

## Privacy Policy and Informed Consent on Geoinformation Studies

Protecting and securing data are important matters at TU Wien. Personal data are processed in strict compliance with the principles and requirements laid down in GPDR<sup>1</sup>, DSGVO<sup>2</sup> and FOG<sup>3</sup>. TU Wien only processes those data required for the purposes intended and at all times endeavours to ensure the security and accuracy of the data.

The Research Unit Geoinformation 120-02, Department of Geodesy and Geoinformation conducts studies with the participation of test subjects as part of its research activities. Such research activities can also be considered within the scope of contract research. Laboratory and field studies are used, as are new technologies such as augmented and virtual reality as well as eye tracking and a combination of these technologies. The research activities of the research unit cover a wide range of different data collection methods, including combined methods (such as written and oral interviews, group discussions, logging of user interactions with software systems, usability tests, eye, head and body tracking, sensor data evaluation, video and audio recordings, etc.).

Your participation in such studies will enable, for example, a better understanding of human spatial cognition and associated behaviours as well as designing of suitable assistance systems to support these behaviours and cognitive processes. You also make it possible for us, for example, to test assistance systems developed by us for their functionality and/or effectiveness. Moreover, your participation enables us to, for example, analyse and predict human behaviour with the help of algorithms. Within the scope of contract research, you also enable us to support the development and/or improvement of existing systems through such studies.

### Controller:

Rectorate of Technische Universität Wien (TUWien)  
Karlsplatz 13  
1040 Vienna

### Data protection officer:

Mag. Christina Thirsfeld TU Wien  
Karlsplatz 13/018, 1040 Vienna  
datenschutz@tuwien.ac.at

In the context of such studies, which are either conducted as part of scientific research or in context of contract research, data may be collected from one or more of the following categories of data, which may be further processed according to the specific scientific interests in findings of the study:

- Quantitative data in the form of standardised questionnaires (such as about personal characteristics such as sense of orientation or personality, as well as about aspects of the user experience, the task load and the like) and non-standardised questionnaires (such as demographic data such as age, gender and previous experience with technologies used and the like)

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<sup>1</sup> General Data Protection Regulation

<sup>2</sup> Austrian Data Protection Act

<sup>3</sup> Research Organisation Act



- Sound recordings of test subjects which may be transcribed literally (if necessary, with paralinguistic elements, such as pauses, prosody, etc.)
- Video recordings of test persons; statements made in the videos are transcribed literally if necessary (with paralinguistic elements, such as pauses, prosody, etc. when appropriate)
- Video recordings from the first-person perspective of test persons

Recording of eye movements and/or pupil movements as part of eye-tracking experiments, allowing conclusions to be drawn about cognitive stress as well as the observation of eye behaviour per se

- Screen recordings of mobile devices such as smartphones (including human-machine interactions of test subjects visible on-screen)
- Screen recordings of stationary devices such as screens (including the interactions between human and machine visible on the screen), data from various sensors that are suitable for describing the physical behaviour of test persons (such as head movements, trajectories, step recognition, etc.)
- Data from a wide variety of sensors suitable for describing the cognitive and/or physical condition of test persons (such as EEG, ECG and skin resistance measurement)

### Purpose of the data processing

Processing of these data is done on the basis of participation in the study for the **purpose of scientific research** with the aim of gaining knowledge in all areas of geoinformation and related areas of research (such as psychology and computer science). This also applies in the event that data is collected in the course of contract research.

In detail, the data processing has the following purposes, among others:

- Basic research in the field of human-machine/human-environment interaction
- Applied research in the field of human-machine/human-environment interaction
- Development of appropriate assistance systems for the support/prediction of behavioural patterns

In addition, we reserve the right to use the pseudo-anonymised data for further research purposes.

### Transmittal

All evaluations and presentations of results that are published or passed on to third parties (in case of contract research including the client) are carried out in pseudonymised form. This means that we assign an ID to identify your data record, enabling us to merge different partial data records. The data collected are freely made available in pseudonymised form to the research community via open-access repositories.

### Legal basis for the data processing

The processing and use of your personal data are done on the basis of your declaration of participation and is limited to the above-mentioned purposes. The processing of personal data is based on the principles and requirements set out in the General Data Protection Regulation (GDPR), the Austrian Data Protection Act and the Forschungsorganisationsgesetz FOG § 2d (3) [Research Organisation Act].

### Length of storage / deadline for erasure

Your data will be stored as long as the statutory storage deadlines stipulate or as long as the purpose requires it.



### Notice of right to appeal

In connection with the processing of your personal data, you are entitled to the right to information, rectification, erasure, restriction of processing and the right to object, if by exercising these rights achievement of the research purpose is not rendered impossible or seriously impaired (§ 2d (6) FOG).

Please contact for this purpose:

markus.kattenbeck@geo.tuwien.ac.at

If you feel that the processing of your data violates data protection law or that your claims to data protection have been violated in any other way, you can complain to the regulatory authority with jurisdiction in these matters: The Austrian Data Protection Authority (Österreichische Datenschutzbehörde (DSB), Barichgasse 40-42, 1030 Vienna)

### Kontakt

If you have further questions or concerns regarding the processing of your data, please contact:

#### Specialist contact person of TU Wien

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E120-02 - Research Unit Geoinformation  
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Tel.: (+43 1) 58801-12719

General information on data protection can be found at the Austrian Data Protection Authority  
<https://www.dsb.gv.at/>.

### Informed Consent:

I confirm that I have read and understood the Privacy Policy for research work by the Geoinformation Research Unit.

I understand that my participation in the project may be terminated at any time. Personal data collected up to that point may only be disclosed, corrected, deleted or restricted if exercising these rights will likely not make achieving the research purpose impossible or seriously impair it. This also applies to objections.

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Date and signature of participant