As part of the Institute for Transport Studies (ITS) Research Seminar programme you are most welcome to attend the following presentation:

**Modelling the uptake of active travel: from infrastructure to behaviour change**

Presented by [Dr Robin Lovelace](http://www.its.leeds.ac.uk/people/r.lovelace) & [Dr Malcolm Morgan](http://www.its.leeds.ac.uk/people/m.morgan), University of Leeds

**Date:** Wednesday 29th November 2017

**Time:** 14.00-15.00

**Location:** rm1.11 [Institute for Transport Studies](http://www.its.leeds.ac.uk/map/), University of Leeds

**Abstract**

This talk will provide an overview of the work that Robin Lovelace and Malcolm Morgan (ITS) have been doing as part of their Department for Transport funded projects on the Propensity to Cycle Tool (PCT, which has become part of UK government policy in the [Cycling and Walking Infrastructure Strategy](https://www.gov.uk/government/publications/cycling-and-walking-investment-strategy)) and follow-on work on the Cycling Infrastructure Prioritisation Toolkit (CyIPT). Although strong evidence shows that infrastructure usually precedes (and to some extent causes) behaviour change the starting point of the talk will be behaviour: how do people currently get around and how could it be different, based on the fundamentals of route distance and hilliness. Robin will demonstrate the PCT in action, talk about the R package **stplanr** that he developed to develop it, and outline plans for a globally scalable transport planning toolkit that builds on the PCT work.

Following this high-level overview Malcolm will zoom into the detail: How the CyIPT identifies the best places for infrastructure change and what that infrastructure should be. He will also talk about the advanced programming techniques needed to process such complex geospatial network data at city to national levels.

There is a clear linkage between the behaviour and infrastructure focci of Robin and Malcolm’s talks that will become apparent as the seminar progresses.

Links to check before the talk:

* The PCT in action: <http://www.pct.bike/>
* A prototype of the CyIPT: <http://cyipt.bike/>
* A paper on the PCT (Lovelace et al 2017): <https://www.jtlu.org/index.php/jtlu/article/view/862>
* An article explaining **stplanr** (for people interested in the tech): <https://cran.r-project.org/web/packages/stplanr/vignettes/introducing-stplanr.html>

No booking required. All welcome.

For further information about the ITS Seminar Series please see: [www.its.leeds.ac.uk/about/events/seminar-series/](http://www.its.leeds.ac.uk/about/events/seminar-series/)