

10 things to know about academic Research & GDPR

ADS Doctoral days 19 March 2026



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Introduction

What is GDPR and why is it important?

What is the role of the University of Antwerp?

GDPR and scientific research

Role of every employee/researcher

Q&A

More detailed information to read

5. Principles of GDPR

6. Rights of the data subject

7. Important definitions

In a nutshell

1

Who am I ? Who are we?

- **Data Protection and AI Officer**
 - Koen Pepermans



Jeroen Van den Bergh
staff member

Governance structure

Advisory Board Privacy & Information Security UAntwerp

→ privacy policy preparation & information security issues

HUMAN INTEREST

Sociaal wetenschapper Koen Pepermans: 'Menselijk gedrag laat zich nooit in cijfers alleen vatten'

- Research and teaching assistant statistics & methods of social sciences 1995-2002
- Faculty director, Faculty of Social Sciences from 2002 - 2025
- Advisor on information security research UAntwerp since 2008
- Data Protection Officer and Head of Process Management and Privacy Office since april 2018
- AI Officer since October 2025
- Chair of working group GDPR at Flemish level (VLIR)

Involved in different research projects/publications on and off where possible.

Questions about GDPR?

privacy@uantwerpen.be

hesk.uantwerpen.be/privacy (helpdesk and FAQ)

www.uantwerpen.be/disclaimer

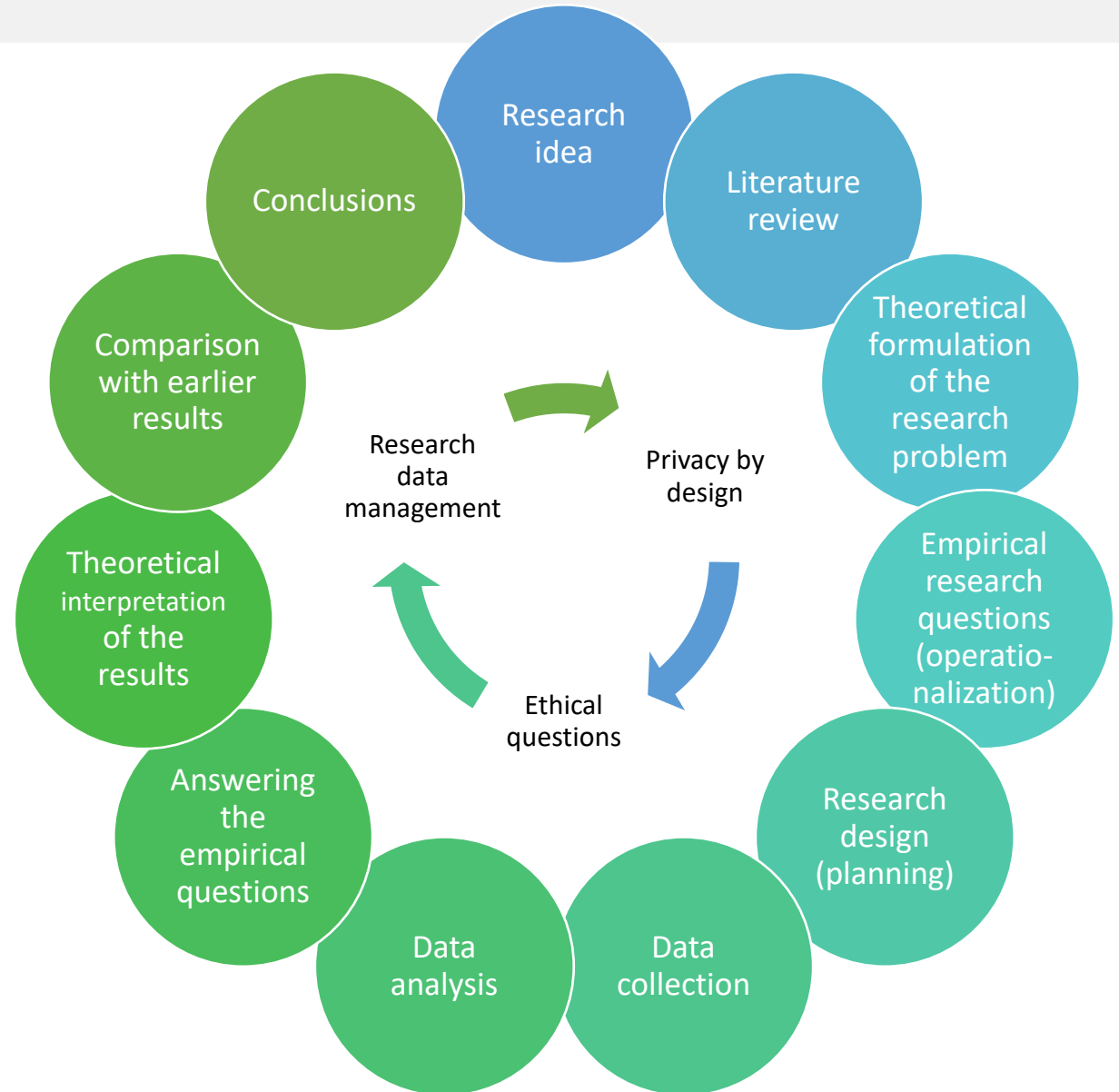
→ [More information on the Pintra website](https://www.pintra.be/)

→ FAQ about GDPR and scientific research (in Dutch and English)

→ <https://mindthegap.vlir.be/>

Some Yes/no questions for you

1. Do you feel you know what personal data are?
2. Are you or the colleagues using or planning to use personal data in the research?
3. Which kind of personal data will be used?
4. Do you know which steps you and colleagues have to take when using personal data?
5. Have you discussed this aspect with the promotor(s) or other researchers?



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Personal data

- a name and surname;
- a home address;
- an email address such as name.surname@company.com;
- an identification card number;
- location data (for example the location data function on a mobile phone);
- an Internet Protocol (IP) address;
- a cookie ID;
- the advertising identifier of your phone;
- data held by a hospital or doctor, which could be a symbol that uniquely identifies a person;
- Biometric identifiers (fingerprint, iris scan, face recognition, ...)
- ...

But also ...

“If, by looking solely at the information you are processing you can distinguish an individual from other individuals, that individual will be identified (or identifiable).”

Source: *What is personal data?* (2021). ICO. <https://ico.org.uk/for-organisations/guide-to-data-protection/guide-to-the-general-data-protection-regulation-gdpr/key-definitions/what-is-personal-data/>

Personal data are described as all information about natural persons based on which they can be identified.

Sensitive personal data are described as particularly sensitive and therefore needs stronger protection, this also includes genetic and biometric data.

Pseudonymized personal data are personal data (whether sensitive) that can only be linked to an identified or identifiable person by means of a non-public key. Pseudonymized personal data remains personal data protected by the GDPR.

Anonymous data are data which do not concern an identified or identifiable natural person. Also, personal data which are anonymised in such a way that the data subject is not identifiable (by all reasonable means) because the possibility for identification has been made **irreversible** by means of a processing technique.

Some examples of research with personal data

Example	Legal Basis	Participant Information	Informed Consent	Secure Storage	Retention Period
Interview study on work stress among teachers	Public interest or consent	Information letter + verbal explanation	Written, for participation and data processing	Encrypted audio files, pseudonymized transcripts	Min. 5 years after publication
Online survey on social media use among youth	Consent	Privacy statement on first survey page	Digital checkbox with timestamp	Encrypted cloud environment	Until analysis is complete, then anonymized
Classroom observation study	Public interest	Via school + public privacy statement	Written if possible, otherwise via ethics committee	Encrypted video recordings	Max. 5 years
Reuse of government survey data	Public or legitimate interest	Via original institution	Not required if data is anonymized	Local storage with access control	Contractual, often 10 years
Focus groups on migration experiences	Consent	Verbal + written, culturally sensitive	Written or verbal	Pseudonymization + encrypted key file	5 years after publication
Longitudinal study on health and well-being	Consent (health data)	Detailed information letter + DPO contact	Written, revocable	Encrypted + restricted access	Up to 10 years
Clinical trial on new diabetes medication	Explicit written consent	Standardized informed consent form (ICF)	Written, per BAREC guidelines	Certified platform with audit logging	Min. 25 years
Retrospective study on COVID-19 hospital records	Public interest	Privacy statement	Not needed if data is pseudonymized	Secure hospital environment	30–50 years
Mental health study in adolescents with chronic illness	Consent (minor + parent)	Age-appropriate brochures	Written	Encrypted + separate key file	Min. 5 years
Reuse of biobank data for genetic research	Broad consent or public interest	Via biobank documentation	New consent if reuse exceeds original scope	ISO-certified infrastructure	Up to 50 years

3 What is the General Data Protection Regulation?

The *General Data Protection Regulation* aka GDPR (and *Algemene Verordening Gegevensbescherming* or AVG in Dutch) is the regulation that creates the framework for the data protection of personal data.

Why did we need a new set of rules in the EU?

- Fragmentation and legal uncertainty
- The perception that the online world creates significant risks for the protection of individuals
- Different rules limit economic growth
- Different implementations disturb and skew the common market

→ *cause: difference in implementation and use of the directive 95/46/EG*

The member states must screen and adapt national law for potential conflicts, terminology issues and double law rules with GDPR. They also must create new law for creating the necessary control bodies and for some specific domains where they have the opportunity to interpret the GDPR (f.e. scientific research, press, etc.)

→ The Belgian law was adopted July 2018.

Digital EU agenda: connected regulations, directives and acts

The General Data Protection Regulation (GDPR)

the Data Protection Law Enforcement Directive and other rules concerning the protection of personal data.

https://commission.europa.eu/law/law-topic/data-protection/data-protection-eu_en

The Digital Markets Act

the EU's law to make the markets in the digital sector fairer and more contestable

https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/europe-fit-digital-age/digital-markets-act-ensuring-fair-and-open-digital-markets_en

The Digital Services Act

Ensuring a safe and accountable online environment

https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/europe-fit-digital-age/digital-services-act_en



The NIS2 Directive

A high common level of cybersecurity in the EU

[https://www.europarl.europa.eu/thinktank/en/document/EPRS_BRI\(2021\)689333](https://www.europarl.europa.eu/thinktank/en/document/EPRS_BRI(2021)689333)

ePrivacy?

European data governance (Data Governance Act)

The Directive on open data and the re-use of public sector information provides common rules for a European market for government-held data.

<https://digital-strategy.ec.europa.eu/en/policies/data-governance-act>

Artificial Intelligence Act

deal on comprehensive rules for trustworthy AI

<https://www.europarl.europa.eu/news/en/press-room/20231206IPR15699/artificial-intelligence-act-deal-on-comprehensive-rules-for-trustworthy-ai>

... in combination with other EU/Flemish/Belgian legislation

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Why is it important to comply with GDPR as a researcher?

Good and ethical handling of data increases the **quality and reliability** of the research and the research results

More and more questions about compliance when submitting a **publication**

A violation of the legal rules can lead to **reputational damage** and negative media attention to the university, your faculty, discipline or research group

Good and ethical handling of data can increase the **confidence of citizens** and research objects in science and the university

Obligation imposed by Flemish and Belgian authorities and funding agencies/clients (e.g. Horizon 2020, ERC, FWO, BOF, ...)

A violation of the legal rules can result in **finances** that can amount to 20 million euros for the organization

Meeting the requirements for processing of personal data in administration and research is important for several reasons.

If primary data are collected correctly, this also gives **legal certainty** to use these as secondary data in further analyses

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General principles of GDPR




**LAWFULNESS
& FAIRNESS OF
PROCESSING**

Data subjects must give consent and be informed of how their data will be processed, and processing activities must align with how they are described.




**PURPOSE &
INTENT OF
PROCESSING**

Personal data can only be obtained for "specified, explicit and legitimate processing purposes" the subject has been made aware of and no other, without further consent.




**DATA
MINIMIZATION**

Data collected on a subject should be limited to what is necessary in relation to the purposes for which it is processed.



**ACCURACY
& UP TO DATE**

It is now the obligation of the data controller to ensure (to the best of their abilities) that the information collected is correct and current.



**RETENTION
LIMITATIONS**

All personal information must now have an expiration date applied appropriate to its collected purpose, after which it must cease to be available.



SECURITY

Processors must handle data to ensure appropriate security, including protection against unlawful processing, accidental loss, destruction or damage.

Illustration from www.aprio.cm

Internally

- **Inform** and raise awareness
- Review and **control** of processing activities.
- **Ensure** information security measures.
- **Document** measures.
- Procedure to act quickly in case of a **data breach**
- Procedure to **guarantee** the rights of data subjects

Working together

- Representation at the Flemish Inter-University Council (VLIR) level (working group GDPR)
- Common solutions for the academic sector
 - FAQ for the researcher
 - Common questions in the register
 - Possible charters and/or codes of conduct for scientific research
- Lobby-ing
- Within YUFE/Yerun (our academic networks)

Role of the University of Antwerp (2)

Data processing register for academic research

- Separate data processing register for academic research at the UAntwerp via **Antigoon** (the UA research database)
- For every new research project processing personal data
 - *The same questionnaire is used by the 5 Flemish universities (engagement at VLIR level)*
 - *The questionnaire also contains a brief risk analysis that indicates whether a full Data Protection Impact Assessment will have to be done*

Looking for assistance?

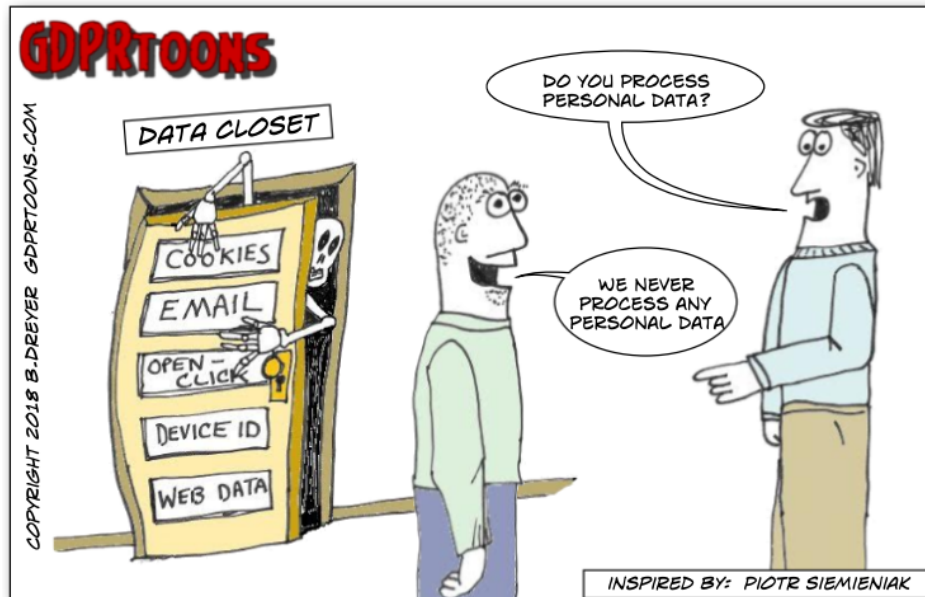
- DPO together with the Department of Research, Innovation & Valorisation Antwerp (RIVA) and the Legal Services provides general information via Pintra-subsites and helpdesk
- Specific questions?
 - Need a Data Processing Agreement (contract)
 - A declaration by the DPO for the funding agency
 - A protocol for Flemish data
 - Advice on consent form
 - Advice on good practices
 - Other questions?



privacy@uantwerpen.be

Role of the researcher (aided by the experts)

- As a researcher you are obliged to work within the guidelines and procedures of the university
- The researcher has to follow the appropriate security measures and take part in protecting the (research) data.
- Questions from respondents (if applicable) have to be responded to (in cooperation with the promotor and data protection officer).
- The researcher has to be aware of the correct practices when using personal data



Questions to ask regarding research: part I

Will I be using personal data? And do I need to?	Yes, no, not sure
What type of personal data?	Regular personal data Sensitive personal data
Will I use existing data or collect my own?	Primary data Secondary data
How will I or our team collect or have access to these data?	Observation, survey, interview, experiment, statistical data (Kruispuntbank, Statbel, RIZIV), company HR-data, (existing) medical files, ...
If secondary data, does my research fall within the information provided to the data subjects?	Yes, no, not sure
Is my research subjected to other regulations or rules?	f.e. Clinical trials, dual use, ...
Do I have to subject my research (proposal) to an ethics screening?	In principle always when using personal data. Ethics Committee for Social Sciences & Humanities (EA SHW) Will the research involve human participants taking part in surveys, interviews, observation studies,...? Committee for Medical Ethics UZA-UAntwerp (CME) Will experiments be conducted on humans and/or human samples in the research?
Which legal basis is appropriate?	Informed consent Public interest Contractual (?)

Questions to ask regarding research: part II

How do I limit the risks for the participants?	Small N-analysis Encryption in rest Strict limits on access
Have I documented who needs access to the data?	At what level? All the data or a subset
Have I split the personal data from the research data where possible?	Best practice to separate personal identifiers from the earliest possible time from the research data (if possible) Pseudonomisation
What are the risks for my participants if there is a data breach?	By taking the previous steps this can be mitigated
Where do I store my data?	Use the standard tools provided by the university (Sharepoint/UA Network drives) and not free storage (f.e; Google Drive, free Dropbox)
Can my data be used for secondary analysis?	This depends on the information provided during the collection of the primary data.
How long will I need to keep the (personal) data?	The advice is in principle a maximum of 10 years
Will I collaborate with other partners?	Within the EU/EEA or outside? Need for Data Sharing Agreements etc.

→ More information in the FAQ GDPR for researchers (see helpdesk Privacy)

GDPR and scientific research (2)

Role of the promotor

- As a promotor they are obliged to work within the guidelines and procedures of the university
- The promotor has to ensure that the information in the register in Antigoon is accurate and up-to-date.
- The promotor has to ensure that the appropriate security measures are taken and documented to protect the (research) data.
- Questions from respondents (if applicable) have to be responded to (in cooperation with the data protection officer).
- The promotor has to inform the researchers of the correct practices when using personal data

→ FAQ for researchers about GDPR compiled by VLIR workgroup GDPR available (Pintra and helpdesk)



What can I do? Part I



- Educate yourself: information is available internally and online: Be aware of the importance of using the personal data for the purpose it was collected when using the different systems
- **Be (a bit) paranoid!** If you get an email, call or text message unexpectedly be careful
- Create a safe physical and digital working environment
- Lock your office & lock your screen
- Think before sharing data (keep access to personal data limited to collaborators with a role in the processing of data)
- Know and follow guidelines (GDPR, RDM, dual use, clinical trials, scientific integrity)



- Use the standard tools and software as much as possible provided by your university
- When using other software, use paid licences and check with colleagues, your IT department, DPO and/or research department
- Use the personal and shared file servers of your organisation (they normally come with backup and snapshots)
- Update your devices (laptop but also smartphone, tablet, smart devices)



What can I do? Part II



Report every
incident or data
breach!



- Encrypt your data in rest (f.e. Veracrypt, Bitlocker)
- Encrypt your laptop, computer or USB-stick/disk
- **Send only encrypted data (f.e. Belnet Filesender) and not via e-mail**
- Use VPN when working on an external network (f.e. airport WIFI)
- If you export data to local files for specific tasks, do not keep them unnecessary



- Use different and long passwords for every application/website (with a password-manager)
- Use Multi Factor Authentication where possible (obligation at Uantwerp)
- Don't share passwords



- Make & test backups (and a backup of your backup)
- Data minimization: try to limit the data you use to what you really need
- Use pseudonomized data in your analysis as soon as possible



- Inform participants transparently
- Be open about your goals
- Use a Research Data Management Plan
- View the questions from ethics committees and DPO's as an opportunity to reflect not as a burden



Tip: how to achieve FAIR data and good Research Data Management

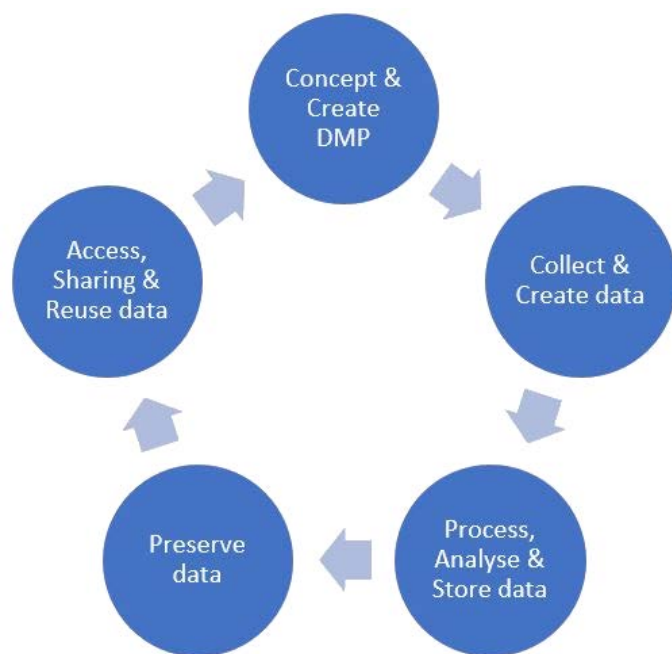
<https://youtu.be/0-bSV4dieMI?si=jn8Kg8YsTigsIJ56>

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What is the link with Research Data Management?

The Research Data Management (RDM) includes all steps of the 'Research Data Life Cycle': **planning, creation, processing, analysis, storage, preservation, access, sharing and reuse**. All these steps are bound by conditions and regulations at both legal, ethical and technological levels.

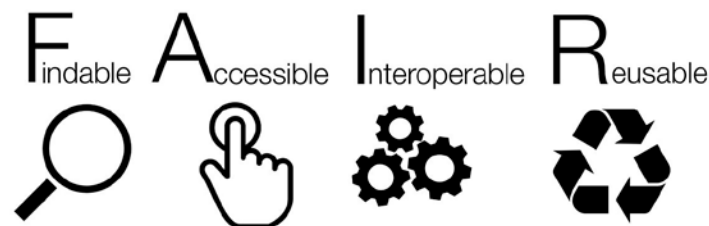
Pintra → Start > Mijn Subsites > Department of Research Affairs & Innovation > Publishing & Data > Research Data Management



The Research Data Life Cycle

Compliance with GDPR, together with research integrity, is one of the most important parts of this cycle when using/processing personal data.

In **Data Management Plans** questions regarding the use of personal data are standard.
See also dmponline.be

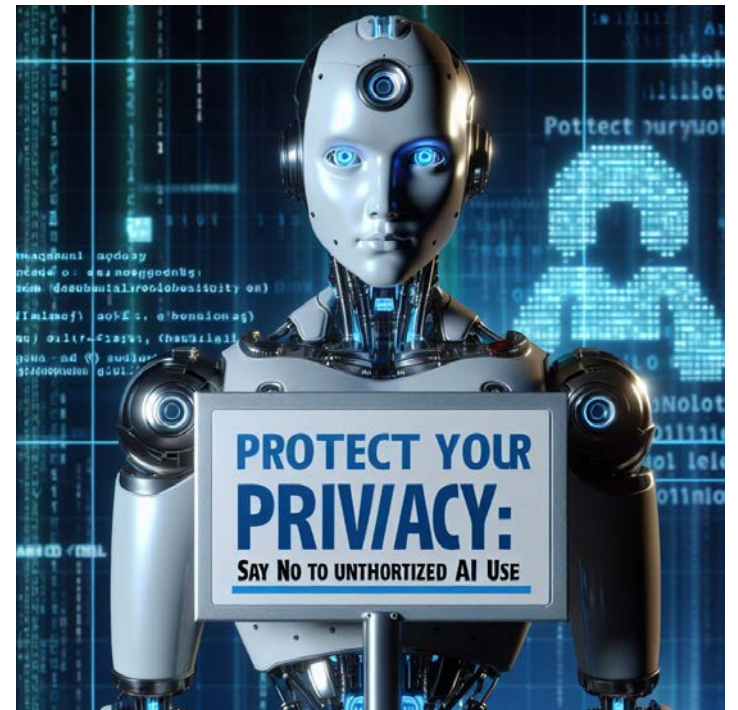


Some specific points

- **When using existing or secondary data (Statbel, CBS, Kruispuntbank, SILC, ...)**
 - In the agreements there will always be a appendix about security measures. Important to check with DPO and ICT (security officer) if this is feasible if it is a new data provider
 - These data cannot be shared with other researchers within the research group with no link to the project
- **Important to separate access to data based on the different projects and the connected researchers**
 - When sharing data always check if this is within the agreement and with the same safeguards

What about AI?

- The use of AI in social research involves handling sensitive personal data, posing significant privacy and security risks. Unauthorized access or breaches can result in the exposure of private information, raising ethical and legal concerns.
- It is not allowed to use personal and confidential data in free AI applications and even when using a paid version, you have to check the conditions.
- It can be a very useful tool for code and brainstorming about data models but the AI algorithms are (for the most part) black boxes.
- **At the university we advise in first instance to look at Microsoft Copilot as this is part of our licence. (Uses GPT4 and GPT5 models)**





The following slides give a more detailed overview of the different aspects of GDPR.

These are provided to read if you are interested in more examples and definitions.

5. General principles of GDPR




LAWFULNESS & FAIRNESS OF PROCESSING

Data subjects must give consent and be informed of how their data will be processed, and processing activities must align with how they are described.




PURPOSE & INTENT OF PROCESSING

Personal data can only be obtained for "specified, explicit and legitimate processing purposes" the subject has been made aware of and no other, without further consent.




DATA MINIMIZATION

Data collected on a subject should be limited to what is necessary in relation to the purposes for which it is processed.




ACCURACY & UP TO DATE

It is now the obligation of the data controller to ensure (to the best of their abilities) that the information collected is correct and current.



RETENTION LIMITATIONS

All personal information must now have an expiration date applied appropriate to its collected purpose, after which it must cease to be available.



SECURITY

Processors must handle data to ensure appropriate security, including protection against unlawful processing, accidental loss, destruction or damage.

Illustration from www.aprio.cm

5. General principles of GDPR

a) Lawfulness & fairness of processing

Are my data subjects adequately informed?

- Data subjects must always be adequately informed in clear language what the purpose of the data collection is.
- This obligation needs always to be met.
- Pro-active
- Privacy statement!
- **(Informed) consent**

5. General principles of GDPR

b) Purpose & Intent of processing

On what basis can I process/use these personal data?

- Contractual basis
 - Legal obligation
 - **Public task/interest**
 - A vital interest
 - Legitimate interests
 - **Unambiguous consent**
- Contractuele basis
 - Wettelijke verplichting
 - Algemeen belang
 - Vitaal belang
 - Gerechtvaardigd belang
 - Ondubbelzinnige toestemming

Often this means using **informed consent** as the main basis of data processing. There is a discussion if Flemish universities are considered public authorities which could mean that **public interest** is the main basis.

5. General principles of GDPR

c) Data minimization



Data collected on a subject should be limited to what is necessary in relation to the purposes for which it is processed.

- *Is it necessary to process this amount of data in my project in order to achieve my goal?*
- Adequate – sufficient to properly fulfil the state purpose of processing
- Relevant – has a rational link to that purpose
- Limited to what is necessary – you do not hold more than you need for that purpose
- Best to worst data type - Anonymous > Pseudonymous > Personal data

5. General principles of GDPR

d) Accuracy & Up To Date



ACCURACY
& UP TO DATE

It is now the obligation of the data controller to ensure (to the best of their abilities) that the information collected is correct and current.

- *Is all the collected data correct?*
- Is all the data collected up to date?
 - Depends on what you are using it for
- Is all the data accessible by those who need it?
- Data subjects should have the right to correct their data
 - Depends on what you are using it for





All personal information must now have an expiration date applied appropriate to its collected purpose, after which it must cease to be available.

5. General principles of GDPR

e) Retention Limitation

- *Should we store all these data?*
- If you no longer need the data delete it and/or anonymize it
- If you keep data for longer than necessary, use security safeguards to protect the data
- Exception on research data for secondary use
- Data subjects have a right to erasure (if possible)



What about the FAIR principles? Findable Accessible Interoperable Reusable data
→ *Try to take this into account in the research design*

5. General principles of GDPR

f) Security

*Have enough measures been taken to protect the **integrity** and **confidentiality** of personal data?*

*→ **privacy by design***

- Organizational measures
 - Agreements on processing
 - Limitations of information
- Technical measures
 - ICT, user policy, network security
 - Secure use of computers
 - Logging
- Legal measures
 - Contracts
 - Privacy policy



SECURITY

Processors must handle data to ensure appropriate security, including protection against unlawful processing, accidental loss, destruction or damage.



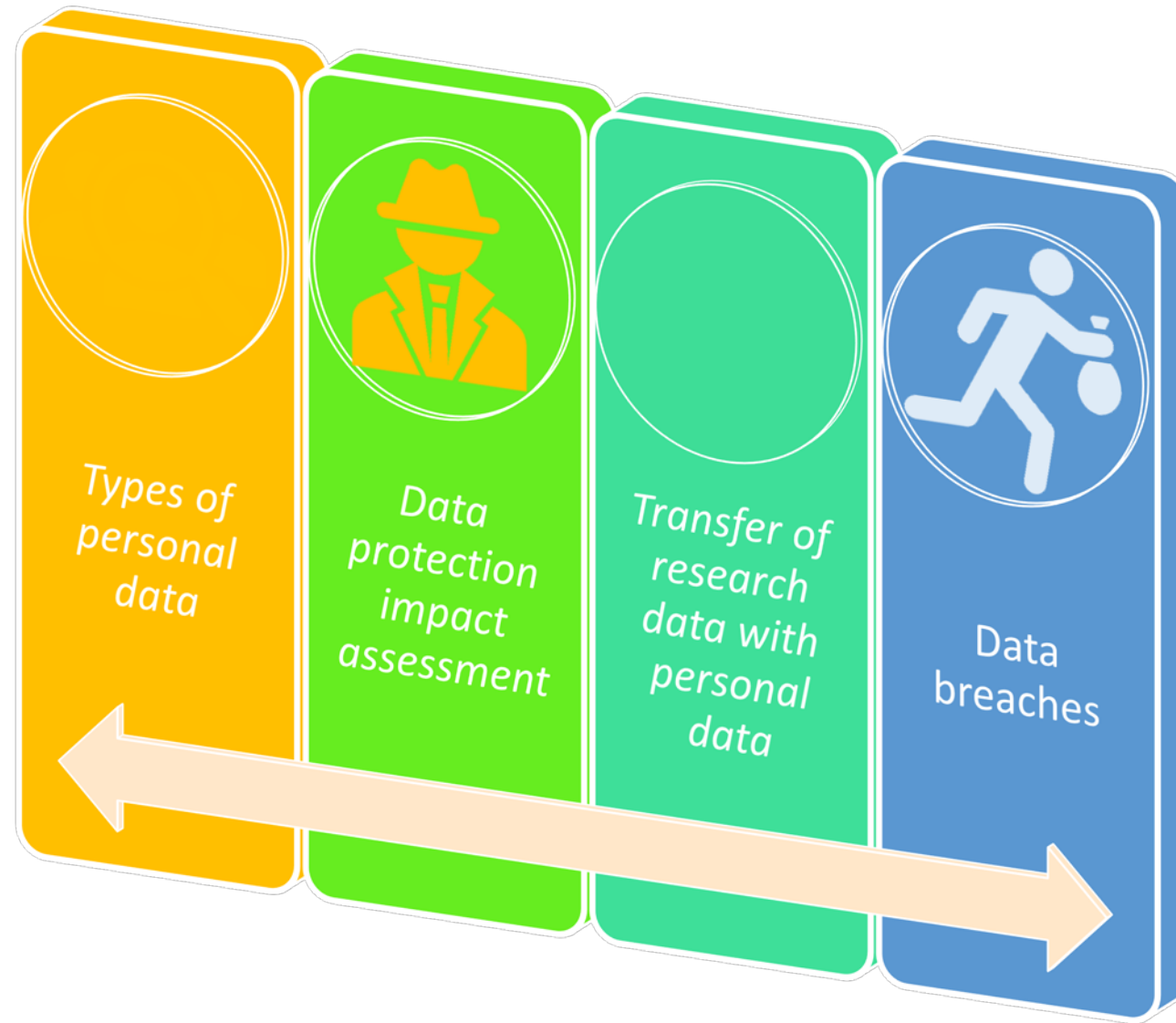
Importance of information security: campaign together with ICT and Process management and privacy office

6. Rights of the data subject

Are the rights of the person concerned sufficiently guaranteed?

- Right of access
- Right to rectification
- Right to erasure (or right to be forgotten)
- Right to restriction of processing
- Right to be informed
- Right to data portability
- Right to object to processing activities
- Right not to be subject to a decision based solely on automated processing, including profiling

7. Important definitions



7. Important definitions

a) Types of personal data

Types of personal data

Personal data are described as all information about natural persons based on which they can be identified. In addition to data with obvious 'identification data', such as name and date of birth, location and online data that are unique to a person (such as an IP address).

Sensitive personal data are described as particularly sensitive and therefore needs stronger protection, this also includes genetic and biometric data. Processing of sensitive personal data is as a rule prohibited but there are exceptions when there is a strong lawful ground for the processing of the data.

Data containing information about race, ethnic origin, political views, religious or philosophical beliefs, trade union membership, genetic data, biometric data, health data, data about a person's sexual behavior or sexual focus. If this information becomes publicly available (eg as a result of a data breach), this can have very adverse consequences for those involved.

Pseudonymized personal data (formerly referred to as 'coded data') are personal data (whether sensitive) that can only be linked to an identified or identifiable person by means of a non-public key. Pseudonymized personal data remains personal data protected by the GDPR.



7. Important definitions

b) Data Protection Impact Assessment

A **data protection impact assessment** (DPIA,
Gegevensbeschermingseffectbeoordeling of GEB in Dutch)

You must do a DPIA for processing that is **likely to result in a high risk** to individuals.

It is also good practice to do a DPIA for any other major project which requires the processing of personal data.

Your DPIA must:

- describe the nature, scope, context and purposes of the processing;
- assess necessity, proportionality and compliance measures;
- identify and assess risks to individuals; and
- identify any additional measures to mitigate those risks.



To assess the level of risk, you must consider both the likelihood and the severity of any impact on individuals. High risk could result from either a high probability of some harm, or a lower possibility of serious harm.

→ **Idea to add this to the register by default**

7. Important definitions

c) Transfer of research data with personal data

EU data protection rules apply to the European Economic Area (EEA), which includes all EU countries and non-EU countries Iceland, Liechtenstein and Norway. (On 28 June 2021, the European Commission announced that it had adopted an adequacy decision in respect of the UK's post-Brexit data protection regime.)

When personal data is transferred outside the European Economic Area, special safeguards are foreseen to ensure that the protection travels with the data.

The GDPR offers a diversified toolkit of mechanisms to transfer data to third countries:

- adequacy decisions (countries accepted as having a similar level of protection)
- standard contractual rules
- binding corporate rules
- certification mechanism (as accepted by certification bodies accredited on the national or European level)
- codes of conduct
- so-called "derogations" (specific exceptions provided in law)



→ Best practice is to include specific clauses in every contract with a partner university by default



7. Important definitions

d) Data breaches

A personal data breach means a breach of security leading to the accidental or unlawful destruction, loss, alteration, unauthorized disclosure of, or access to, personal data. This includes breaches that are the result of both accidental and deliberate causes. It also means that a breach is more than just about losing personal data.

- If you become aware of a data breach (either yourself or by a communication from a third party), immediately inform the Data Protection Office via form, phone or e-mail > privacy@uantwerpen.be and also send a mail to abuse@uantwerpen.be for the IT-department
- If the breach is still ongoing, take appropriate measures (f.e. disconnect a server from the internet, move files to a secure location, change password of application)
- Every breach has to be registered at the university
- In case of a serious breach the Data Protection Authority (the former privacy commission) has to be notified **within 72 hours**



In a nutshell



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