Data Protection in Scientific Projects – Dos and Don'ts

Dr. h.c. Marit Hansen State Data Protection Commissioner of Schleswig-Holstein, Germany Bonn, 1 February 2024

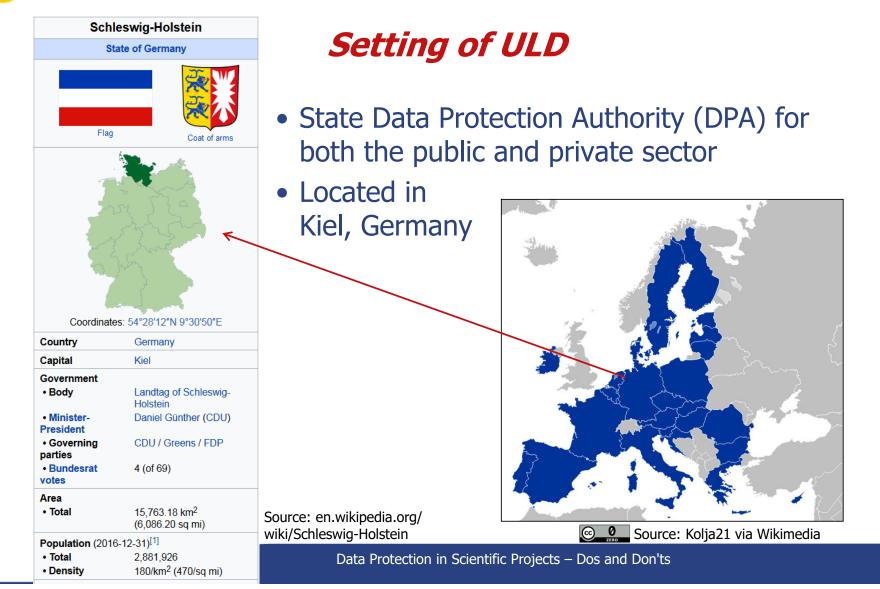




Unabhängiges Landeszentrum für Datenschutz Schleswig-Holstein



www.datenschutzzentrum.de





- 1. What is data protection?
- 2. GDPR Principles
- 3. Standard Data Protection Mode
- 4. Mistakes
- 5. Summary
- 6. Links



Image: beludise via Pixabay



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Overview

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Powerful toolbox if applied appropriately

- Market location principle (Art. 3 GDPR)
- Responsibility (Art. 24 GDPR)
- Data protection by design (Art. 25(1) GDPR)
- Data protection by default (Art. 25(2) GDPR)
- Security (Art. 32 GDPR)
- Data protection impact assessment (Art. 35 GDPR – "Rights and freedoms of natural persons")
- Certification (Art. 42+43 GDPR)



- Fines & sanctions by Data Protection Commissioners (Art. 83+84 GDPR)
- Courts

General Data Protection Regulation = GDPR

Image: Astryd_MAD via Pixabay



(1)

Design requirements

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Data Protection Principles

Art. 5 GDPR – Principles relating to processing of personal data

- a) Lawfulness, fairness and transparency
- b) Purpose limitation
- c) Data minimisation
- d) Accuracy
- e) Storage limitation
- f) Integrity and confidentiality (~ security)

(2) Accountability



Precondition: diligent analysis of responsibilities and legal basis

Image: Pete Linforth via Pixabay



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Images: (left) ottavio via Pixabay, (right) Bishnu Sarangi via Pixabay

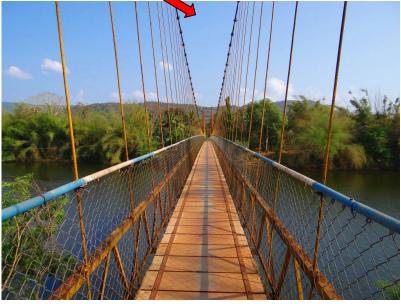


High risk – design with technical and organisational measures necessary

Trustworthiness through appropriate measures and checkability

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GDPR demand: risk mitigation





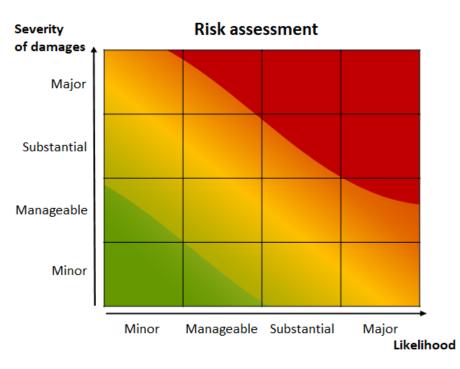
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The notion of risk in the GDPR

- Risk = severity of potential damage x likelihood
- Focus: rights and freedoms of natural persons – see Charter of Fundamental Rights
- Risk must be mitigated with technical and organisational measures (TOM) to protect rights
- → Articles 24, 25, 32,
 33, 34, 35, 36 GDPR



Matrix: own translation from DSK-Kurzpapier Nr. 18 "Risiko", Datenschutzkonferenz [License www.govdata.de/dl-de/by-2-0], https://www.datenschutzkonferenz-online.de/media/kp/dsk_kpnr_18.pdf



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Mistakes



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Mistakes

- Mistake 1: nobody feels responsible
 - Controller determines the purposes and means of the processing of personal data – alone or jointly
 - Clarity about persons in charge and about processes

Mistake 2: forgetting about purposes

- Purposes: lawful, clearly defined
- Only necessary personal data
- Constraints when usage for other purposes desired

Mistake 3: no clear legal basis

- Consent? Legitimate interests? [to come: EDPB Guidelines]
- Caveat: data transfer outside EU/EEA



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Mistake 4: forgetting about data subjects

- Needed: proper information and ...
- ... processes for rights to access, rectification, erasure, portability

Mistakes

Mistake 5: security deficiencies

- Needed: professional information security ...
- ... including a process for handling data breaches

Mistake 6: problematic risk assessment

- Needed: perspective of the data subjects ...
- ... and, if high risk probable, Data Protection Impact Assessment prior to data processing



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Mistakes

- Mistake 7: shortsighted planning, assuming static properties
 - Needed: taking into account the full lifecycle and ...
 - ... an iterative process (data protection management) for checking for necessary changes and dynamic adaptations

Mistake 8: anonymization not properly done

- Often tried: escape from the GDPR by processing anonymous data
- But: the anonymization has to work properly to prevent the risk of (re-)identification
- Otherwise: not anonymous, but personal data
- Way out: data minimization within the GPDP, especially through pseudonymization



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https://www.bankinfosecurity.com/eufunded-ai-projects-slammed-byitalian-data-regulator-a-24218

- "The Italian data protection regulator fined a midsize northern city 50,000 euros for deploying a pilot artificial intelligence public safety project financed by the European Union."
- Projects MARVEL, PROTECTOR and PRECRISIS
- AI usage to process audiovisual data to detect threats
- Training on public data sets and contained features such as movement and object detection and clustering methodologies to identify anomalies in movements



EU-Funded AI Projects

City of Trento Must Pay Regulators 50,000 Euros

Akshaya Asokan (🛩 asokan_akshaya) • January 30, 2024 🌘

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EU funding for unlawful projects?



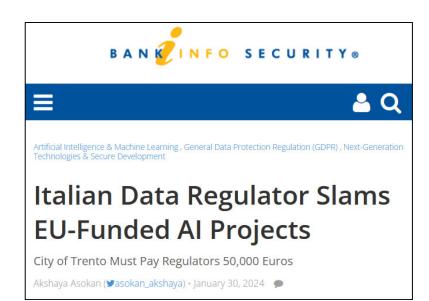
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EU funding for unlawful projects?

Italian Data Protection Authority:

- Surveillance of public spaces
- Risk: modify behaviour of people, affect the exercise of democratic freedoms
- No justification of the city
- No Data Protection Impact Assessment in advance
- No information of the residents about cameras and microphones
- Sharing the data with third parties (researchers, police, other countries' law enforcement agencies)





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EU funding for unlawful projects?

Italian Data Protection Authority:

- No proper anonymization: "removing user names and URLs, as well as blurring faces and license plates" not sufficient, because still voice capturing from microphones, identification from clothing or body morphology
- Wrong risk estimation ("low")
- Stop of data processing reduced the fine from 20 million Euro to 50.000 Euro



City of Trento Must Pay Regulators 50,000 Euros

Akshaya Asokan (🎔 asokan_akshaya) • January 30, 2024 🏾 🗩



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Summary & outlook

- Data protection in scientific projects is a challenge
 - Collaboration of partners: defining the relationship (joint controllership?), different cultures, different legal regimes
 - Usually time limitations for project employees, no means for establishing a professional infrastructure for data protection
- Advice: discuss with the data protection officers of your organisation
- Stability through thorough planning of processing of personal data:
 - Who is (joint) controller?
 - What is the purpose? What is necessary to achieve the purpose?
 - What is the legal basis?
 - What is the risk? How to mitigate it?
 - If risk not too high: design the system including TOM, otherwise no processing
- Taking the perspective of the data subjects:
 - Both users/citizens and employees



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Main concepts	Main principles	Main actors	Data subject rights	Main tools and action	
**** **** ****	programme under gra This content has not ye changes following the r	ant agreement No 788039 et been reviewed by the E	uropean Commission and there only PANELFIT's view and the	efore it might be subject to	

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Links

- DSK: The Standard Data Protection Model Version 3.0a (English version), 2022, <u>https://www.datenschutz-</u> <u>mv.de/static/DS/Dateien/Datenschutzmodell/SDM_V3_en.pdf</u>
- PANELFIT: Guidelines on Data Protection Ethical and Legal Issues in ICT Research and Innovation. THE GDPR – MAIN CONCEPTS, 2022, <u>https://guidelines.panelfit.eu/wp-content/uploads/2022/07/Guidelines-The-GDPR-Main-Concepts.pdf</u>
- SHERPA Shaping the Ethical Dimensions of Smart Information Systems, <u>https://www.project-sherpa.eu/</u>