9,327
Total	**2,797**	**9,327**

City 2	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Limerick City / County	6,780	22,276
Total	**6,780**	**22,276**

Region 6	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Cork County	12,454	40,955
Kerry	5,691	18,647
Total	**18,146**	**59,601**

City 3	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Cork City	8,083	26,581
Total	**8,083**	**26,581**



Region 1	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Cavan	2,840	9,239
Leitrim	1,283	4,166
Monaghan	2,299	7,428
Total	**6,422**	**20,833**

Region 2	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Offaly	2,794	9,094
Laois	2,755	9,048
Longford	1,457	4,736
Roscommon	2,449	7,616
Westmeath	3,378	11,247
Total	**12,833**	**41,741**

Region 3	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Fingal	9,146	31,186
DLR	7,042	24,014
South Dublin	8,704	29,681
Dublin City	17,403	59,345
Total	**42,296**	**144,226**

Region 4	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Kildare	8,422	28,268
Wicklow	5,268	17,680
Meath	7,306	24,476
Louth	4,203	13,755
Total	**25,199**	**84,179**

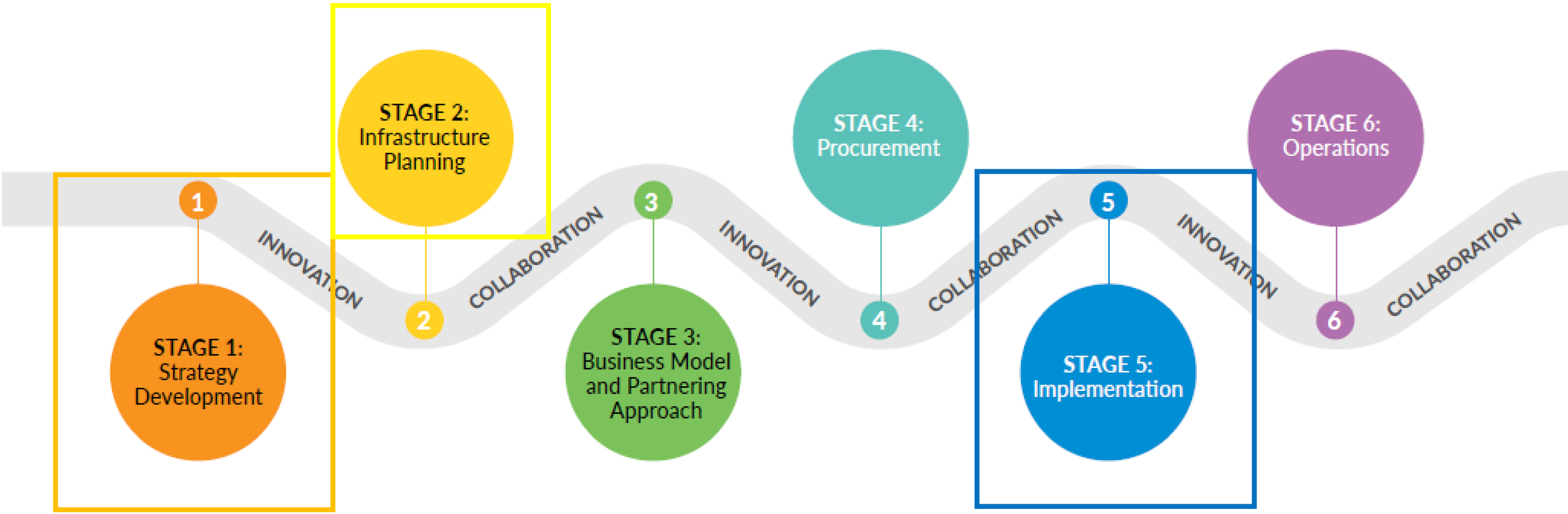
Region 5	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Tipperary	6,311	20,680
Kilkenny	3,552	11,658
Waterford	4,360	14,329
Wexford	6,069	19,929
Carlow	2,294	7,526
Total	**22,585**	**74,121**

Figure 2. *Summary of EV charging capacity requirements by 2025 and 2030 across the local authority areas.*

LA Supports

	Supports	Notes
	LA Staff & Financial Supports	• DOT/ZEVI will support the Capital costs associated with the installation of EV infrastructure subject to alignment with Strategy and RLP Principals and Objectives. • Partnering and business models shall Leverage Private Funding and Resources so that supports are filtered to where they are needed most • LA direct resourcing of 40 Staff for 5 years
	Technical Assistance and Expertise	• Provide Training to LA staff- currently developing training programme with Engineers Ireland which consists of 8 Modules for LA Staff. ZEVI fund training of 40 LA Staff • Support for LA staff through Workshops and Engagement throughout the project Lifecycle
	Clear and Transparent Standards and Guidelines	• ZEVI are developing Standards and guidelines to assist LAs to develop Strategies and Implementation plans. • ZEVI have developed Universal Design Guidelines and Procurement Guidelines for LAs to develop EV Strategies. • ZEVI are developing Site Selection Guidelines, Partnering and business models guidelines.

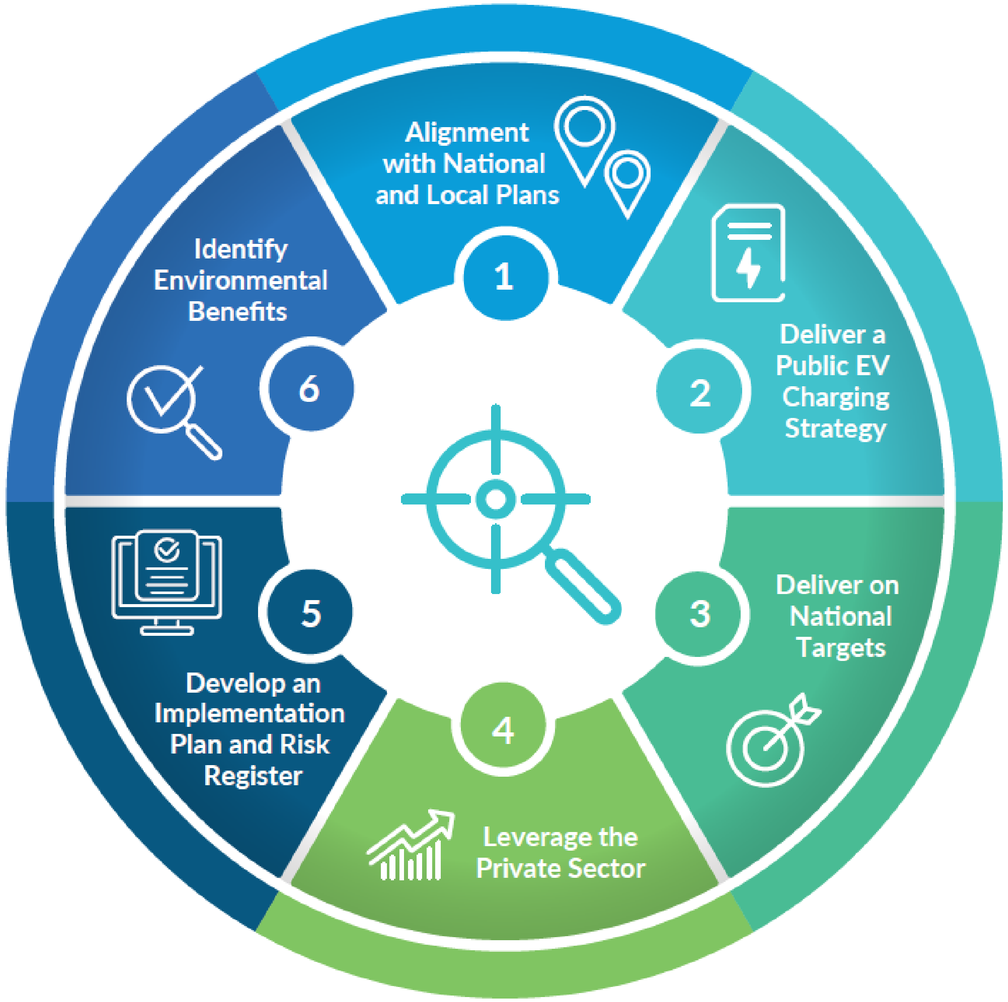
Project Lifecycle: Strategy to Operation



Rialtas na hÉireann
Government of Ireland

zevi Zero Emission Vehicles Ireland

LA Strategy Objectives and Outputs



Objective 2 and 3

- Output 1: Identify current EV charging locations
- Output 2: Demand-based modelling of EV charging infrastructure requirements based on four scenarios,
- Output 3: Identify priority areas most suited to neighbourhood charging
- Output 4: Identify areas for deployment for destination charging
- Output 5: Identify the areas that serve multiple user needs
- Output 6: Identify Gaps and demand in the network

Objective 4

- Output: Leverage Private Sector

Objective 5:

- High Level Implementation Planning

Progress

All strategies to be completed by year end

Rialtas na hÉireann
Government of Ireland

zevi

Zero Emission
Vehicles Ireland

Local Authority EV Pilot Projects - 2025

Rialtas na hÉireann
Government of Ireland

zevi Zero Emission Vehicles Ireland

LA EV Pilot Projects

- 28 Applications received
- Innovation – renewable, battery back up, behind the meter solutions
- Multiple User needs and flexible payments ie discounted off peak neighbourhood
- Agreement on 3rd party lands for chargers to meet user need
- Neighbourhood Pilot AC pilot in Town/village
- Seasonal Variance Destination Pilot
- Pilot that includes canopy/shelter for users

Rialtas na hÉireann
Government of Ireland

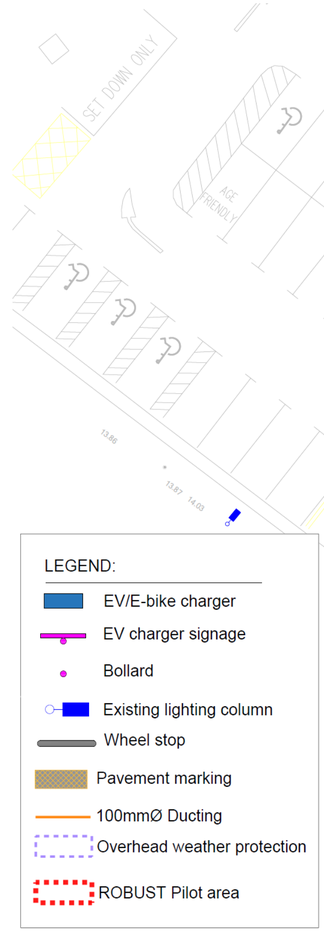
zevi Zero Emission Vehicles Ireland

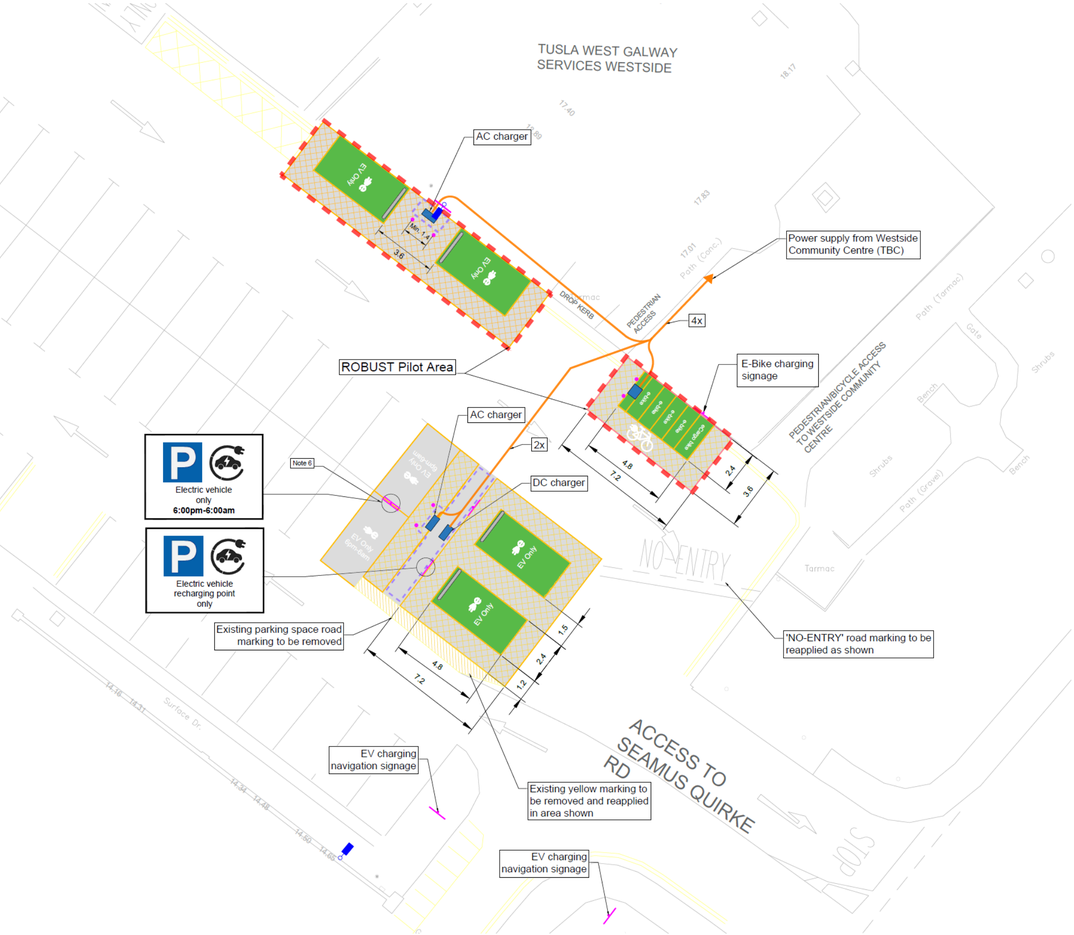
Galway City County Council

Solar PV

Battery Backup

ROBUST

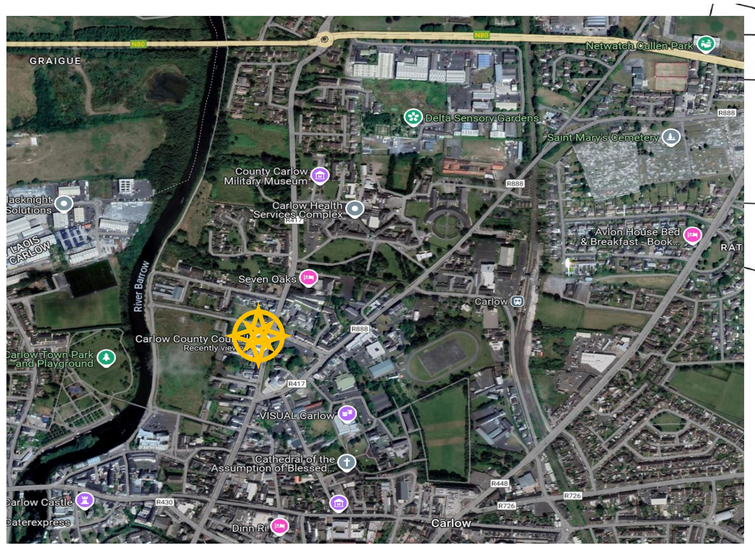




Rialtas na hÉireann
Government of Ireland

zevi Zero Emission Vehicles Ireland

Carlow County Council



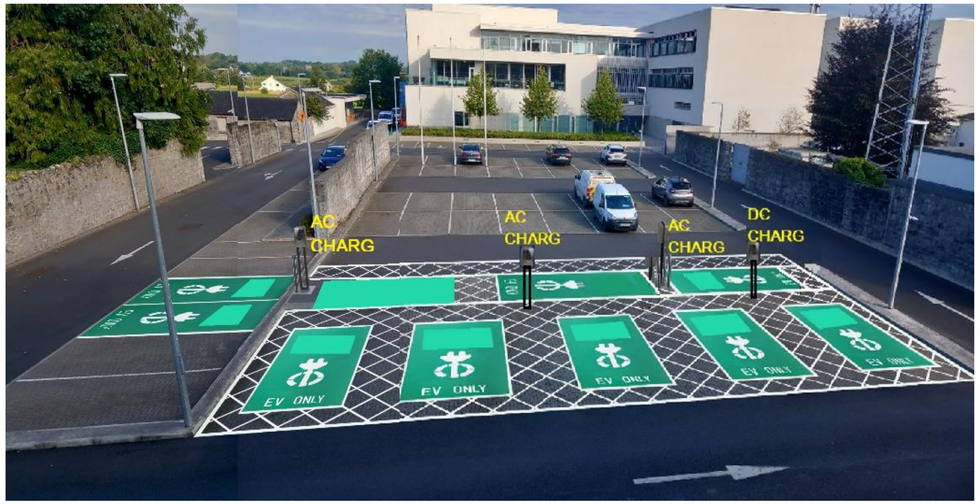
Multiple User Needs

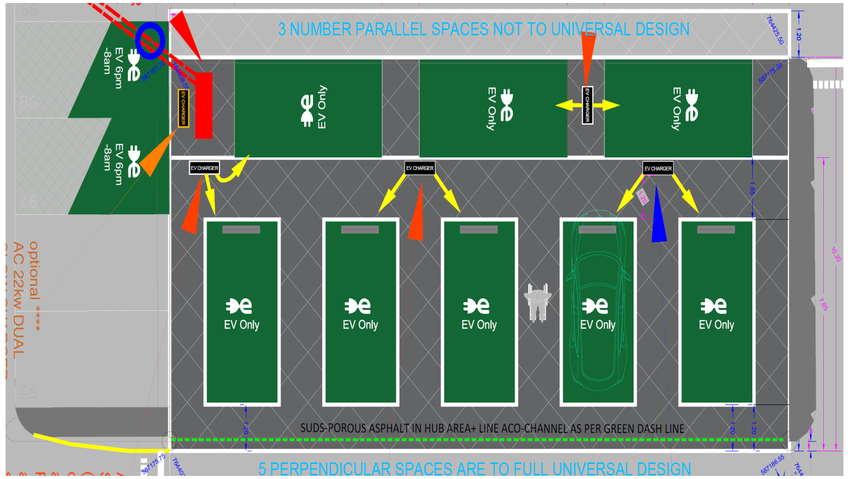
- Workplace
- Destination
- Enroute
- Nighttime Neighbourhood Charging for Residents with no off-street parking

Rialtas na hÉireann
Government of Ireland

zevi Zero Emission Vehicles Ireland

Roscommon County Council





Multiple User Needs

- Workplace
- Destination
- Enroute
- Nighttime Neighbourhood Charging for Residents with no off-street parking

Rialtas na hÉireann
Government of Ireland

zevi

Zero Emission
Vehicles Ireland

Thank you.