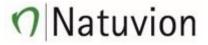
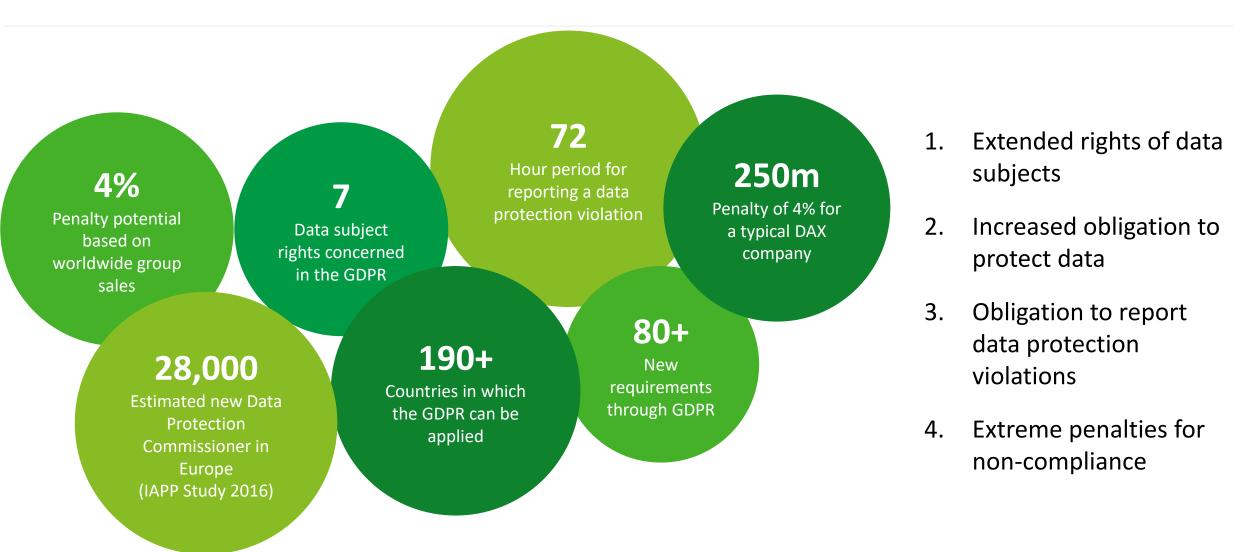
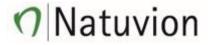


GDPR at a glance

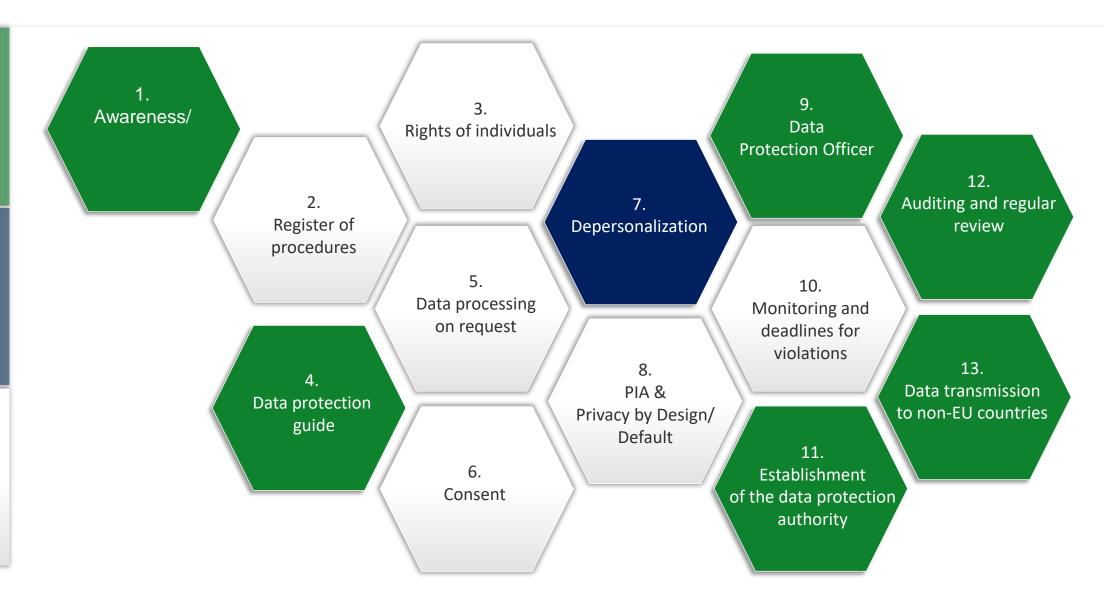




Fields of actions for GDPR



Legal / Organizational



GDPR – Fields of Actions "Rights of Individuals"



Right of Access | Art.15

- Information
- Issuing

Restrictions | Art. 18

Blocking

Rectification | Art. 16

- Rectification
- Expansion

Objections | Art. 21

- General
- Direct marketing

Erasure | Art. 17

- Person responsible
- 3rd party (to be forgotten)

Portability | Art. 20

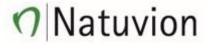
- Extraction
- Automatic transfer to 3rd party

Anonymization is obligatory (Art. 5) and can reduce costs within the scope of the GDPR implementation

A request must be answered within one month

The rights of those concerned are generally free of charge

Distinction between pseudonymization and anonymization



De-Personalized

Pseudonymized Data

The person concerned can be identified again by consulting the information stored separately or, if necessary, publicly accessible.

Anonymized Data

The person concerned cannot be identified again, or only with disproportionate effort.

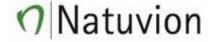
ErwG 26

"The principles of data protection should therefore not apply to anonymous information, i.e. information that does not relate to an identified or identifiable natural person, or personal data that has been made anonymous in such a way that the person concerned cannot or can no longer be identified. This Regulation therefore does not concern the processing of such anonymous data, including for statistical or research purposes".

"In order to determine whether a natural person is identifiable, all means likely to be used by the responsible person or another natural person in general judgement to identify the natural person directly or indirectly should be taken into account. The technology and technological development available at the time of processing shall also be taken into account."

?

What is personal data?

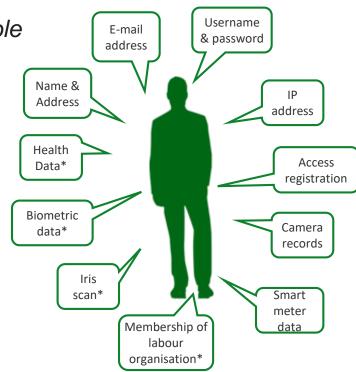


1

Personal data is all information relating to an identified or identifiable natural person

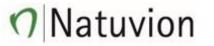
2

It is sufficient to have data that would theoretically allow you to draw conclusions about a certain person. It does not matter whether one instance alone or a third party or several bodies together could establish the identification. It does not matter whether a real identification of a natural person has taken place or could take place to justify the classification of a date as personal.



As a basic rule, all data that could contain **unique information** should be regarded as personal if they were not generated themselves (and proven without personal reference).

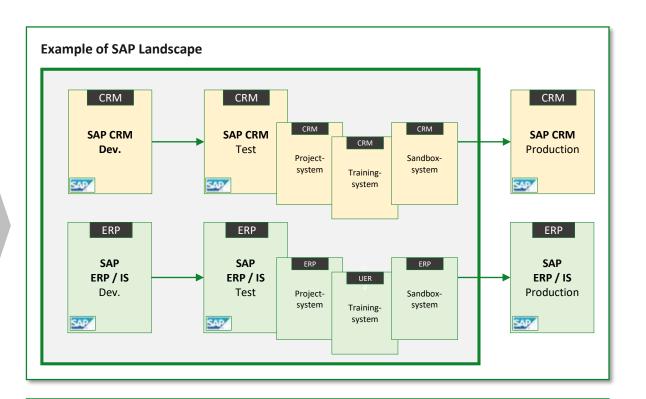
Is there already a permissible change in data protection law regarding the handling of personal data for test purposes?



Change of purpose in handling personal data for test purposes

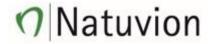
Description

- 1) Dealing with pers. Data for test purposes is generally not covered by consent (§ 4a Paragraph 1 BDSG-alt; Art. 6 Paragraph 1 lit. a) GDPR). Consent is given for specific purposes. Dealing with personal data for test purposes is regularly not covered by a consent.
- 2) Dealing with pers. Data for test purposes is generally not required for contract fulfilment, e.g. in the ratio "RU company" (§ 28 para. 1 sentence 1 no. 1 BDSGalt; until 25 May 2018; Art. 6 para. 1 lit. b) DSGVO). Such contact is usually not connected with a concrete implementation of the contract. For the execution of the contract it is necessary to deal with personal data. data for test purposes is not required on a regular basis.



No personal data may be stored in SAP test or project systems. All test procedures are to be carried out with depersonalized data sets

Known challenges in depersonalization



Common Challenges

- Networked systems
 Related systems must have a synchronous data status even after depersonalization.
- Functions

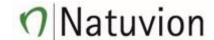
 The possibility of generating synthetic data and modifying key objects/numbers should be provided.
- Completeness

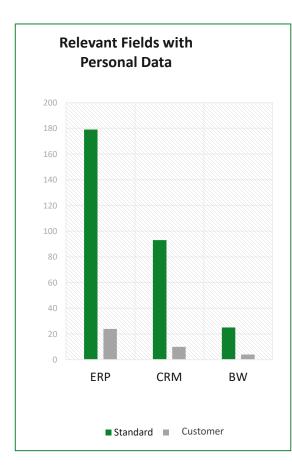
 All personal data (customer developments and add-ons) must be taken into account for depersonalization.
- Integration with ILM processes

 The integration to established information management processes must be given especially for reporting systems.
- Speed
 Performance during a system changeover/depersonalization is a decisive criterion for feasibility. The depersonalization must not have any noticeable influence on the established processes.
- Sustainability and complexity

 An SAP system landscape is subject to constant change. Data structures are changed and new data structures are added which may contain personal data. HANA and S/4 Readiness.
- External systems / interfaces
 Interfaces to non-SAP systems are subject to increased attention in connection with depersonalization. Problems in the testability/functionality of the processes can occur at these points.

Sample scope of SAP ERP/CRM depersonalization





Master Data

- Names
 Rule-based replacement, merging, generation, deletion
- Bank Connection
 Rule-based replacement, generation, merging of business customers, erasure
 - Date of Birth
 Rule-based generation, setting of ranges,
 deletion
- Addresses
 Centralized comprehensive address assignment
- Communications Structure
 Rule-based replacement, merging, generation, deletion
- Service Provider
 Rule-based replacement, merging, generation, deletion

Transactional Data

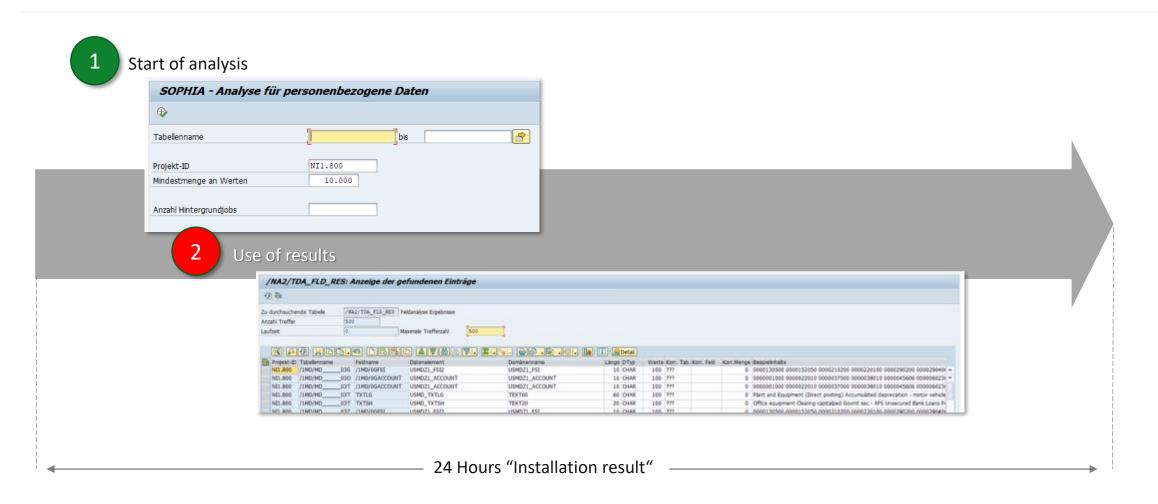
- SEPA Mandates
 Consistent adjustment to master data
- Returns/repayment request
 Consistent adjustment to master data
- Payment batchConsistent adjustment to master data
- Payment ProgramConsistent adjustment to Master Data
- CRM Activities and IS-U Contacts

Customer Developme. Pation

- Automated content-dependent search of data fields with personal reference
- Inclusion of these fields in ruledependent field modification
- Connection of non-SAP databases

Find 99% of personal data in your SAP systems

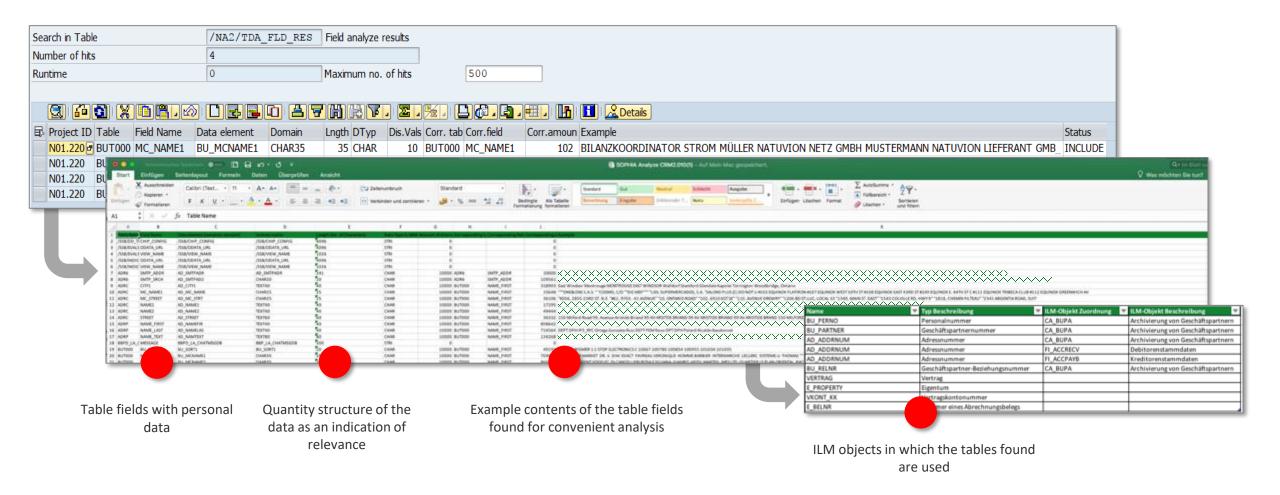




Find 99% of personal data in your SAP systems



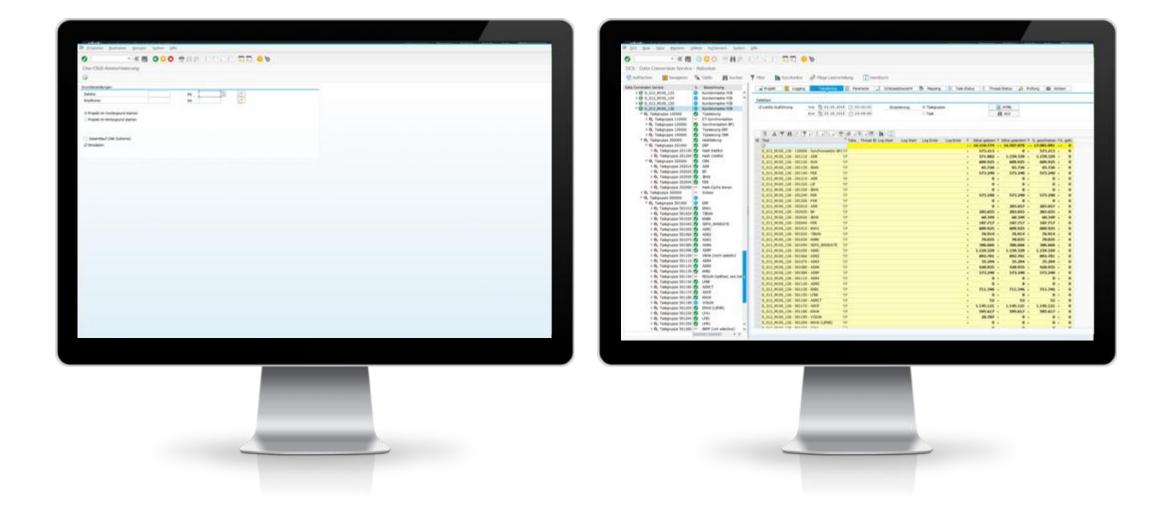
Exemplary result of a search for personal data with SOPHIA



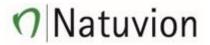
TDA System Demonstration



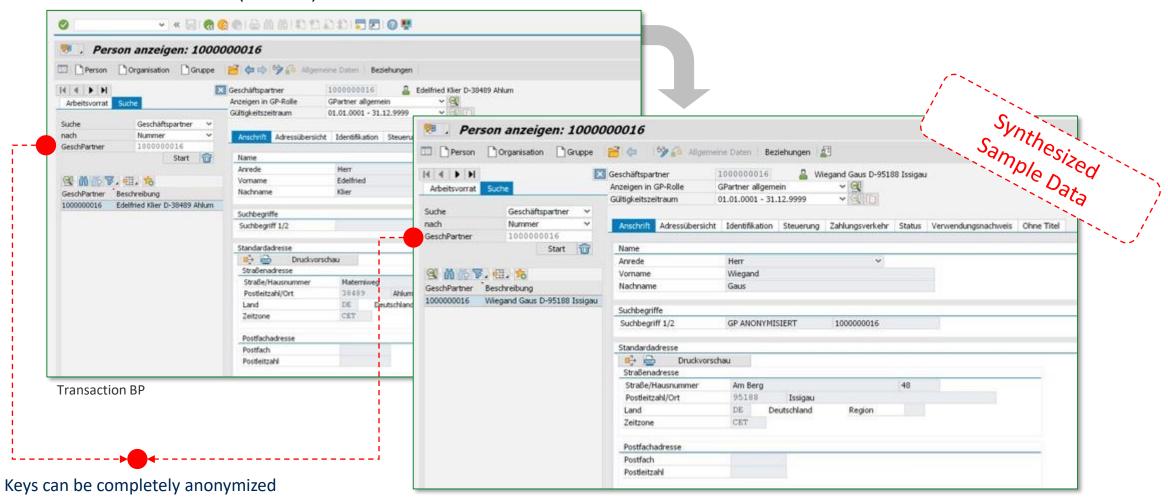
Test Data Anonymization – User vs. Administrator/Super User



Demonstration of the depersonalization of a business partner



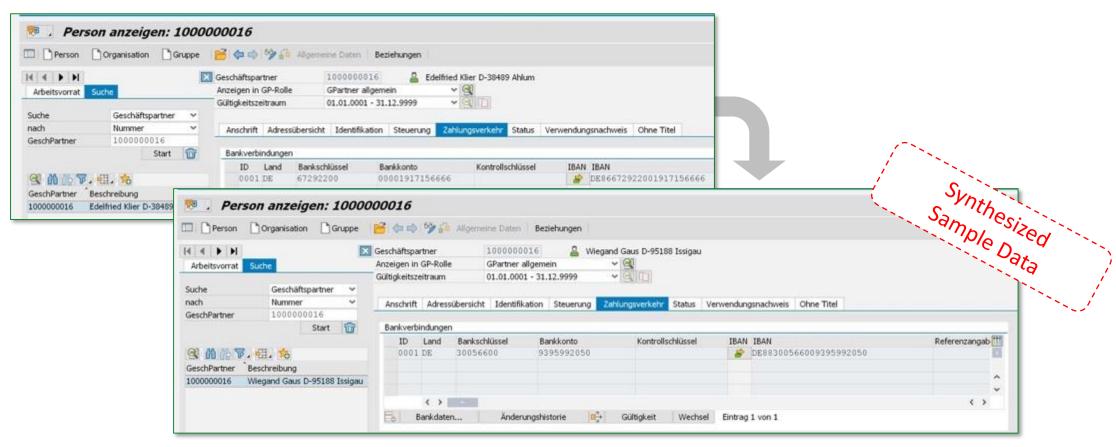
Before and after view (address)



Demonstration of the depersonalization of a business partner

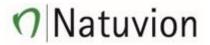


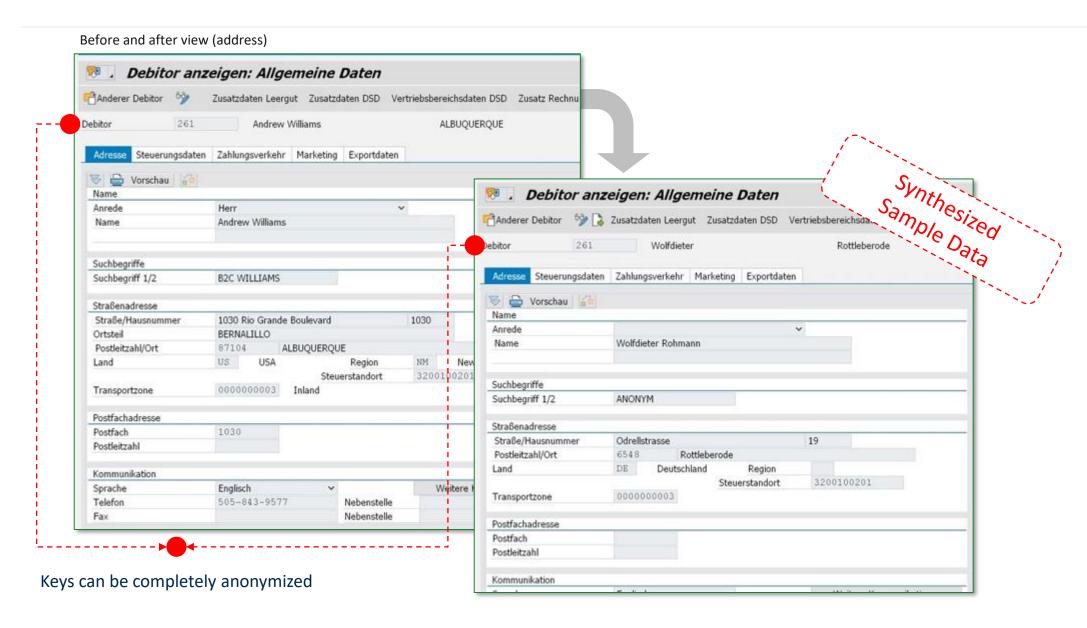
Before and after view (payment transactions)



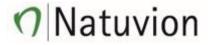
Transaction BP

Demonstration of the depersonalization of a debitor

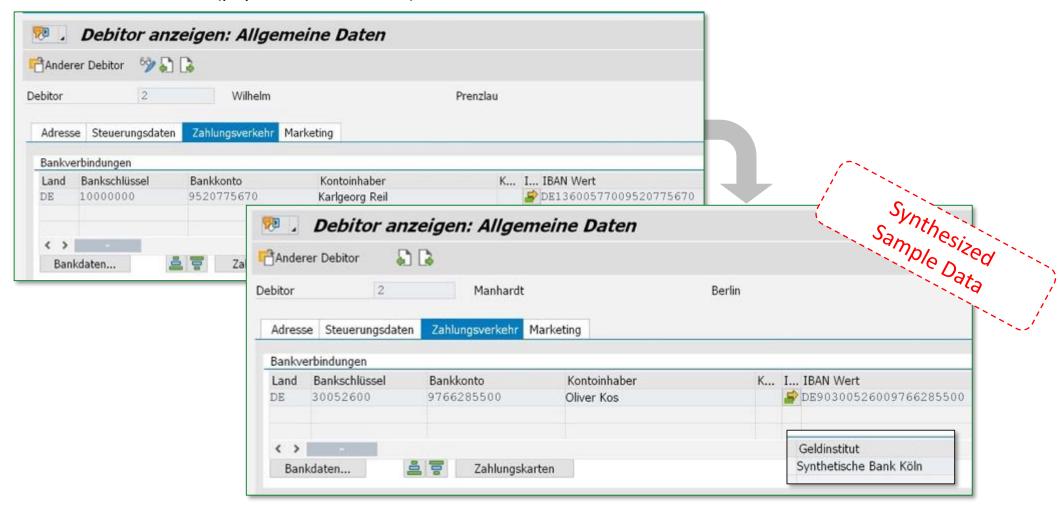




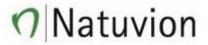
Demonstration of the depersonalization of a debitor

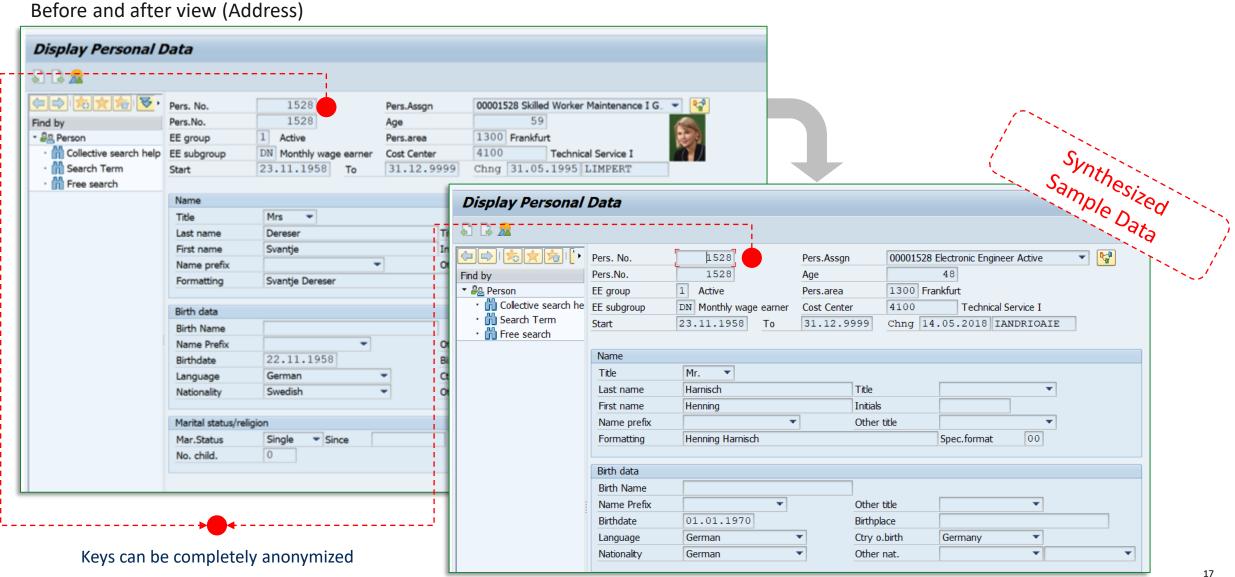


Before and after view (payment transactions)



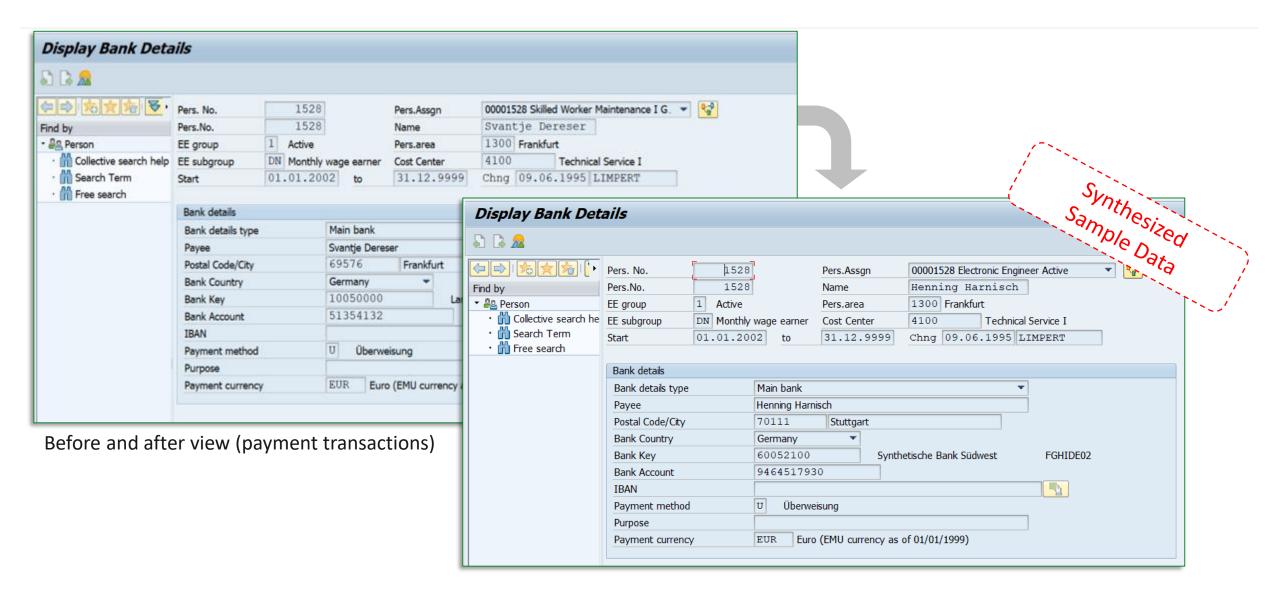
Demonstration of a depersonalization of an employee



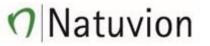


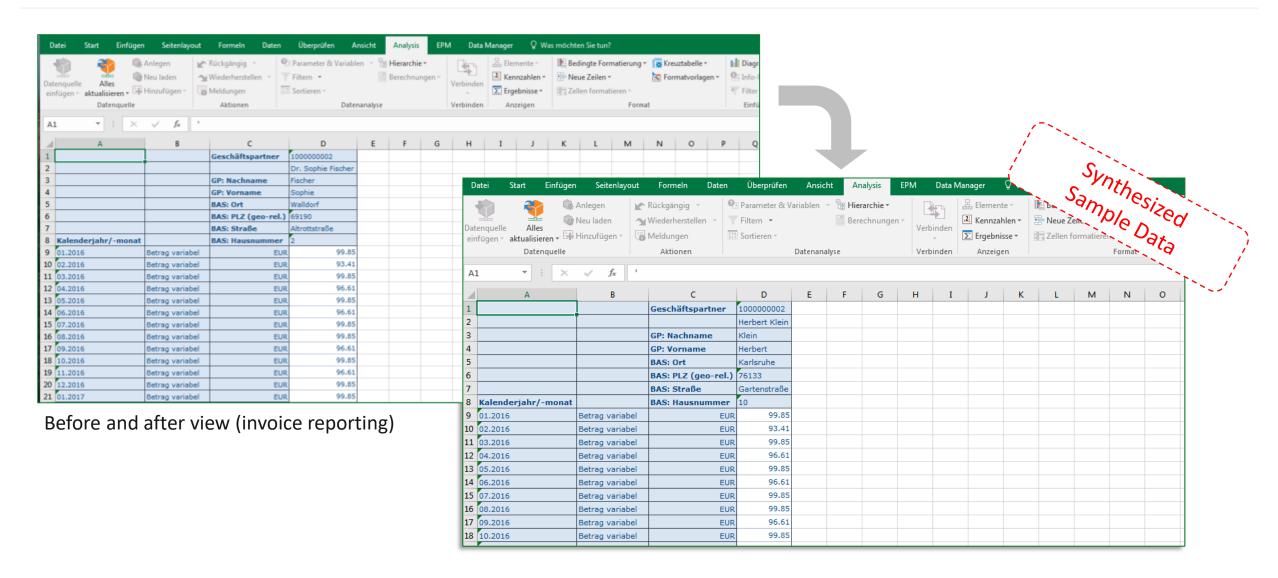
Demonstration of the depersonalization of an employee





Demonstration of the depersonalization of a business partner in Business Warehouse





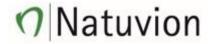
Introduction of depersonalization

The solution can be implemented within a short and manageable project framework



Conception	Testing	Individualize	GoLive	Operation (Service/Rent/Purchase)
 Functional presentation of data depersonalization Definition of relevant rules and requirements 	 Software delivery Execution of the necessary standard customizing settings Creating sets of rules and variants Single test and validation 	 Specification of additional sets of rules or selection characteristics Characteristics of customer developments/tables Adaptation of the variants Implementation of the operating model 	 Test management Test realization Go-live Certification & Acceptance (optional) 	 On-Demand-Service (Execution of the depersonalization by Natuvion - license-free - service fee) Independent operation and maintenance (software rental or purchase)
Scope	Test Environment	Customization	Start Regular Business	Operative Business
2 PD	2 - 3 PD	3 – 10 PD	1 PD	
	1 Day/Implementation			

Depersonalization with Natuvion's certified solution TDA



- 1. GDPR compliance by depersonalization of data in test, training and quality systems.
- 2. Depersonalization of productive reporting and big data systems.

Overview of Functionalities

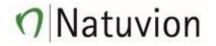
- Depersonalization of SAP and non-SAP systems (anonymization & pseudonymization)
- Depersonalization of Business Warehouse Systems
- Integration (Trigger) with SAP ILM Blocking and Erasing for SAP BW
- Restricted use also in productive systems
- Designed for extremely large data volumes (BW systems, mass data systems, big data)
- Data conversion across system boundaries Synchronous data determination and pseudonymization
- Economically & legally certified solution
- Automatic determination of data with personal reference

Templates and Availability

- Compatible with NW 7.0 or later systems
- Runs on all SAP Business Suite Systems
- Predefined data models for SAP ERP
- Predefined data models for SAP IS-U / IS-H / IS-R / IS-T / Banking
- Predefined data models for SAP FI-CA
- Predefined data models for SAP SRM / SCM
- Predefined data models for SAP CRM
- Predefined data models for SAP HCM
- Predefined data models for SAP BW
- Training material in EN/ DE
- Over 100 productive installations

Contact us for more info on how we could carry out a test installation or a proof-of-concept for you!

S O P H I A supports you in identifying data with a personal reference and offers a wide range of processing options



Find 99% of personal data in your SAP systems

Overview of Functionality

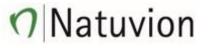
- Covers all SAP system landscapes
- Covers all data/fields with personal reference (customer tables, table field enhancements,...)
- Combination of DDIC-based structure search and semantic/content-based search
- Data scan: finds all table fields that contain "suspicious" data (direct and indirect personal reference)
- Content scan: finds table fields with direct personal reference, based on the content
- High performance parallelization

Why do you need Sophia?

- Sophia drastically reduces the effort involved in introducing a depersonalization strategy
- Sophia provides the basis for the introduction of a data life cycle strategy
- Sophia helps you to identify the scope of the information
- Sophia helps to prioritize the topics of her GDPR/Data Privacy Strategy
- Sophia delivers substantiated results within the framework of compliance audits and controls

Sophia drastically reduces manual effort in data protection projects by analyzing and automatically identifying all personal data in a system/system landscape

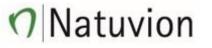
SAP & Natuvion's Solutions offer an Effective Data Governance Model Solution Roadmap



There are 99 articles, about 80 new requirements and many technical solutions. The following Natuvion Solution Roadmap sheds light and helps you to select the right solutions.

Historical Data in Production Systems	Extensive database from process execution	Extensive real data in project/test and training systems	Customer enquiries for the provision of information	Conformal and age-dependent consent
Natuvion DCS (Data selection and data deletion)	SAP ILM (Data locking and data deletion)	Natuvion TDA (Depersonalization of systems and data)	Natuvion DDI (Data information and search)	SAP Consent Repository (Collection & processing of consent)
SAP LT 2.0 (Data selection and data deletion)	SAP RAL & SAP UI Logging (Data Access Logging & Monitoring)	Natuvion EDA (Test data generation and duplication)	SAP IRF (Data information and search)	SAP Customer Data Cloud (GIGYA) (Collection & processing of consent)
SAP Archiving (Data selection and data deletion)	SAP UI Masking (Data Masking / Blocking)	SAP TDMS (Pseudonymization of systems and data)		
SAP ILM Decommissioning (System replacement)		SAP RAL / SAP UI Logging (Data Access Logging & Monitoring)		
Personal data must be deleted after expiration of the legitimation		Test and project systems only with depersonalized data	Structured, IT-supported process processing	
Deleting historical data	Blocking and implementation of continuous data mgmt.	Depersonalization training and test system	Right to information about personal data	Consistent Use of Consent & Consent
		Fields of Action		

We support you with our profound and certified expertise in the area of Data Privacy, Protection & Governance



The following overview shows a (small) excerpt of our TDA & SOPHIA customers



























RWE











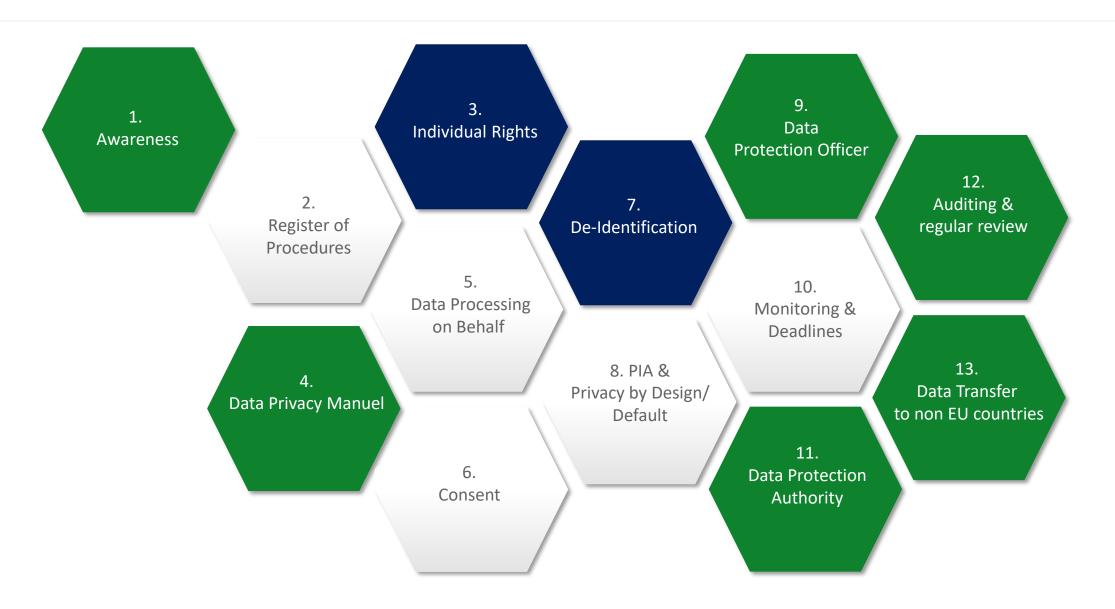






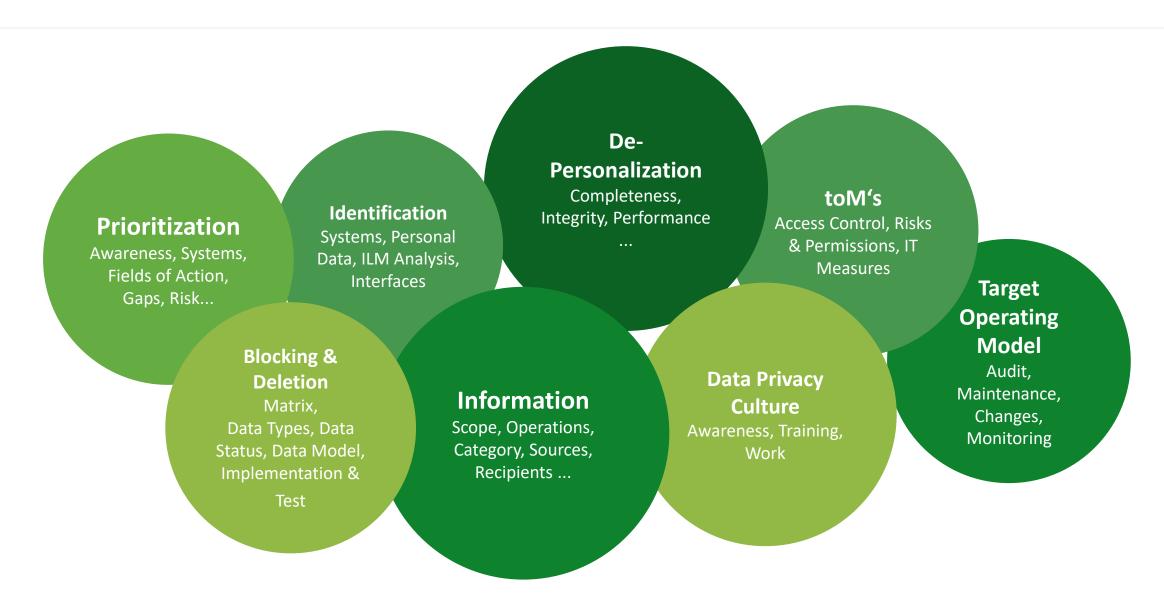
Approaching GDPR | 13 Steps you Need to Take

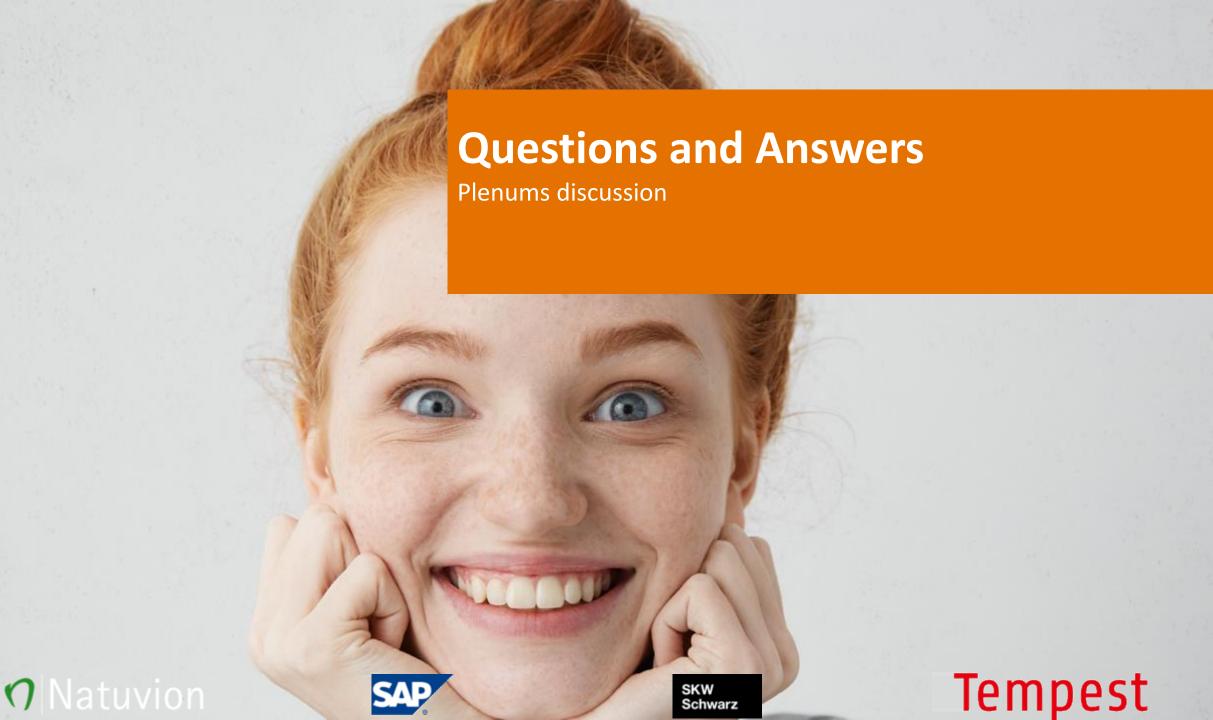




Experiences & Challenges







Contact us!

Patric Dahse CEO T +49 151 171 357 02 patric.dahse@natuvion.com



