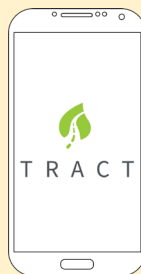


1

Expected Outcomes

- Collect **one of the largest datasets on EV** usage potential in Ireland
- Highlight the importance of **interdisciplinary and holistic approach** for emission mitigation and decarbonisation of transportation sector



- Provide evidence from **five use-cases** where the EV uptake has been slow



- Estimate **emissions savings** and determine its **potential national impact** through scenario analysis.

2

Informing Policy Making

- Emphasise **piloting** and use of **tech tools** for spreading mass **awareness**
- Understand **perceived barriers** beyond those related to financial towards EV adoption and **motivations** thereof to tackle them
- Analyse **second-hand EV market** that has little to no evidence
- Formulate **tailored** as well as **integrated policy instruments** specially focussing on population/sectors with slow EV uptake
- Suggest **policy frameworks** required to maximize the estimated impacts towards achieving 2030 and 2050 emission reduction and **climate change targets**

3

Future Research on Energy Security

Vision: Optimise EV adoption through evidence-based solutions, policies, and sustainable infrastructure, emphasising reliability and environmental impact across the lifecycle.

Future research recommendations:

- Understand and stimulate EV uptake in **Commercial sector**
- Test policies that encourage **intermodal solutions** by integrating EVs with public transit, shared mobility services, cycling, and walking
- Conduct pilots to capture public response towards **smart charging** and **advanced EV infrastructure**
- Push uptake of **sustainable energy** and determine potential of upscaling it