



General Data Protection Regulation

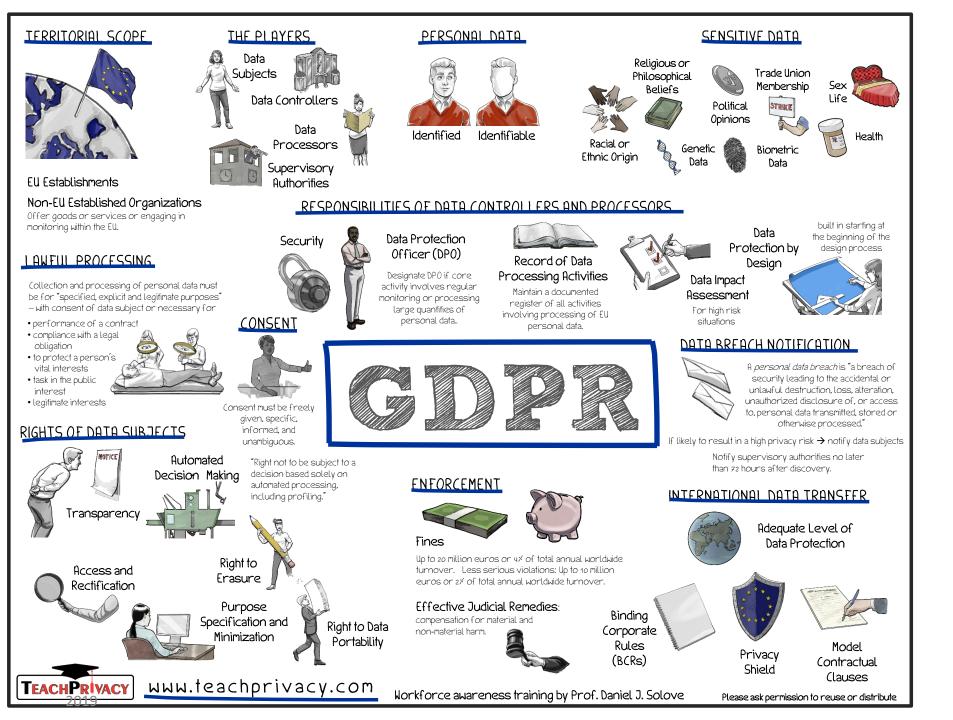
Nataliia Bielova

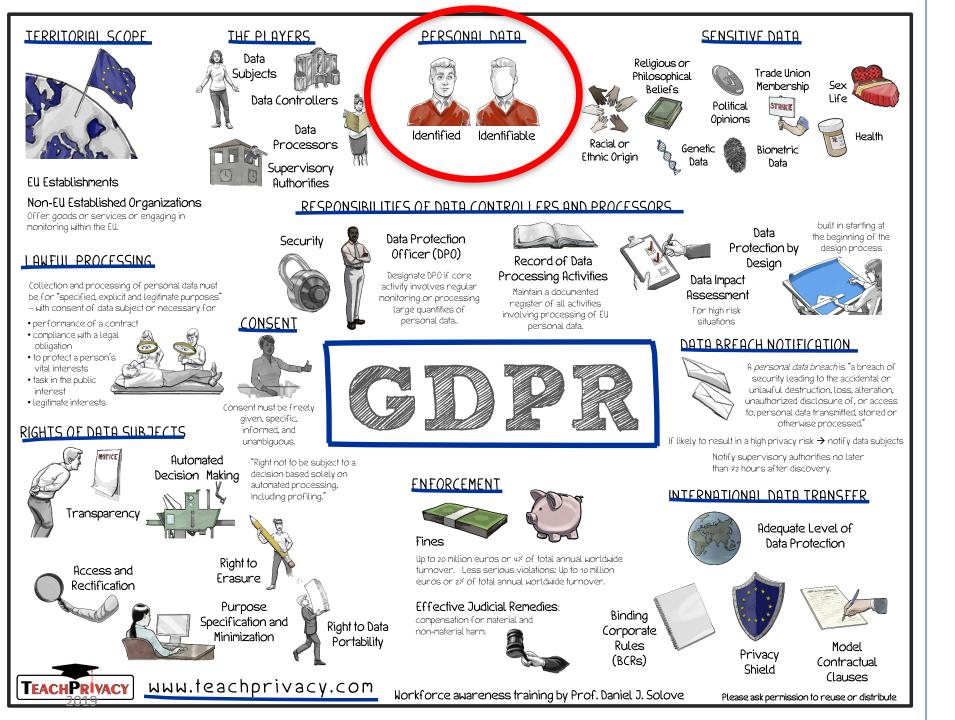
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Security and ethical aspects of data Université Cote d'Azur

GENERAL DATA PROTECTION REGULATION









PERSONAL DATA

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Art. 4 GDPR **Definitions**

'personal data' means any information relating to an identified or identifiable natural person ('data subject'); an identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person;

https://gdpr-info.eu/art-4-gdpr/











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ANY INFORMATION

Objective (earns 10k per year); Subjective (opinion); and, Sensitive data (gay woman).

RELATING TO An individual, about a particular person, impacts a specific person.

IDENTIFIED OR IDENTIFIABLE

Direct or indirectly e.g. You know me by name, direct, you know me as "a Lawyer doing these graphics", indirect.

NATURAL PERSON

applies ONLY to a living human being. National Law may give rules for deceased persons.

ONLINE IDENTIFIER & LOCATION DATA

Include data provided by the electronic devices we use: mobiles, cookies identifiers, IP address, others.

TO ONE OR MORE FACTORS

Include data that when combined with unique identifiers and other info create a profile and identify a person.



1. Any information can be personal data



- Any information can fall under personal data **regardless** of its **nature, content, or format:**
 - Nature: true or inaccurate, objective and subjective (including opinions and assessments) [Nowak, 2017]
 - **Content**: not strict to private or family life, and could concern an individual's professional life, and other capacities
 - Format: alphabetical, numerical, graphical, photographical or acoustic, kept on paper or stored in a computer memory as a binary code, structured or unstructured, video and voice recording, as well as a child's drawing that could contain personal data of both the child and the parents





2. Relating to

- Any information can "relate" to a person in 3 conditions: content, purpose, or result (not cumulative)
 - **1. Content:** facts **about** that person's identity, characteristics or behaviour [YS and others, 2016]

eg. medical, criminal, professional, sporting achievements record; personal bank statements; itemised telephone bills

2. Purpose: when data are used, or *are likely to be used*, with the purpose to evaluate, treat in a certain way, influence the status or behaviour of an individual, make a **decision** about him

eg. a person carried unauthorized alterations to their house. The data about the unauthorized alterations is processed by reference to the house address. If this data is processed in order to decide whether to prosecute the house owner, the data relates to him

3. Result/Impact: when its use is likely to have an impact on a person's **rights and interests'**

eg. different treatment; intended or accidental/ unpredictable (ML algorithms and data analytics) eg. information recorded to monitor the productivity of an employee who operates a machine; the annual bonus depends on achieving a certain level of productivity, and so, the information will be personal data about that individual employee who operates it

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3. Identified or Identifiable (1)



§26, 30 WP136

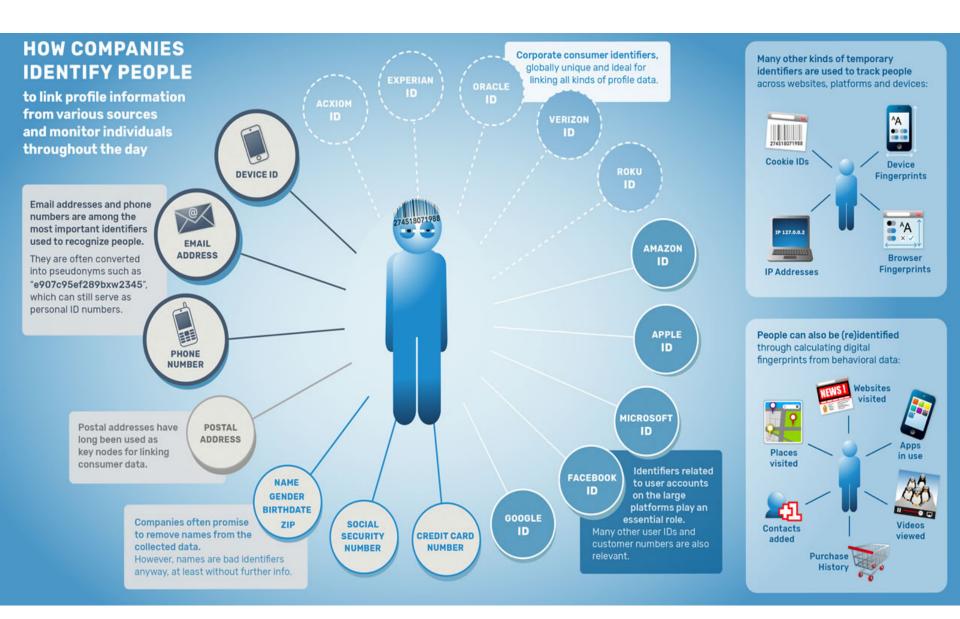
- Identified: person who is known, or distinguished from the others in a group
- Identifiable: person who is not identified yet, but identification is possible
- **Directly**: reference to a name, in combination with additional information, if the name is not unique

eg. johnsmith@example.com, "elderly man lives at nr 15 Purple St and drives a Porsche", "Maria's foster mum, from Year 4 at Junior School"

• Indirectly: unique combinations of indirect identifiers that allow a person to be singled out from others

eg. car registration number, combination of significant criteria (age, occupation, place of residence)

Online Identifiers	Direct Identifiers	Indirect Identifiers
IP address Cookies RFID Tags MAC addresses Advertising IDs	Name Address details Email address ID number Location data	Physical Physiological Genetic Mental Economic
Account usernames Device fingerprints		Cultural Social Identity





2. Test of "reasonably likelihood" of identification §26 WP136

- To check if a person is identifiable, account to be taken to:
- All **means** "**reasonably likely**" to be used to identify an individual, directly on indirectly
 - eg. public registry, reverse directory
- By any person (not necessary that all the information to identify must be in the hands of one person [Breyer, 2016])
 - eg. ordinary person or by a particular person: investigative journalists, ex-partner, stalker, industrial spies

Objective factors:

- •Cost/time needed for identification, in light of new technology, security developments, or changes to the public availability of certain records
- •Intended explicit or implied purpose of processing
- •Available tools for identification
- •Risk of organizational dysfunctions, eg. breaches of confidentiality duties, technical failures

•State of the art of technology at the time of processing, and technological developments Slides of Cristiana Santos



Examples of personal data

Company uses WiFi analytics data to count the n^o of visitors/hour across different retail outlets. It processes a person's Media Access Control address (MAC) through the public WiFi hotspots. If an individual can be identified from his MAC address device, or with other information in the possession of this business, then the data is personal data



Examples of personal data

Using cookies, or similar technologies, to track people across websites, consists in processing of personal data (specially if this tracking involves online identifiers used to create a profile of a person)



Examples of personal data

An individual submits a job application. The HR department removed the first page containing the individual's name, contact details, etc and saves the remainder of the form in 'Folder 1' and sent the rest on to the recruiting manager. The information in Folder 1 does not allow for the identification of any individual, but when it is combined with the second part, the applicant can be identified