

## **Information sheet for research project “Understanding graph comprehension and use of interactive visualisations in older adults”**

### **1. Introduction**

Eindhoven University of Technology (TU/e) invites you to take part in this research project which aim is to understand how age affects the use and comprehension of interactive data visualisations. We aim to understand differences between two age groups: adults aged a) 18-40 and b) 65 or more. You receive this invitation because you belong to one of these age groups. For your participation you will receive a compensation of 15€ as a sign of our appreciation.

**Joining this research project is your choice. Your participation is completely voluntary** and does not pose any physical, legal or economic risks. You are not obliged to answer questions you are uncomfortable with, and you can withdraw from the research at any time without explaining why. Declining or withdrawing will not have negative impact for you or for any compensation you may already have received.

Before you decide, please read the following information to understand what the project is about, what we expect from you and how we handle your personal data. After reading, you can sign up by completing the attached form.

If you have questions, feel free to contact us (contact details below). You can also discuss this information with people you trust.

### **2. Who are we?**

This research project is conducted by:

Technische Universiteit Eindhoven (TU/e) De Groene Loper 3 5612 AE Eindhoven	Data controller
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#### *How to contact us?*

Dimitra Dritsa	<a href="mailto:d.dritsa@tue.nl">d.dritsa@tue.nl</a>
Parvaneh Parvin	<a href="mailto:p.parvin@tue.nl">p.parvin@tue.nl</a>
Privacy Operations	<a href="mailto:privacy@tue.nl">privacy@tue.nl</a>
Data Protection Officer	<a href="mailto:dataprotectionofficer@tue.nl">dataprotectionofficer@tue.nl</a>

### **3. What will taking part in the research project involve?**

In the research project we will collect your personal data using the following methods:

- Asking you to interact with various data visualisations while we record your interactions via video (only if necessary in online sessions), mouse recording, screen recording, and the explanation of your thoughts via audio recording. Also, we will interview you afterwards about your experiences during these interactions, we will record your answers via audio, and make a transcript of the interview.

### **4. What personal data from you do we gather and process?**

We collect and process the following personal data which is necessary for the project purpose:

Category and type	Personal data	Purpose	Retention period
Contact data (regular personal data)	Name	To communicate with you and invite you to events	6 months after data collection
Demographics(regular personal data)	Age	Analyze data concerning how your age affects the	10 years after research is complete

		<i>comprehension of visualisations</i>	
<i>Biometric data (regular personal data)</i>	<i>Voice data</i>	<i>Analyse data concerning your interactions and your thought process during the comprehension of visualisations</i>	<i>Until voice data are transformed to transcripts</i>
<i>All data</i>	<i>All personal data as mentioned hereabove</i>	<i>storage</i>	

Your data is retained only for the time period as specified in the table. Keeping your data for this period helps us to comply with scientific principles, such as producibility and verification.

After this period, your personal data will be deleted or anonymized to ensure it can no longer be linked to you. Unless you explicitly agree to the use of your identifiable information in publications (for example your quotes or your name).

## 5. Stopping your participation and your rights

If you end your participation in the research we will not use your data anymore from that moment on.

For questions, ending your participation or complaints, please contact the researcher via the contact details as provided in the table under section 2.

For concerns or questions about the handling of personal data, you can e-mail the data protection officer as indicated in the table under section 2. You can also file a complaint with the Dutch data protection authority: the Autoriteit Persoonsgegevens.

You have the right to request access, rectification, objection, erasure or adaptation of your data. Submit your request through team Privacy Operations via the contact details as provided in the table under section 2.

## 6. Legal basis for processing your personal data

The TU/e processes your personal data to conduct scientific research, which is the university's public task as stated in article 1.3 of the Dutch Wet Hoger onderwijs en Wetenschappelijk onderzoek. The TU/e always follows the applicable codes of conduct for research integrity and the scientific standards when conducting research.

## 7. Who has access to your personal data?

Only authorized employees involved in the research have access to your personal data if this is necessary for their tasks. The authorized employees will keep your personal data confidential.

Other parties/processors that have access to the data are listed in the table below:

<b>Party/processor</b>	<b>Why access?</b>	<b>Category</b>	<b>Processing within the European Economic Area?</b>
<i>SURF Research Drive / Microsoft (Netherlands)</i>	<i>Storage solution</i>		<i>Yes</i>
<i>TU/e Server</i>	<i>Storage solution</i>		<i>Yes</i>

TU/e has a suitable agreement with these parties to protect your personal data. We will not share your personal data with any other party, unless we are required to do so by law.

TU/e will process your personal data within the European Economic Area (EEA) by storing your data on a server inside the EEA.

## **8. Future research**

During the research project, your personal data may also prove useful for new, socially important research. In such case, we would like to reuse your data for the new research. This will only happen if (1) your personal data is truly necessary, (2) the recognized ethical standards for scientific research are followed, and (3) the new research objectives align with the current research objectives. If your personal data is used in future research, we will take all reasonable steps to inform you about this. You can object to the use of your personal data for new research.

We might use anonymized data for new purposes such as research or education. We will ensure the data cannot be linked to you and we will not disclose anything that makes you identifiable.

This research has been assessed and approved by the ethical committee of Eindhoven University of Technology.

**\*\*\* Scroll down for the form \*\*\***

## Consent form for participation by an adult

By signing this form, I confirm:

1. I have enough information about the research project from the separate information sheet. I have read it and I had the chance to ask questions, which have been answered to my satisfaction.
2. I take part in this research project voluntarily. There is no explicit or implicit pressure for me to take part in this research project and I understand I can stop my participation at any moment, without explaining why. I do not have to answer any question I do not want to answer.
3. I know my personal data will be collected and used for the research, as explained to me in the information sheet.

Furthermore, I consent to the following parts of the research project:

4. I consent to my personal data, such as answers or quotes I gave during the research, to be used by the researcher in publications and/or in presentations – without including my name.

YES ☐ NO ☐

Name of Participant:

Name of researcher:

Signature:

Signature:

Date:

Date: