

# Building an All-in-one Service



Extending an existing Open Access Repository to a complete Research Information System

Beate Rajski & Oliver Goldschmidt

 @unzeit  @ollmii

Open Repositories 2019, Hamburg, Germany  
P1D: Convergence of repository and CRIS functions

# Outline

1. The Hamburg Open Science Program
2. Where we were in 2017
3. Prototyping: How many Systems?
4. Some Insights on TUHH Open Research



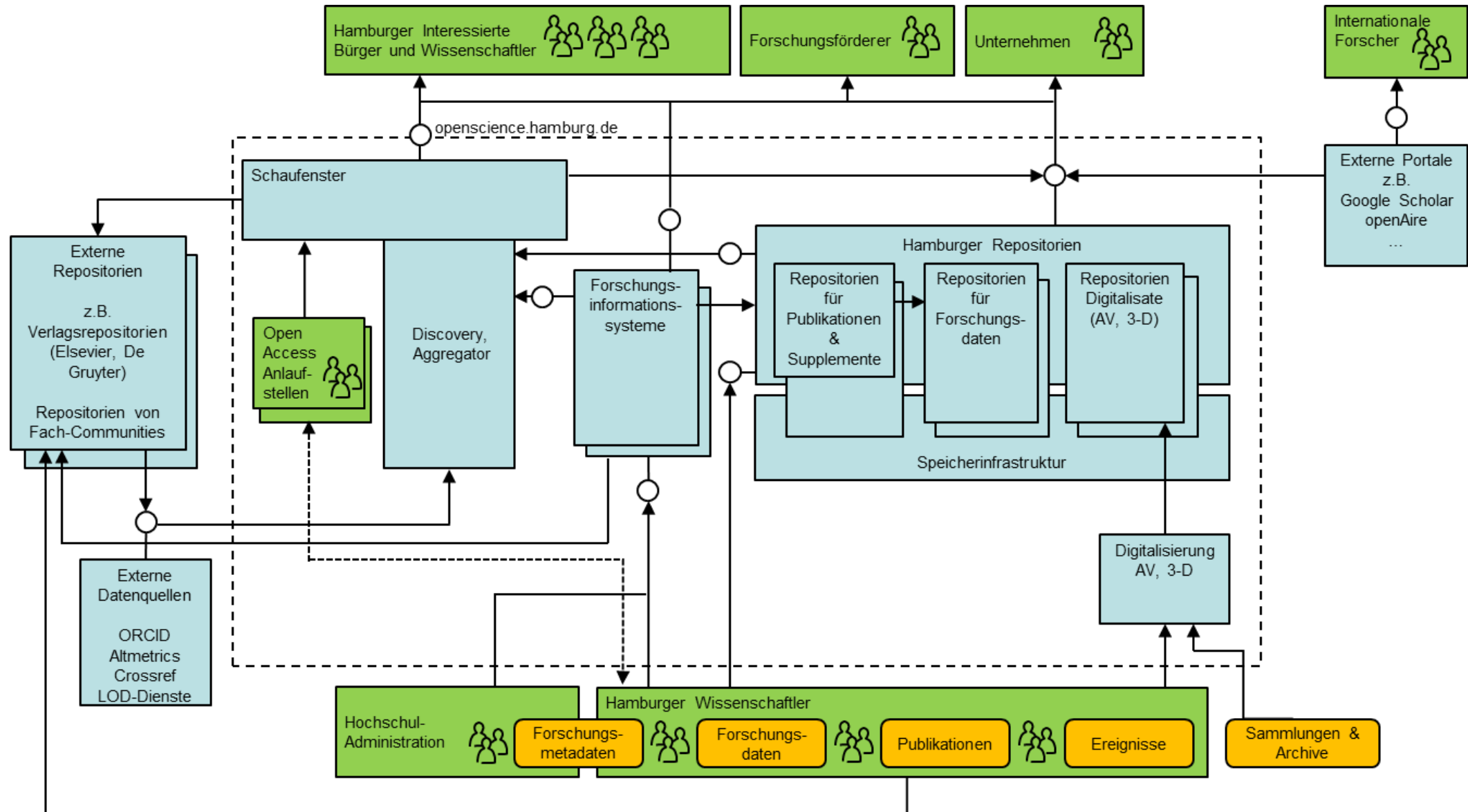
# 1. Hamburg Open Science: the Program

# Hamburg Open Science: 2018-2020

Support for digitization in Hamburg's scientific community



# Planned System Landscape for Hamburg Open Science





## 2. Where we were in 2017

# Status TUHH 2017

## TU Hamburg:

- Professors: 93
- Scientific staff: 673



- Programmers in the library: 1

## DSpace: Open Access Repository TUHH

tub.dok

- Decision for DSpace **JSPUI** in June 2014
- **Migration** from OPUS to DSpace JSPUI: February 2015
- Concept **research data repository**: February 2017
- **ORCID** Integration via **DSpace-CRIS**: October 2017

## CRIS:

- TeFIS (Own development TUHH)
- No university bibliography

# 2017: DSpace-CRIS for Everything?

- operational

Open Access  
Repository



- planned

Research  
Data  
Repository



- give OSS  
a try

Current  
Research  
Information







### 3. Prototyping: How many Systems?

# Two Approaches, Four „Prototypes“



## Hamburg University

- Thesis Repository: DSpace-CRIS
- RDM System: Invenio/Zenodo
- CRIS: PURE

✓ Three „prototypes“



## Hamburg University of Technology

- OA Repository: DSpace-CRIS
- RDM System: DSpace-CRIS
- CRIS: DSpace-CRIS

✓ One „prototype“

# The Single System Approach



## Hamburg University of Technology

- OA Repository: DSpace-CRIS
- RDM System: DSpace-CRIS
- CRIS: DSpace-CRIS

## Advantages

- Only one system needs to be maintained
- Common entity base for all components
- Better usability by providing one single central service for each use case

## Disadvantages

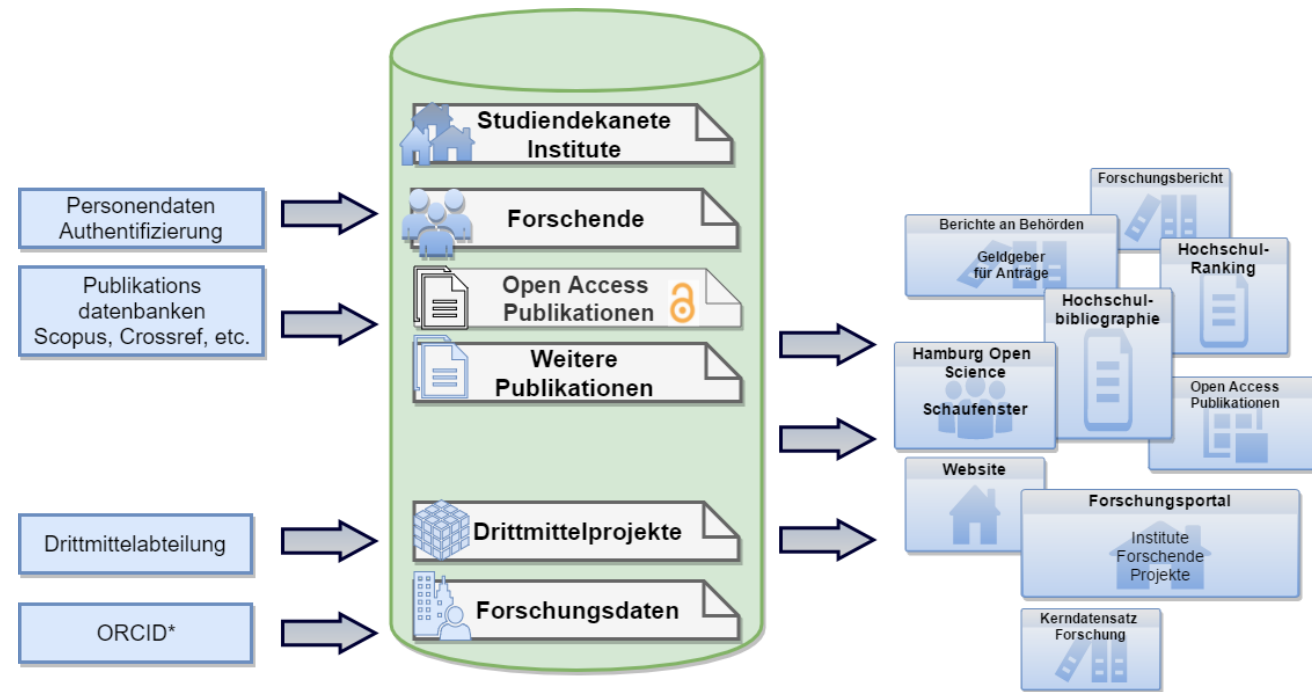
- Conflicts for Use Cases

# Conflicts

## Having a single system containing three components is good, but...

- a universal approach to handle all of the entity types is required (for example not possible to create projects on demand in the OA collection, but not in the CRIS-context)
- a universal login approach is required (do we need external logins?)
- CRIS is University centric, while OA and RDM are content centric

	OA Repository	RDM Repository	CRIS
Researcher	Focus on all authors	Focus on all researchers involved	Focus on local researchers
Orgunits	All institutes / corporates	All institutes / corporates	University's institutes
Projects	All projects from publications in the system	All projects from publications in the system	University's projects
Fundings	All fundings	All fundings	Only project fundings
Items	All open	May require access control	Mix
Login	Any author	Any author	Only University staff
Archiving	Permanent content	Permanent content	Might be temporary



Graphic: G. Weidt

## 4. Some Insights on TUHH Open Research

# Submission Workflows

## Three Collections with different Submission Forms

- Different Metadata Fields
- Different Submission Steps
- Different Handling of DOIs
- Different Handling of Fulltext Files
- Different License Agreements
- Same Submission Workflows, but
- Different Staff involved in Submission Workflows

Submission Step	Publications with Fulltext	Publications w/o Fulltext	Research Data
Metadata	3 pages	3 pages	1 page
DOI (with Preview)	yes	no	yes
Upload Option	yes	no	yes
Embargo Option	yes	no	yes
License	yes	no	yes
Workflow	yes	yes	yes

# Entities



## Entities used at the TUHH

- Organizational Units (OU)
- Researcher Profile (RP)
- Projects
- Journals
- Events (Conferences)

# Researcher Import


## Imported Researcher Profiles

- Import from LDAP → each researcher automatically receives a prefilled RP
- Modification options for staff via TUHH contact database
- Regular updates
- Marked as employee
- Option to hide profile (only visible in TUHH intranet)

Education University Research Lehre International

Find Person

Query Result



**Prof. Dr.-Ing. Andreas Timm-Giel**  
<https://orcid.org/0000-0002-5998-6113>

Vizepräsident Forschung (VP-F)  
Head in Institute: [Communication Networks \(E-4\)](#)  
Chief Information Officer (CIO)

Office: Room 1.057  
[Am Schwarzenberg-Campus 3 \(E\)](#)  
21073 Hamburg

Phone: +49 40 428 78 30 49  
E-Mail: [timmm-giel@tuhh.de](mailto:timmm-giel@tuhh.de)  
Homepage: [www.tuhh.de/comnets](http://www.tuhh.de/comnets)  
Office Hours: nach Vereinbarung

Prof. Dr.-Ing. Andreas Timm-Giel

Profil

Profil









Full Name	Timm-Giel, Andreas
Variants	Andreas Timm-Giel
Institute	<a href="#">Kommunikationsnetze E-4</a>
Role	Leitung
ORCID	<a href="https://orcid.org/0000-0002-5998-6113">orcid.org/0000-0002-5998-6113</a>
Phone number	+49 40 42878 3049
Email	<a href="mailto:timmm-giel@tuhh.de">timmm-giel@tuhh.de</a>

Active member at TUHH



# Researcher

Publisher DOI:	10.1109/WiSEE.2018.8637313
Title:	Coexistence of Wireless Avionics
Language:	English
Authors:	Mersch, Steffen  Meyerhoff, Thomas  Krüger, Leo   Timm-Giel, Andreas  

## Author lookup - Internal directory & ORCID

Results 1 to 4 of 4 for "timm-giel, Andreas"

1.

Timm-Giel, Andreas (rp00935) - Kommunikationsnetze E-4 - 113592385X - 0000-0002-5998-6113 ^  
Andreas Timm-Giel See "Timm-Giel, Andreas" (rp00935)  
**Timm-Giel, Andreas - 0000-0002-5998-6113**  
Create new value 'timm-giel, Andreas'

## Researcher Profiles (RP)

- All persons (authors, ...) receive an RP when creating a publication
- Lookup of persons in local database or ORCID
- „Person Type“ qualified by icon colour (No Icon = Private Profile)
- Authenticated ORCID displayed with icon

# Challenges?

**Plenty! Here are just some of them:**

- Upgrade to DSpace7
- GUI / Usability
- Entity control also for mass imports
- Workflows
- Documentation
- Embedding CRIS content in websites
- Staff council / GDPR
- ...

**TUHH Open Research: <https://tore.tuhh.de>**



**We are happy to discuss your questions**

Beate Rajski & Oliver Goldschmidt  
rajski@tuhh.de o.goldschmidt@tuhh.de