



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

ANNUAL REPORT

2022 - 2023

**TRINITY CENTRE FOR
TRANSPORT RESEARCH AND
INNOVATION FOR PEOPLE
(TRIP)**



2022 - 2023 HIGHLIGHTS

Events

Cycling and Society Symposium – Sept 2023

<https://www.transdev.com/en/mobility-sphere-conference-in-amsterdam/>

Media

https://www.tcd.ie/news_events/articles/2023/survey-finds-fewer-students-are-walking-and-cycling/

https://www.tcd.ie/news_events/articles/2023/researchers-join-national-challenge-fund-to-help-ireland-prepare-for-green-transition-and-digital-transformation/

https://www.tcd.ie/news_events/articles/2023/hubs-offering-electric-cars-e-bikes-and-e-cargo-bikes-to-test-potential-of-shared-e-mobility-to-decarbonise-transport/

https://www.tcd.ie/news_events/articles/2023/reframing-active-travel-planning-is-key-to-creating-more-cycling-and-walking-friendly-towns-and-cities/

https://www.tcd.ie/news_events/articles/trinity-joins-eit-urban-mobility-to-create-liveable-urban-spaces/

https://www.tcd.ie/news_events/articles/trinity-partners-with-esb-in-new-pilot-e-bike-project-in-dublin-suburbs-/

https://www.tcd.ie/news_events/articles/government-funding-of-over-1-million-will-support-renewable-energy-and-decarbonising-transport-research/

https://www.tcd.ie/news_events/articles/changing-gears-children-to-design-bicycle-routes-from-schools-to-trinity/



2022 - 2023 HIGHLIGHTS

New Funding 2022 – 23

| Title | Dates | Funder | Amount |
|--|-----------|------------------------------|------------|
| NexSys | 2022-26 | SFI | €350,000 |
| TRACT: TRANsport Behaviour Change Trials | 2022-26 | SEAI/Dept of Transport | €611,000 |
| Electric shaRed mOBility hUbS Trial (ROBUST) | 2023-27 | SEAI/Dept of Transport | €1,349,984 |
| E-cargo bikes – Fellowship | 2023-2025 | SEAI | €160,000 |
| CONUNDRUM | 2023-2024 | SFI | €246,555 |
| PowerDrive | 2022-2025 | Horizon Europe | €340,000 |



2022 - 2023 HIGHLIGHTS

Journal Papers

1. Oeschger, J., Carroll, P. Caulfield, B. First- and last-mile connections to public transport in Dublin: analysis of pre-covid19 mobility patterns and user experiences, *Transportation Research Procedia*, 2023, Vol 72, pp 916-918
2. Oeschger, J., Caulfield, B., Carroll, P. Investigating the role of micro-mobility for first- and last-mile connections to public transport, *Journal of Cycling and Micromobility Research*, 2023, 100001
3. Gildea, K., Hall, D., Mercadal-Baudart, C., Caulfield, B., Simms, C. Computer vision-based assessment of cyclist-tram track interactions for predictive modelling of crossing success, *Journal of Safety Research*, 2023
4. Hosseini, K., Stefaniec, A., O'Mahony, M., Caulfield, B. Optimising shared electric mobility hubs: Insights from performance analysis and factors influencing riding demand, *Case Studies on Transport Policy*, 2023, Vol 13, 101052
5. Brown, A., Hampton, H., Foley, A., Furszyfer Del Rio, D., Lowans, C., Caulfield, B. Understanding Domestic Consumer Attitude and Behaviour Towards Energy: A Study on the Island of Ireland, *Energy Policy*, 2023, Vol 181, 113693
6. Charly, A., Thomas, N., Foley, A., Caulfield, B. Identifying optimal locations for community electric vehicle charging points using multi-criteria analysis, *Sustainable Cities & Society*, 2023, Vol 94, 104573
7. Malik, F., Egan, R., Dowling, C., Caulfield, B. Factors influencing e-cargo bike mode choice for small businesses, *Renewable and Sustainable Energy Reviews*, 2023, Vol 178, 113253
8. Egan, R., Dowling, C., Caulfield, B. Exploring the Elements of Effective Cycle Parking: A Literature Review, *Journal of Urban Mobility*, 2023, Vol 3, 100046
9. Ó Domhnaill, A., Broderick, B., O'Mahony, M., Integrated transportation and land use regression modelling for nitrogen dioxide mitigation, *Transportation Research Part D: Transport and Environment*, 115, 103572, 2023
10. Kinsella, L., Stefaniec, A., Foley, A., Caulfield, B. Pathways to decarbonising the transport sector: The impacts of electrifying taxi fleets, *Renewable and Sustainable Energy Reviews*, 2023, Vol 174, 113160



2022 - 2023 HIGHLIGHTS

Journal Papers

11. Lowans, C., Foley, A., Furszyfer Del Rio, D., Caulfield, B., Sovocool, B., Griffiths, S., Rooney, D. What causes energy and transport poverty in Ireland? Analysing demographic, economic, and social dynamics and policy implications, *Energy Policy*, 2023, Vol 172, 113313
12. Caulfield, B., Charly, A. Examining the potential benefits of remote working hubs, *Transport Policy*, 2022, 127, pp139-147
13. Egan, R., Dowling, C., Caulfield, B. Planning by Cycle Parking Type: A Cycle Parking Preference Typology for Cyclists, *Case Studies on Transport Policy*, 2022, 10, pp1930-1944
14. Stefaniec, A., Brazil, B., Whitney, W., Caulfield, B. Desire to work from home: Results of an Irish study, *Journal of Transport Geography*, 2022, 104, 103416
15. Nelson, J., D., Caulfield, B. Implications of COVID-19 for future travel behaviour in the rural periphery, *European Transport Research Review*, 2022, pp1-11
16. Hampton, H., Foley, A., Del Rio, D., Smyth, B., Lavery, D., Caulfield, B. Customer engagement strategies in retail electricity markets: A comprehensive and comparative review, *Energy Research and Social Science*, 2022, 90, 102611
17. Caulfield, B., Furszyfer, D., Stefaniec, A., Foley, A. Measuring the equity impacts of government subsidies for electric vehicles. *Energy*, 2022, 248, 123588
18. Benevenuto, R., Caulfield, B. Examining the socioeconomic outcomes of transport interventions in the Global South. *Transport Policy*, 2022, 119, pp 56-66
19. Manzira, C., Charly, A., Caulfield, B. Assessing the impact of mobility on the incidence of COVID-19 in Dublin City. *Sustainable Cities & Society*, 2022, 80, 103770



THANK YOU

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