



explore.understand.share.

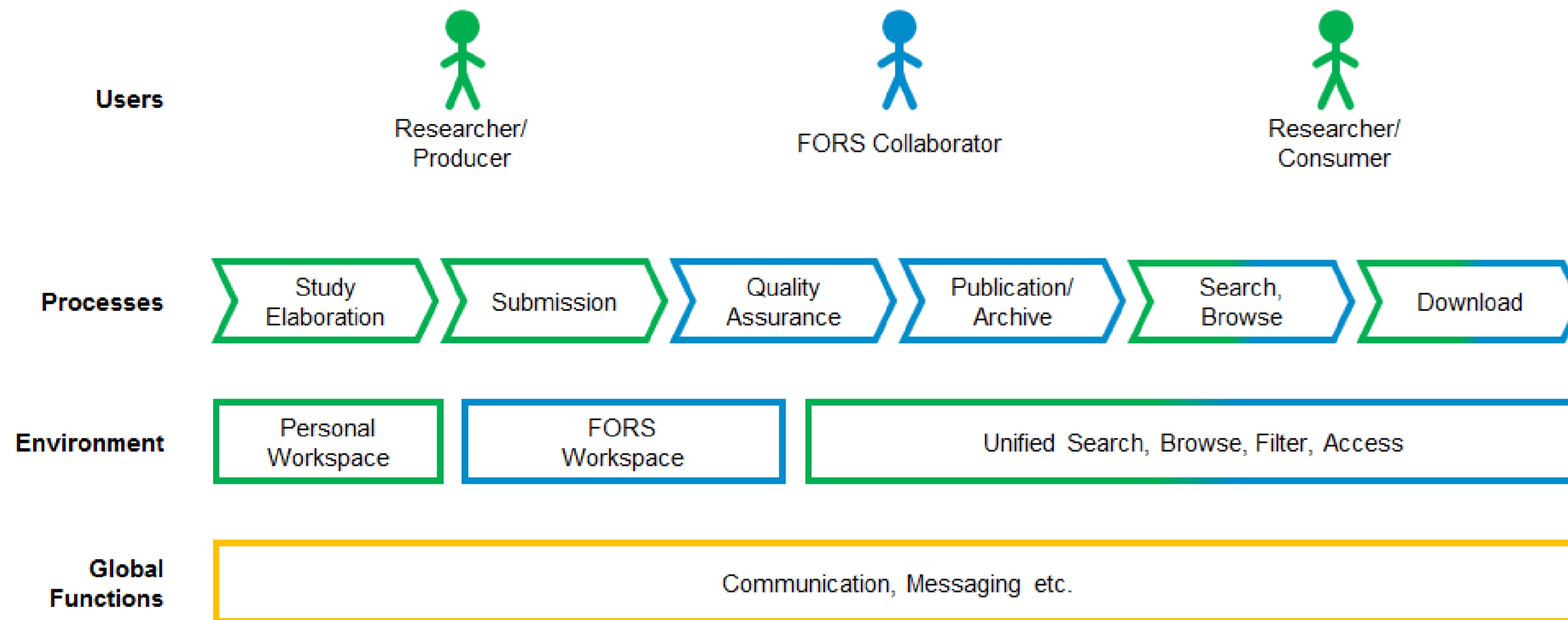
Stefan Buerli



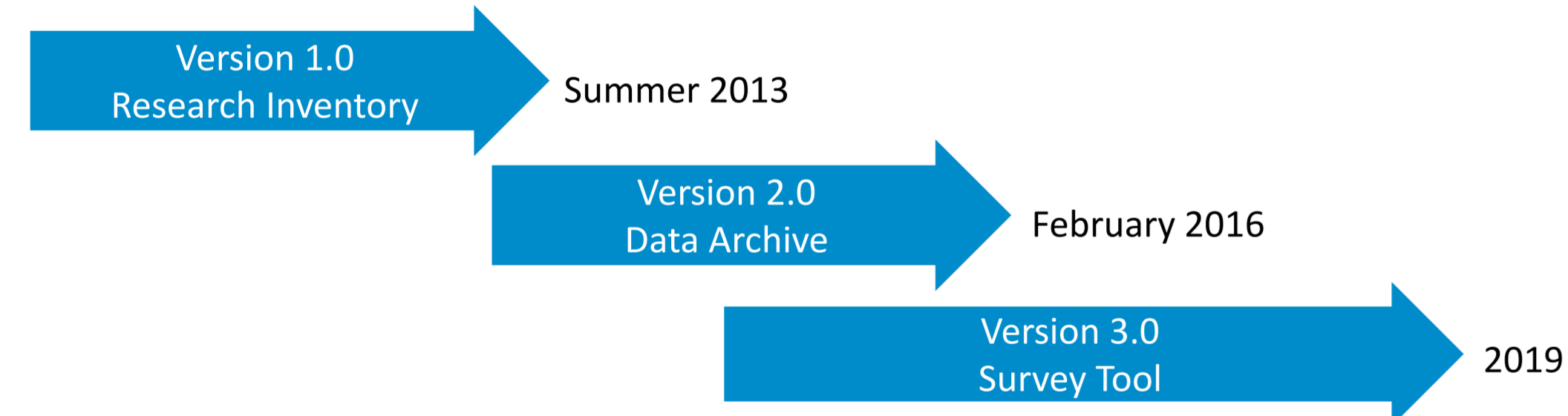
Why and how develop a web-based data archiving platform?

Needs

- Renewal of the infrastructure
- Services covering the entire life cycle of research data
- Simplified archiving, publishing and access
- Integrated workspace for collaborators and researchers
- Promotion of secondary analysis and data sharing



Development phases



FORSbase: FAIR principles

- **FINDABLE:**
 - Each dataset has its own DOI; Rich metadata freely available
- **ACCESSIBLE:**
 - Retrievable by DOI, study and dataset metadata freely accessible
 - Most data immediately accessible with an email address from an academic institution
- **INTEROPERABLE:**
 - OAIS compliant; DDI standard
- **RE-USABLE:**
 - clear usage license with possibility of customizing access conditions

On a technical note:

- Programming language: Python
- Framework: Django
- Database: MySQL
- File repository: Fedora Commons
- Front-end: HTML5, JQuery, Bootstrap

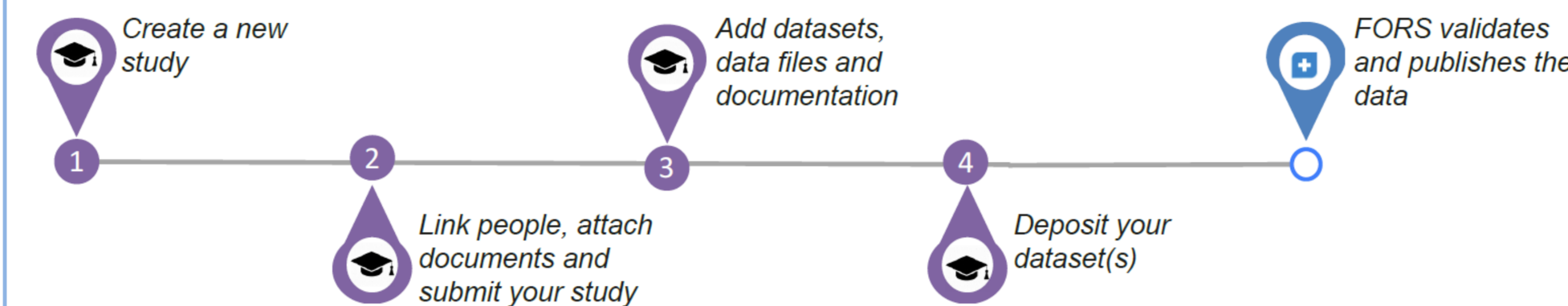
Contact us: dataservice@fors.unil.ch

FORSbase: Key features

1. Online data deposit
3. Personal messaging system

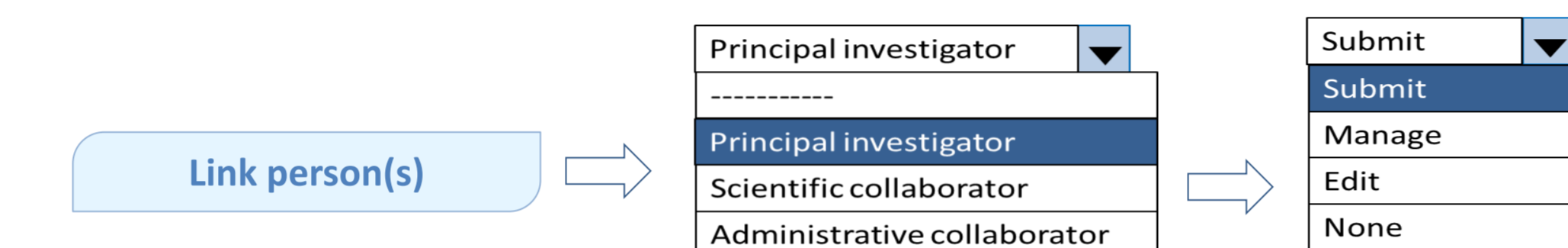
1. Online data deposit

The procedure

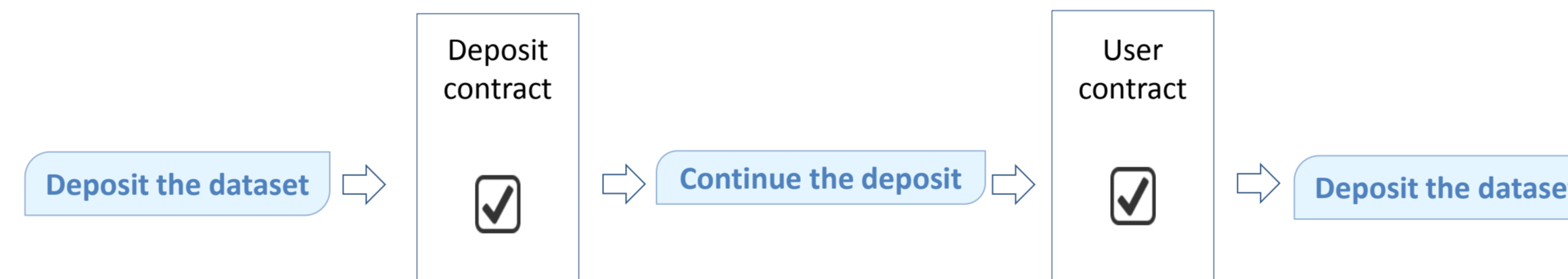


Advantages of depositing data in FORSbase

- FORSbase offers researchers a personal workspace to secure and preserve files.
- To facilitate working in research teams, FORSbase allows linking people with different roles and rights to a study.



- The online deposit allows researchers to deposit their data at their own rhythm.
- Data files and documentation can be uploaded.
- Conditions and special restrictions for access can be easily configured.
- The deposit contract and user contract can conveniently be accepted online.



- Data producers receive feedback about the usage of their deposited data.

Why share data?

- Data sharing is the future and increasingly required by third parties.
- Deposited data will remain accessible over time and across new technologies.
- Sharing data increases the number of citations.
- By sharing their data researchers can make themselves better known and add visibility to their work.

3. Personal messaging system

- Getting connected with other researchers is easy.
- Communication between FORS collaborators and FORSbase users is facilitated.
- Automated alerts/requests concerning downloads of datasets.

Sender	Subject	Received
Marieke Heers	Interesting data	12.01.2016 09:01:44
Alexandra Stam	Salary increase?	11.01.2016 15:01:15
Alexandra Stam	Best boss ever!	11.01.2016 14:01:15

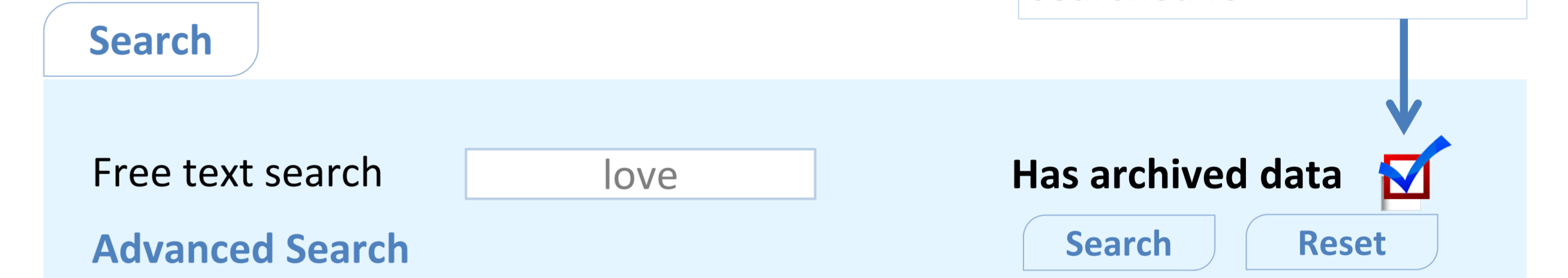
2. Online access to the catalogue and data
4. Single log in

2. Online access to the catalogue and data

The FORSbase catalogue

- 10,900 project descriptions.
- 616 datasets available for download.

Indicates that only studies with available data are searched for



- One Stop Shop.
- Accessing datasets in the catalogue only takes a few mouse clicks.
- Data can be downloaded immediately.
- The workspace has a dedicated place to manage all data acquisitions.
- Metadata and documentation can be accessed without registration.



Why re-use data?

- **Analytical potential**
 - Research data often remain largely un(der)exploited. Secondary data hold important analytical potential.
- **Costs and time**
 - Data collection is an expensive process. With FORSbase, researchers can access data for free and start analyzing immediately.
- **Learning and teaching**
 - Secondary data are a valuable resource for training with real data.

4. Single log in

- A single FORSbase account to access the different services.
- FORS Nesstar integration.
- Easier handling of all data users.
- Improved analytics of the FORS data user community.

Username:

Password:

Start exploring FORSbase yourself:
<http://forsbase.unil.ch/>

