Town Bypasses

TII National Conference 2022



Evolving Policy

Worldwide Policy Change

• Change is constant

Climate Change

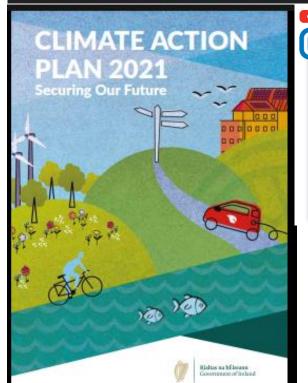
Compact Growth

Circular Economy

Transport?







·· RPO **176**

10-minute" city and town concepts

It is an objective to attain sustainable compact settlements with the "10-minute" city and town concepts, whereby, a range of community facilities and services are accessible in short walking and cycle timeframes from homes or are accessible by high quality public transport services by connecting people to larger scaled settlements delivering these services. Local authorities should ensure that decision making in relation to new infrastructure for improved connectivity is informed by an appropriate level of environmental assessment.



Project Ireland 2040

National Planning Framework





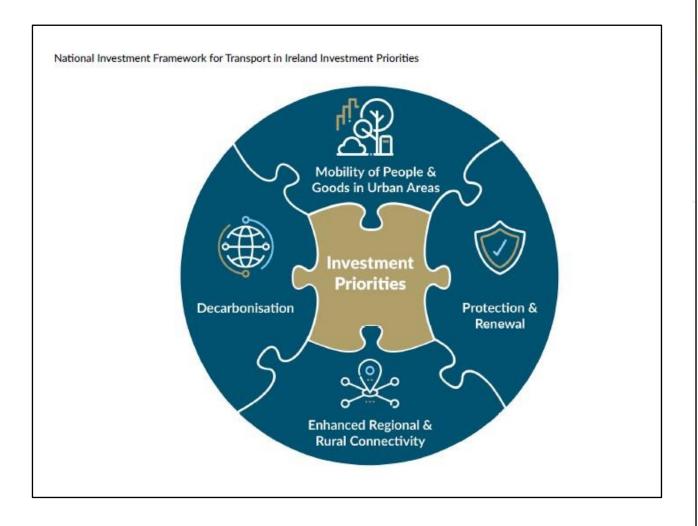
Project Ireland 2040

National Development Plan 2018–2027



Transport?

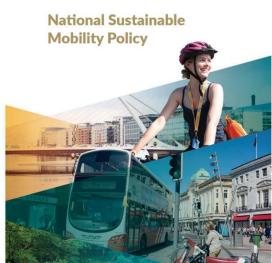
Adapt to Change











Rialtas na hÉireann Government of Ireland



Our Rural Future

Rural Development Policy 2021-2025



Town Centre First

Rialtas na hÉireann Government of Ireland

A Policy Approach for Irish Towns



Transport

Changed Approach

Move away from the preconceived solution focus

Identify the problem

Understand the setting and evolution of the project

Set the Project Objectives

This approach gives a different answer to the exam question!



Transport

Changed Outcome

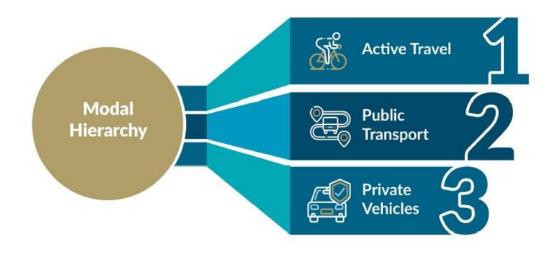
No longer only about adding vehicular capacity

Manage the demand for the trip in the first place

Cater for the demand with the appropriate mode

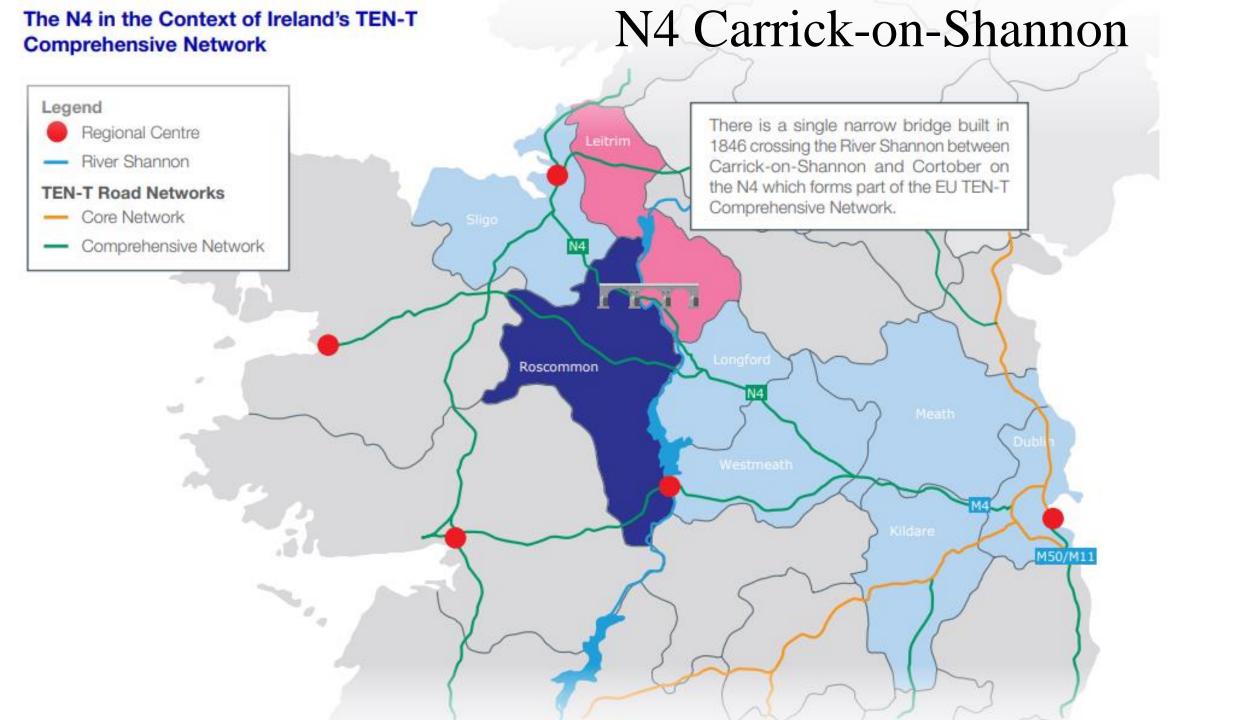
Effective modal interchange with better integration between land use and transport planning

A sustainable project which can be delivered in line with need which makes it affordable



National Investment Framework for Transport in Ireland Intervention Hierarchy

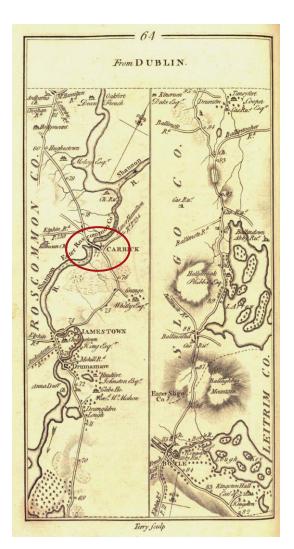




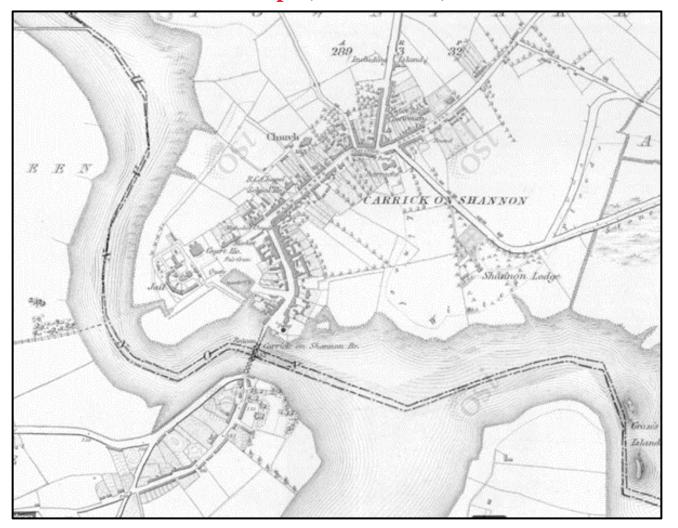


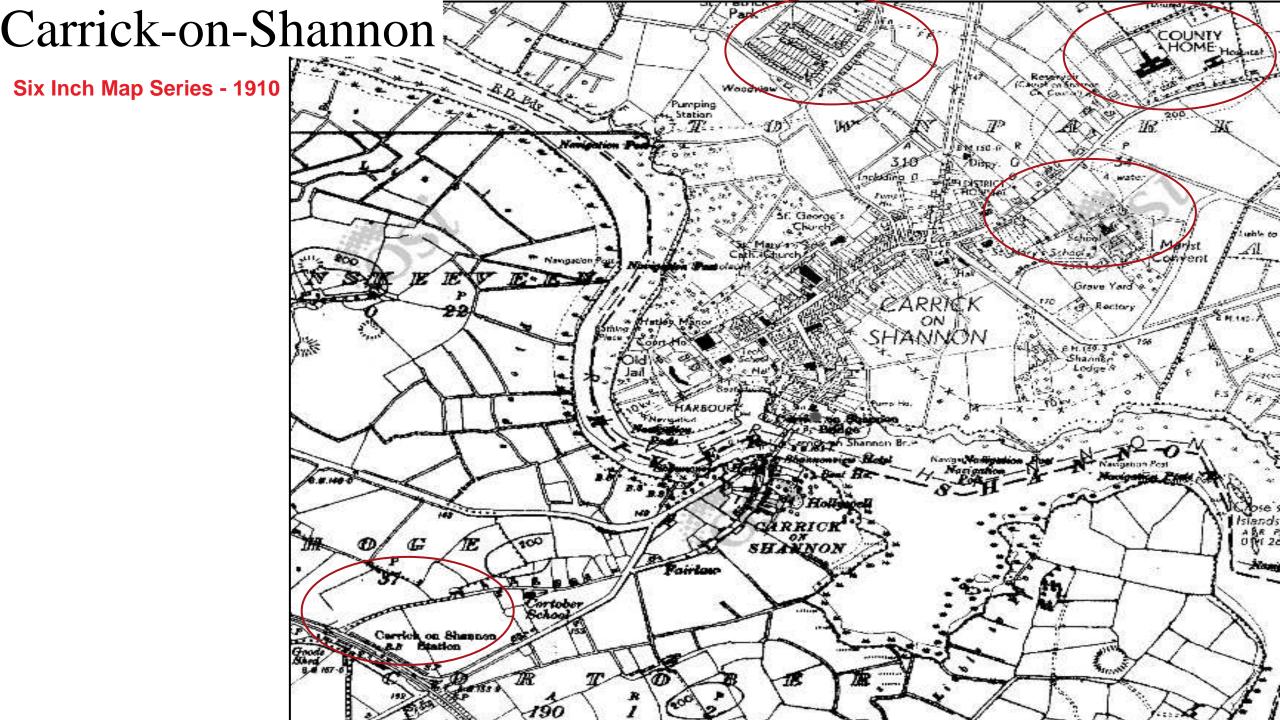


Maps of The Roads of Ireland, 1777



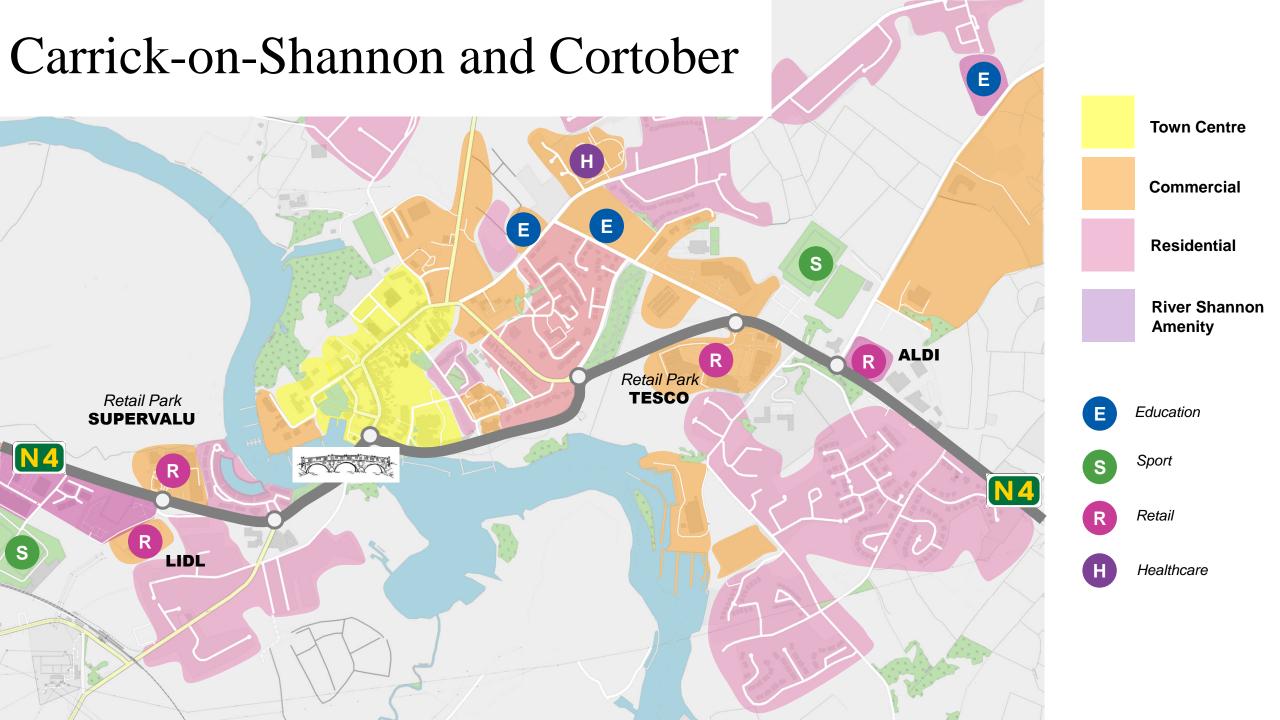
First Edition Six Inch Maps (1829 to 1842)

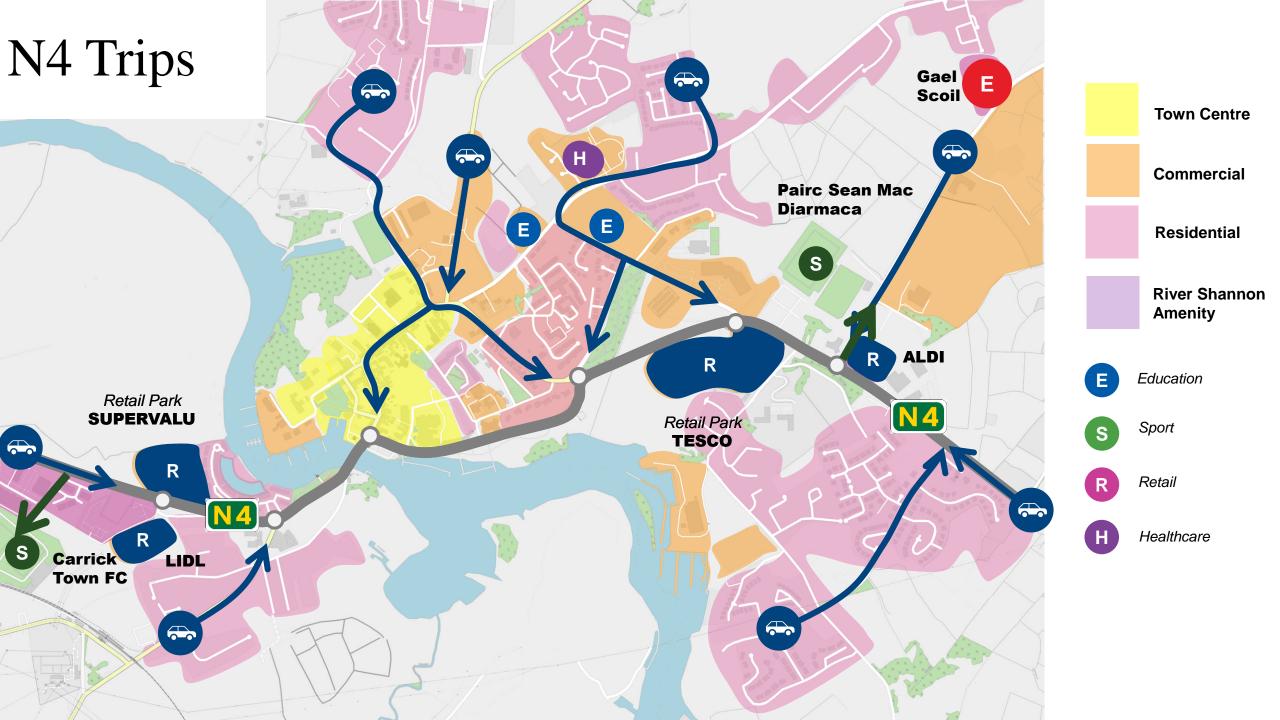












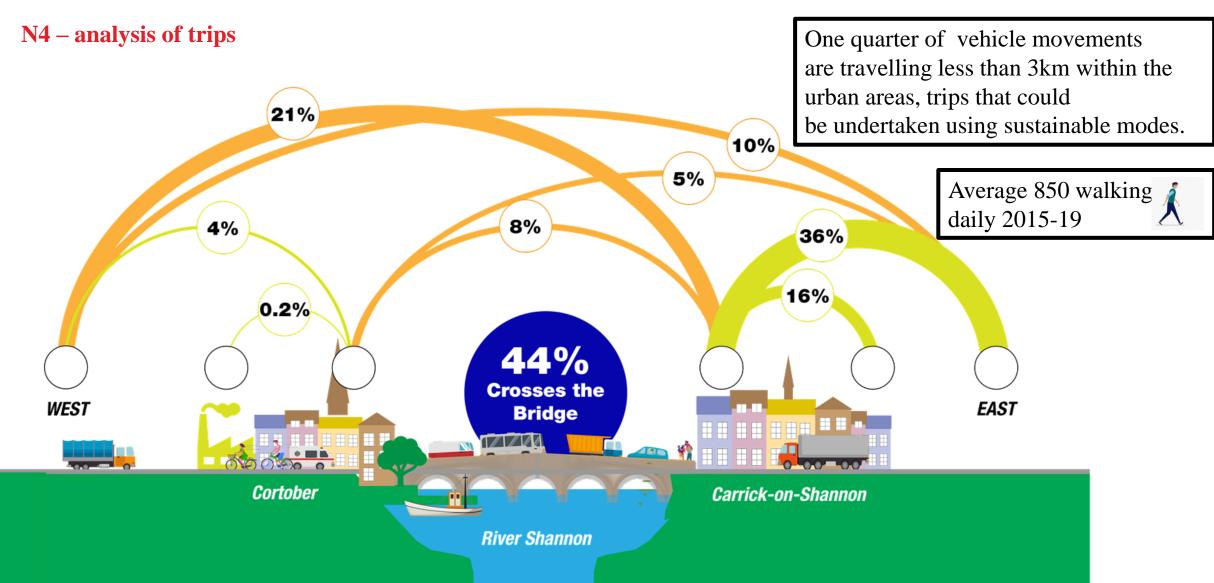
N4 – local or strategic?

By passage Johnneys It is useful to break the traffic into three different components. Sligo Dublin Arriving / Departing Each component requires analysis

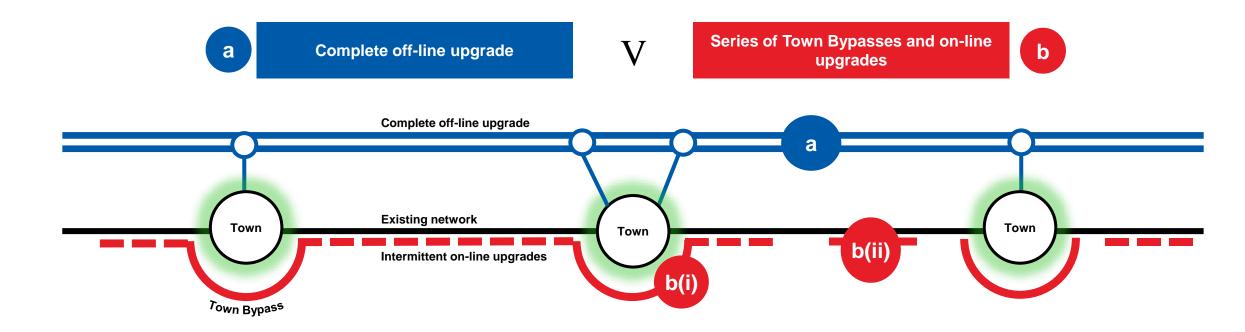
Volume and Capacity

Trip identification

- Traffic volume alone should not determine capacity and dictate a crosssection
- Reduce size: When planning an alteration to the network think about what can be done to reduce the volume so that the capacity can be brought down to fit a reduced cross-section
- Reduce Distance: Can the individual components of predicted demand be catered for separately? Shorter journeys are more likely to be active



N4 – Approach to Route Upgrade



An economic assessment of a v b shows overall costs and benefits are similar

However an economic assessment of **b(i)** now and **b(ii)** later can give much greater benefits as delays are in villages and towns

The issue that then must be addressed is taking care of the route consistency and safety issues

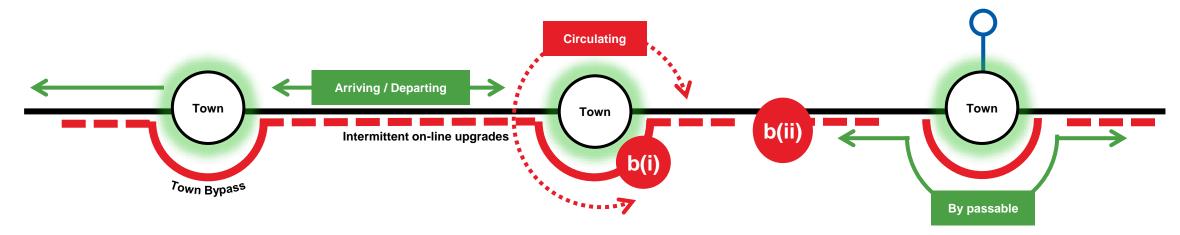
b is much more likely to be a single carriageway

N4 – Town Bypass and On-line Upgrade

- Forces you to think about keeping volume lower
- Reduces increase in road capacity
- Reduces time savings

Series of Town Bypasses and on-line upgrades

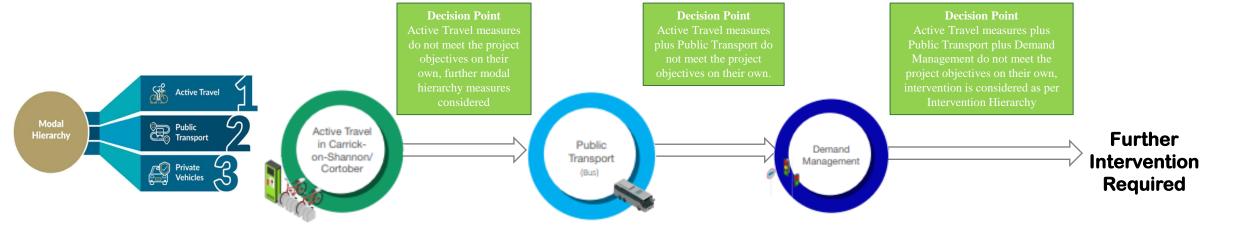
b

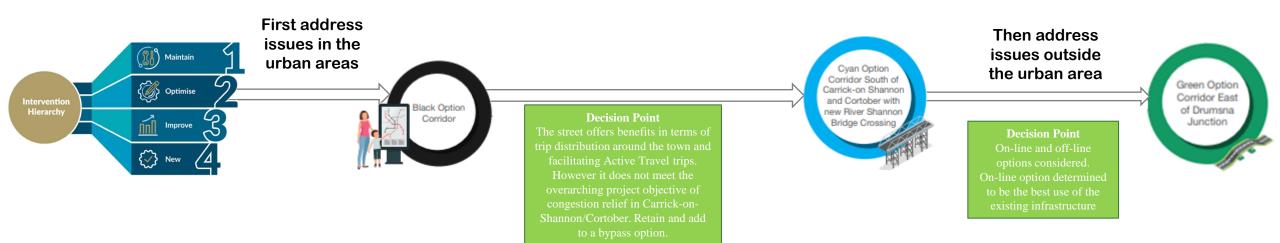


This approach forces you to think about other solutions

- Internal roads to remove circulating traffic
- Mode shift
- Better land use planning

N4 – Town Bypass and On-line Upgrade



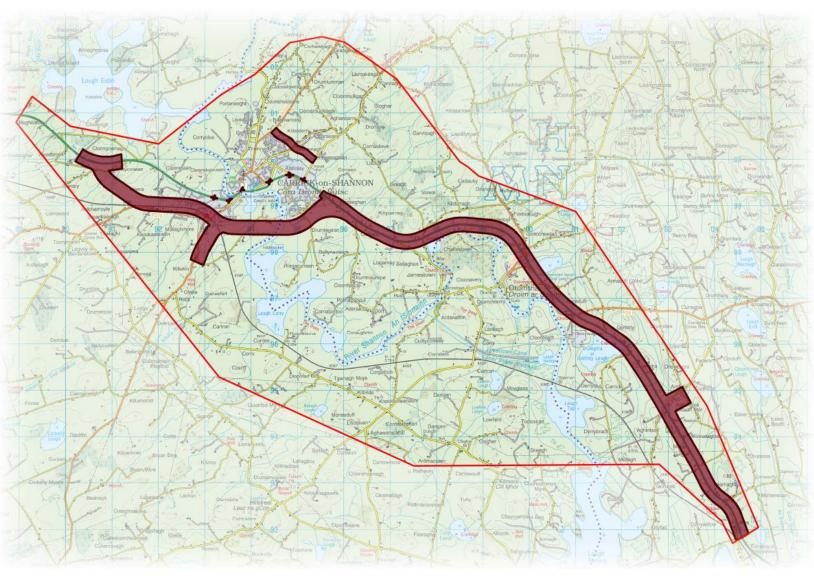


Preferred Transport Solution

• Project website

https://carrickdromod.ie/





ARUP