



EMPOWER
Rewarding Change

Exploring Track 'n Trace Data

An overview of analysis possibilities

Based on SMART Data

Enschede Living Lab May/June 2017

TNO

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EMPOWER

Rewarding Change

Introduction

The EMPOWER project operated a Living Lab in Enschede, the Netherlands. In the Living Lab, the mobile app SMART was used to track participants movements in an unobtrusive, continuous manner. Using this 24/7 trip registration, a lot of data has been collected.

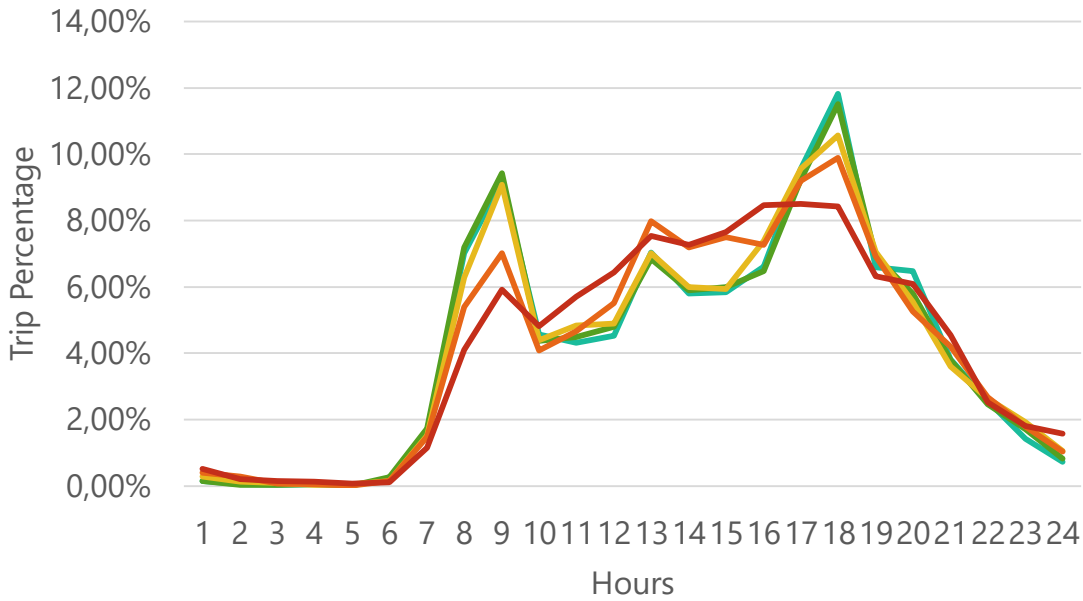
This document provides an overview of some of the possibilities in analysis of this data. All data collected during May and June 2017 is used for this analysis. The aim is to show the possibilities one has with these kinds of data, rather than providing any scientific results.

This means all basic, automated data smoothing has been applied, but no further analysis on the correctness of the data has been applied. All shown characteristics are automatically collected, without any registration to be carried out by the participants.

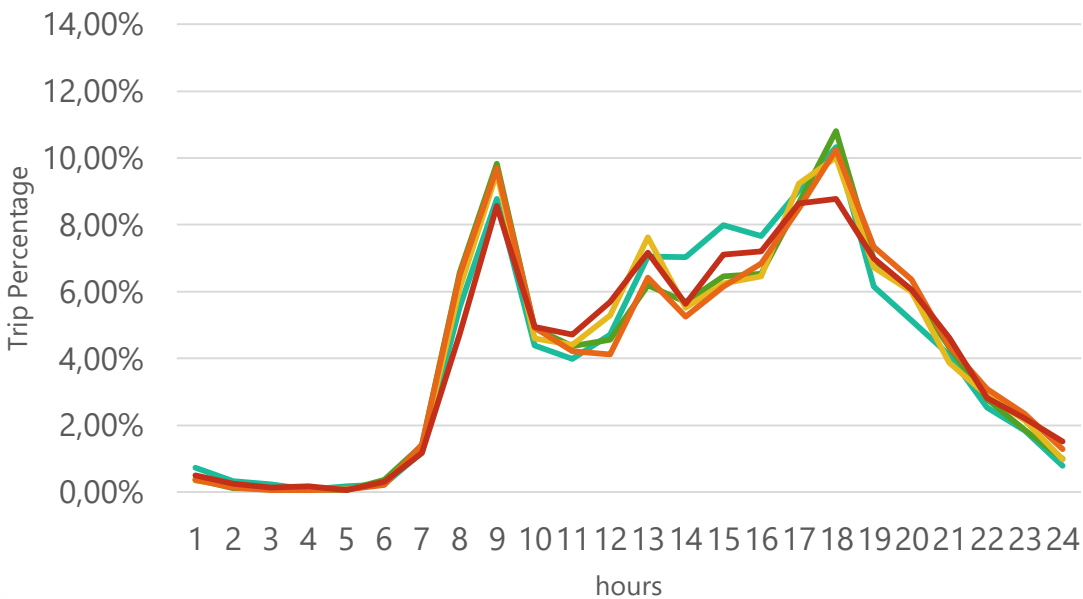
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Trip distribution over the day



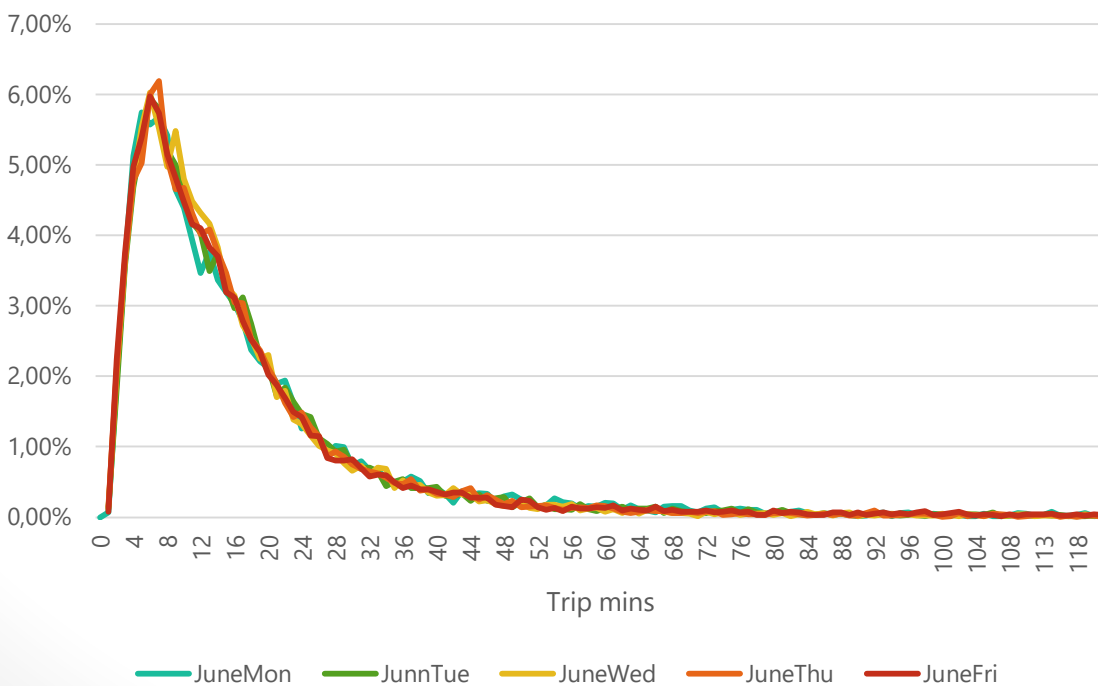
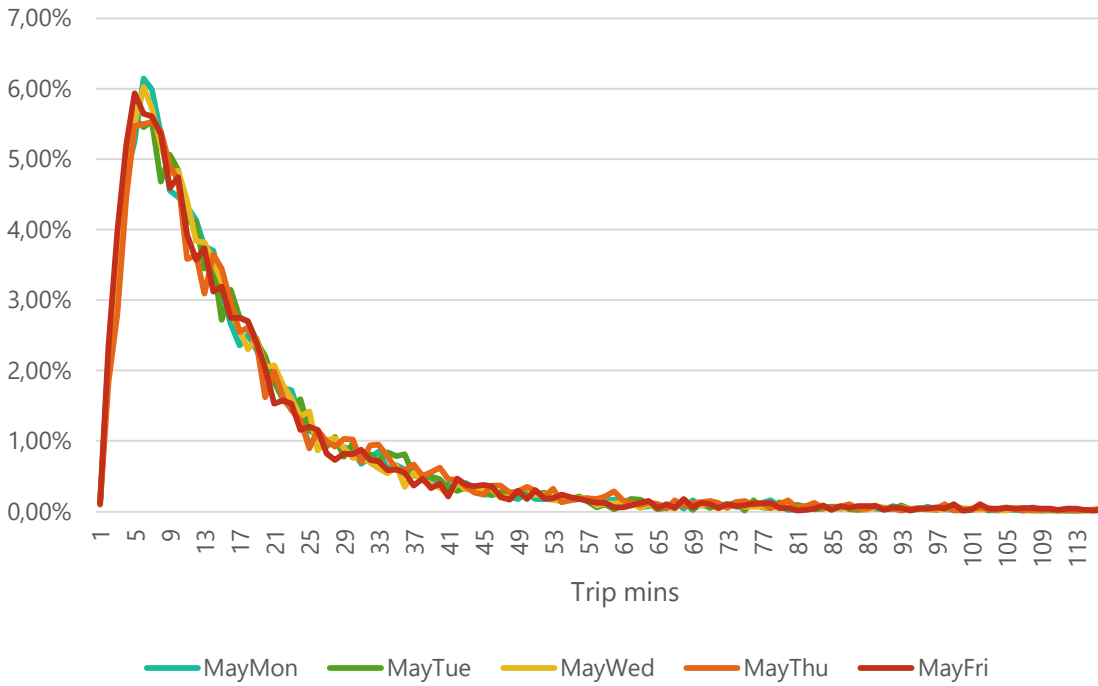
— MayMon — MayTue — MayWed — MayThu — MayFri



— JuneMon — JuneTue — JuneWed — JunThu — JuneFri

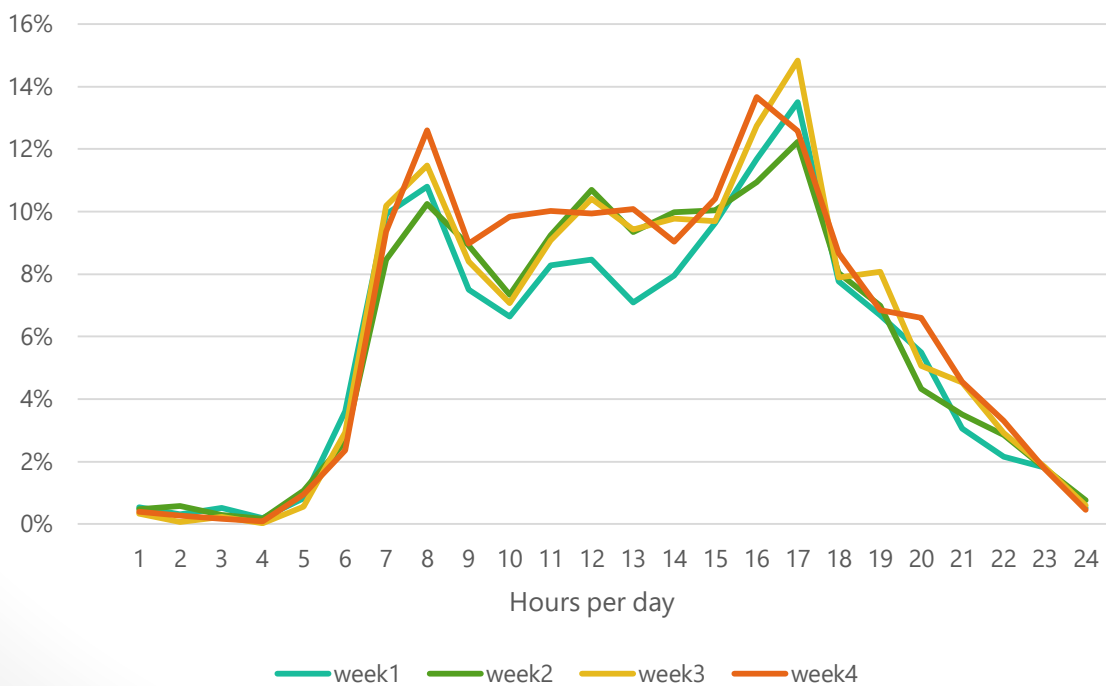
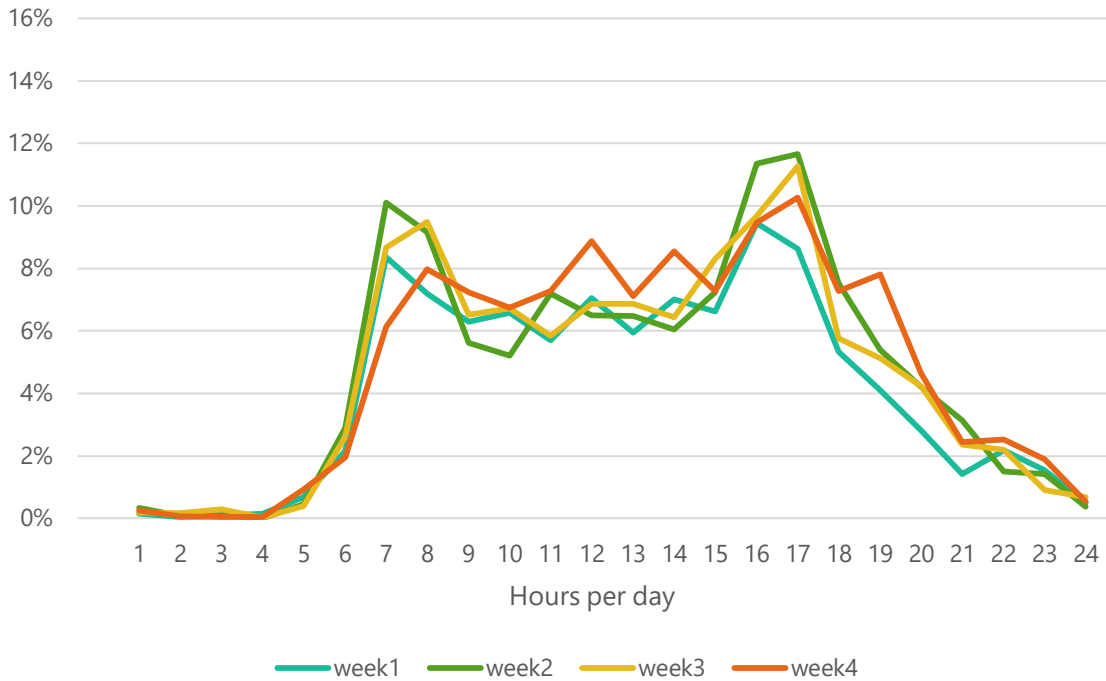


Distribution of trip duration





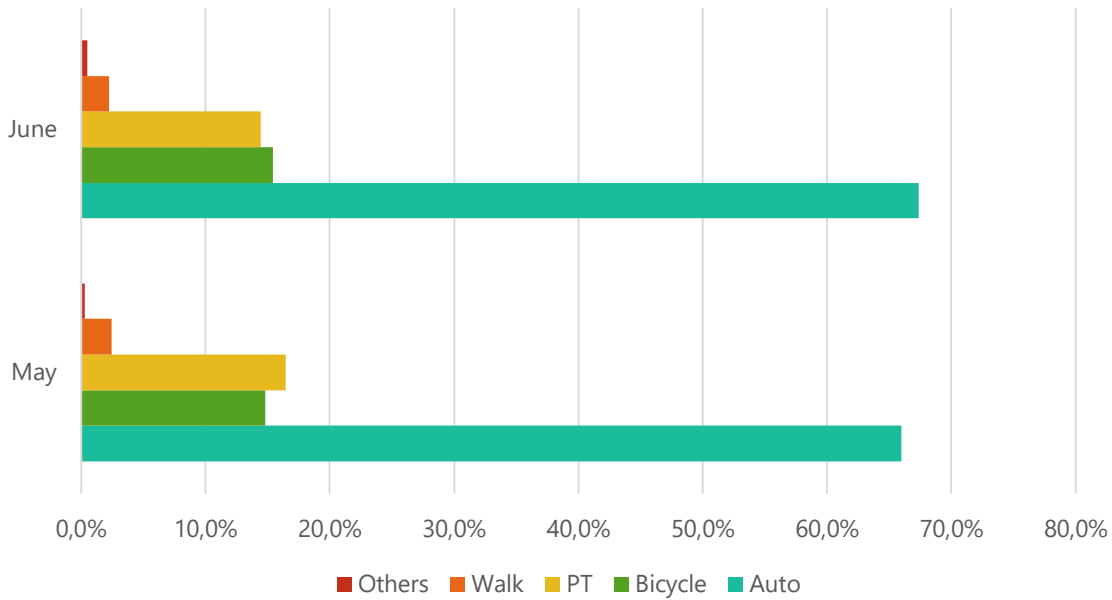
Average trip distribution per week



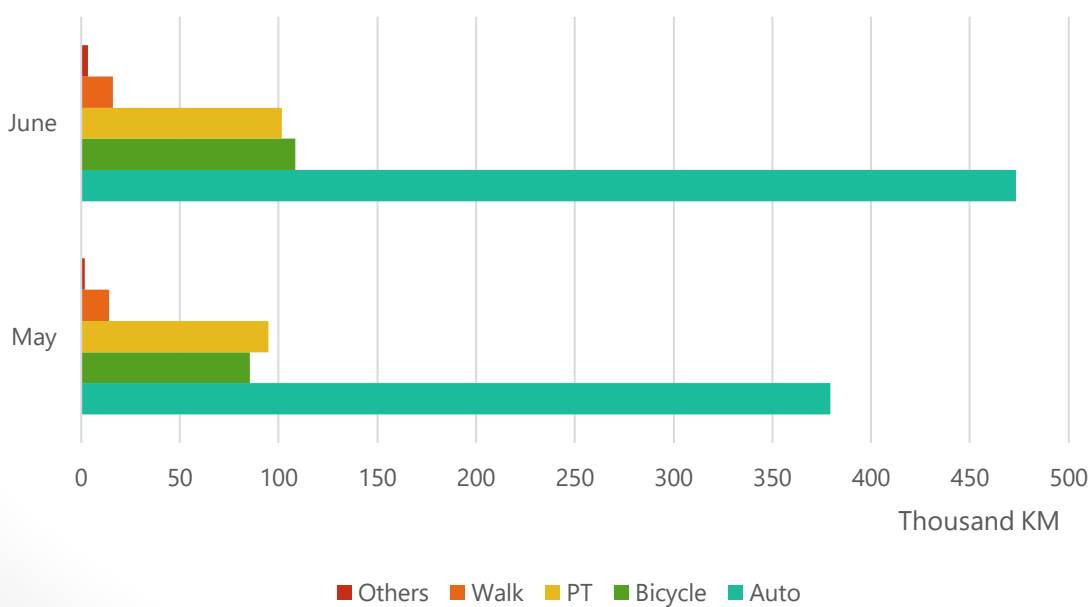


Distance travelled

Distance percentage



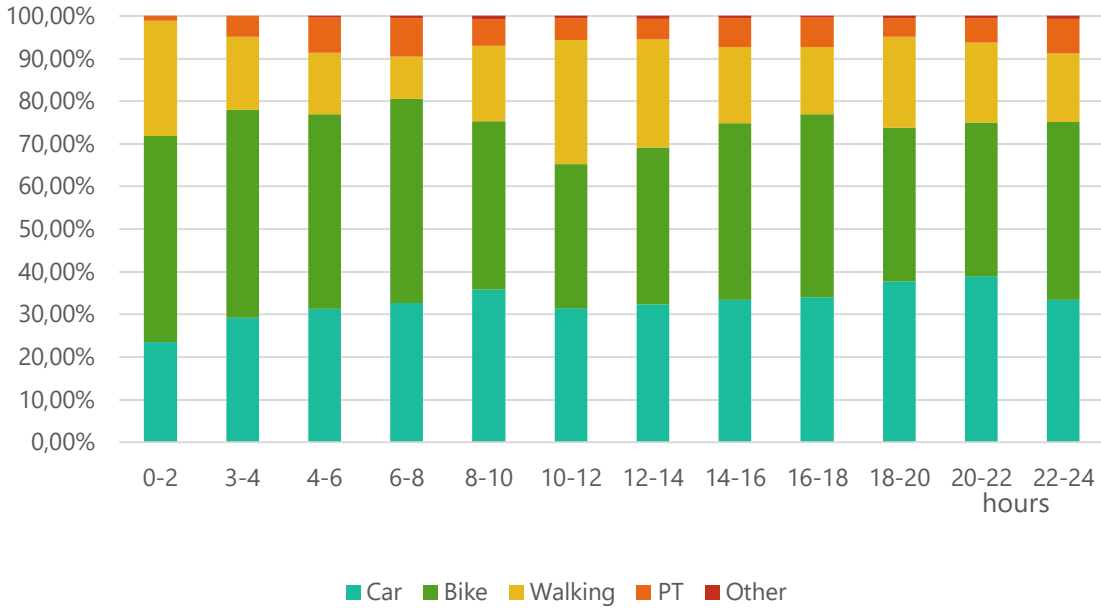
Total Distance



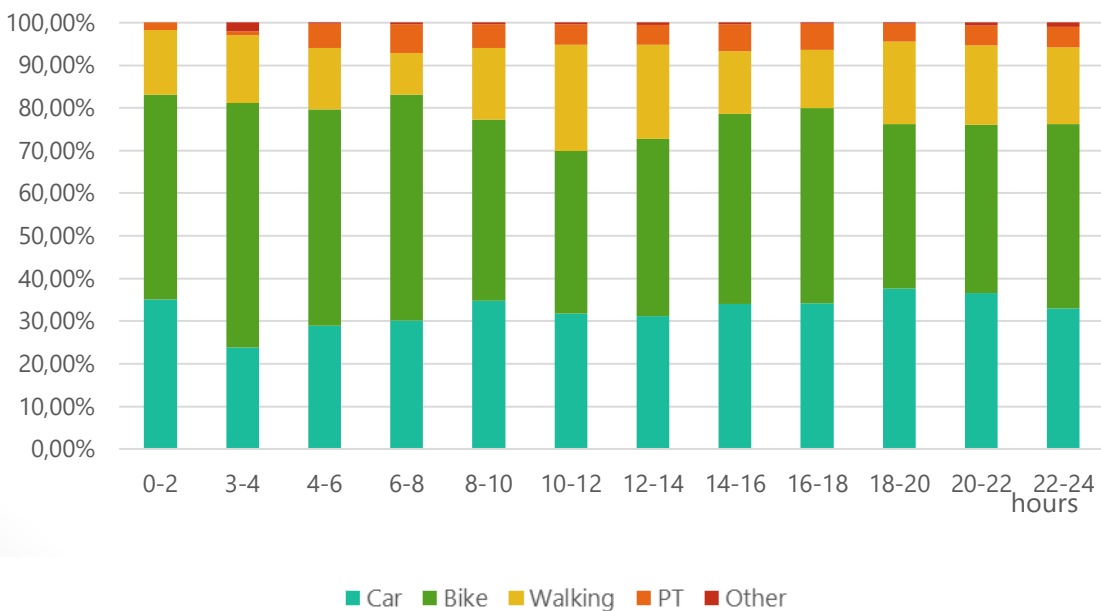


Modal distribution on workdays per two hours

May

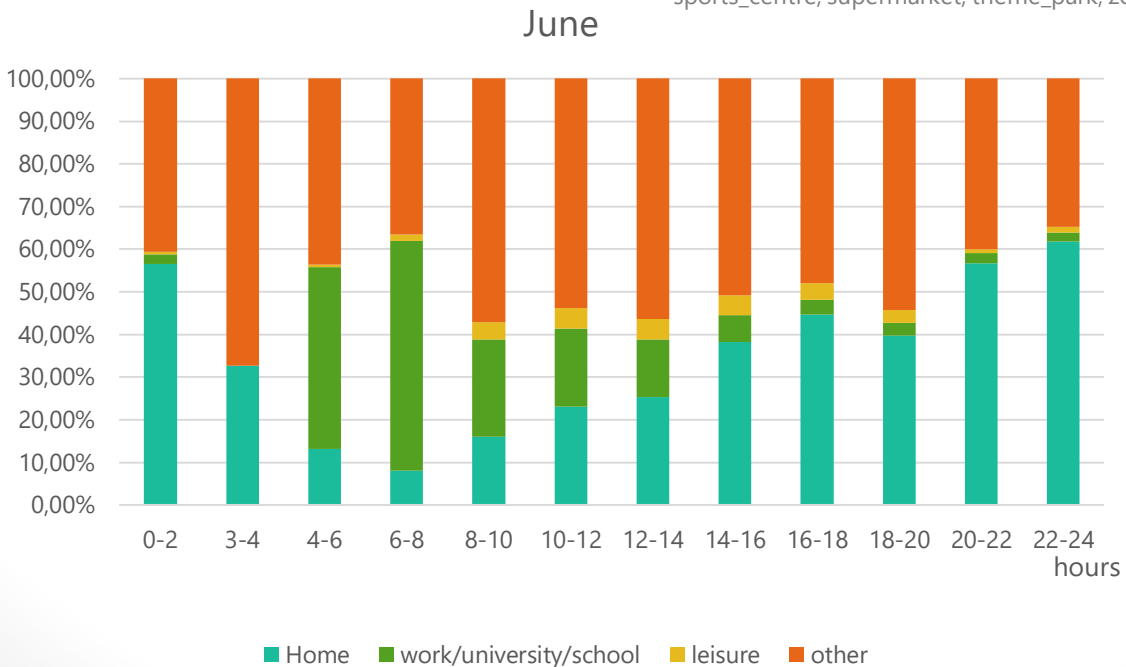
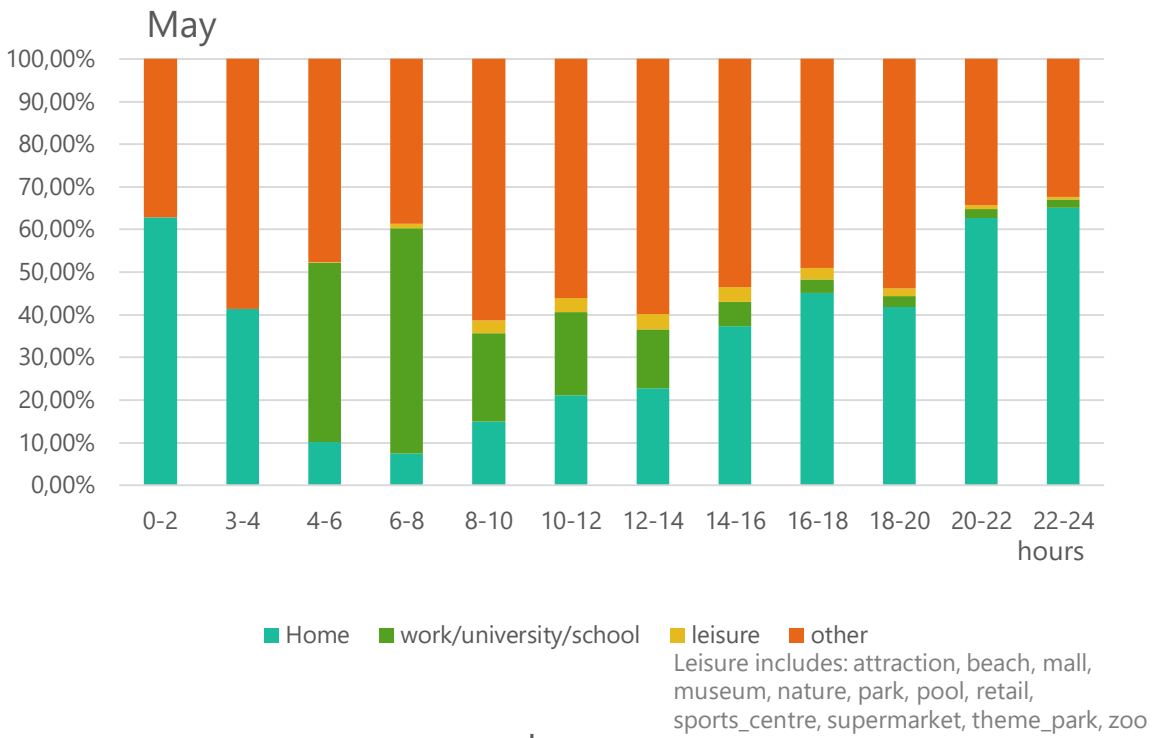


June





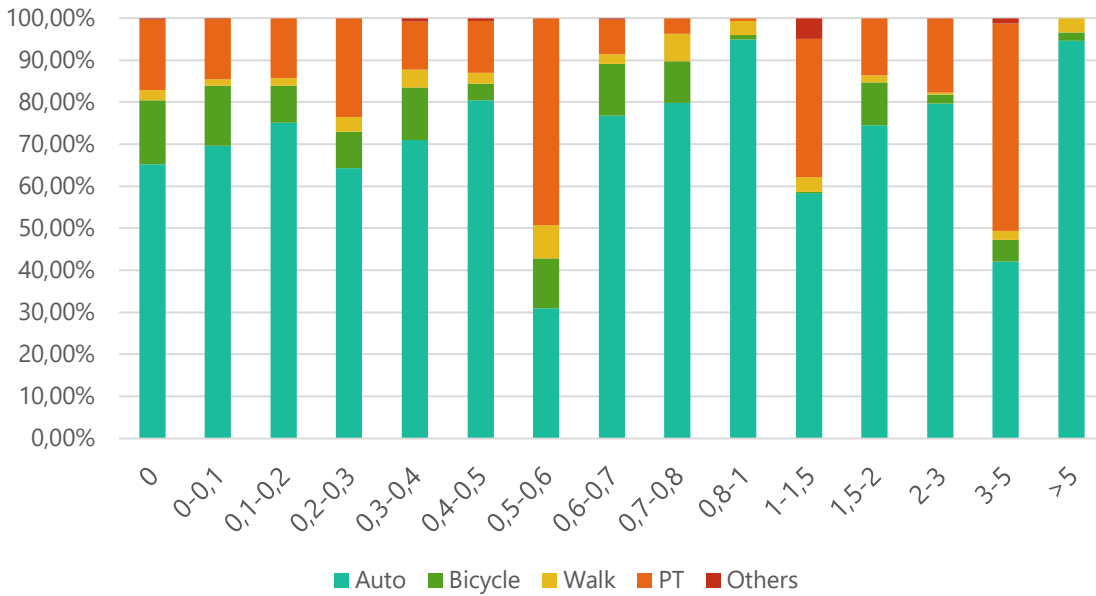
Destination per two hours



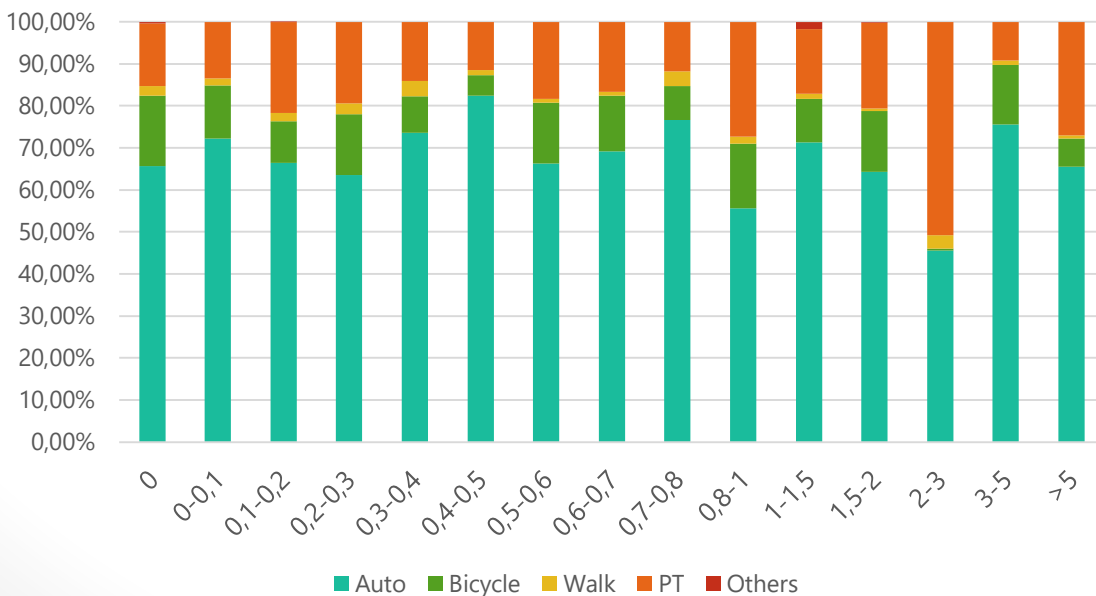


Rain (mm) vs modal distance share

May



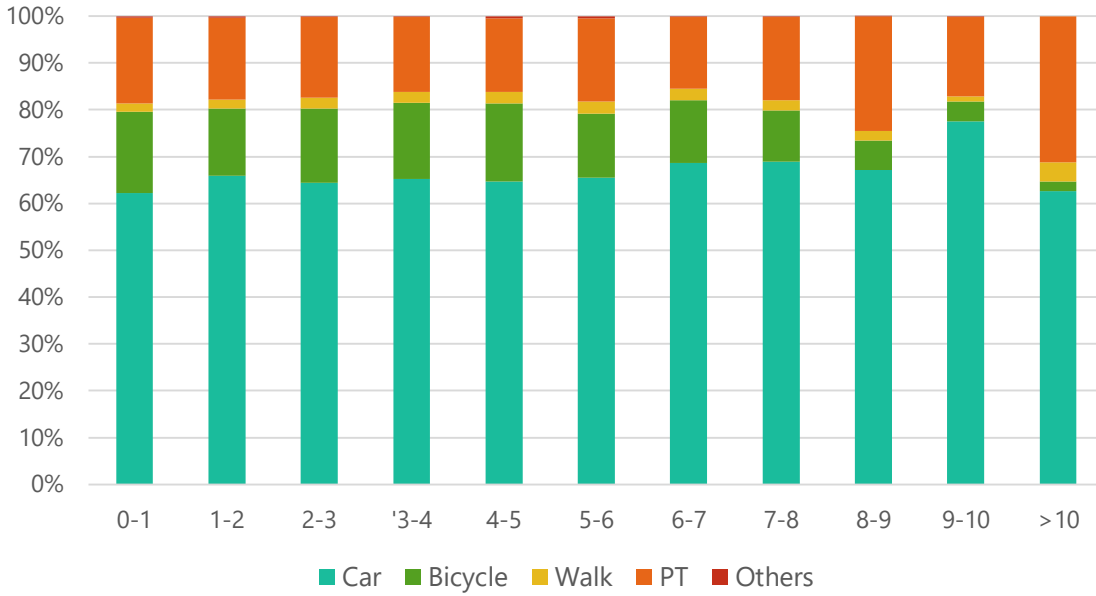
June





Wind speed vs modal distance share

May



June

