EU GDPR – 300 days to comply!

A Personal Data Challenge

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Business Days

Hours

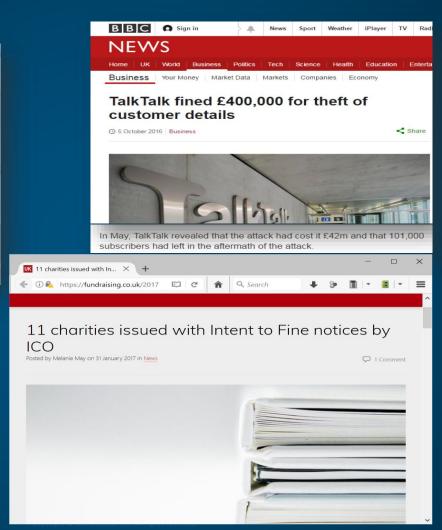
Minutes

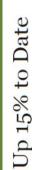
Seconds



Ashley Madison - July 2015

• An infidelity website, got its 37 million users leaked to the public by hackers





Investing

Breaches





EU GDPR

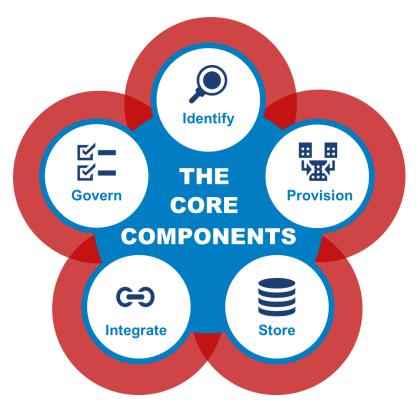
- The impact on your Data Strategy
- SAS Approach and Solution
- Where to start?



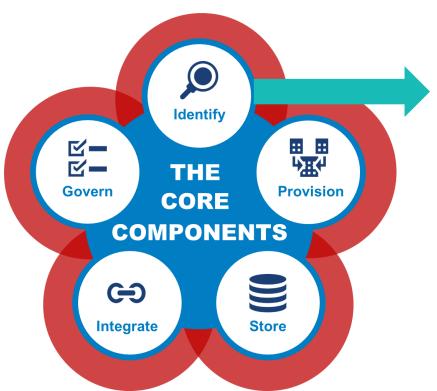
66% of the 366 Global IT surveyed companies were reviewing their business strategies in Europe and 60% believe will be fined, all as a result of GDPR!

Ovum, December 2015



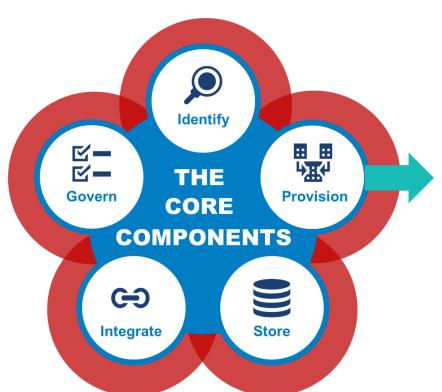






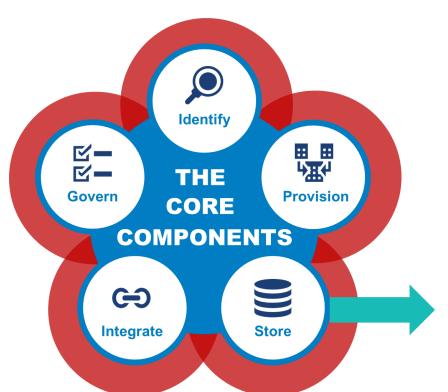
- How to identify personal data across data sources?
 - Structured and un-structured
 - At rest and in motion
- How to assess risk exposure?



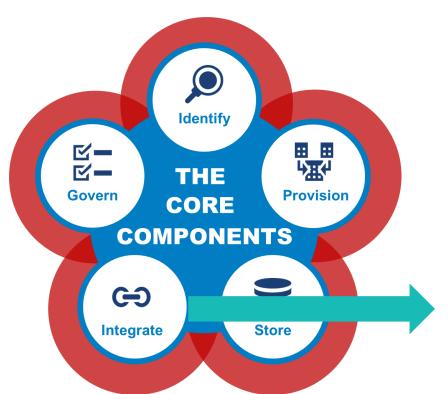


- Who has access to what personal data?
 For what purpose? For how long?
- Do we have the consent of the individuals represented in data sets?
- How to protect the data based on users and context (anonymization, pseudonymisation, encryption)?



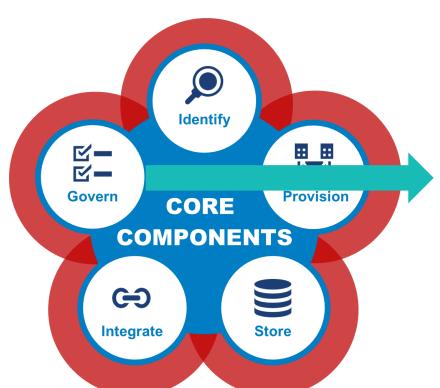


- Where is personal data stored across data sources?
- What are the retention rules?
- What data is held about an individual?



- Where does personal data flow across systems/applications?
- How to ensure data portability?
- How to support right to be forgotten?





- How to manage personal data lifecycle?
- What are the access rights for each user group?
- What consent do we have from individuals?
- How to report on compliance?



In the middle of difficulty lies opportunity.

Albert Einstein

5-Step Approach for Sustainable Compliance





5-Step Approach for Sustainable Compliance



52% of all data stored is "dark data"

Source: Veritas



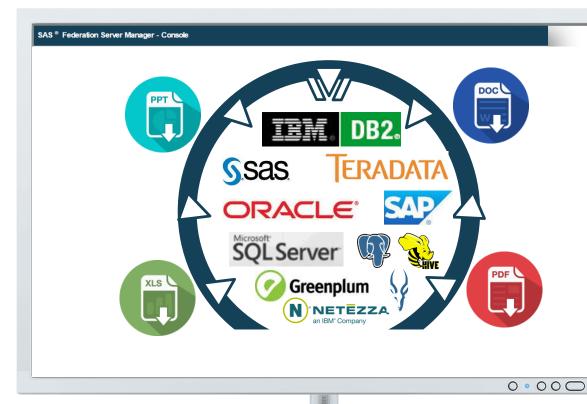
Personal Data is in all kind of data sources

 Access to any kind of Relational and Non-Relational Sources

 Unstructured and Big Data Integration

 Apply Enterprise-wide Security Policies

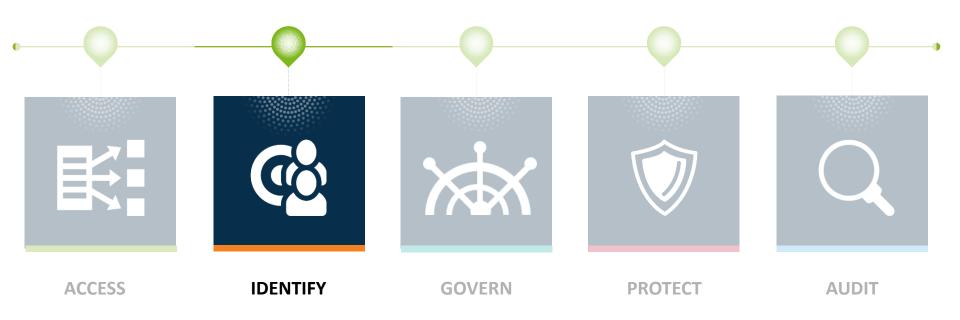
Simplify the Security & Governance effort







5-Step Approach for Sustainable Compliance



33% of all non "dark data" is redundant, obsolete, or trivial

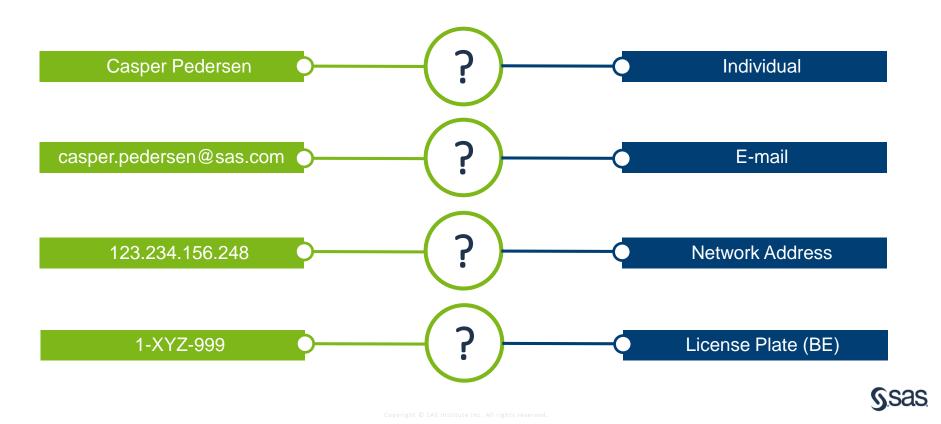
Source: Veritas





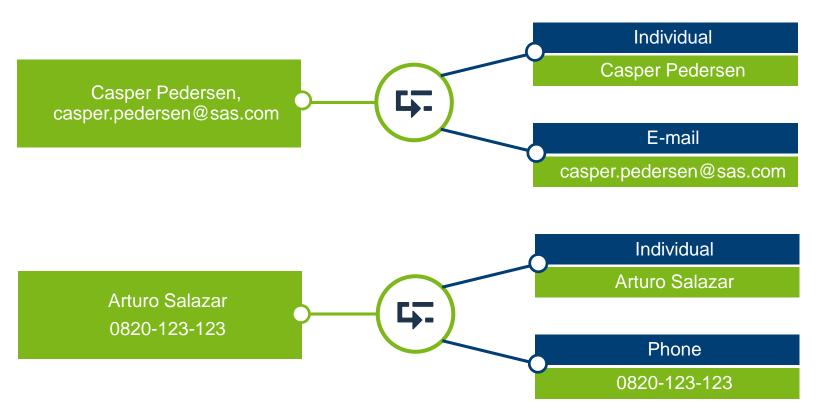
Personal Data Identification Analysis

Categorize the Information



Personal Data Discovery

Extract Information to Personal Data Attributes

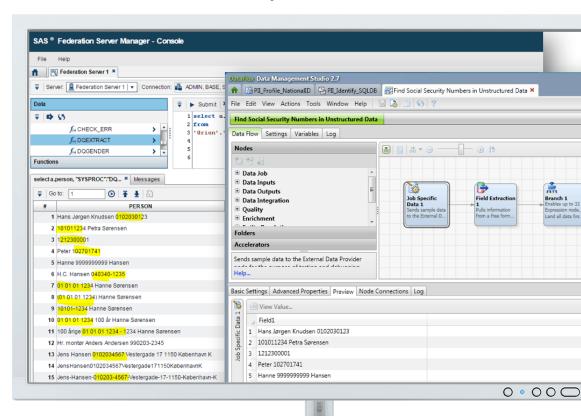




Personal Data Discovery

 Example: Extracting social security numbers using the Quality Knowledge Base for Personal Data.

- The same technique applies for ALL Personal Data Types ...
- Easily find Personal Data where data is mixed and messy





Find Personal Data in Unstructured Documents

Process

1

Convert
Document into
Readable Flow

2

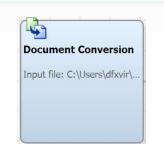
Categorize & Extract Personal Data

3

Aggregate & Present Results

PDF











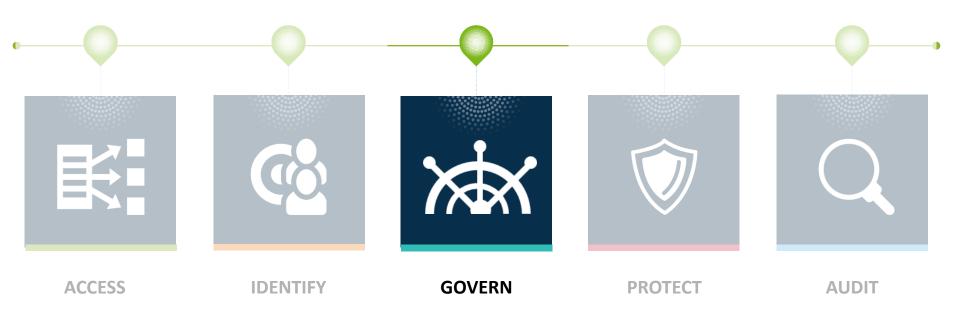
Personal Data Extraction from Unstructured Documents

A very simple example





5-Step Approach for Sustainable Compliance



60% of the organisations <u>believe they will be fined</u>, all as a direct result of GDPR

Source: OVUM, Dec. 2105 (366 Global IT organisations)



GDPR requires to leverage Personal Data as a corporate asset through the formal orchestration of

People

DPO, Processor, Controller, Subject, Accountability



Processes

Data Acquisition, Transfer, Analysis, Breach, Alteration, Destruction, Retention, Minimization, Consent Management





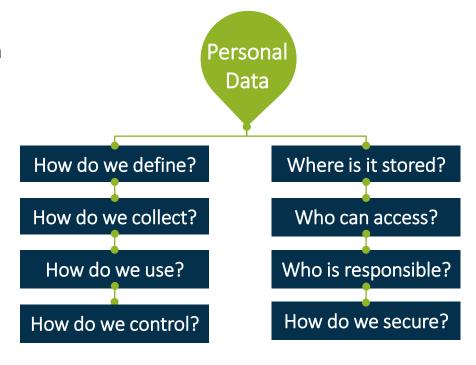
Technology

Data Access Data Quality Data Governance Risk Management



Defining Enterprise-wide Personal Data governance standards

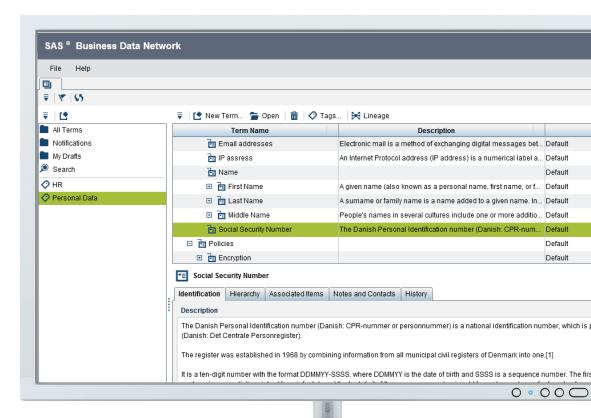
- Document Personal Data and GRC terms definition and concepts between Business, Legal & IT
- Browser-based application to manage & document data standards
- Assign roles and responsibilities
- Collaboratively define business terms
 & data quality standards
 - Term hierarchies
 - Custom term attributes
 - Search terms
 - Security and authorizations
 - Versioning & roll back
 - Fmail notifications
 - 3rd Party Software Integration





Defining and Govern What's Personal Data

- Automated Personal Data glossary
- Define Business Terms in order to align Business & IT
- Get a clear overview on roles & responsibility!

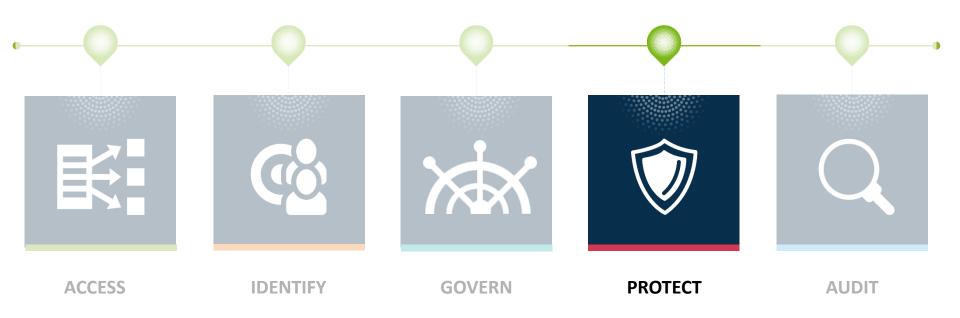




Defining and Govern Where's Personal Data

File Help Link Systems, Processes and MDM LASR Library | ▼ I New View... | E Details 💥 Lineage | ⊖ — ----- ⊕ **Q** \55 Details Filter Business Owners in data flows BR_RULE_CUSTOME C:\SAS\Config\Lev1\SASApp\SAS C:\SAS\Config\Lev1\SASApp\SAS BusinessRules Data Remediation LASR Libr. BR OUT RE Data Management LASR An. Object Type ID Object Type Name Directory R Library C:\SAS\Con SASApp - Logical Stored Pro. ■ Guarantees SASApp - Logical SASAppavaogical Workspace... SASApp - Workspace Server Data Management LASR Libr. Credit Risk STP Samples ■ Banking Data 🛅 Individual Capital T FX Swap C:\SAS\Config\Lev1\SASApp ■ Basic Indicator SASABASABD- Logical Connect S. nalytics Public Data/isual Analytics LASR DI Load Job Table (16) Customer_Targ Customers 🦠 Join Join Nable Loader Region BusinessPartner LASR Analytic Server - dmpr. PostalCode Country SQLSERV DI Job Helmut Is synonymous with Phone Superity File Writer 0 0 0 0 Fax CustomerID CompanyName targetfile

5-Step Approach for Sustainable Compliance



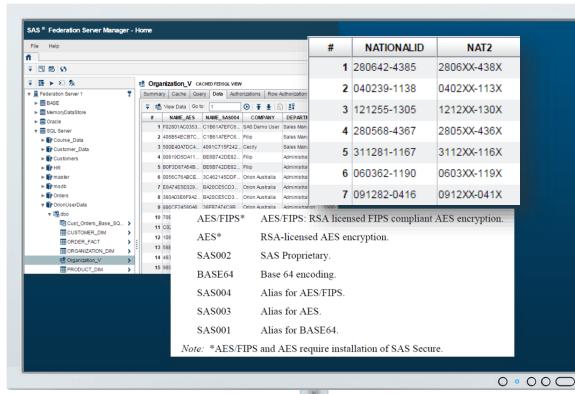
Among companies experiencing data breaches, internal actors were responsible for more than 43% of data loss, nearly 50/50 between intentional and accidental

S.sas.

Securing Personal Data abstracting the data source

Implementing a Data Access Gateway providing:

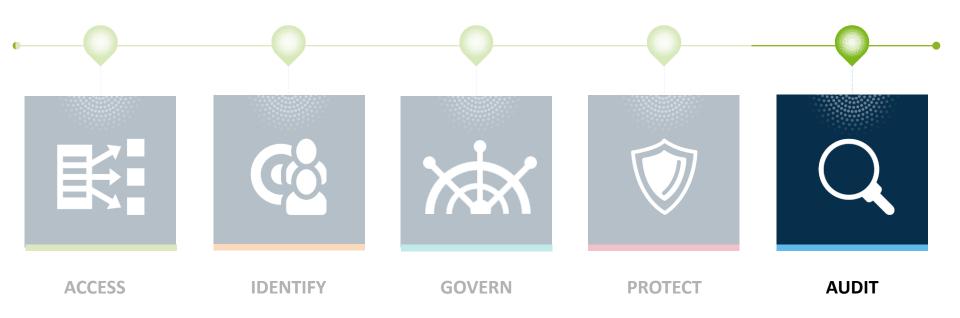
- Anonymization (removing PD)
- Pseudonymization (replacing PD)
- Encryption (encoding PD)







5-Step Approach for Sustainable Compliance

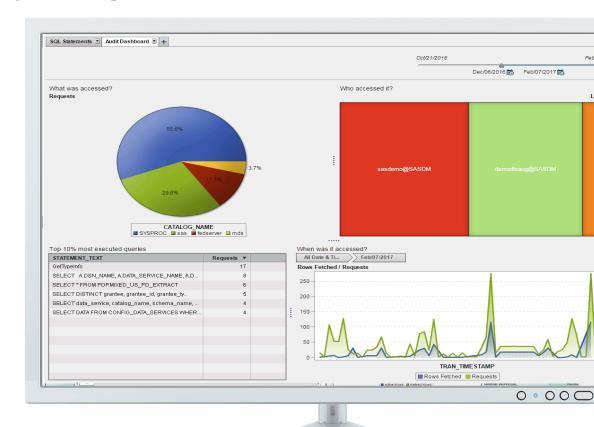


72 hours, is the time organisations have to report a breach. A failure to report a breach, when required to do so, could result in a fine in addition to the fine for the breach itself.

Ssas

Monitoring and Reporting on Personal Data Access

- Log and monitor usage of personal data.
- Audit usage of personal data to demonstrate compliance with privacy controls.
- Managing Data Quality to ensure the effectiveness of compliance measures and processes.





Monitoring and Reporting on Execution

- Monitor, Analyze and report on the effectiveness of compliance processes and controls
- Monitor, analyze and report to prove that personal data is not at risk.
- Monitor, analize and report on systems access, to detect eventual data breaches.





5-Step Approach for Sustainable Compliance





SAS for Personal Data Protection





SAS for Personal Data Protection - Accelerator





Why SAS?

Time & Cost

- Pre-built
 GDPR assets
 based on
 proven
 technology
- Quick Start Services & Partners

Open

- Connect to any source, anywhere, anytime
- Not a black box – the GDPR accelerator is expandable

Complete & Integrated

- Centralized security management
- Virtual userbased data access across many sources

Solid DQ Foundation

- Proven
 Quality
 Knowledge
 Base available
 in most
 languages
- Single view of individuals for effective consent management, right to be forgotten

Beyond compliance

- Building the foundation for sustainable data governance
- Supporting data-driven initiatives for new business benefits



What's next?

Resources

- SAS for GDPR Solution Brief
- SAS 5-Step for GDPR Whitepaper
- Webinar

Hands-on workshop

- Formalize needs
- Identify challenges & gaps
- Raise internal awareness
- Experiment with SAS solution
- Identify way forward

PS Quick Start Offering

- Kick-Off Workshop
- Installation & basic configuration
- Implementation for 1 data source
- Coaching of your resources





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