

Data Privacy Handbook

Utrecht University

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Contents

Welcome!	7
0.1 How to use this Handbook	8
0.2 License and Citation	9
0.3 Disclaimer	9
0.4 Contributions	10
 I Knowledge Base	 11
 The GDPR	 13
Definitions in the GDPR	14
Principles in the GDPR	17
When can I work with personal data?	19
Data Subject's Rights	20
 1 Privacy & Security Assessment	 23
 Legal Documents & Agreements	 25
Privacy Notices	25
Informed Consent Forms	25
Legitimate Interest Assessment	25
1.1 Data Use Agreement/Confidentiality Agreement/Non-Disclosure Agreement	25
Data Transfer Agreement	25
1.2 Consortium Agreement and/or Joint Controller Agreement	25
Data Processing Agreement	25

II	Techniques & Tools	27
2	Privacy-Enhancing Techniques in Working With Personal Data	29
2.1	Anonymization	29
2.2	Pseudonymization	29
2.3	Encryption	29
2.4	Synthetic Data	29
2.5	Federated Analysis	29
3	Tools & Services	31
3.1	tools.uu.nl	31
3.2	Survey Tools	31
3.3	Transcription Tools	31
III	Storage, Sharing, Publication	33
4	Data Storage	35
4.1	Network Drives	35
4.2	Cloud Drives	35
4.3	Hard Drives	35
5	Data Sharing	37
5.1	Can I Share Personal Data?	37
5.2	Third Country Transfers	37
5.3	Data Access Protocols	37
5.4	Data Points/Virtual Research Environments	37
6	Data Publishing	39
6.1	Publishing Personal Data	39
6.2	Data vs. Metadata	39
6.3	Repositories	39
6.4	Licenses	39

<i>CONTENTS</i>	5
7 (PART) Use Cases	41
8 Publishing metadata	43
9 Data pseudonymisation	45
10 Data minimisation in a survey	47

Welcome!



Utrecht University

Data Privacy Handbook

The Data Privacy Handbook is a guide on handling personal data in scientific research, in line with European data protection and privacy regulations. It consists of:

- A **knowledge base** which explains how the EU General Data Protection Regulation (GDPR, Dutch: Algemene Verordening Gegevensbescherming) applies to scientific research, including guidelines and good practices in carrying out GDPR-compliant scientific research;
- An overview of privacy-enhancing **techniques & tools** and practical guidance on their implementation;
- **Use Cases** in the form of research projects with privacy-related issues, for which a reusable solution (e.g., tool, workflow) has been developed.

The Data Privacy Handbook synthesizes information across various sources and presents it a *practical* and *actionable* format. This includes workflows, tools, and practical translations of the GDPR , which could be used by researchers and (data) support staff within Utrecht University and beyond.

This is an Utrecht University (UU) community-driven, open-source project. You can visit our GitHub repository [here](#). We welcome feedback and contributions of any type, please read our contributing guidelines for more information.

The Data Privacy Handbook is an initiative of Research Data Management Support at the Utrecht University Library, in collaboration with privacy and data experts at Utrecht University. It is part of a larger Data Privacy Project, that aims to develop knowledge, tools, and experience on how researchers can and

should deal with personal data. This project is funded by the Utrecht University Research IT Program and an NWO Digital Competence Center grant. You can read more about the Data Privacy Project [here](#).

0.1 How to use this Handbook

The Data Privacy Handbook aims to make knowledge and solutions on handling personal data *Findable, Accessible, Interoperable, and Reusable* (FAIR) and present them in a practical and actionable format.

The Handbook need not be read like a textbook. You are invited to navigate to the topic you need based on the table of contents, or use the guide below.

0.1.1 What are you looking for?

I want to...:

Learn about the GDPR in the context of scientific research

Introduction to the GDPR

Definitions

Plan a GDPR-compliant research project

Assessing your design

Informing participants

Obtaining consent

Collaborating on personal data

Work safely with personal data

Storing personal data

Using GDPR-compliant tools and services

Reducing the sensitivity of personal data

Sharing personal data during research

Share personal data with others

Sharing data legally

Sharing personal data during research

Reducing the sensitivity of personal data

Using GDPR-compliant tools and services

Publishing personal data

Sharing personal data case by case

Learn from other projects

Publishing metadata only

Pseudonymising different types of data

Minimising personal data processing in a survey

Get help or information

Getting help at Utrecht University

Definitions

References

0.2 License and Citation

The Data Privacy Handbook is licensed under a Creative Commons Attribution 4.0 International License. You can view the license [here](#).

0.3 Disclaimer

The content presented in the Data Privacy Handbook has been carefully curated by Research Data Management Support, in collaboration with privacy officers and data experts of Utrecht University.

The Data Privacy Handbook is a ‘living’ book that is continually being written, updated and reviewed. Its contents can therefore change, or become outdated or redundant. Hence, the information presented is provided “as is”, **without guarantees of accuracy or completeness**.

As scientific research may differ depending on the discipline, topic, and context, measures needed or taken to ensure GDPR-compliance will vary across research projects. The authors can therefore **not be held responsible, nor accountable** for any negative consequences arising from interpretation and use of the content of the Data Privacy Handbook.

The Handbook is not endorsed by the Board of Utrecht University and does not constitute a mandatory directive. For the most up-to-date and official/authoritative information, please refer to the university website and intranet, to which this Handbook is a hands-on, practical supplement. Moreover, before implementing the guidance laid out in this Handbook, always seek the advice of your privacy officer or RDM Support to confirm the suitability of any proposed solution to your project.

Throughout the Data Privacy Handbook, links to external webpages may be provided for additional information or assistance. The authors of the Data Privacy Handbook are **not responsible for the content of any such linked webpages**, nor is the content of external webpages necessarily endorsed by Utrecht University.

Utrecht University is committed to sharing knowledge in line with the principles of open science and therefore welcomes readers from outside of the organization. However, the contents of the Data Privacy Handbook may not be in line with readers' institutions' policies or views. For more authoritative information, these readers' should refer to resources from their own institutions.

0.4 Contributions

The Data Privacy Handbook is a collaborative effort, made possible by a large number of contributors (also to be viewed in our GitHub repository):

Neha Moopen, Dorien Huijser, Jacques Flores, Saskia van den Hout, Frans Huigen, Sanne Kleerebezem, Annemiek van der Kuil, Danny de Koning-van Nieuwamerongen, Frans de Liagre Böhl, Francisco Romero Pastrana, Ron Scholten, Garrett Speed, Robert Steeman, Liliana Vargas Meleza, Martine de Vos, and others.

Would you like to contribute to this Handbook yourself? Please read our Contributing Guidelines.

Part I

Knowledge Base

The GDPR

This chapter will present the most important definitions, principles and rights of data subjects under the GDPR and how you can apply them in your research. Most of the practical advice that we provide in this Handbook is rooted in and builds on the concepts presented here.

0.4.0.1 What is the GDPR?

The General Data Protection Regulation (GDPR, Dutch: *Algemene Verordening Gegevensbescherming* [AVG]) is an EU-wide regulation meant to protect the privacy of individuals within a rapidly growing technological society. The GDPR facilitates the free movement of personal data within the European Economic Area (EEA). Its data processing principles are meant to ensure a fair balance between competing interests – for example, the right to conduct research vs. the right to protect personal data (Art 13 and 8, from the Charter of Fundamental right of the EU).

0.4.0.2 The GDPR in a nutshell

All articles and recitals of the GDPR can be found online via <https://gdpr-info.eu/>. The video below highlights some important aspects of the GDPR:

Click to read the English video transcript

The General Data Protection Regulation (GDPR) regulates what we can and cannot do with personal data such as a person's name, sexual orientation, home address and health. This also applies to personal data used in research and education. The regulation consists of 88 pages. Fortunately, the basics are easy to remember in 3 steps:

First, there must be a clear legal basis for processing personal data, for instance, because you have consent, because there is a legal obligation, or because the processing is necessary for the public interest.

Second, appropriate technical and organisational measures must be taken while processing personal data to ensure maximum privacy.

Lastly, the persons whose data you have collected must always have the option of inspecting, changing, or removing their personal data.

That is the GDPR in a nutshell.

0.4.0.3 When does the GDPR apply?

The GDPR has been applicable from May 2018 onwards and applies when:

you are processing personal data (material scope, art. 2).

the controller or processor of the data resides in the EEA (territorial scope, art. 3). This is independent of whether the actual processing takes place there. In some cases, the GDPR also applies when the controller or processor is not established in the EEA, but is processing data from EU citizens.

If you are collecting or using data that originated from individuals (or is related to individuals), it is very likely that the GDPR applies to your project.

0.4.0.4 Implementation

Whereas the GDPR is a regulation for the entire EEA, each EEA country can additionally implement further restrictions and guidelines in national implementation laws. The Dutch implementation law is called “Uitvoeringswet AVG (UAVG)” (most recent version). The UAVG determines, for example, that it is forbidden to process Citizen Service Number (BSN), unless for purposes determined by a law or a General Administrative Order (AMvB).

Definitions in the GDPR

Below, you can find a selection of important terms in the GDPR that you should be familiar with when working with personal data (also included in the Definitions). Click a term to see the definition.

Data subject

A living individual who can be identified directly or indirectly through personal data. In a research setting, this would be the individual whose personal data is being processed (see below for the definition of processing).

Personal data

Any information related to an identified or identifiable (living) natural person, for example identifiers (name, identification number, location data, online identifier or a combination of identifiers) or factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of the person. Moreover, IP address, opinions, tweets, answers to questionnaires, etc. may also be personal data, either by itself or through a combination of one another.

Of note: as soon as you process data related to a person that is identifiable, you are processing personal data. Additionally, pseudonymised data is still considered personal data. Read more in *Designing a GDPR-compliant research project*.

Special categories of personal data

Any information pertaining to the data subject which reveals any of the below categories:

racial or ethnic origin

political opinions

religious or philosophical beliefs

trade union membership

genetic and biometric data when meant to uniquely identify someone

physical or mental health conditions

an individual's sex life or sexual orientation

The processing of these categories of data is prohibited, unless one of the exceptions of art. 9 applies. For example, an exception applies when:

the data subject has provided explicit consent to process these data for a specific purpose

the data subject has made the data publicly available themselves

processing is necessary for scientific archiving purposes

Contact your privacy officer if you wish to process special categories of personal data.

Processing

Any operation performed on personal data, including collection, storage, organisation, alteration, analysis, transcription, sharing, publishing, deletion, etc.

Controller

The natural or legal entity that, alone or with others, determines or has an influence on why and how personal data are processed. On an organisational level, Utrecht University (UU) is the controller of personal data collected by UU researchers and will be held responsible in case of GDPR infringement.

On a practical level, however, researchers (e.g., Principal Investigators) often determine why and how data are processed, and are thus fulfilling the role of controller themselves.

Processor

A natural or legal entity that processes personal data on behalf of the controller. For example, when using a cloud transcription service, you often need to send personal data (e.g., an audio recording) to the transcription service for the purpose of your research, which is then fulfilling the role of processor. When using such a third party, you must have a data processing agreement in place.

Legal basis

Any processing of personal data should have a valid legal basis. Without it, you are now allowed to process personal data at all. The GDPR provides 6 legal bases which are explained further in this chapter.

Anonymous data

Any data where an individual is irreversibly de-identified, both directly (e.g., through names and email addresses) and indirectly. The latter means that you cannot identify someone:

by combining variables or datasets (e.g., a combination of date of birth, gender and birthplace, or the combination of a dataset with its name-number key)

via inference, i.e., when you can deduce who the data are about (e.g., when profession is Dutch prime minister, it is clear who the data is about)

by singling out a single subject, such as through unique data points (e.g., someone who is 210 cm tall is relatively easy to identify)

Anonymous data are no longer personal data and thus not subject to GDPR compliance. In practice, anonymous data may be difficult to attain and care must be given that the data legitimately cannot be traced to an individual in any way. The document Opinion 05/2014 on Anonymisation Techniques explains the criteria that must be met for data to be considered anonymous.

Pseudonymous data

Personal data that cannot lead to identification without additional information, such as a key file linking pseudonyms to names. This additional information should be kept separately and securely and makes for deidentification that is reversible. Data are sometimes pseudonymised by replacing direct identifiers (e.g., names) with a participant code (e.g., number). However, this may not always suffice, as sometimes it is still possible to identify participants indirectly (e.g., through linkage, inference or singling out). Importantly, pseudonymous data are still personal data and therefore must be handled in accordance with the GDPR.

Principles in the GDPR

The GDPR has a number of principles at its core which dictate the (method of) data processing. Every type of processing has to comply with these principles. Understanding these principles is the first step to determining what type of personal data can be collected and how they can be processed.

The GDPR principles are explained further below the image. The next chapter will describe how to implement these principles in your research. You can also always contact your privacy officer for help.

0.4.0.5 1. Lawful, fair and transparent

When working with personal data, your processing should be:

Lawful Make sure all your processing activities (e.g., data collection, storage, analysis, sharing) have a legal basis. Ideally, you should have determined your processing purposes (e.g., research questions) in advance.

Fair

Consider the broad effects of your processing on the rights and dignity of the data subject.

Give data subjects the possibility to exercise their rights.

Avoid deception in the communication with data subjects: processing of personal data should be in line with what they can expect.

The processing of personal data should not have a disproportionate negative, unlawful, discriminating or misleading effect on data subjects.

Transparent Be transparent in the communication to your data subjects about who is processing the personal data (controllers, processors), which personal data is processed, as well as why and for how long, and how data subjects can exercise their rights (see the Legal documents chapter). The information provided should be unambiguous, concise, easily accessible and relevant and shared with data subjects before the start of your research.

0.4.0.6 2. Purpose limitation

You can only process (i.e., collect, analyse, store, share, etc.) personal data for a specific purpose and only for as long as necessary to complete that purpose. For example, if you only specified that you would use the personal data to answer your specific research question, you cannot also share the personal data for reuse purposes, as this is an additional processing purpose. This means that you need

to plan what you will do with the (collected) personal data in advance and stick to that plan in order to be GDPR-compliant.

In some cases (e.g., for cohort studies), it may not be possible to communicate a specific research purpose in advance. In those cases, you may be able to use “broad consent” when possible. For more information on broad consent and which conditions must be met in that case see the Legal Documents chapter.

0.4.0.6.1 Further processing It may happen that you want to process personal data for **similar, but other purposes** than previously specified, for example because you formulated a research question that was not communicated with the data subjects. In these cases, the GDPR provides some leeway: you can still process the personal data if the new processing (e.g., the new research question) is **compatible** with the original purpose. Your privacy officer can help you assess whether this is the case. Of note, **archiving** personal research data after your research is finished is allowed in a research context (art. 5.1(b)), but provided that you still apply the GDPR’s principles and put in place appropriate safeguards (rec. 156).

0.4.0.7 3. Data minimisation

You can only process the personal data you need to achieve your predefined purpose(s), and not more just because they may “come in handy later”. This principle makes sure that, for example, in the event of a data breach, the amount of data exposed is kept to a minimum.

0.4.0.8 4. Accuracy

The accuracy of personal data is integral to data protection. Inaccurate data can be a risk for data subjects, for example when they lead to a wrong treatment in a medical trial. You therefore need to take every reasonable step to remove or rectify data that is inaccurate or incomplete. Moreover, data subjects have the right to request that inaccurate or incomplete data be removed or rectified within 30 days.

0.4.0.9 5. Storage limitation

You can only store personal data for as long as is necessary to achieve your (research) purpose. Afterwards, they need to be removed. If the personal data are part of your research data (and not, for example, to simply contact data subjects), you are allowed to store (archive) them for a longer period of time, provided the necessary safeguards are in place. This is an exemption that applies to data storage for scientific archiving purposes. You need to inform the data subjects on this storage duration beforehand.

N.B.: If identification of the data subject is no longer needed for your (research) purposes, you do not need to keep storing the personal data just to comply with the GDPR, even if it means your data subjects cannot exercise their rights (art. 11).

0.4.0.10 6. Integrity and confidentiality

You have to process personal data securely and protect against unauthorised processing or access, loss or damage. To this end, you should put in place appropriate organisational and technical measures. The next chapter will go into such measures in more depth.

0.4.0.11 7. Accountability

The controller is ultimately responsible for demonstrating GDPR-compliance. As a researcher working with personal data, you are representing your institution (e.g., Utrecht University) and you should therefore be able to demonstrate that you process personal data in a compliant manner. Additionally, you should also have some knowledge of data protection so that you can implement the right measures into your research project.

When can I work with personal data?

You can only process personal data if you have a **legal basis** to do so, which should be registered, among other information, in the processing register and communicated to data subjects. There are 6 possible legal bases which are outlined below. In research, the legal bases ‘informed consent’, ‘legitimate interests of the controller’ and ‘public interest’ are most often used.

Please note that **for different purposes in your research project, a different legal basis may apply**. For example, you may contact data subjects before they start participating based on a legitimate interest and use informed consent for collecting, storing, analysing and publishing the data.

0.4.1 Legal bases suitable for research

Informed consent

Informed consent is the most used legal basis in research and is often not only a legal (GDPR-consent), but also an ethical consideration (e.g., METC informed consent). When using informed consent, you should be able to demonstrate that the data subject was informed and has given consent, and for which purpose(s) they gave their consent. In all cases, consent has to be freely given, specific,

informed and unambiguous. Please refer to the Informed consent section for guidance on applying informed consent in your research.

Legitimate interest of the controller

You can use this legal basis when processing personal data is necessary for the legitimate interests of the controller (e.g., Utrecht University). For example, this can be the case when you need to process contact information to approach data subjects to participate, and you can only obtain their consent after contacting them. Since contacting data subjects is a prerequisite to perform your research, it can be in the university's legitimate research interest to process their contact information. To evaluate whether you can use legitimate interest as a legal basis, you always need to weigh the interests of the controller (e.g., Utrecht University) and the data subjects in a Legitimate interest assessment. Please contact your privacy officer to assess whether you can use this legal basis in your research.

Public interest

This legal basis can only be used if it can be demonstrated that there is an urgent social necessity for the processing of personal data. This means that there must be an explicit increase in knowledge in the interest of society. There is currently some disagreement as to when this legal basis can be applied in research. Therefore, please contact your privacy officer to assess whether you can use this legal basis in your research.

0.4.2 Legal bases not suitable for research

Processing is necessary because of a legal obligation of the controller

This basis is not suitable for research. As an example, Utrecht University has to share tax data with the Dutch tax administration to comply with tax legislation.

Processing is necessary for the performance of a contract

This basis is not suitable for research. As an example, Utrecht University has contracts with its employees, which require it to manage the employees' financial data.

Processing is necessary to protect a person's vital interests

This basis is not suitable for research. If processing someone's personal data is crucial to their health or even life, that processing is allowed under the GDPR.

Data Subject's Rights

The GDPR provides data subjects with several rights that gives them a relatively high degree of control over their own personal data. Below, we list these rights and how you can apply them in your research:

Right to be informed Data subjects need to be informed clearly about what you are doing with their personal data (a.o. art. 12). This usually happens via a privacy notice or information letter. This right does not apply if your research will be seriously harmed by meeting it and if you haven't obtained the personal data from the data subjects themselves.

Right of access Data subjects have the right to access a copy of the personal data you have of them and to know what you are doing with that personal data and why (art. 15).

Right to rectification Data subjects have the right to correct and complement the personal data that you have of them (art. 16).

Right to erasure/Right to be forgotten Data subjects have the right to have their personal data removed (i.e., equivalent to the right to withdraw consent, art. 17). This right does **not** need to be granted if:

the personal data are published about and need to be archived for validation purposes

it would seriously obstruct the research purpose(s)

it would hinder complying with a legal obligation or carrying out a task in the public interest

If the personal data have already been made public or shared, you need to take reasonable measures to inform other users of the data of the erasure request. A privacy officer can help you with this.

Right to restriction of processing: Data subjects have the right to have you process less of their personal data (art. 18), for example if their personal data are inaccurate or your processing of it is unlawful or no longer needed.

Right to data portability: Data subjects have the right to have their personal data transferred to another party (art. 20).

Right to object: Data subjects have the right to object to what you are doing with their personal data. This right applies when the processing is based on legitimate or public interest (art. 21). In case of objection, you have to stop your processing activities, unless you can demonstrate grounds for overriding the data subject's rights.

0.4.2.1 How can data subjects exercise their rights?

Data subjects need to be **informed** about their rights and who to contact to exercise them, including when you use a legal basis other than informed consent. In research, this is usually done via a privacy notice or information letter, which states a contact person responsible for handling questions and requests.

Incoming requests need to be **coordinated with a privacy officer**, so that they can be picked up in accordance with the GDPR. Additionally, at Utrecht

University, data subjects can always contact privacy@uu.nl (the Data Protection Officer) for requests or complaints.

0.4.2.2 What to do when receiving a request concerning data subjects' rights?

You have to provide a substantive response to the data subject **within 30 days**, in the same way as you received the request. Depending on the complexity and number of requests, the response period may be extended by 2 months. In that case, you must inform the data subject about this extension (including the motivation) within one month. If needed, you can (and sometimes should) ask for additional information to confirm the data subject's identity.

For granting requests about data subjects' rights, there should be a procedure in place, in which you should at least consider:

- how you are going to retrieve the data (e.g., using a name-number key)
- who is responsible for granting the request and informing the data subject about it (e.g., a data manager)
- how the request is going to be granted, for example how they will be sent securely (access, portability), removed (forgotten, object, restriction) or corrected (rectification)

For larger projects, it may be wise to put a Standard Operating Practice in place (example will be added).

0.4.2.3 What if the data have already been anonymised?

The principles of data minimisation and storage limitation are considered more important than keeping personal data just for the sake of identification (art. 11). Therefore, when receiving a request about anonymised data, you can make clear that you cannot retrieve the data subject's personal data, because they have been anonymised. In this case, **the data subject cannot exercise their rights anymore**. If you can still retrieve the data subject's personal data in some way (i.e., when data are pseudonymised), you are **obliged to retrieve them**. In order to do so, you can (and sometimes should) ask for additional information that can confirm the data subject's identity.

Chapter 1

Privacy & Security Assessment

Legal Documents & Agreements

Privacy Notices

Informed Consent Forms

Legitimate Interest Assessment

1.1 Data Use Agreement/Confidentiality Agreement/Non-Disclosure Agreement

Data Transfer Agreement

1.2 Consortium Agreement and/or Joint Controller Agreement

Data Processing Agreement

Part II

Techniques & Tools

Chapter 2

Privacy-Enhancing Techniques in Working With Personal Data

2.1 Anonymization

2.2 Pseudonymization

2.3 Encryption

2.4 Synthetic Data

2.5 Federated Analysis

Chapter 3

Tools & Services

3.1 `tools.uu.nl`

3.2 Survey Tools

3.3 Transcription Tools

Part III

Storage, Sharing, Publication

Chapter 4

Data Storage

4.1 Network Drives

4.2 Cloud Drives

4.3 Hard Drives

Chapter 5

Data Sharing

5.1 Can I Share Personal Data?

5.2 Third Country Transfers

5.3 Data Access Protocols

5.4 Data Points/Virtual Research Environments

Chapter 6

Data Publishing

6.1 Publishing Personal Data

6.2 Data vs. Metadata

6.3 Repositories

6.4 Licenses

Chapter 7

(PART) Use Cases

Chapter 8

Publishing metadata

Chapter 9

Data pseudonymisation

Chapter 10

Data minimisation in a survey

The glossary consists of frequently used jargon concerning the GDPR and research data.

10.0.0.1 A

Anonymous data

Any data where an individual is irreversibly de-identified, both directly (e.g., through names and email addresses) and indirectly. The latter means that you cannot identify someone:

by combining variables or datasets (e.g., a combination of date of birth, gender and birthplace, or the combination of a dataset with its name-number key)

via inference, i.e., when you can deduce who the data are about (e.g., when profession is Dutch prime minister, it is clear who the data is about)

by singling out a single subject, such as through unique data points (e.g., someone who is 210 cm tall is relatively easy to identify)

Anonymous data are no longer personal data and thus not subject to GDPR compliance. In practice, anonymous data may be difficult to attain and care must be given that the data legitimately cannot be traced to an individual in any way. The document Opinion 05/2014 on Anonymisation Techniques explains the criteria that must be met for data to be considered anonymous.

10.0.0.2 C

Controller

The natural or legal entity that, alone or with others, determines or has an influence on why and how personal data are processed. On an organisational level, Utrecht University (UU) is the controller of personal data collected by UU researchers and will be held responsible in case of GDPR infringement. On a practical level, however, researchers (e.g., Principal Investigators) often determine why and how data are processed, and are thus fulfilling the role of controller themselves.

10.0.0.3 D

Data subject

A living individual who can be identified directly or indirectly through personal data. In a research setting, this would be the individual whose personal data is being processed (see below for the definition of processing).

10.0.0.4 E

European Economic Area (EEA)

The member states of the European Union and Iceland, Liechtenstein, and Norway. In total, the EEA now consists of 30 countries. The aim of the EEA is to enable the “free movement of goods, people, services and capital” between countries, and this includes (personal) data (source: Eurostat).

10.0.0.5 L

Legal basis

Any processing of personal data should have a valid legal basis. Without it, you are now allowed to process personal data at all. The GDPR provides 6 legal bases: consent, legitimate interest, public interest, legal obligation, performance of a contract, vital interest. Consent and public and legitimate interest are most often used in a research context.

10.0.0.6 P

Personal data

Any information related to an identified or identifiable (living) natural person, for example identifiers (name, identification number, location data, online identifier or a combination of identifiers) or factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of the person. Moreover, IP address, opinions, tweets, answers to questionnaires, etc. may also be personal data, either by itself or through a combination of one another.

Of note: as soon as you process data related to a person that is identifiable, you are processing personal data. Additionally, pseudonymised data is still considered personal data. Read more in [Designing a GDPR-compliant research project](#).

Processing

Any operation performed on personal data, including collection, storage, organisation, alteration, analysis, transcription, sharing, publishing, deletion, etc.

Processor

A natural or legal entity that processes personal data on behalf of the controller. For example, when using a cloud transcription service, you often need to send personal data (e.g., an audio recording) to the transcription service for the purpose of your research, which is then fulfilling the role of processor. When using such a third party, you must have a data processing agreement in place.

Pseudonymous data

Personal data that cannot lead to identification without additional information, such as a key file linking pseudonyms to names. This additional information should be kept separately and securely and makes for deidentification that is reversible. Data are sometimes pseudonymised by replacing direct identifiers (e.g., names) with a participant code (e.g., number). However, this may not always suffice, as sometimes it is still possible to identify participants indirectly (e.g., through linkage, inference or singling out). Importantly, pseudonymous data are still personal data and therefore must be handled in accordance with the GDPR.

10.0.0.7 S

Special categories of personal data

Any information pertaining to the data subject which reveals any of the below categories:

racial or ethnic origin

political opinions

religious or philosophical beliefs

trade union membership

genetic and biometric data when meant to uniquely identify someone

physical or mental health conditions

an individual's sex life or sexual orientation

The processing of these categories of data is prohibited, unless one of the exceptions of art. 9 applies. For example, an exception applies when:

```
<ul>
  <li>the data subject has provided explicit consent to process these data for a spe
  <li>the data subject has made the data publicly available themselves </li>
  <li>processing is necessary for scientific archiving purposes</li>
</ul><p>Contact
your <a href="https://intranet.uu.nl/en/knowledgebase/contact-privacy" target="_blank"
if you wish to process special categories of personal data.</p>
```