INFORMED CONSENT TO PARTICIPATE IN RESEARCH (group 1,2,3,4)

Title of Project: Next Generation Travel Surveys

Principal Investigator(s): Tibor Tóth, Ph.D.

You are being invited to participate in a research study. This consent form tells you about the study including its purpose, what you will be asked to do if you decide to take part, and the risks and benefits of being in the study. Please read the information below and contact us with questions you may have before you decide whether or not you agree to participate.

WHAT IS THE PURPOSE OF THIS STUDY?

The purpose of the Next Generation of Travel Surveys project is to assess if a Smart Phone App and/or a Standalone GPS unit data collection could successfully supplement the Computer Assisted Telephone Interviewing (CATI) data collection that has been utilized by UD’s Center for Applied Demography & Survey Research (CADSR) for the Delaware Travel Monitoring System (DTMS) for over 20 years. We are interested in all trips you take: walking, riding a bicycle, driving, riding as a passenger, riding public transportation etc.

To accomplish this, anonymous geo-location data will be collected from research participants. The geo-location data will be analyzed in aggregate form only; quantitative techniques will be used to estimate descriptive characteristics such as mode of transportation, source and destination, speed, trip purpose and demographic characteristics at the Census Tract level. This descriptive, anonymous data will serve as a supplement to determine current and future transportation needs and services by the Delaware Department of Transportation in Delaware.

You will be one of approximately 120 participants in this study. You are being asked to participate for one of the following reasons:

- Your Delaware land line or cell phone number was randomly chosen/generated.
- You have participated in the past in the Delaware Travel Monitoring System conducted by CADSR.
- You are associated with a bicyclist club and/or interest organization.

You will be excluded from this study if you are not 18 years or older. You will also be excluded if you are not a resident in Delaware.

WHAT WILL YOU BE ASKED TO DO?

As part of this study you will be asked to:

a. Download the UdelGPS Client smart phone application. The smart phone application is available on the Google Play Store and on the Apple App Store. Find the application by searching for UdelGPS Client in the appropriate Application store on your smart phone.
b. You will be lent a self contained GPS unit. The standalone GPS unit will either be distributed in person or sent via mail to the mailing address provided by you when you were recruited.

Next, as a study participant you will be asked to:

a. Using the UdelGPS Client app - you will be asked to enable GPS on your smart phone, start the smart phone app and keep it enabled for 24 hours. While enabled, the UdelGPS will collect anonymous geo-location data every 30 seconds. We will contact you by e-mail up to 7 times in the next 12 months to encourage you to start the application and enable it for the next 24 hours. If at any time you would like to stop participating in the research, you can respond to the reminder e-mail and we will immediately take you off the distribution list. Also, as a participant you have complete control over when the smart phone app is geo-collecting location information. You can always disable the collection of geo-location and uninstall the UdelGPS Client application from your phone.

OR

b. Using a standalone GPS unit - turn on the standalone GPS device to collect the geo-location data. For the standalone GPS unit we encourage you to keep it turned on and with you for up to 7 days. While turned on, the standalone GPS unit will collect anonymous geo-location data every 30 seconds. The standalone GPS unit should be charged using the provided USB charger every 24 hours. We will send you up to 7 email reminders to encourage you to keep the device on and with you at all times. After the 7 days, please send us back the standalone GPS unit in the provided prepaid envelope. Once you send the GPS unit back, we will not contact you again. If at any time you would like to stop participating in the research, you can respond to the reminder e-mail and we will immediately take you off the distribution list. Also, as a participant you have complete control over when the GPS unit is on collecting location information.

WHAT ARE THE POSSIBLE RISKS AND DISCOMFORTS?

There are no risks associated with you participating in this study. Your contact information is confidential and cannot be linked with the geo-location data.

The geo-location data is anonymous. The geo-location data will be analyzed in aggregate form only.

WHAT ARE THE POTENTIAL BENEFITS?

As a participant you will contribute to improving methodology for DelDOT to estimate current and future transportation needs and services in Delaware.

NEW INFORMATION THAT COULD AFFECT YOUR PARTICIPATION:
During the course of this study we may learn new information that could be important to you. This may include information that could cause you to change your mind about participating in the study. We will notify you as soon as possible if any new information becomes available.

**HOW WILL CONFIDENTIALITY BE MAINTAINED? WHO MAY KNOW THAT YOU PARTICIPATED IN THIS RESEARCH?**

Contact information and agreement to participate:
Your contact information and agreement to participate in the study will be kept confidential by the researchers. The confidentiality of your records will be protected to the extent permitted by law. Your agreement to participate and contact information may be viewed by the University of Delaware Institutional Review Board, which is a committee formally designated to approve, monitor, and review biomedical and behavioral research involving humans. Records relating to this research will be kept for at least three years after the research study has been completed. The data will be stored on a secure server behind a physical CADSR firewall. The access to the physical server is limited to responsible CADSR researchers only. The study is designed so that the geo-location data cannot be connected with your contact information.

Geo-location data:
The geo-location data collected by the UdelGPS Client smart phone app and the geo-location data collected by the standalone GPS unit is anonymous. The study is designed so that the geo-location data cannot be connected with your contact information.

The geo-location data will be analyzed in aggregate form only: quantitative techniques will be used to estimate descriptive characteristics such as mode of transportation, source and destination, speed, trip purpose and demographic characteristics at the Census Tract level. This descriptive, anonymous data will serve as a supplement to determine current and future transportation needs and services in Delaware.

**WILL THERE BE ANY COSTS TO YOU FOR PARTICIPATING IN THIS RESEARCH?**

There are no direct costs for you to participate in the study.

However, in the case of the UdelGPS Client app, a cell phone data plan or Wifi connection is required. Use of these services might be restricted by your cell phone carrier or may incur extra charge from your cell phone carrier. It is estimated that no more than 6 MB of data will be used by the UdelGPS Client smart phone app in a 24 hour period while it is active.

**WILL YOU RECEIVE ANY COMPENSATION FOR PARTICIPATION?**

A limited number of study participants recruited in person, who will be utilizing the standalone GPS unit will receive a token of appreciation in form of a gift card. If included in this group, you will receive the gift card at the time of borrowing the standalone GPS unit.

**DO YOU HAVE TO TAKE PART IN THIS STUDY?**
Taking part in this research study is entirely voluntary. You do not have to participate in this research. If you choose to take part, you have the right to stop at any time. If you decide not to participate or if you decide to stop taking part in the research at a later date, there will be no penalty or loss of benefits to which you are otherwise entitled. Your decision to stop participation, or not to participate, will not influence any current or future relationships with the University of Delaware.

If, at any time, you decide to end your participation in this research study, please inform our research team by telling the investigator(s) by responding to the reminder email. Also, delete the UdelGPS Client application from your phone and if you were lent a standalone GPS unit, please mail it back to the University of Delaware.

WHO SHOULD YOU CALL IF YOU HAVE QUESTIONS OR CONCERNS?

If you have any questions about this study, please contact the Principal Investigator, Dr. Tibor Tóth at (302) 831-3320 or tibi@udel.edu. For more information on the Center, you can also visit http://www.cadsr.udel.edu

If you have any questions about this study, please call Mike DuRoss at DelDOT Planning, (302) 760-2110.

If you have any questions or concerns about your rights as a research participant, you may contact the University of Delaware Institutional Review Board at hsrb-research@udel.edu or (302) 831-2137.

---

Downloading and enabling the UdelGPS Client smart phone app or by turning on the standalone GPS unit provided to you means that: 1) you are at least 18 years old; 2) you are a resident in Delaware; 3) you have read and understand the information given in this form; 4) you have asked any questions you have about the research and the questions have been answered to your satisfaction; and 5) you accept the terms in the form and volunteer to participate in the study.