

University of Stuttgart
university library

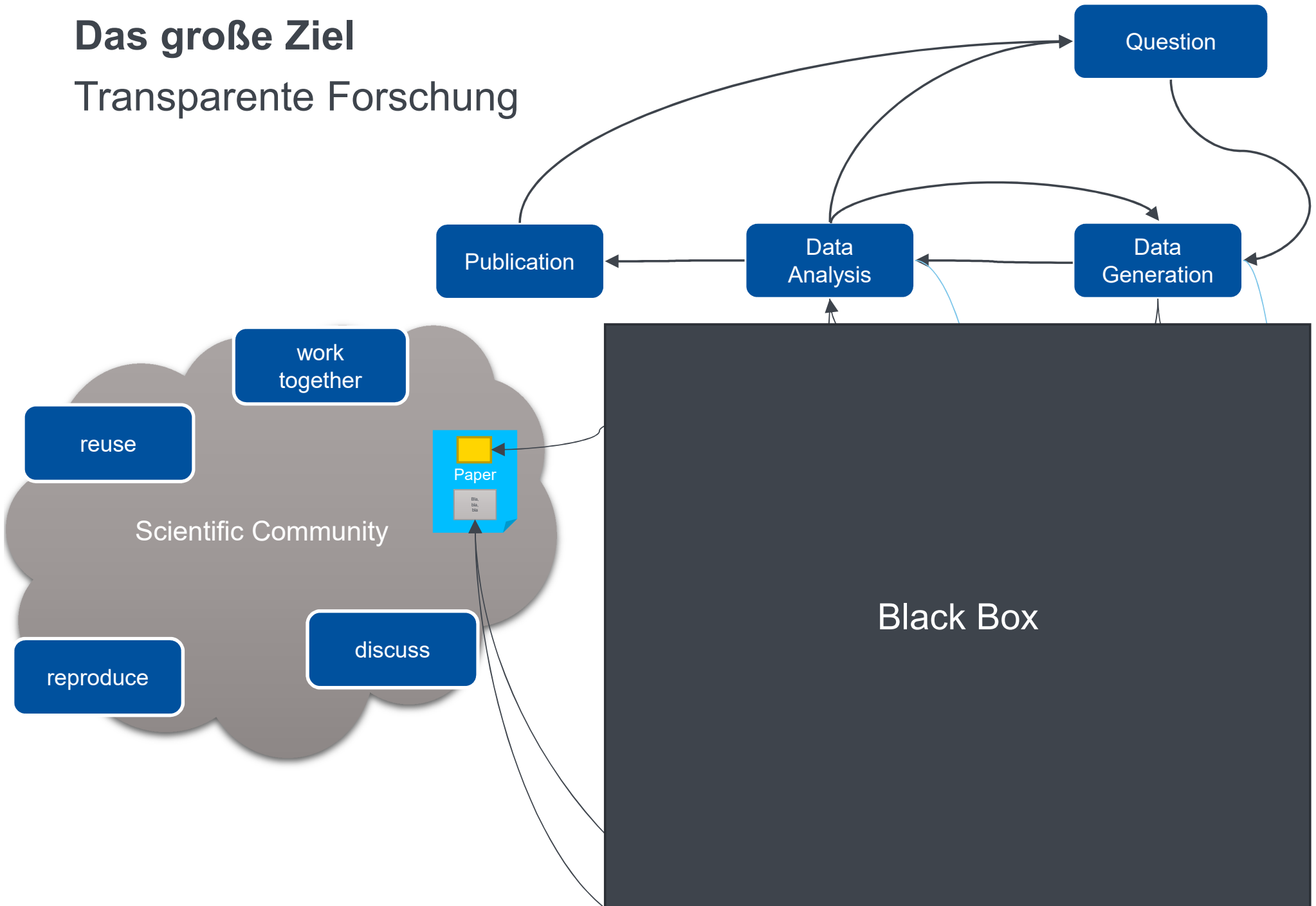


DaRUS

Das Datenrepositorium der Uni
Stuttgart

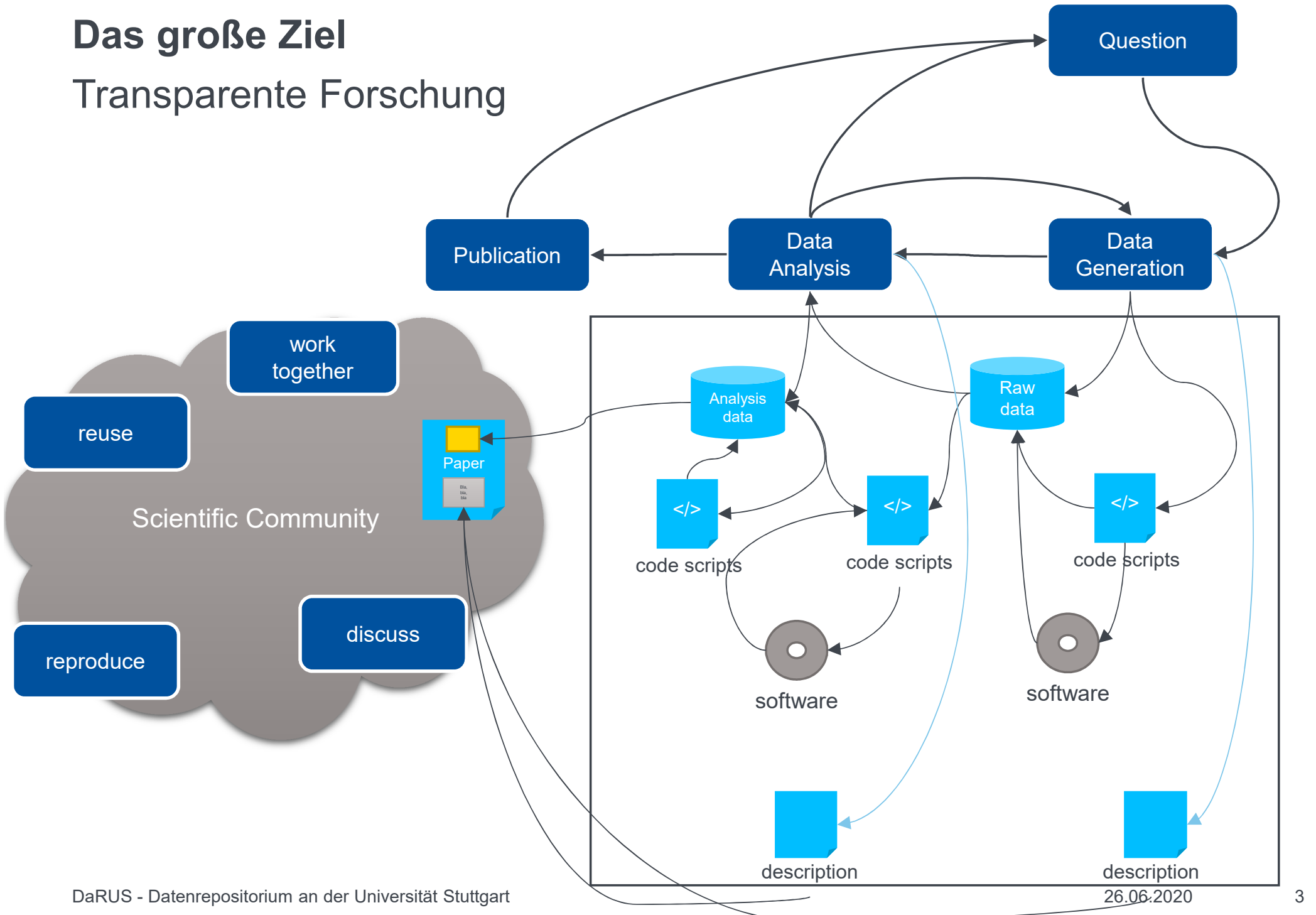
Das große Ziel

Transparente Forschung



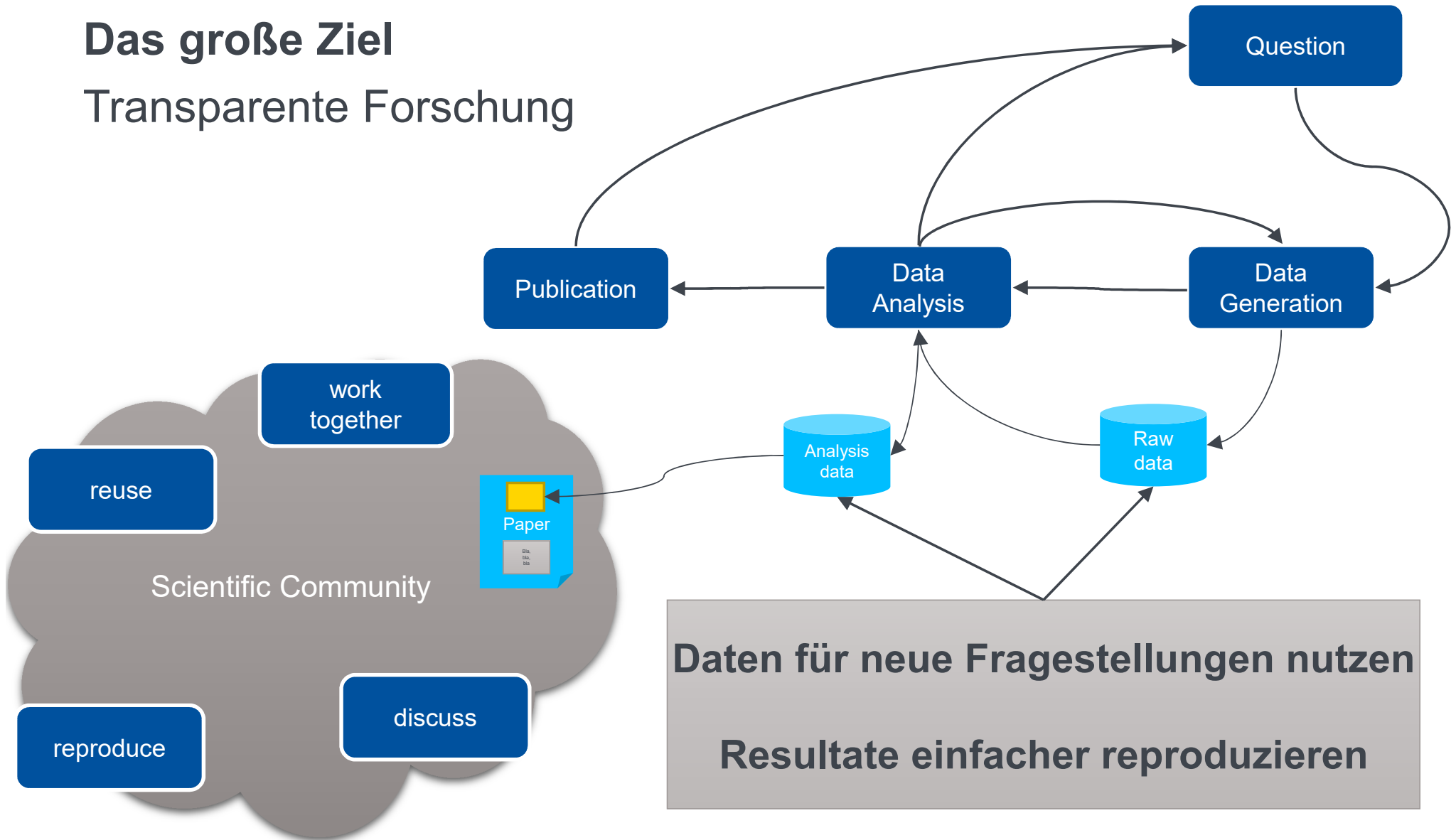
Das große Ziel

Transparente Forschung



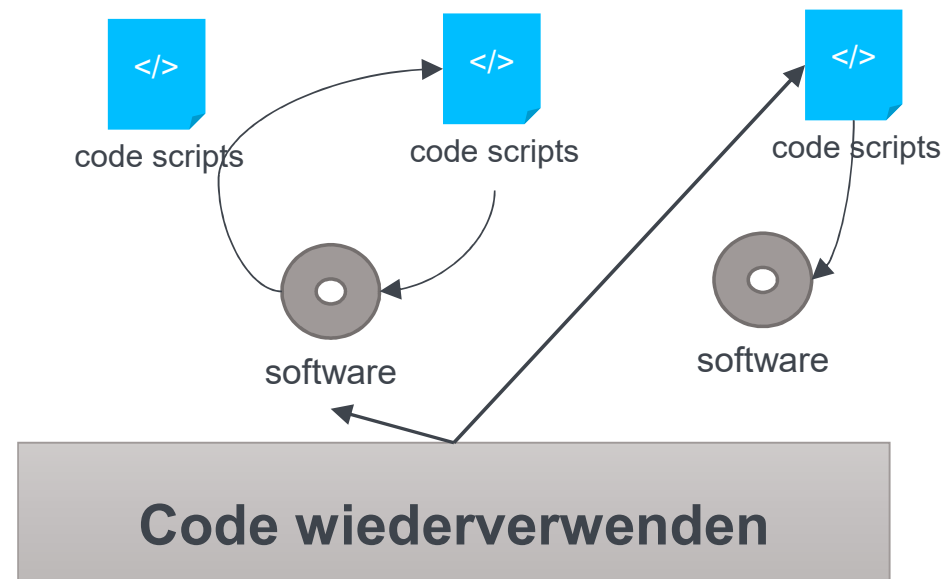
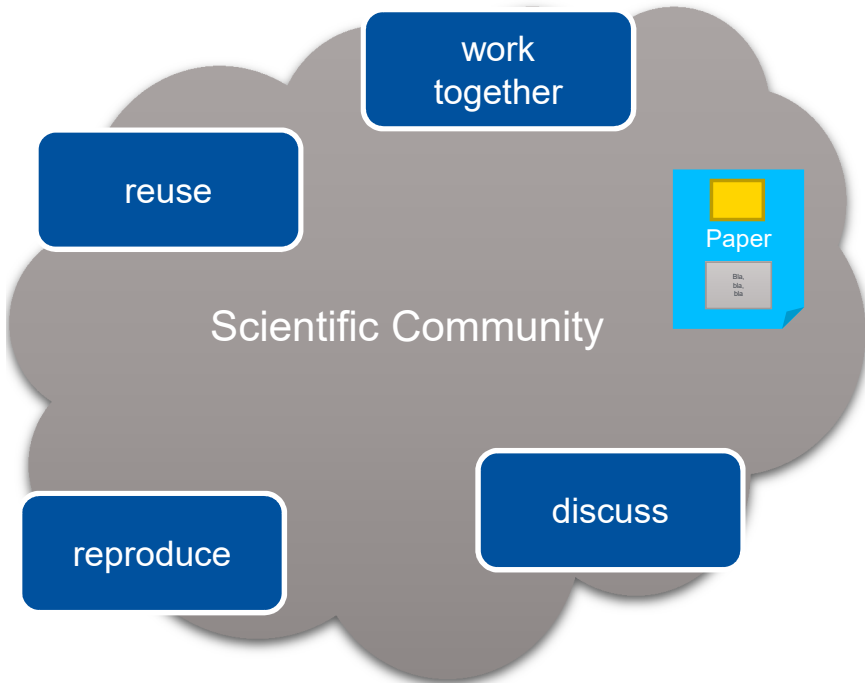
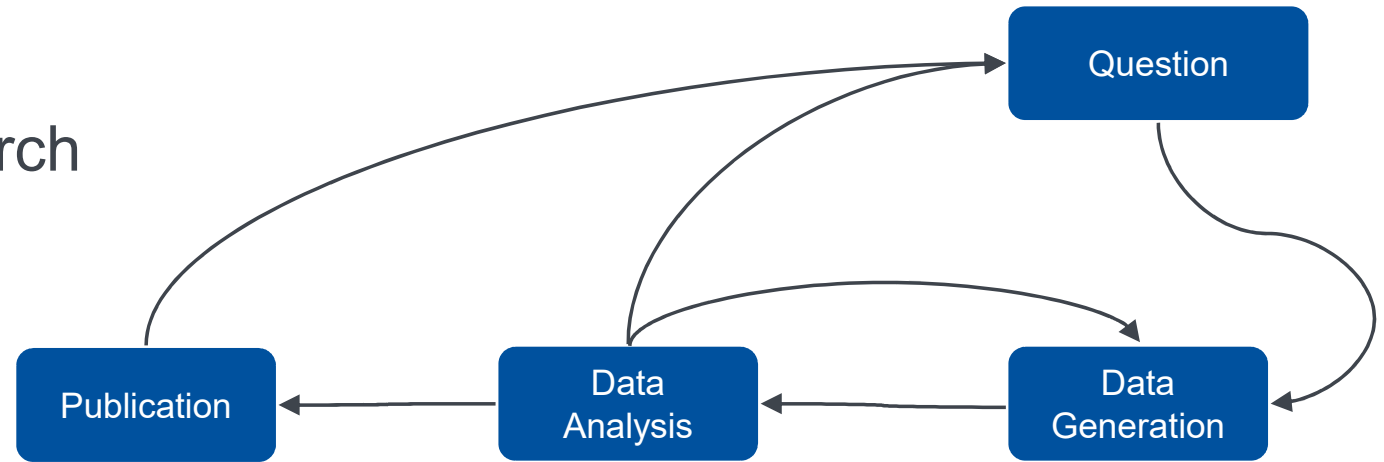
Das große Ziel

Transparente Forschung



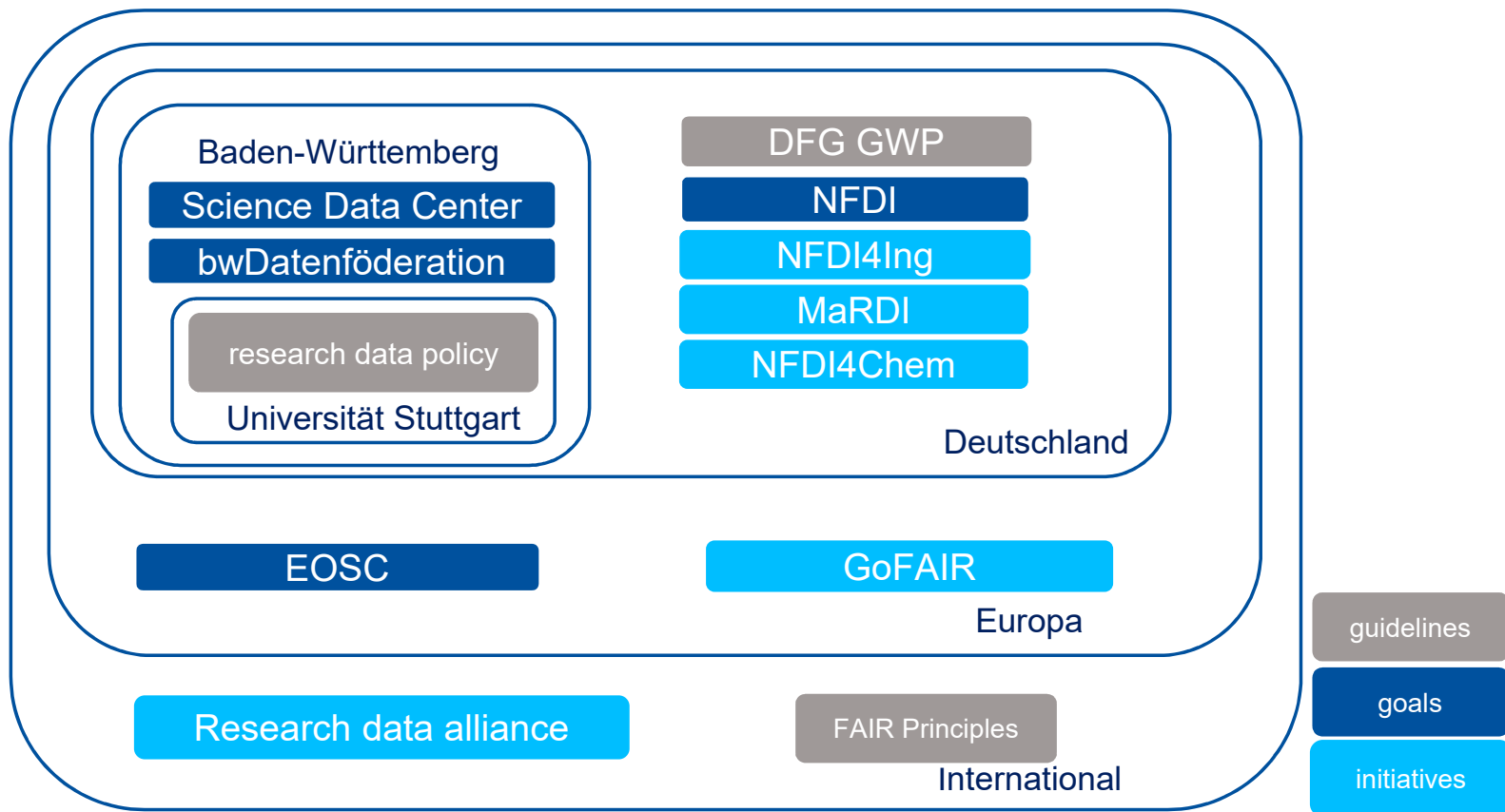
The Higher Goal

Transparent Research



Politik

Initiativen und Entwicklungen



FAIR data

Daten sollen FAIR sein:

- **F**indable

persistent identifiers

- **A**ccessible

open

protocols

authorization

accessible

searchable

- **I**nteroperable

standardized

metadata

rich

- **R**eusable

using
vocabularies

documenting
provenance

licenses

<https://www.force11.org/group/fairgroup/fairprinciples>

Aktivitäten an der Universität Stuttgart

Betrieb DaRUS

(Einführungsgespräche, Einrichten von Dataverses, DaRUS-Admin-Treffen, Updates, Monitoring, Backups, Support)

Koordination & Vernetzung

FDM-AG, NFDI, AK FDM, TU9, RDA, forschungsdaten.info, Speichergroßgeräteantrag

Entwicklung

Schnittstellen, Publikationsworkflow, Metadatenautomatisierung

Forschung

SuSI, ReSUS, DFG-SimExData, Metadata4Ing

Öffentlichkeitsarbeit

FoKUS-Website, Blog, Newsticker, Newsletter

Schulung + Beratung

GRADUS, TenureTrack-Profes, Antragsberatung, Hands-On Workshops, Carpentries

DaRUS

University of Stuttgart
Germany

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DaRUS (University of Stuttgart)

Metrics 947 Downloads Contact Share

This is the data Repository of the University of Stuttgart.

IRS Institute of Space Systems
SFB 1313
i3t Institute of Thermodynamics and Thermal Process Engineering
SimTech Stuttgart Center for Simulation Science (SC SimTech)

Search this dataverse... Find Advanced Search

1 to 10 of 75 Results

Supplemental Material for Case Study about Challenges in Soft Tissue Manipulation
Feb 10, 2020 - 2019 M2VIP Challenges in Soft Tissue Manipulation

Wnuk, Markus-Christian; Jaenech, Florian; Tomcik, David Adrian; Chen, Zixiao; Tarfurth, Jonathan; Kandasamy, Sivakumar; Shahabi, Jalli; Garrett, Amy; Mahmoudinezhad, Masoumeh H.; Csicszar, Akos; Xu, Weiliang; Rohrlé, Oliver; Verf, Alexander, 2020. "Supplemental Material for Case Study about Challenges in Soft Tissue Manipulation". <https://doi.org/10.18419/darus-482>, DaRUS, V1

Supplemental image and video material for the paper "Challenges in robotic soft tissue manipulation - Problem identification based on an interdisciplinary case study of a teleoperated drawing robot in practice" presented at the 2019 conference M2VIP. The presented results are the...

Vor allem genutzt für:

- Veröffentlichung von Daten
- Teilen von Daten im Projektkontext

Systemauswahl seit 01/18

- Anforderungsdefinition
- Systemtest (Dspace, Invenio, DataVerse)

Testbetrieb seit 10/18

- Regelmäßige Treffen mit Testnutzern
- Entwicklung von:
 - Monitoring
 - Backups
 - Nutzungsbedingungen
 - Datenschutzerklärung
 - Automatisierungstools
 - Metadatenblöcken

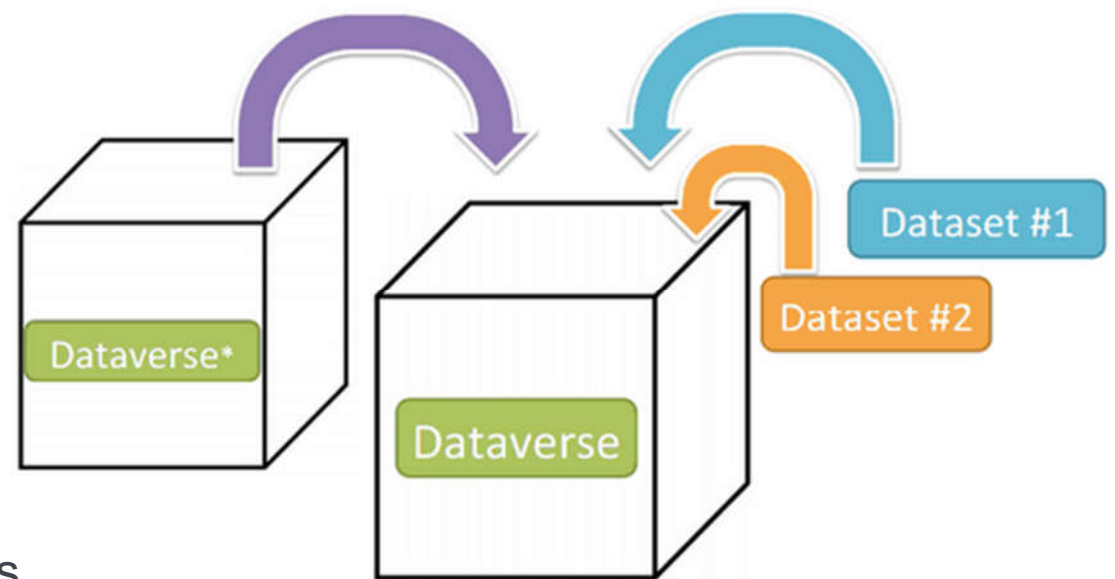
Produktiver Pilotbetrieb seit 10/19

DaRUS

Daten-Repository der Universität Stuttgart

Basiert auf der Open-Source Software [Dataverse](https://dataverse.org/) (Harvard IQSS)

<https://darus.uni-stuttgart.de>

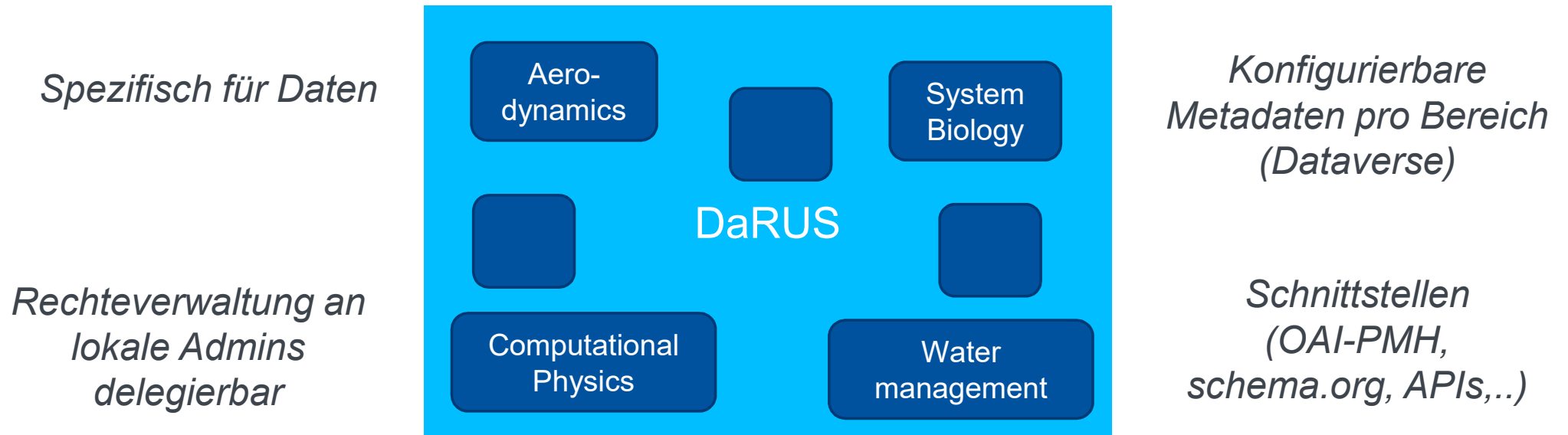


- Hierarchische Struktur von Dataverses
- Eigene Metadatenkonfiguration pro Dataverse
- Rechte-Management pro Dataverse

Source: Dataverse User Guide,
<http://guides.dataverse.org/en/latest/user/dataverse-management.html>

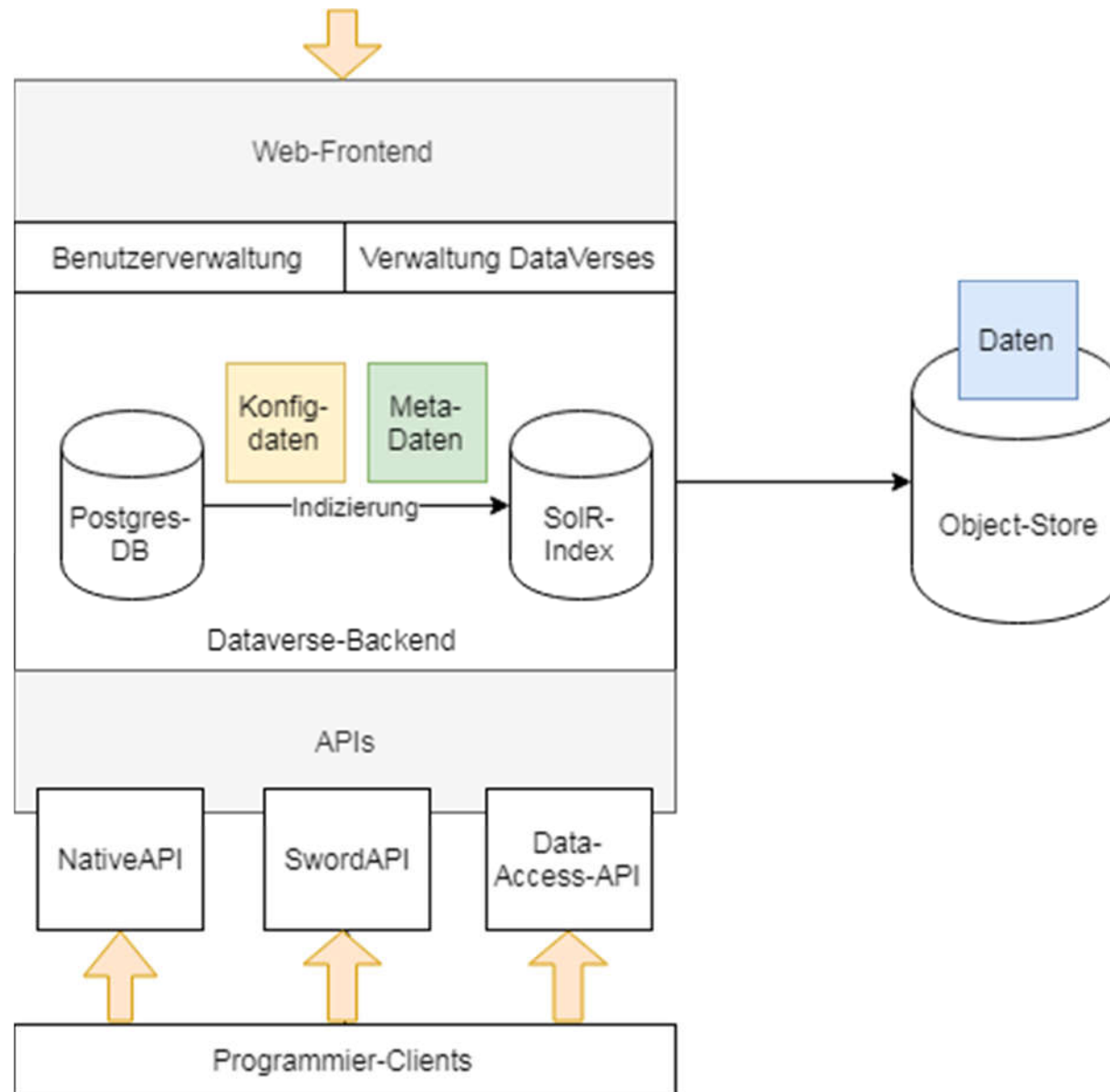
Warum Dataverse?

Nette, aktive und offene Entwicklercommunity

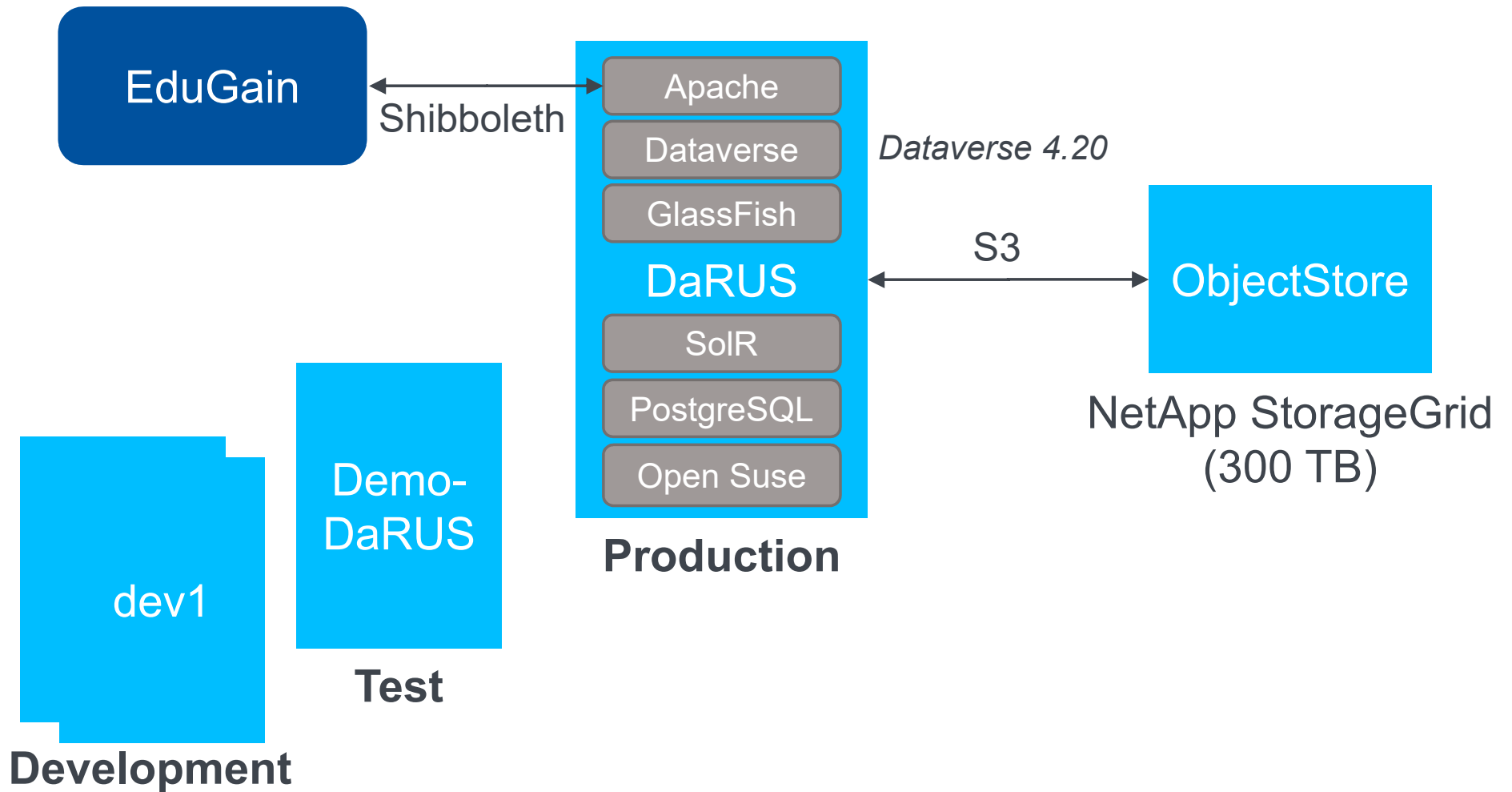


Disziplinspezifische Bereiche in
einem institutionellen Repository

Technische Grundlagen



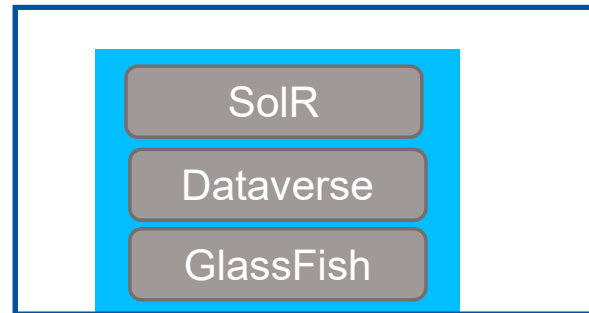
Architektur



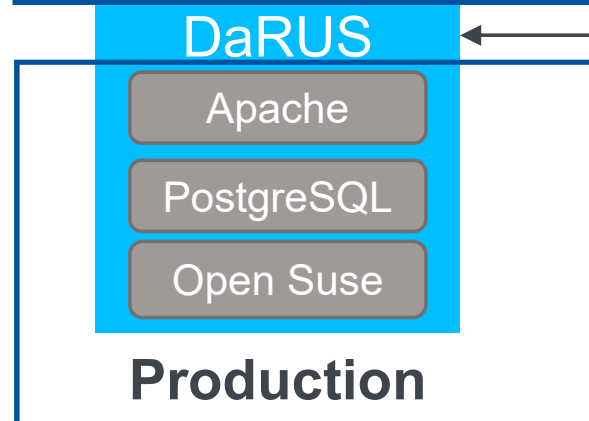
Architektur

Arbeitsteilung

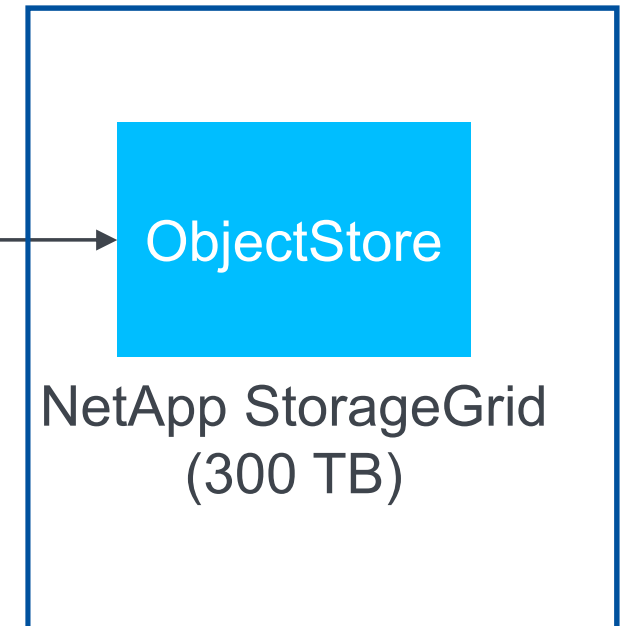
Verwaltet von FoKUS



Verwaltet vom
Virtualisierungsteam
des Rechenzentrums
(TIK/NFL)

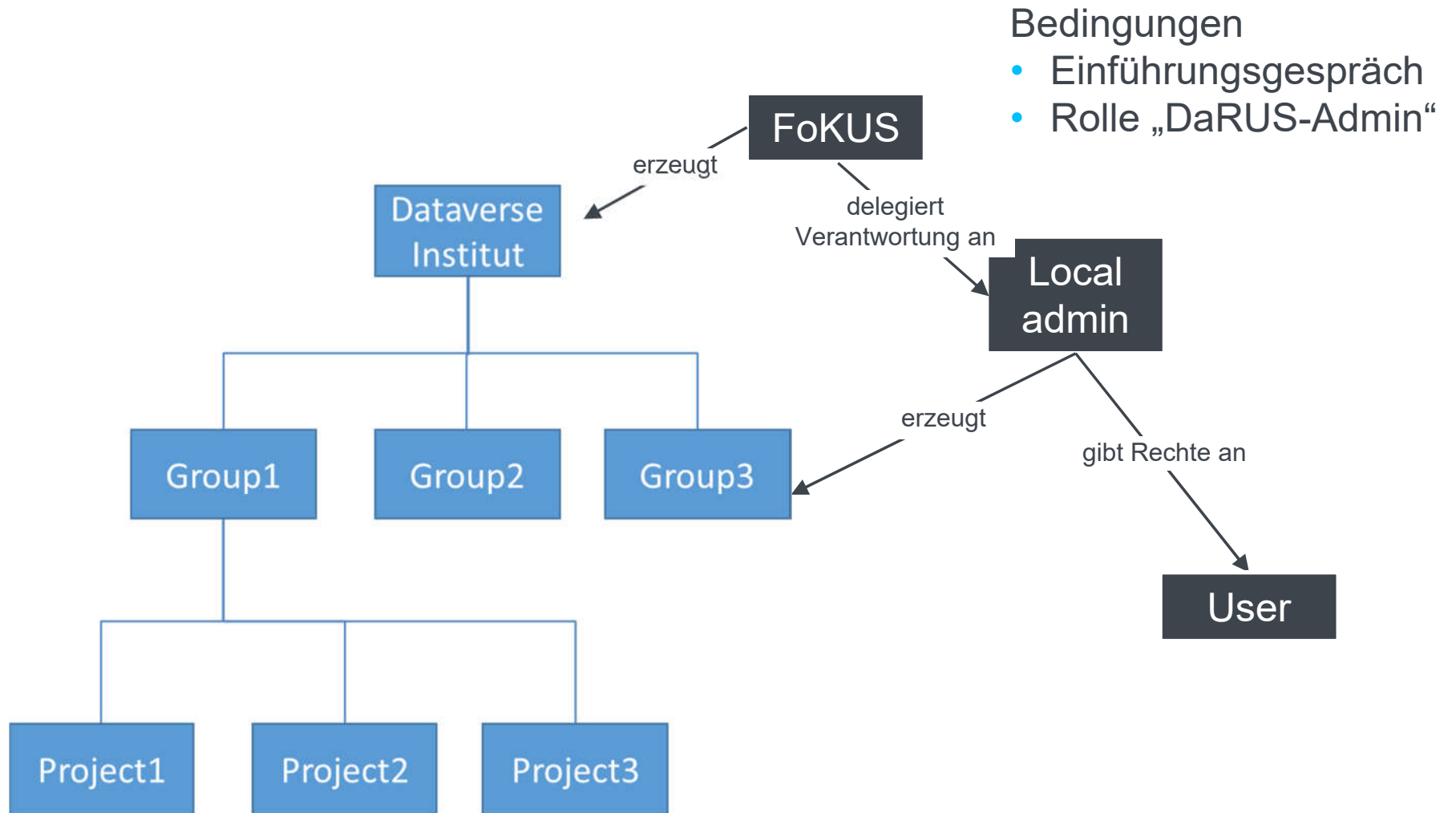


DaRUS



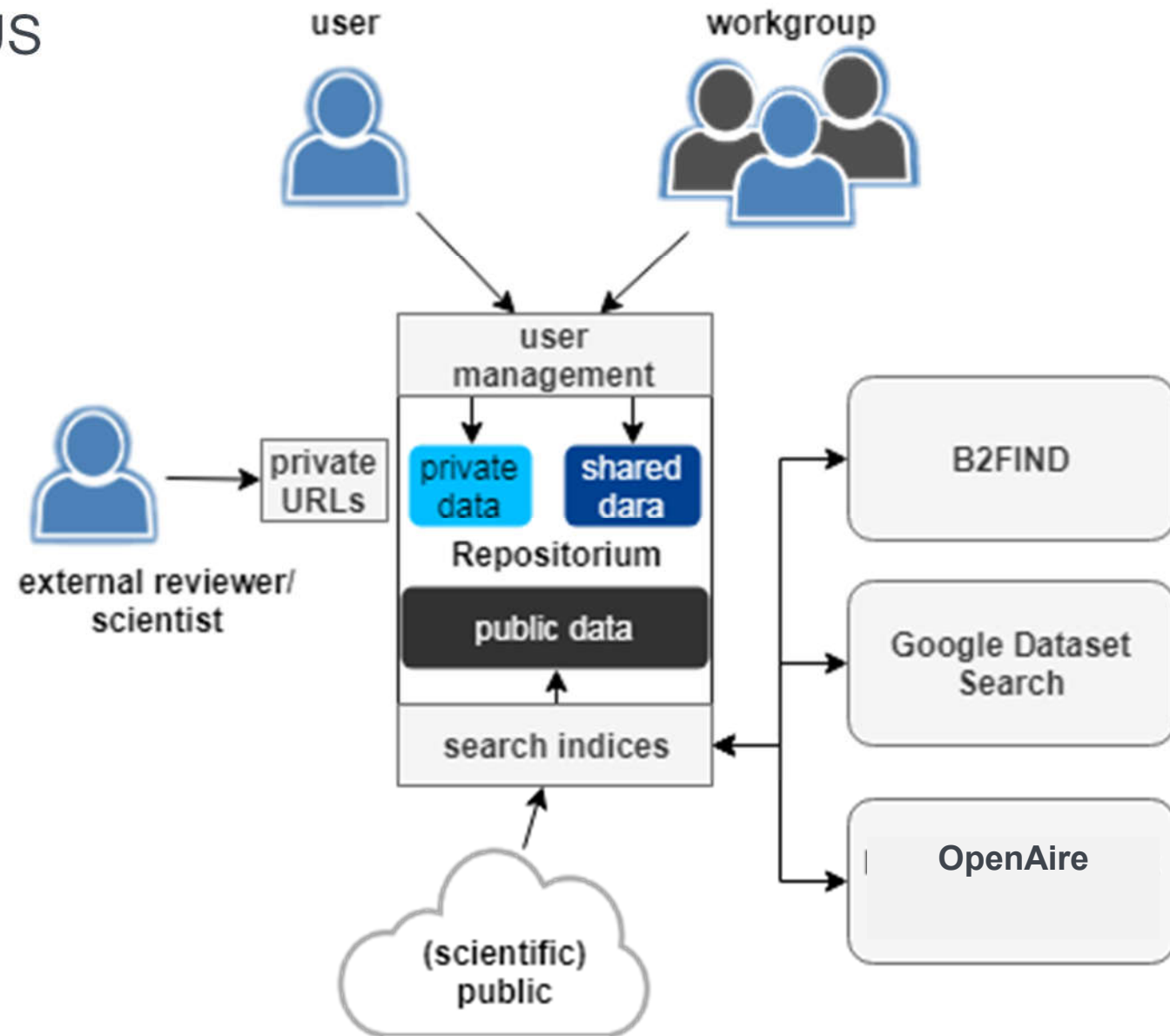
Verwaltet von Storage-
Abteilung des
Rechenzentrums
(TIK/SAS)

Organisation der Dataverses

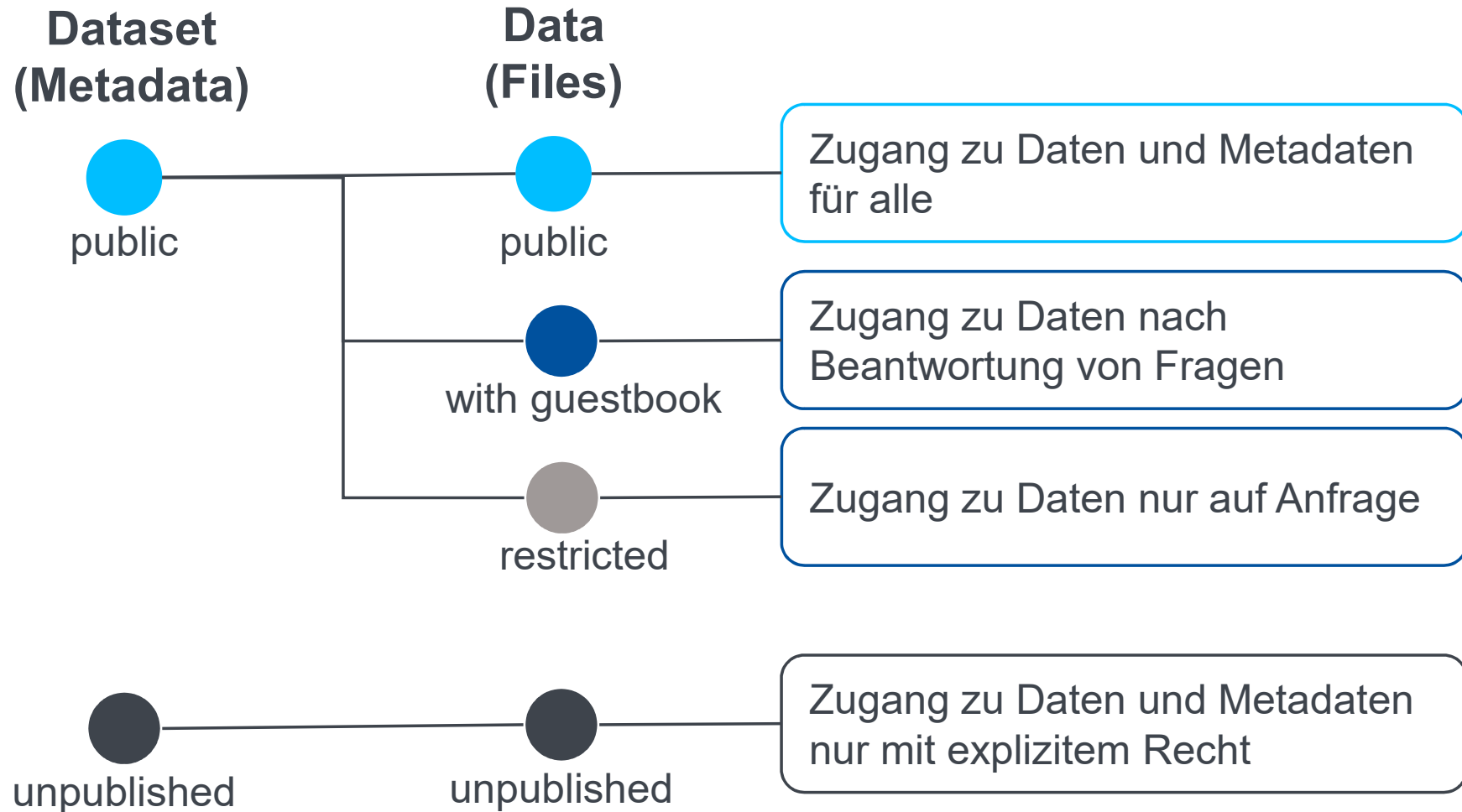


Rights and Roles

Access to DaRUS

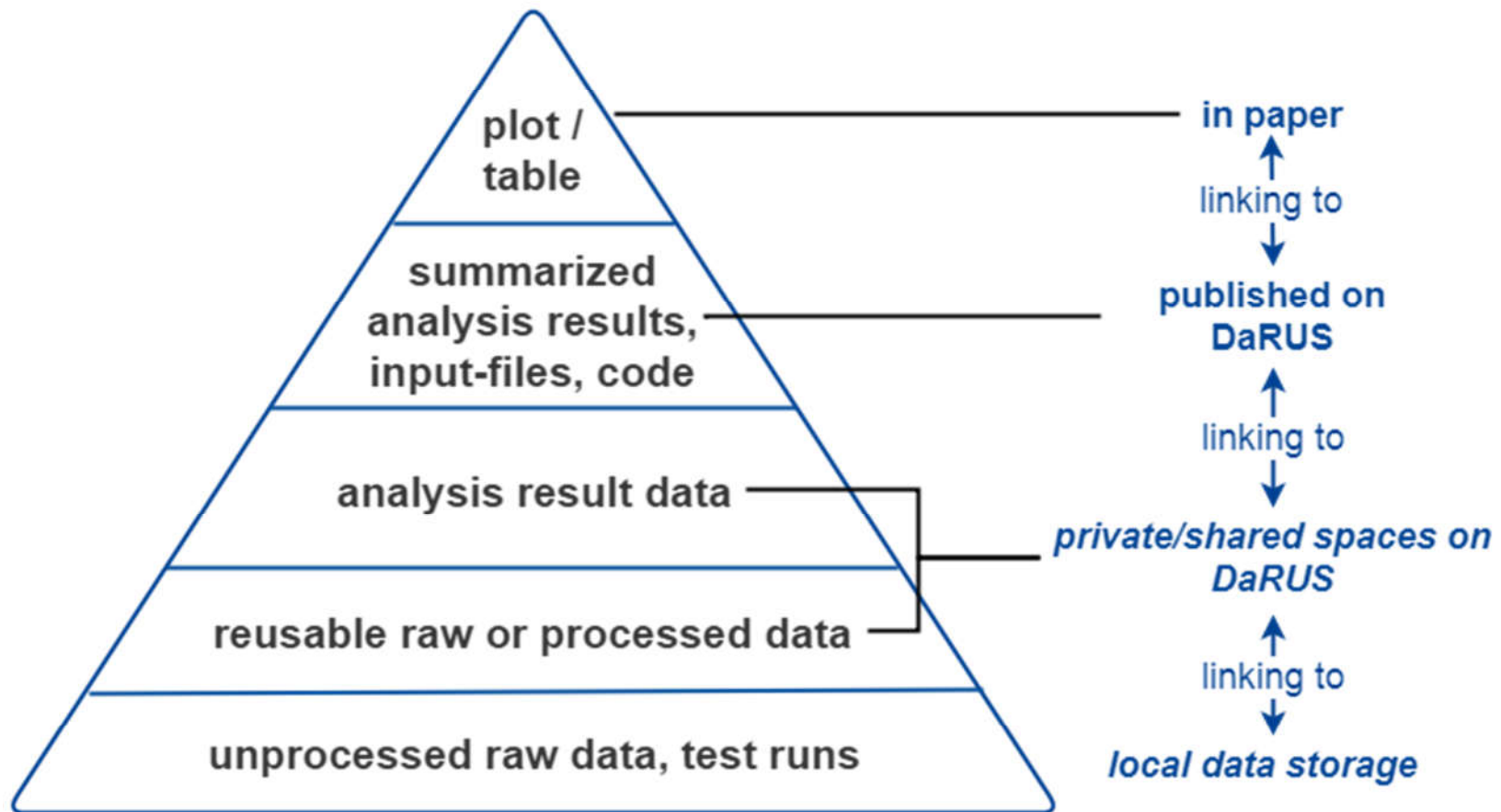


Grade der Öffentlichkeit



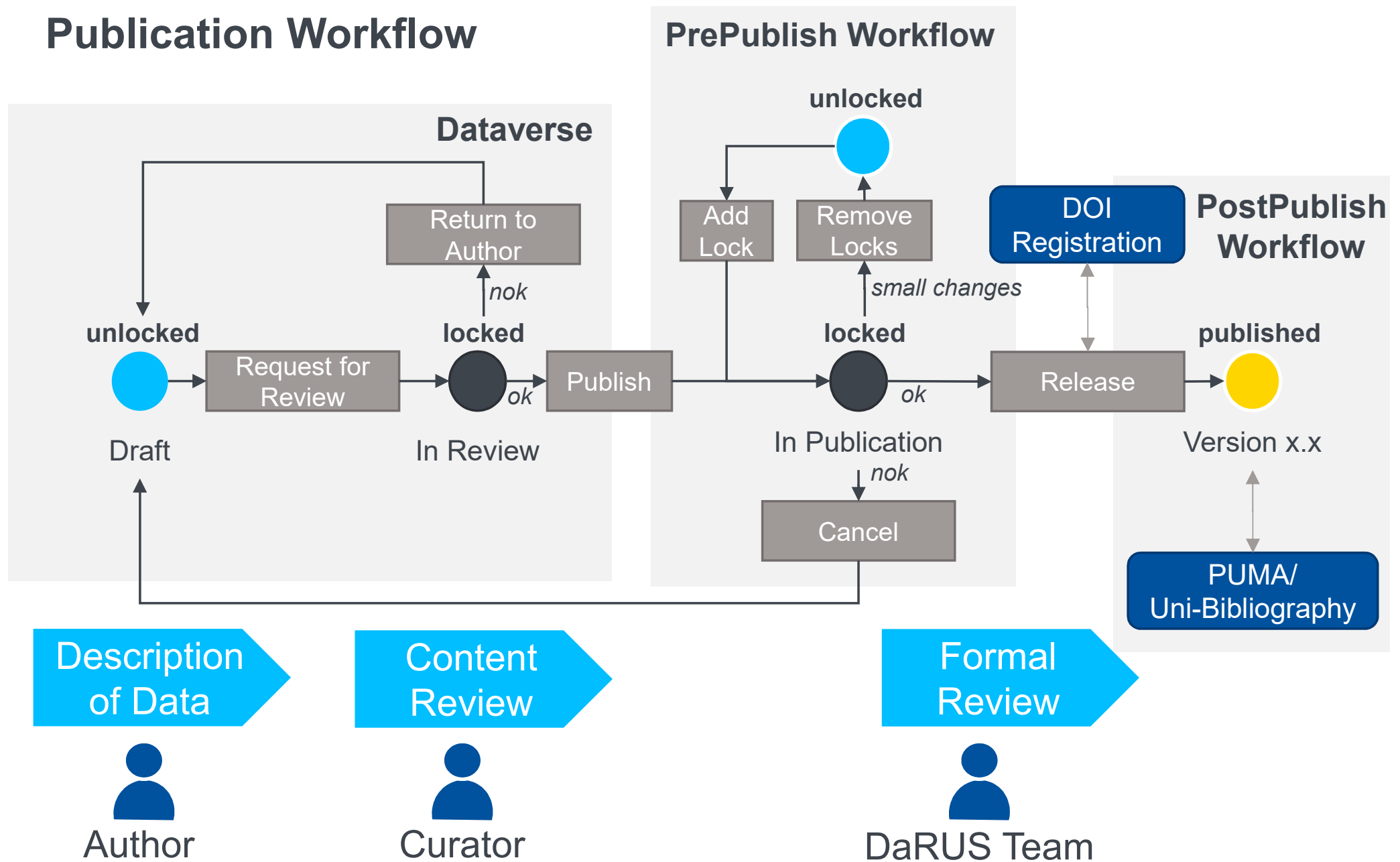
Data Management

Verlinkung von Daten



Data pyramid for the simulation knowledge, adapted according to (Reilly, et al. 2011)

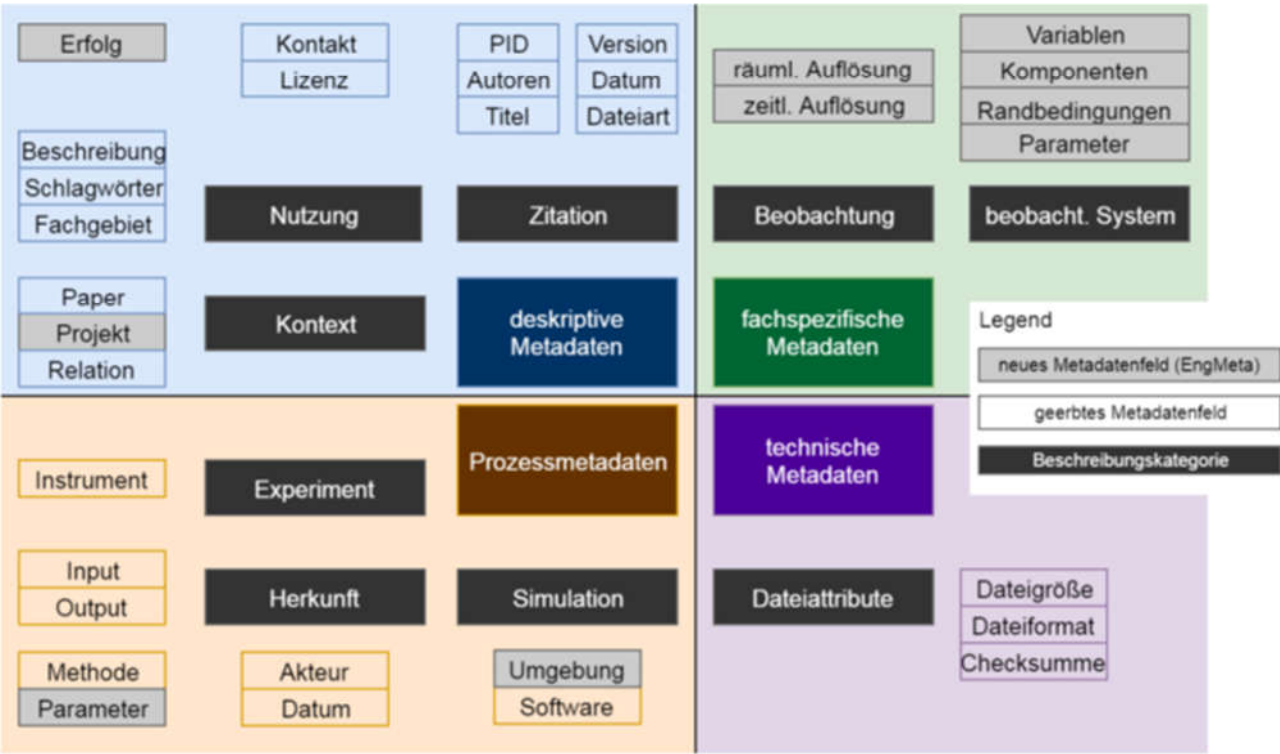
Publication Workflow



Checklists and more information: <https://www.izus.uni-stuttgart.de/en/fokus/darus/publication/>

Metadaten für Ingenieurwissenschaftliche Daten

EngMeta



Iglezakis, D.; Schembera, B. (2019). EngMeta - a Metadata Scheme for the Engineering Sciences, <https://doi.org/10.18419/darus-500>, DaRUS, V1

Schembera, B. & Iglezakis, D. (2020). EngMeta - Metadata for Computational Engineering. *International Journal of Metadata, Semantics and Ontologies*, 14, 26-38. doi: 10.1504/IJMSO.2020.107792, preprint unter: <https://arxiv.org/abs/2005.01637>

Schembera, B. & Iglezakis, D. (2019). The Genesis of EngMeta - A Metadata Model for Research Data in Computational Engineering. In E. Garoufallou, F. Sartori, R. Siatra & M. Zervas (eds.), *Metadata and Semantic Research* (p./pp. 127-132), Cham: Springer International Publishing. ISBN: 978-3-030-14401-2. doi: 10.1007/978-3-030-14401-2_12

Metadaten

Neue Metadatenblöcke für Dataverse

Metadata Fields

Choose the metadata fields to use in dataset templates and when adding a dataset to this dataverse.

Research Process

[EngMeta](#)

Research Object

Research Software

[CodeMeta](#)

Use metadata fields from FoKUS - Research Data Management at the University of Stuttgart

Citation Metadata (Required) [\[+\] View fields + set as hidden, required, or optional](#)

Process Metadata [\[+\] View fields + set as hidden, required, or optional](#)

Engineering Metadata [\[+\] View fields + set as hidden, required, or optional](#)

Astronomy and Astrophysics Metadata [\[+\] View fields](#)

Life Sciences Metadata [\[+\] View fields](#)

Geospatial Metadata [\[+\] View fields](#)

Journal Metadata [\[+\] View fields](#)

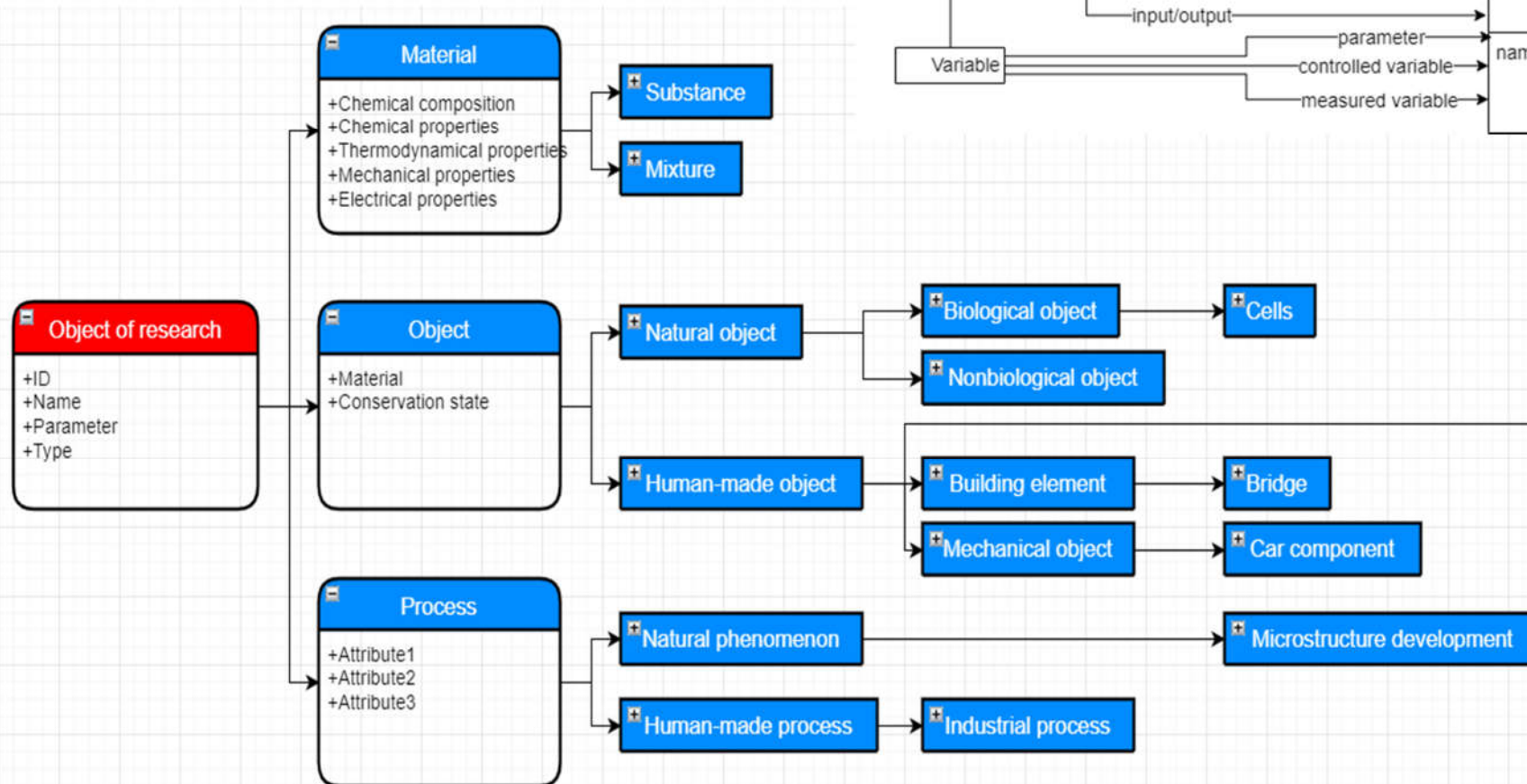
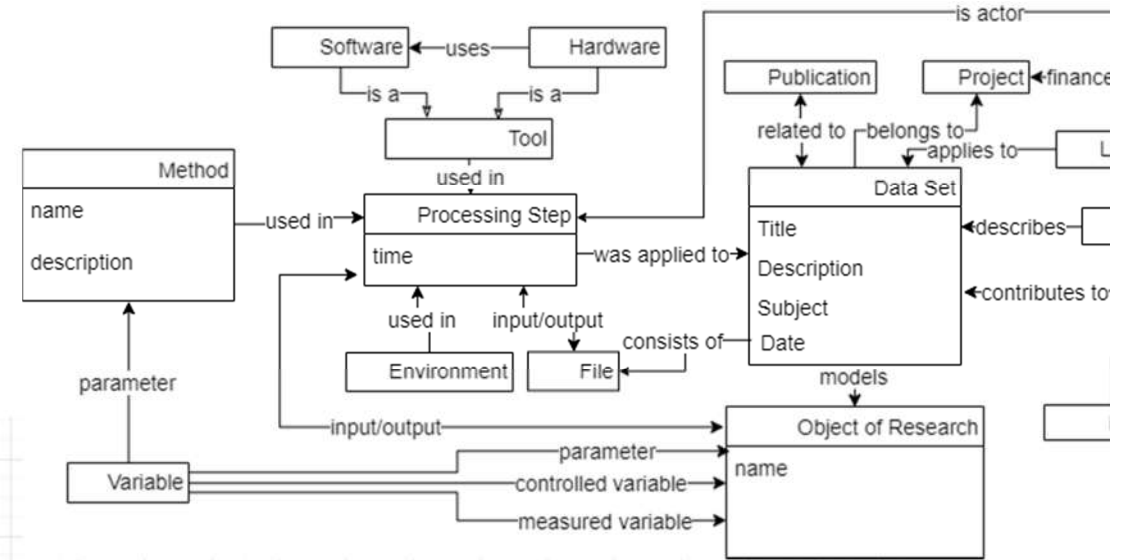
Social Science and Humanities Metadata [\[+\] View fields](#)

Metadata for Research Software [\[+\] View fields + set as hidden, required, or optional](#)

Metadaten für Ingenieurwissenschaftliche Daten

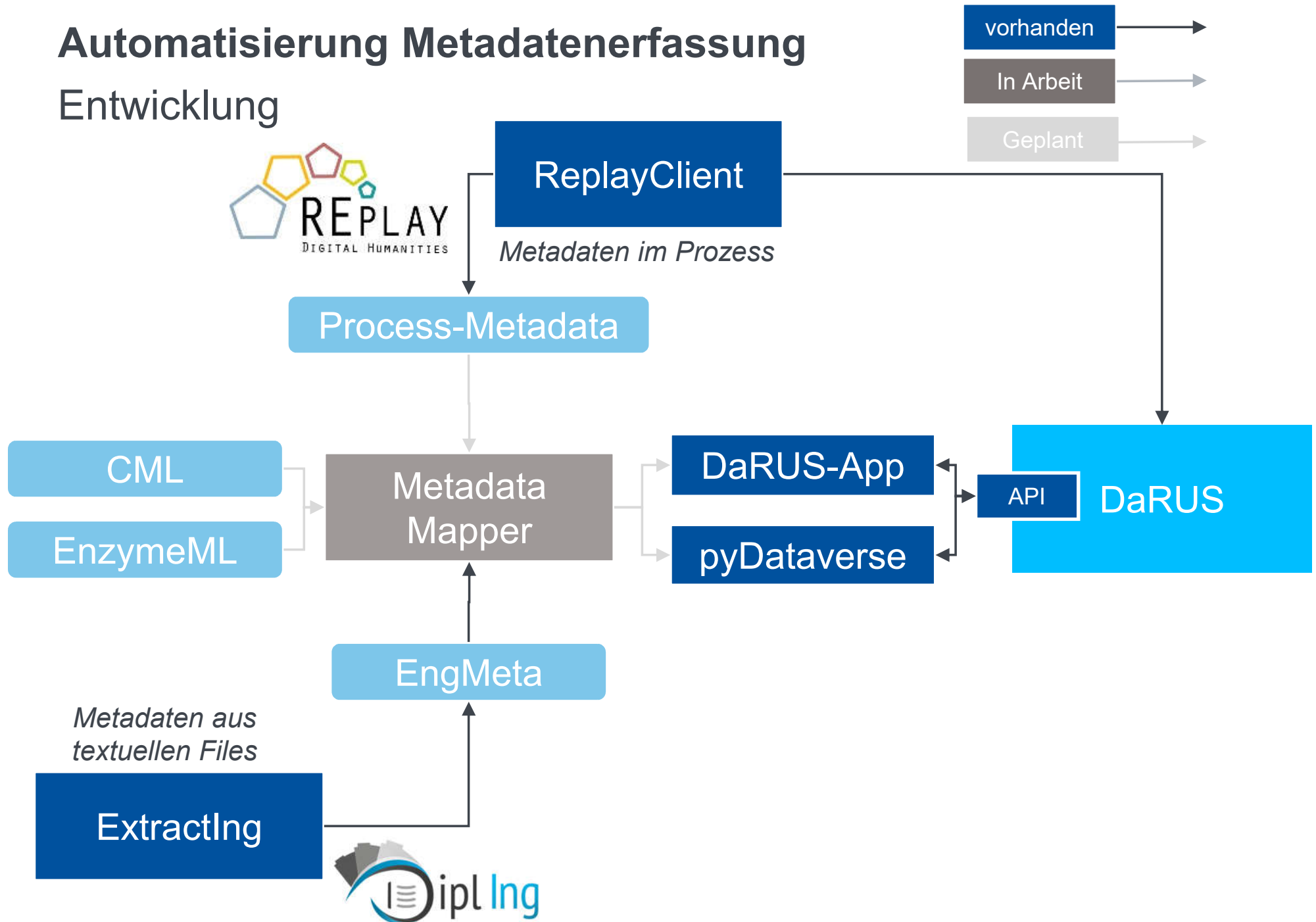
Metadata4Ing

[Metadata4Ing](#)

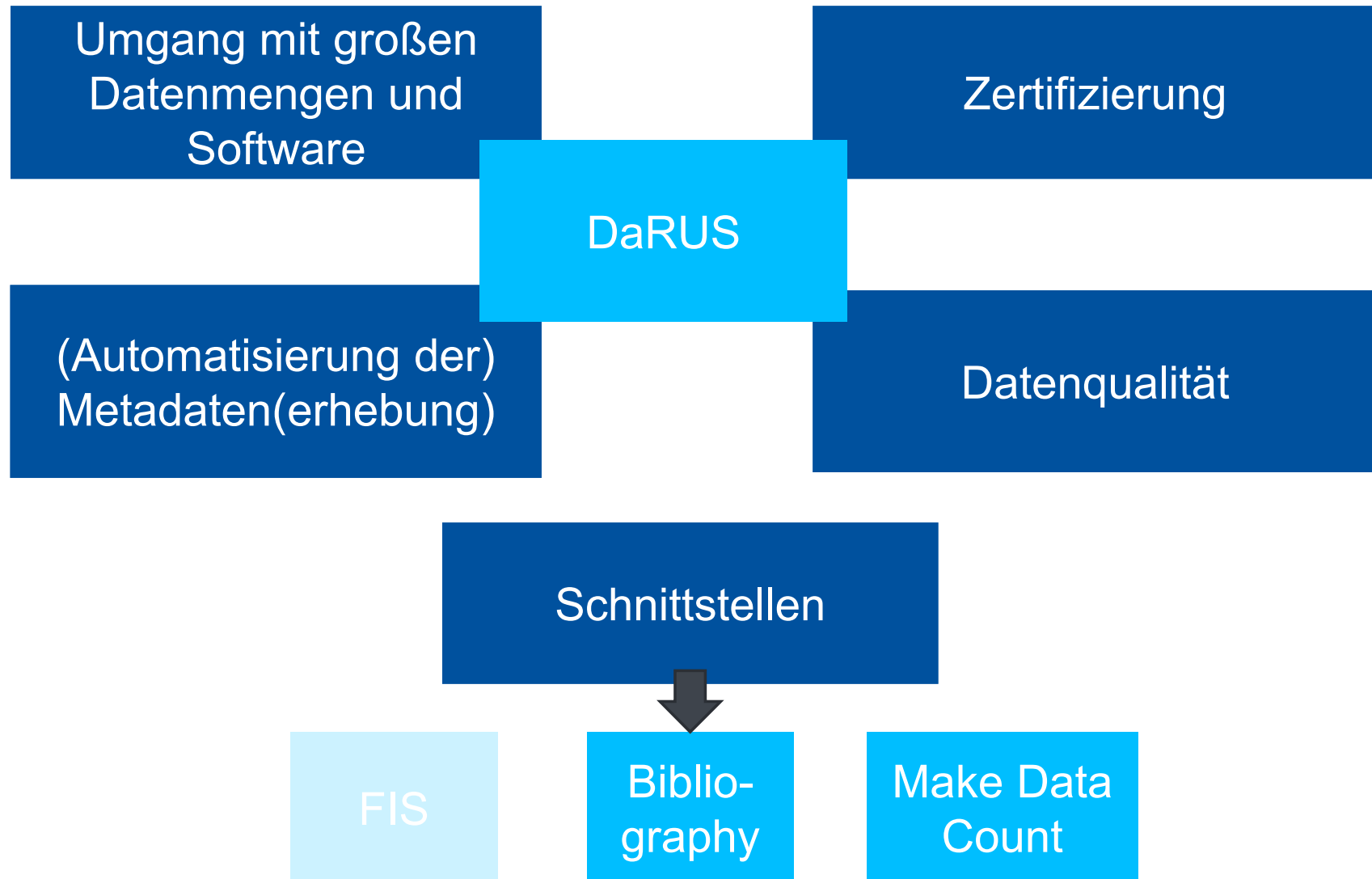


Automatisierung Metadatenerfassung

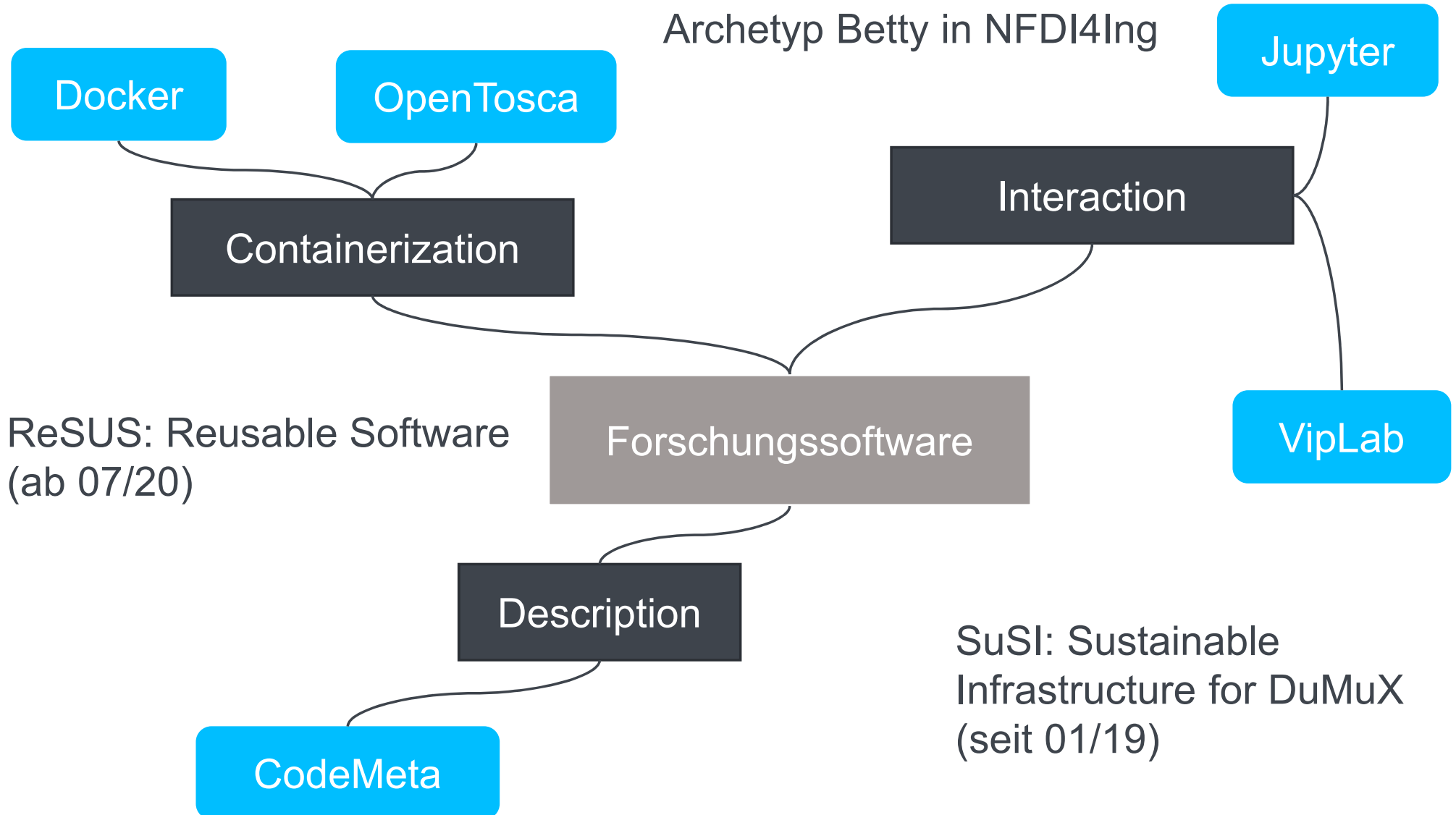
Entwicklung



Woran wir (gerne mehr) arbeiten (würden)



Handling of Research Software





University of Stuttgart
Germany

Thank you!



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phone +49 (0) 711 685-83648

Universität Stuttgart

FoKUS – Kompetenzzentrum für Forschungsdaten

<https://www.izus.uni-stuttgart.de/fokus>

fokus@izus.uni-stuttgart.de