

# Collaborative Data Documentation

## based on OwnCloud

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## Outline

Introduction

A Collaborative Environment

Demo

### 1. Introduction

### 2. A Collaborative Environment

### 3. Demo

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Introduction

A Collaborative Environment

Demo

### 1. Introduction

### 2. A Collaborative Environment

### 3. Demo

## SFB882 // "From Heterogeneities to Inequalities"

Introduction

A Collaborative Environment

Demo

## Research on social Inequalities:

How do heterogeneities lead to social inequalities?

And what are the social mechanisms that underlie this process?

- 19 projects, in the fields:

<b>A</b>	in individual life course (A1 - A6)
<b>B</b>	in context of organizations (B1 - B5)
<b>C</b>	beyond the nation-state (C1 - C5)
<b>Z</b>	central services (Z, MGK, <b>INF</b> )

# INF - Data and Infrastructure Project for SFB882 // aims

Introduction

A Collaborative Environment

Demo

## 1. Work

- Bundling of IT resources for projects and for the SFB as a whole
- Supporting of (transdisciplinary) research practice
- Adapting methods and way of working into VRE

## 2. Research Platform

- Aspects of Research Data Management
- Documentation and Archiving
- Research data re-use → replicability, secondary analysis

## Outline

Introduction

A Collaborative Environment

Demo

1. Introduction

2. A Collaborative Environment

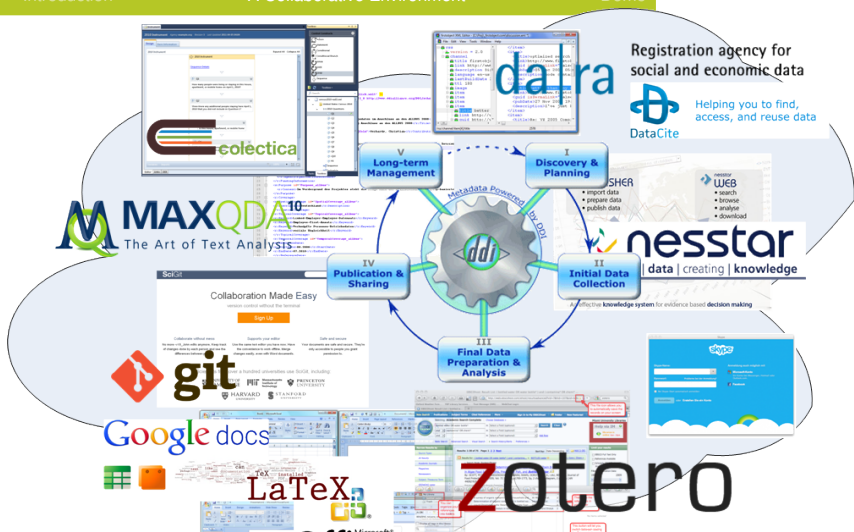
3. Demo

# VRE // virtual research environment for social sciences

Introduction

A Collaborative Environment

Demo

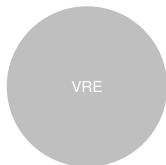


# VRE for SFB882 // aims and visions

Introduction

A Collaborative Environment

Demo



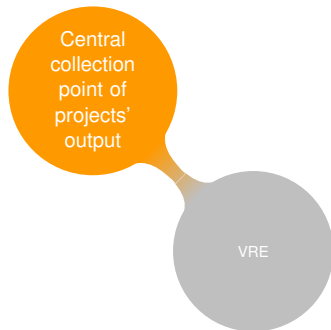


## VRE for SFB882 // aims and visions

Introduction

A Collaborative Environment

Demo

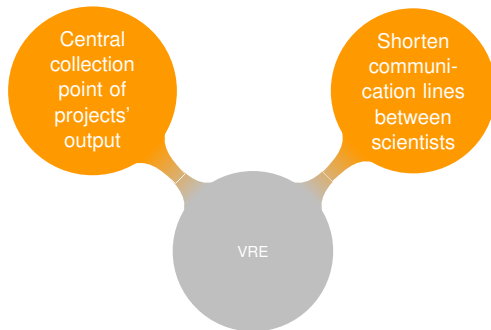


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Introduction

A Collaborative Environment

Demo

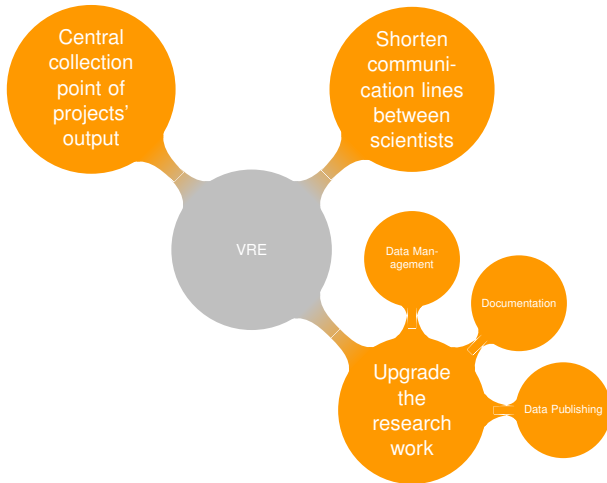


## VRE for SFB882 // aims and visions

Introduction

A Collaborative Environment

Demo

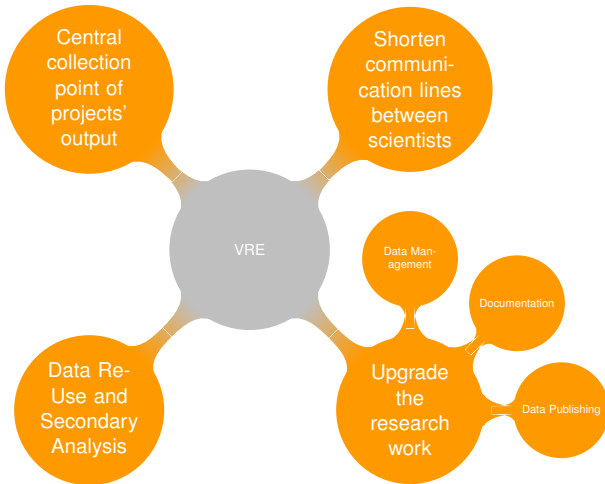


# VRE for SFB882 // aims and visions

Introduction

A Collaborative Environment

Demo



# Documentation within a collaborative environment? // yes!

Introduction

A Collaborative Environment

Demo

- facilitate data re-use between projects,
- platform which includes **all** research artefacts

## Our Goals

- Benefits for standardized and interoperable documentation are almost not there
- Increase acceptance of data documentation
  - Tools: Easy-to use and easy to learn
  - Bundling already established tools into one system
  - Abstraction from technical details (metadata standards)
  - Almost no additional effort during the research work
- Semi-automatic documentation and metadata generation **during** the research work - **not after!**
- Integration and Interoperability between institutional services

## Data Documentation within OwnCloud // the problem

Introduction

A Collaborative Environment

Demo

- When documenting their work, our researchers (= Non-DDI experts) will have to interact with some kind of DDI editor component

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Introduction

A Collaborative Environment

Demo

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- Editors usually involve a great amount of form filling

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Introduction

A Collaborative Environment

Demo

- When documenting their work, our researchers (= Non-DDI experts) will have to interact with some kind of DDI editor component
- Editors usually involve a great amount of form filling
- This combination is a *nightmare* in several aspects!





# Data Documentation within OwnCloud // the problem

Introduction

A Collaborative Environment

Demo

- Possible problems (not exhaustive):

# Data Documentation within OwnCloud // the problem

Introduction

A Collaborative Environment

Demo

- Possible problems (not exhaustive):
  - Consistency (free text input, how to ensure syntactic/semantic correctness?)
  - Security (Code injections possible, input sanitization required)
  - Usability (Textfields are bad from UI/HMI perspective, high cognitive effort)

# Data Documentation within OwnCloud // the problem

Introduction

A Collaborative Environment

Demo

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Introduction

A Collaborative Environment

Demo

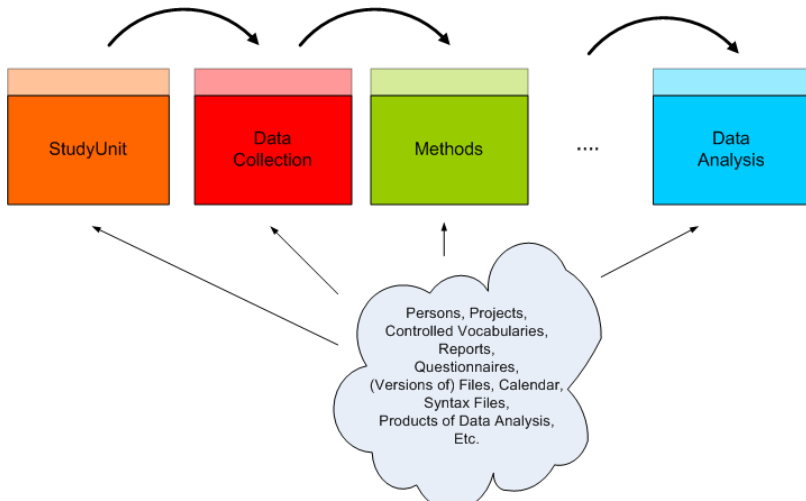
- Possible problems (not exhaustive):
  - Consistency (free text input, how to ensure syntactic/semantic correctness?)
  - Security (Code injections possible, input sanitization required)
  - Usability (Textfields are bad from UI/HMI perspective, high cognitive effort)
- So what can we do to wake up from this nightmare?
- Our editor is embedded in a Virtual Research Environment - make use of it!
- Tap into several different sources of information to either avoid form filling altogether or at least offer some useful preselected options

## Data Documentation within OwnCloud // the idea

Introduction

A Collaborative Environment

Demo



# Outline

Introduction

A Collaborative Environment

Demo

1. Introduction

2. A Collaborative Environment

3. Demo

## Demo // Hands on - work in progress

Introduction

A Collaborative Environment

Demo

# Demo!

## Summary and Conclusions

Introduction

A Collaborative Environment

Demo

- VRE for SFB882 is work in progress
- Goals: support the processes of conducting research, but also ensure high-quality data documentation and long-term archiving of the project output
- Current core components:
  - Collaboration: WIKI, Calendar
  - Data Storage: File Upload, File Linkage
  - Integration of VRE to institutional services
  - Development of specific documentation workflows and advisory support
- Future Work: Export of a DDI-based data documentation



## The End // questions?

Introduction

A Collaborative Environment

Demo

# Thank you for your attention!

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