



Overview

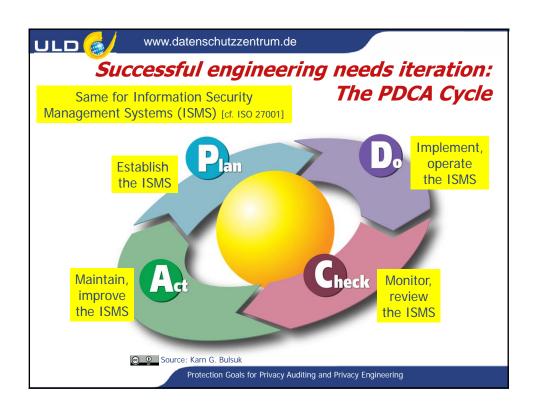
- 1. Working with Protection Goals
- 2. Protection Goals for Privacy Engineering
- 3. Dependencies between Protection Goals
- 4. Privacy Auditing
- 5. Conclusion

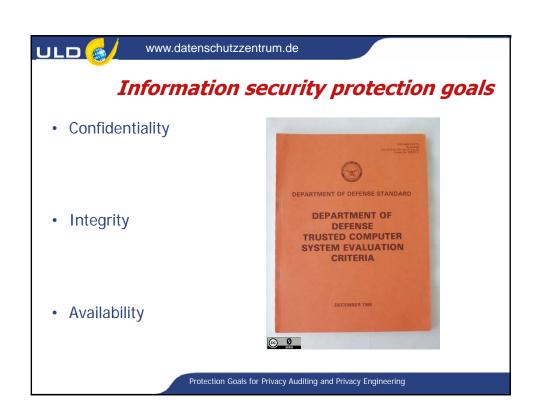
Protection Goals for Privacy Auditing and Privacy Engineering



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1. WORKING WITH PROTECTION GOALS

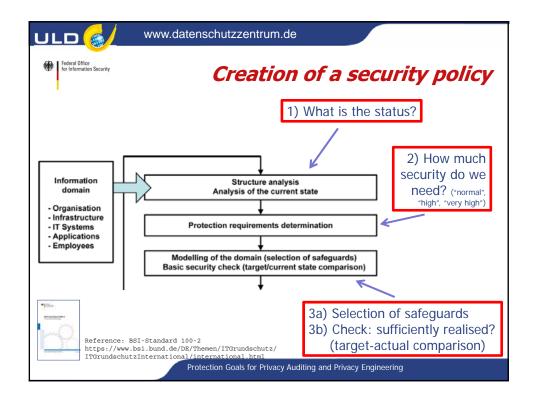


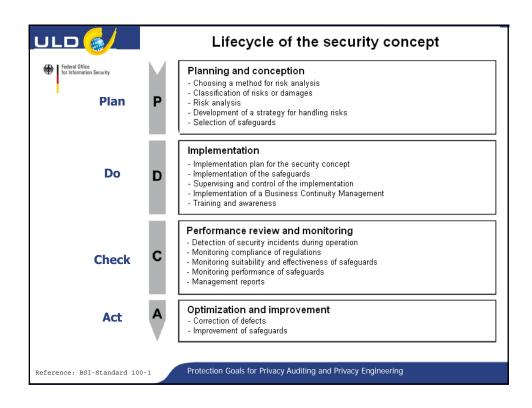


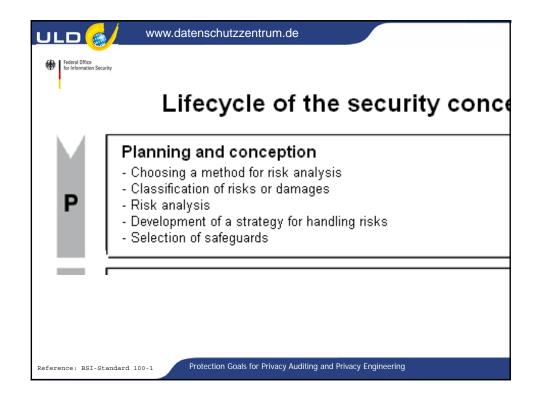


How to make use of the notion of protection goals?

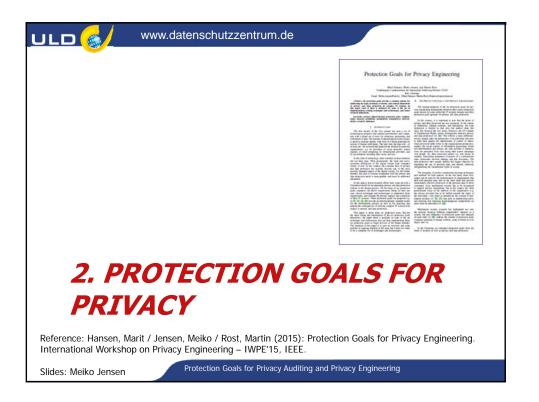
- (Skilled) engineers know how to deal with the traditional security protection goals
- Security protection goals are part of Information Security Information Systems (ISMS) – cf. ISO 27001
- · Established procedure
 - Analysis of risks
 - Dealing with risks
 - → selecting the appropriate safeguards
 - Considering the lifecycle of development





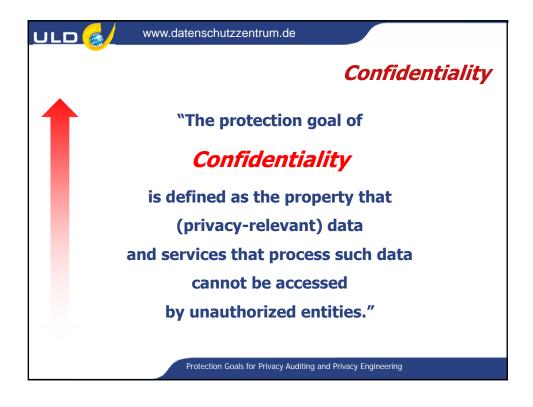




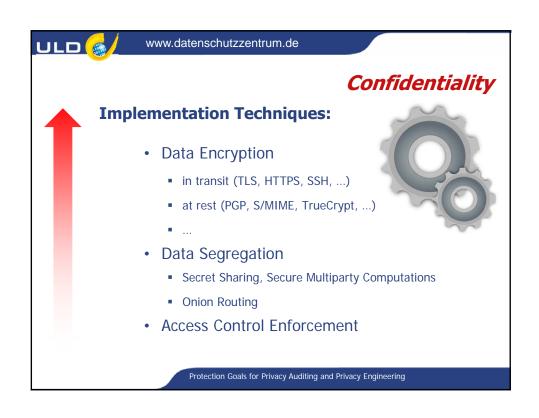




Classic Protection Goals



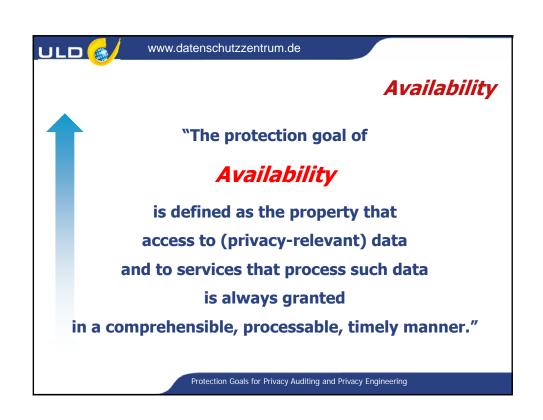




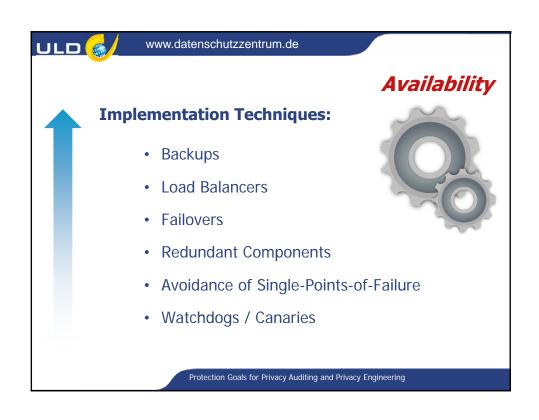


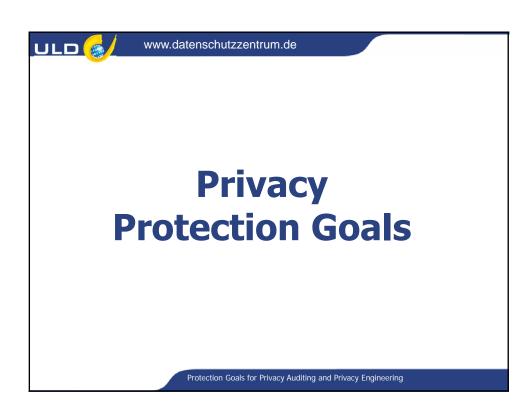


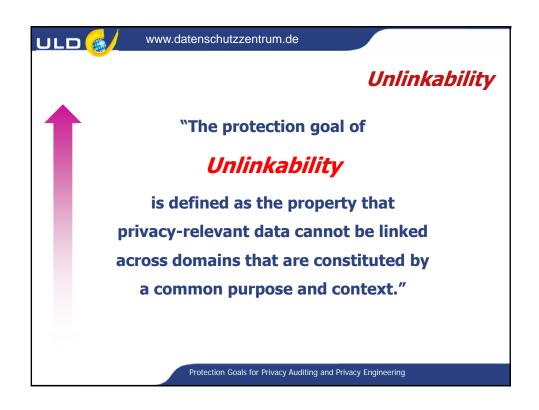


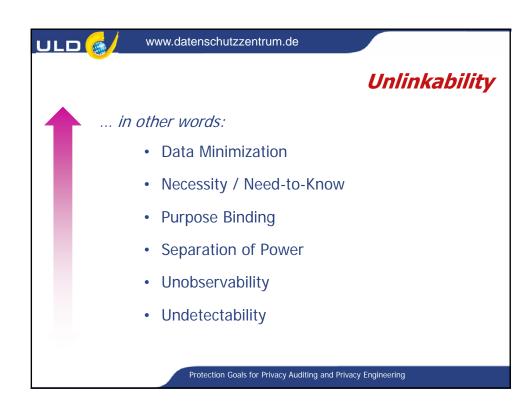


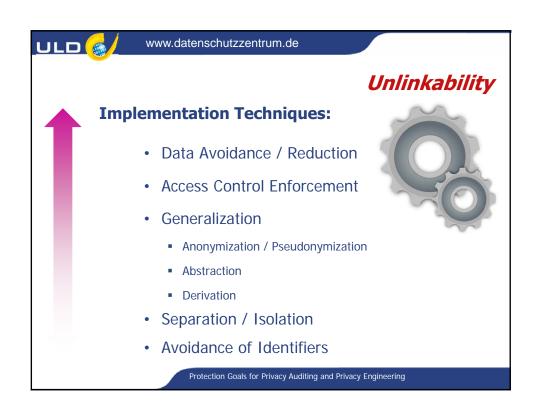


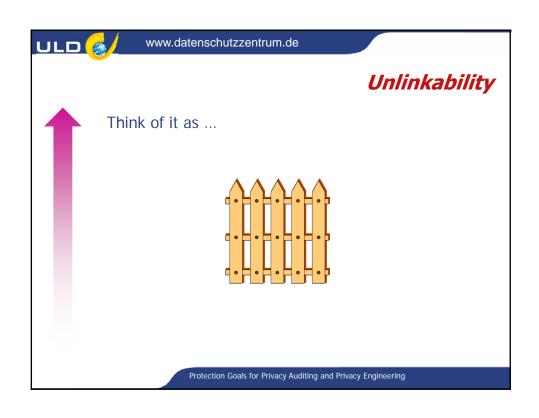




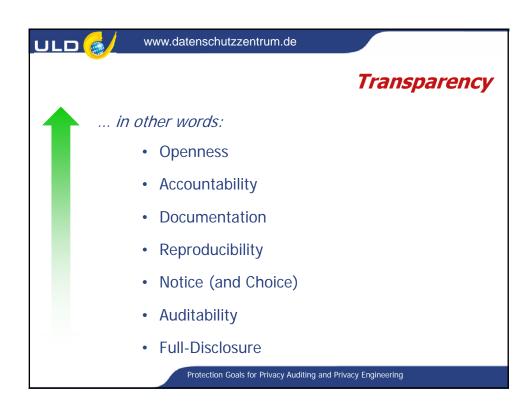


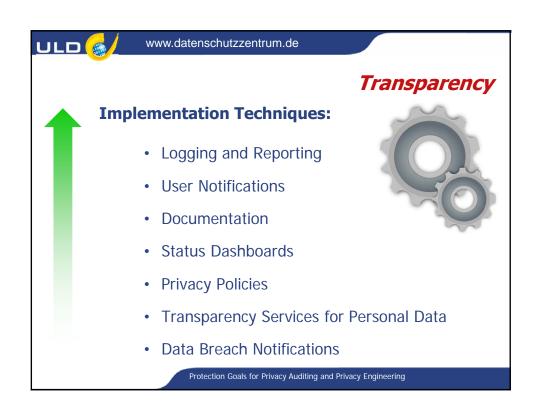


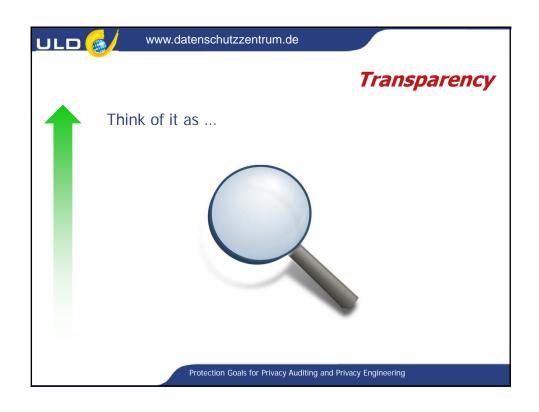






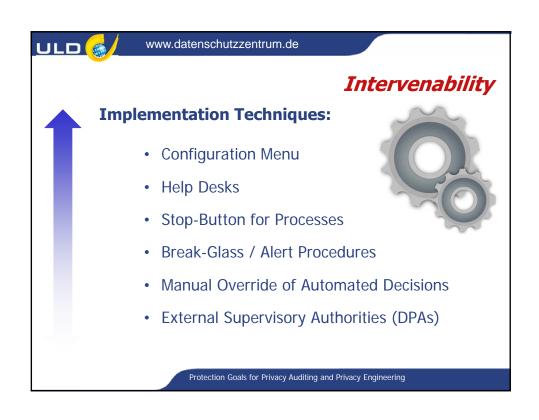


















Side remark 2: Related concept: (Notice &) Choice

- Based on Fair Information Practice Principles (FIPPs)
- Sind the mid-1990s encouraged by the Federal Trade Commission (FTC)
- "Simplified Choice for Businesses and Consumers companies should give consumers the option
 to decide what information is shared about
 them, and with whom. This should include a
 Do-Not-Track mechanism that would provide
 a simple, easy way for consumers to control
 the tracking of their online activities."



FTC Report "Protecting Consumers Privacy in an Era of Rapid Change", 2012

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Side remark 2: Related concept: (Notice &) Choice

- · Hasn't worked well in reality:
 - Lack of transparency
 - Choices are usually very limited (and at the same time maybe too complex)
 - A "take it or leave it" choice is usually no appropriate intervention
- Not sufficient



Side remark 3: intervenability and privacy engineering research

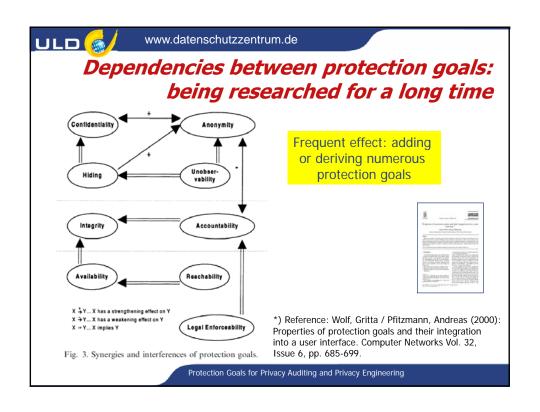
- Intervenability is not prominent in privacy engineering literature
- · Reasons for that:
 - Hard to formalise and to measure
 - Compared with data minimisation research far less proposed techniques and technologies
 - Can often not be solved within the IT system alone
 - Needs a running system with clear responsibilities (operator, users)
 not on prototype level
 - Not one fixed solution, but process-oriented, taking into account the full lifecycle of system evolution

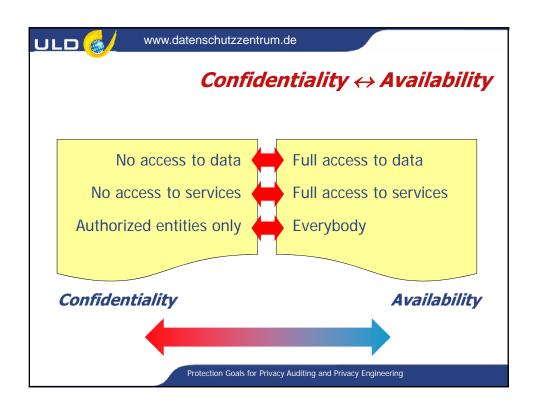
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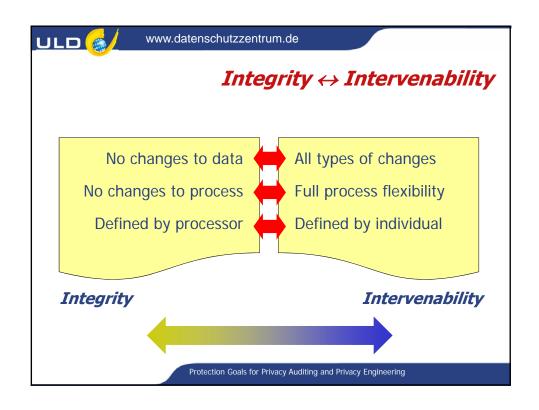


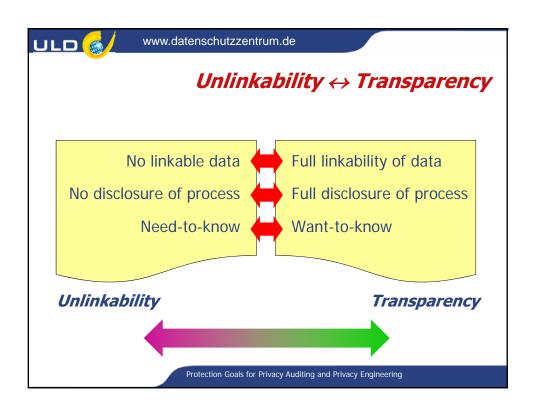
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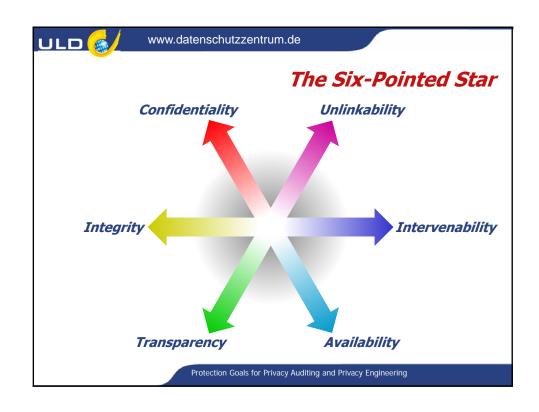
3. DEPENDENCIES BETWEEN PROTECTION GOALS

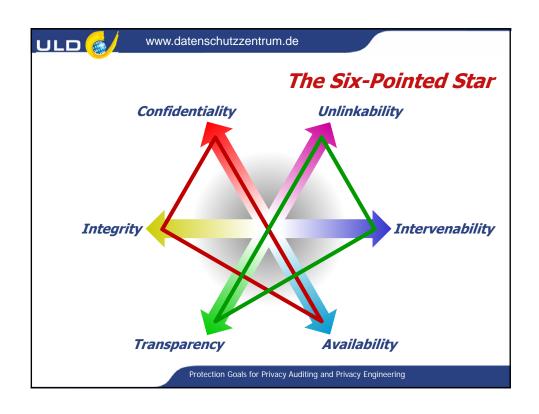




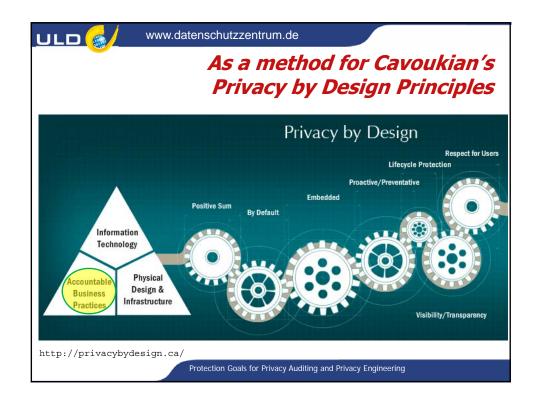






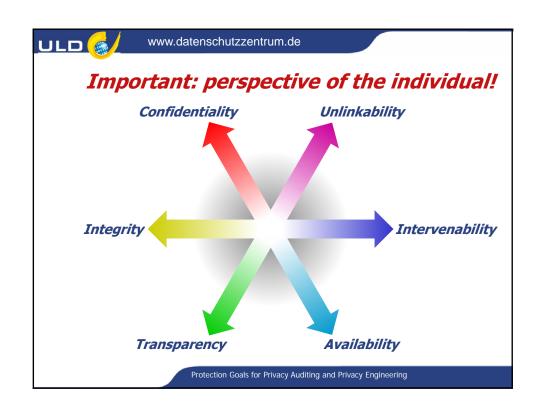


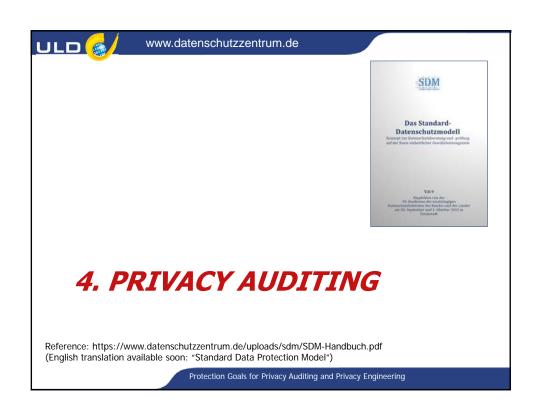


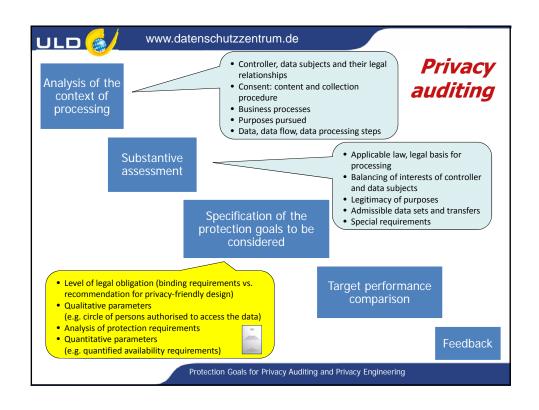


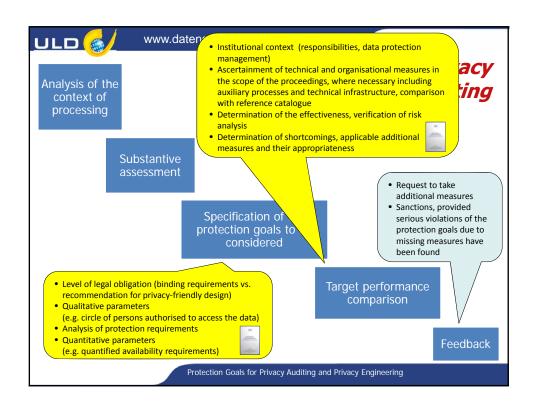
ULD 🌏 www.datenschutzzentrum.de Our approach for "Data Protection by Design" in Art. 23 of the General Data Protection Regulation Article 23 Article 23 Article 23 Data protection by design and by Data protection by design and by default 1. Having regard to the state of the art and the cost of implementation, the controller shall, both at the time of the determination of the means for processing treating in the most of the determination of the means for processing the state of the arms of the processing the state of the Amendment 118 1. Having regard to the state of the art and the cost of implementations of the cost of implementations of the cost of implementation of the cost of the purpose of the cost of the purpose of the processing and at the time of the processing sixelf, adopt appropriate technical and organisational solutions designed to implement data protection principles in an effective way and to integrate the necessary adequates into the processing tools. In short: • "... by design" = built-in "Data protection" = reqs from the GDPR, esp. rights deletion, systematically focusing on comprehensive procedural safeguards regarding the accuracy, confidentially, integrity, physical security and deletion of personal data. Where the controller has carried out a data protection impact assessment pursuant to Article 33, the results shall be taken into account when developing those measures and procedural. of the data subject Differences: who, when, how, how much?

Our approach for "Data Protection by Design" in Art. 23 of the General Data Protection Regulation			
European Commission	1st reading position of the European Parliament	General Approach of the Council	EDPS recommendations
2. The controller shall implement mechanisms for ensuring that, by default, only those personal data are processed which are necessary for each specific purpose of the processing and are especially not collected or retained beyond the minimum necessary for those purposes, both in terms of the amount of the data and the time of their storage. In particular, those mechanisms shall ensure that by default personal data are not made accessible to an indefinite number of individuals.	2. The controller shall implement mechanisms for ensuring ensure that, by default, only those personal data are processed which are necessary for each specific purpose of the processing and are especially not collected-or, retained or disseminated beyond the minimum necessary for those purposes, both in terms of the amount of the data and the time of their storage. In particular, those mechanisms shall ensure that by default personal data are not made accessible to an indefinite number of individuals and that data subjects are able to control the distribution of their personal data.	mechanisms-appropriate measures of or ensuring that, by default, only those personal data are-processed which are necessary for each specific purpose of the processing and are especially not collected or retained beyond the minimum necessary for those purposes, both in terms of are processed; this applies to the amount of the-data collected, the extent of their processing, and the time-period of their storage and their accessibility. Where the purpose of the processing is not intended to provide the public with informationin-particular, those mechanisms shall ensure that by default personal data are not made accessible without human	The controller shall implement appropriate solutions for ensuring that, by default, personal data are processed in the least intrusive manner possible without prejudice to the choice of the data subject to allow the processing of personal data in a broader sense.
			In short: " by default" = configuration should be
			Privacy-friendlyRelated to
			necessity for purpose

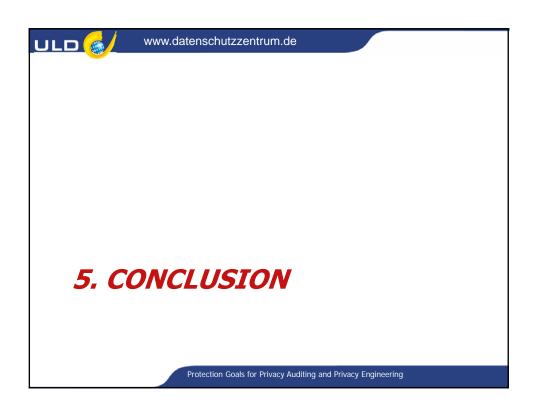














Conclusion

- Privacy and data protection by design
 - Will be demanded in the General Data Protection Regulation (but how exactly?)
 - Can be achieved by applying protection goals (all six!)
 - With focus on the perspective of the individuals (not the controller)
- · Useful for
 - Privacy engineering (not only IT systems, but business models, laws, standards, ...)
 - Privacy auditing (and Data Protection Impact Assessment)
- In other privacy engineering approaches not much on transparency and <u>intervenability</u>, yet: tasks for crossdisciplinary research

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Thank you for your attention!

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