CERIS : Civil Engineering Research and Innovation for Sustainability

PCT-Portugal

Summary

The Propensity to Cycle Tool (PCT) Portugal is a research project that aims to develop a national evidence-base and transport planning online tool to prioritize investments in active transport.

Planning of the infrastructure needed to change mobility patterns requires high-quality evidence.

Data and models are needed to ensure cost-effective investment, enabling new infrastructure to be planned where it is most needed. In the case of cycling, the transport mode that has the greatest potential to replace unnecessary and unhealthy short car trips into urban centres, this means designing efficient cycleways and safe street connections. The PCT aggregates official information and models bike usage scenarios, to inform decision-makers of which infrastructures have the greatest potential impact in changing behavior and assist planners to meet sustainability commitments.

The project will extend methods developed in the UK for active transport planning and apply them to Portuguese cities, to support central and local government investment in cost-effective infrastructure. The Propensity to Cycle Tool (PCT) is a research project and transport planning tool that was funded by the UK Department for Transport (DfT). Since its inception in 2015, the tool has been used by 50+ Local Authorities and has informed £500m+ of investment.

This project will boost the research network and bilateral collaboration between the U-Shift lab of CERIS (Civil Engineering Research and Innovation for Sustainability) of Instituto Superior Técnico and the ITS (Institute for Transport Studies) of University of Leeds, gathering Rosa Félix, Robin Lovelace, and Filipe Moura.

In September 2020 we organized a Cycling Potential Hackathon on reproducible methods for estimating cycling potential, based on a case study of Lisbon, with about 30 participants from different countries.

Figure 1. PCP-Portugal project.

Project Reference

PARSUK2020

Leading Institution

CERIS – Civil Engineering Research and Innovation for Sustainability (Portugal)

Partners

ITS – Institute for Transport Studies University of Leeds (United Kingdom)

CERIS Principal Investigator

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CERIS Research Team

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Funding

PARSUK – Association of Portuguese Researchers and Students in the UK (Portugal-UK Bilateral Research Fund)

Period

2020

Total

3 000.00€

CERIS

1 500.00€

Project Website

ushift.tecnico.ulisboa.pt/pct-portugal