

DEVELOPING A PSEUDONYMIZATION SERVICE FOR THE UNIVERSITIES

A federated project of the SURF cooperation

SURF

Background knowledge of the project

- 2017: A 'Coördinerende SURF Contactpersonen (CSC)– WO project'
- What is the problem?
 - The GDPR took effect in 2018: The universities want to show that they take this seriously.

2017-2018 Collection of requirements

- The focus is on data linkage, because this came out of previous project with the medical centers.

- 1 Storage and archiving of personal data
- 2 Pseudonymization of personal data
- 3 Key management: generation/production-, storage-, maintenance and destruction of keys
- 4 Maintenance of encrypted personal data
- 5 Data linkage
- 6 Help desk for researchers
- 7 Informed consent

2018 The final decision: pseudonymization

- Two workshops on to decide what the projects want.
- Second decision: we are not going to develop it ourselves, but buy it in the market.

2019: Request for proposal

Scope: Structured data of Dutch Universities of different research areas like biology, business administration, criminology, economy, psychology and sociology

- Use case 1: Small-case studies (irreversible pseudonymization)
- Use case 2: Studies that are updated periodically
- Use case 3: Reversible pseudonymization
- Use case 4: Anonymization, for instance public data
- The RfP was won by ZorgTTP and Privacy Analytics

Pseudonimisatie proces: Bron

Institute source

Name	D. Blazoen
Date of Birth	19/11/1951
Gender	M
Postal code	1077 CJ
House number	38
Country code	NL
BSN	12345678
Blood pressure	135/88
Temperature	36.5

Source data

Name	
Date of Birth	19/11/1951
Gender	M
Postal code	1077 CJ
House number	
Country code	NL
BSN	
Blood pressure	135/88
Temperature	36.5
Pseudonym (Name)	DS2N56HDMO
Pseudonym (BSN)	DS2BU72#DFF

Pseudonymization
personal data

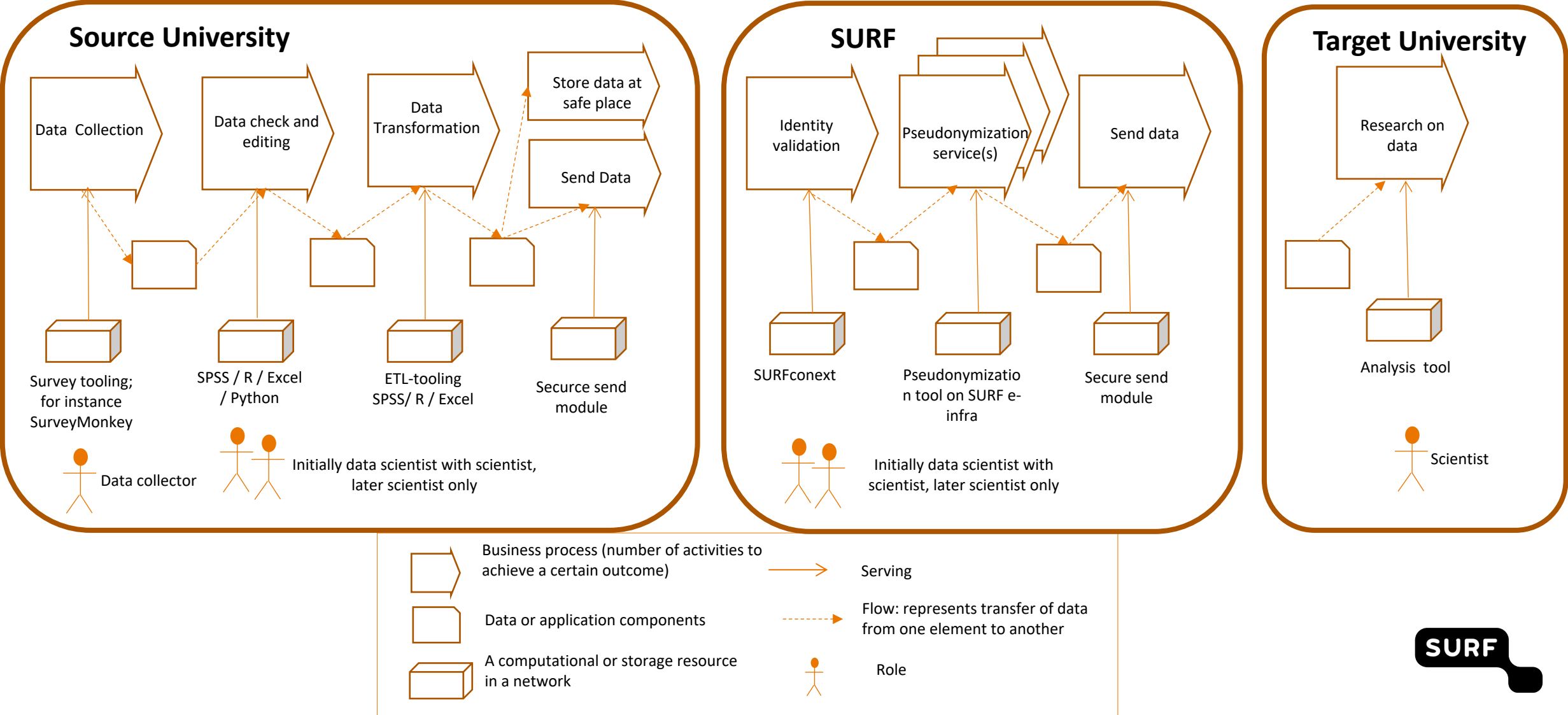
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Aggregation
personal data

2020: De-identification pilot

- Continue with ZorgTTP
- Emphasis of the pilot is on de-identification, pseudonymization or anonymization, of personal data.
- Business cases: At the moment there are all kinds of different solutions of which higher management is not aware of, let alone the knowledge about their quality. From governance point-of-view it is therefore desired to introduce an uniform way of de-identification that complies to the (inter-)national and local privacy and security guidelines.
- Design en implement tools and organizational process (workflows) around the tools

Use-case 1 small-case studies workflow



De-identification pilot: where are we now?

- ZorgTTP has presented their idea to implement use case 1 and use case 3.
 - For irreversible pseudonymization that runs locally in the web browser
 - For reversible pseudonymization they re-use software they already have. They have connect this to the web browser solution.
- We designed a first version of a workflow for small case studies (use case 1)

De-identification pilot: The future

- To make the pilot service a production service.
- To have a uniform as possible and practical organizational process for all research institutes.

**PLACE THE CLOSING
SENTENCE HERE**



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