

„Fraunhofer-Publica“ – GoLive with DSpace-CRIS 7

---

# Fraunhofer-Gesellschaft

# Agenda

- Publica-Relaunch
- Dspace-CRIS 7
- New Publica

# Foundation Fraunhofer-Gesellschaft

March 26, 1949, in Munich

---



The Fraunhofer-Gesellschaft was founded in Munich on March 26, 1949, as part of a reorganization and expansion of German research infrastructure.

## Joseph von Fraunhofer

---

It takes its name from the successful Munich scientist, inventor and entrepreneur Joseph von Fraunhofer (1787-1826).

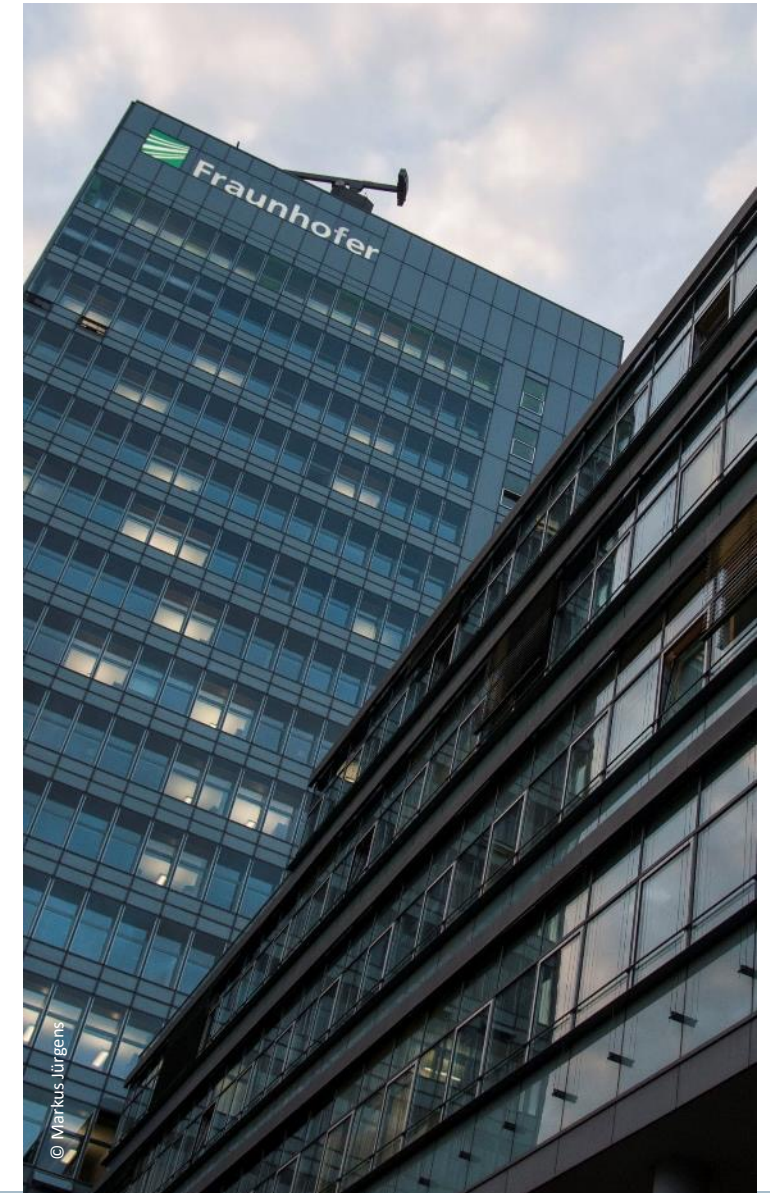




# Fraunhofer-Gesellschaft

The largest organization for applied research in Europe

- Application-oriented research for immediate benefit to the economy and to the benefit of society
- 76 institutes and research units
- 30,000 staff
- €2.9 billion annual research budget totaling. Of this sum, more than €2.5 billion is generated through contract research
  - More than 70 percent of this sum is generated through contract research on behalf of industry and publicly funded research projects
  - Almost 30 percent is contributed by the German federal and Countries governments in the form of base funding



# Joseph von Fraunhofer and Fraunhofer-Gesellschaft

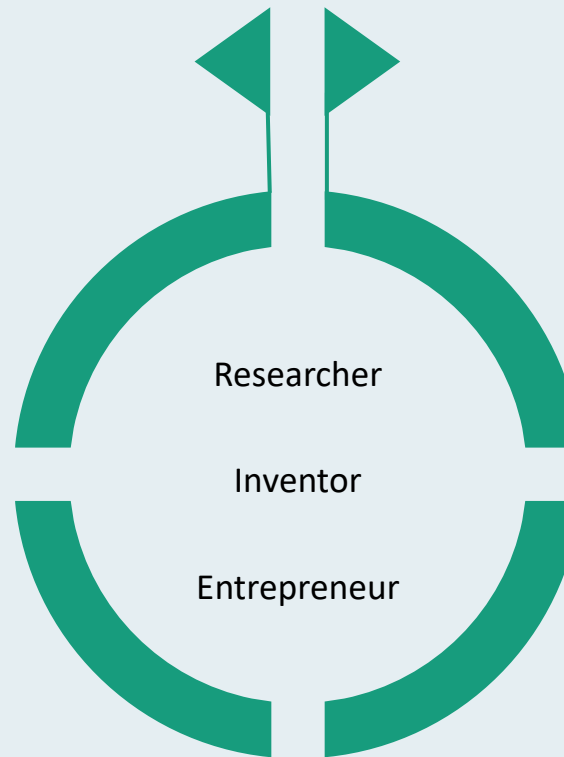


**Joseph von Fraunhofer**

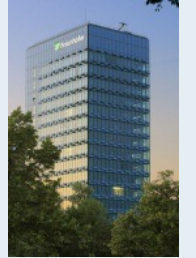
Discovery of the »Fraunhofer lines« in the solar spectrum

New methods for processing lenses

Director and partner in a glassworks



**Fraunhofer-Gesellschaft**



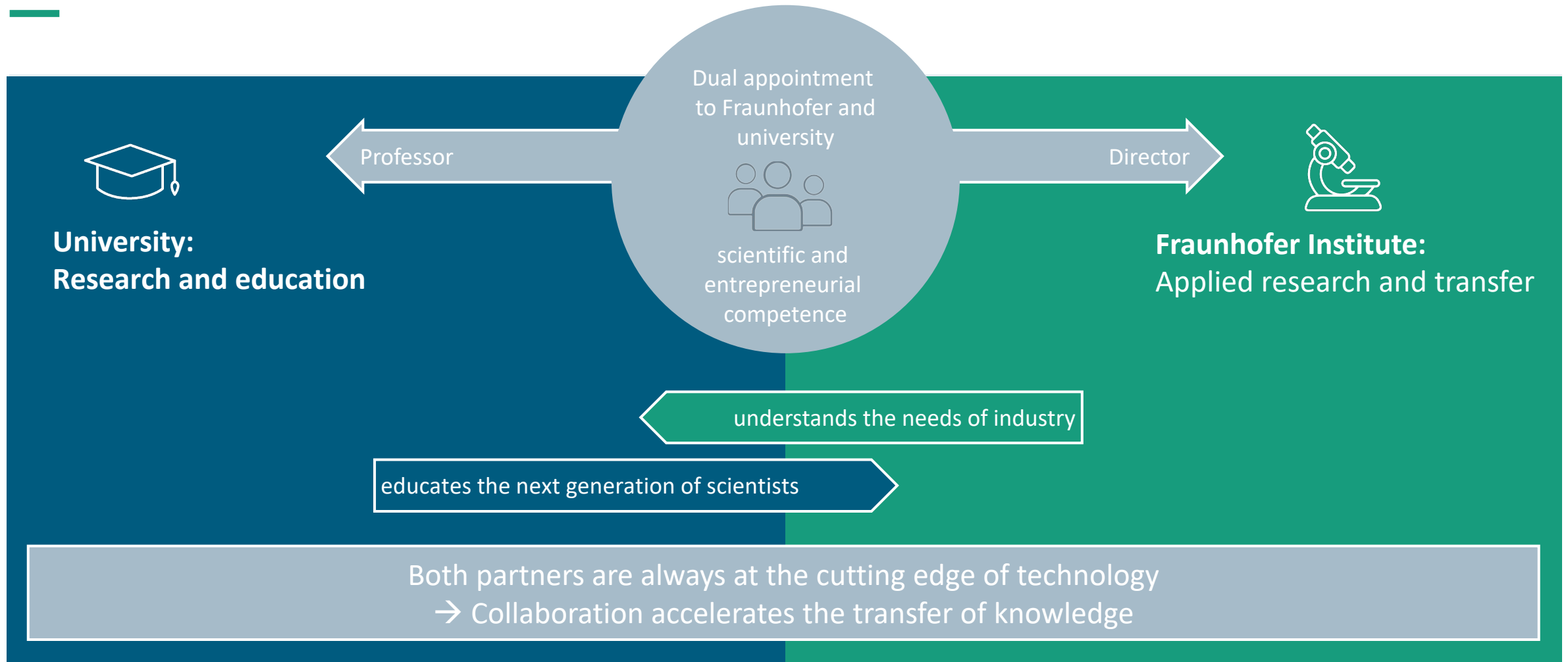
Research and development on behalf of industry and state

mp3 music format, white LED, high-resolution thermal camera

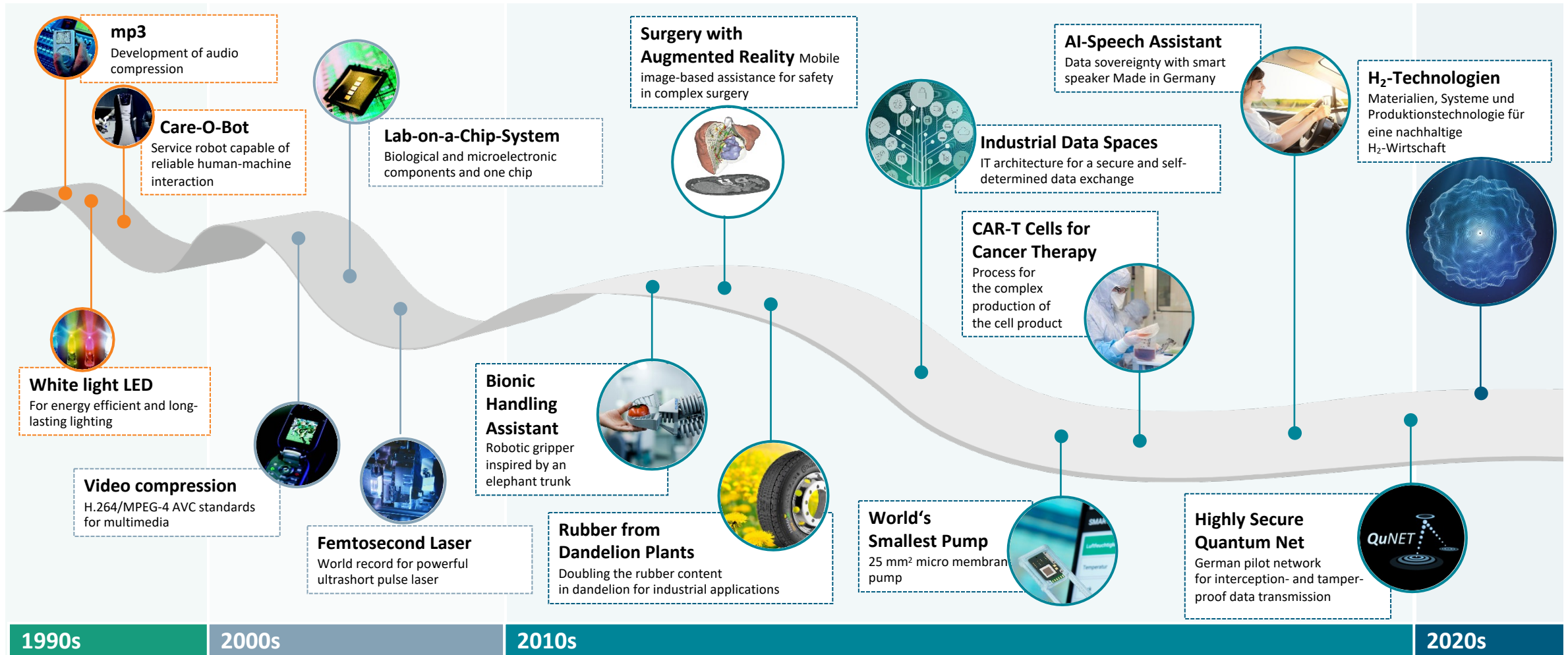
Research volume:  
approx. €2.5 billion annually

# Fraunhofer and the universities

## Synergies through complementarity



# From Fraunhofer R&D Highlights



# Fraunhofer-Gesellschaft

belongs to one of the most active applicants of patents and trademarks in Germany

## Exploitation of intellectual property rights

	2013	2014	2015	2016	2017	2018	2019	2020	2021
Active Patent Families *	6407	6625	6573	6762	6695	6874	7302	7667	7638
Invention Disclosures p.a.	733	736	670	798	756	734	727	753	600
Patent Applications p.a.	603	563	506	608	602	612	606	638	515
Trade Marks (new applications)	55	55	56	48	42	47	59	60	49

\* Inventory of technical property rights and current patent applications at year-end

Status: February 4, 2022  
Update April 2022



▶ 2020: Fraunhofer at Position 17 of the most active patent applicants (403 applications) and Position 7 of the most active applicants of trademarks (41 applications) at DPMA

▶ 2020: Fraunhofer among the Top 100 applicants at European Patent Office (Position 32, 557 applications)

▶ 2021: in report from the international company Clarivate, Fraunhofer belongs to »Top 100 Global Innovators«. (2 further German companies included: BASF, Bayer)





# PUBLICA

Die „Fraunhofer-Publica“ dokumentiert seit über 30 Jahren erfolgreich die Forschungsergebnisse der Fraunhofer Gesellschaft. Die Plattform ermöglicht die kollaborative Verknüpfung forschungsrelevanter Objekte und Disseminate im Rahmen der internationalen Wissenschaftsgemeinschaft.

Die „Fraunhofer-Publica“ kommt damit der Verantwortung nach, den Transfer von Wissen sowie Know-how in Wirtschaft und Gesellschaft zu fördern.

SEARCH THE REPOSITORY ...



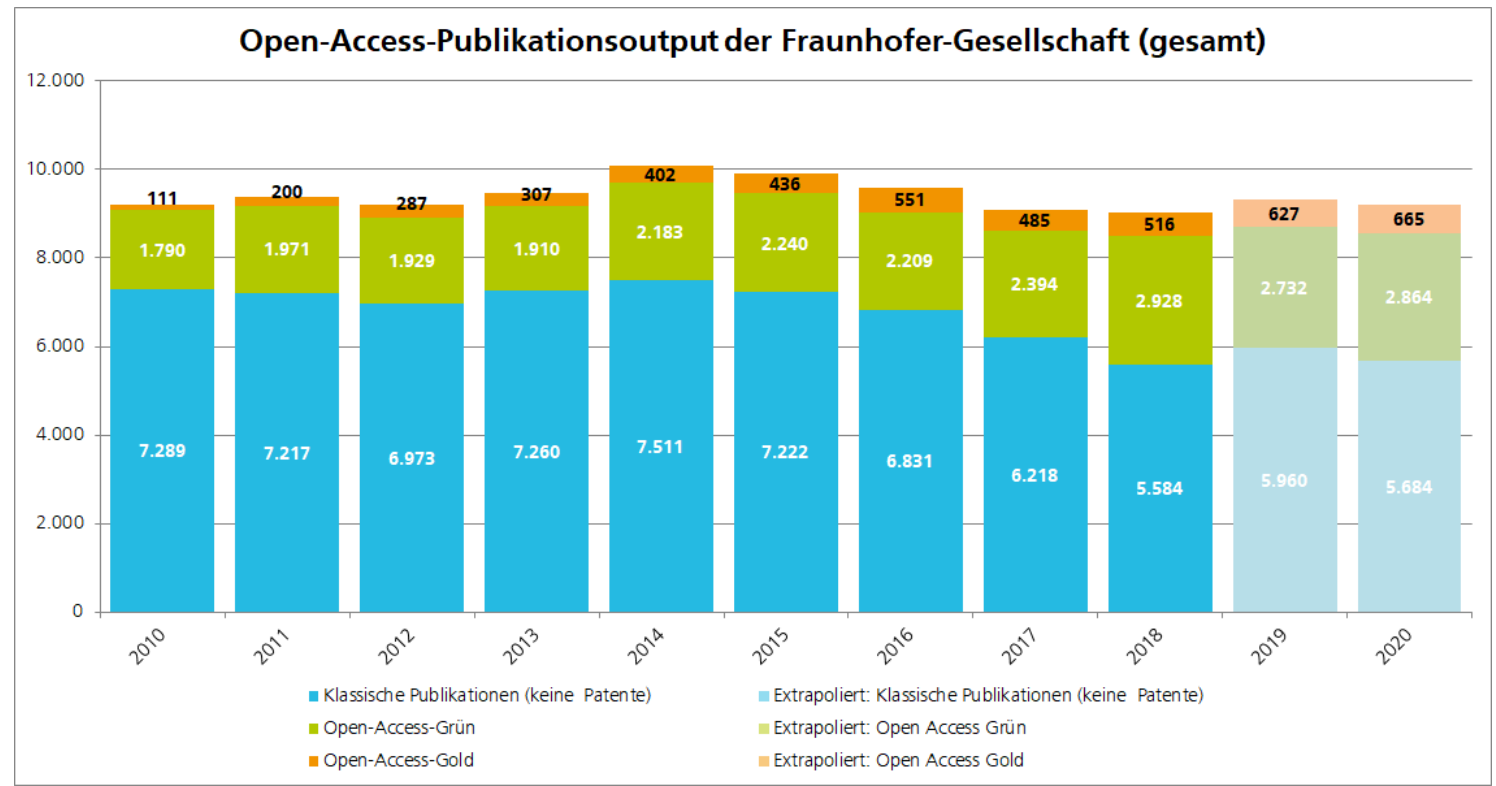
## Publica-Relaunch

# Publica-Relaunch

## Publica & ePrints

The "Fraunhofer-Publica" has been successfully documenting the research results of the Fraunhofer-Gesellschaft for over 35 years.

- 250k Publications
- Patents
- 10k per Year
- 1 prior Data Migration



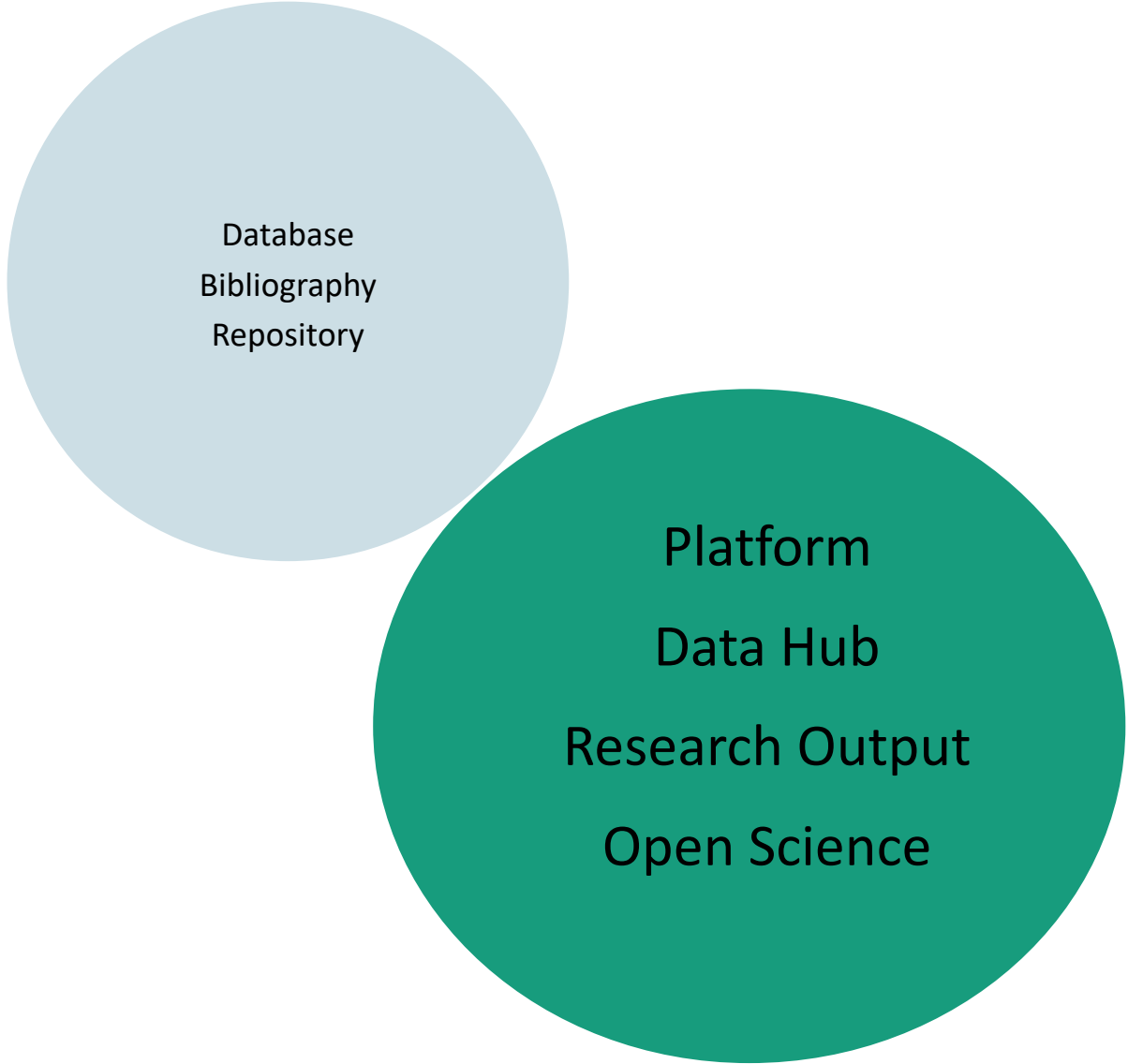
# Publica-Relaunch

## Next Generation Repository

---

The new "Fraunhofer-Publica" shall enable the collaborative linking of research-relevant objects and disseminates within the international scientific community.

The "Fraunhofer-Publica" thus fulfils its responsibility to promote the transfer of knowledge and know-how to industry and society.



Database  
Bibliography  
Repository

Platform  
Data Hub  
Research Output  
Open Science

# Publica-Relaunch Data Hub...



Scopus<sup>®</sup>



Fraunhofer

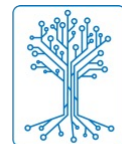
ORCID



DataCite  
FIND, ACCESS, AND REUSE DATA



Publica



GAIA-X  
daten-infrastruktur.de



EUROPEAN OPEN  
SCIENCE CLOUD



Software Heritage



# Publica-Relaunch

## GoLive

---

### Phase 1

- Early Adopter
- Migration – New Data Model
- Minimal Requirements

GoLive

**April 11, 2022**

### Phase 2

- Data Quality
- Additional Research Output
- DLT

# PUBLICA

Die „Fraunhofer-Publica“ dokumentiert seit über 30 Jahren erfolgreich die Forschungsergebnisse der Fraunhofer Gesellschaft. Die Plattform ermöglicht die kollaborative Verknüpfung forschungsrelevanter Objekte und Disseminate im Rahmen der internationalen Wissenschaftsgemeinschaft.

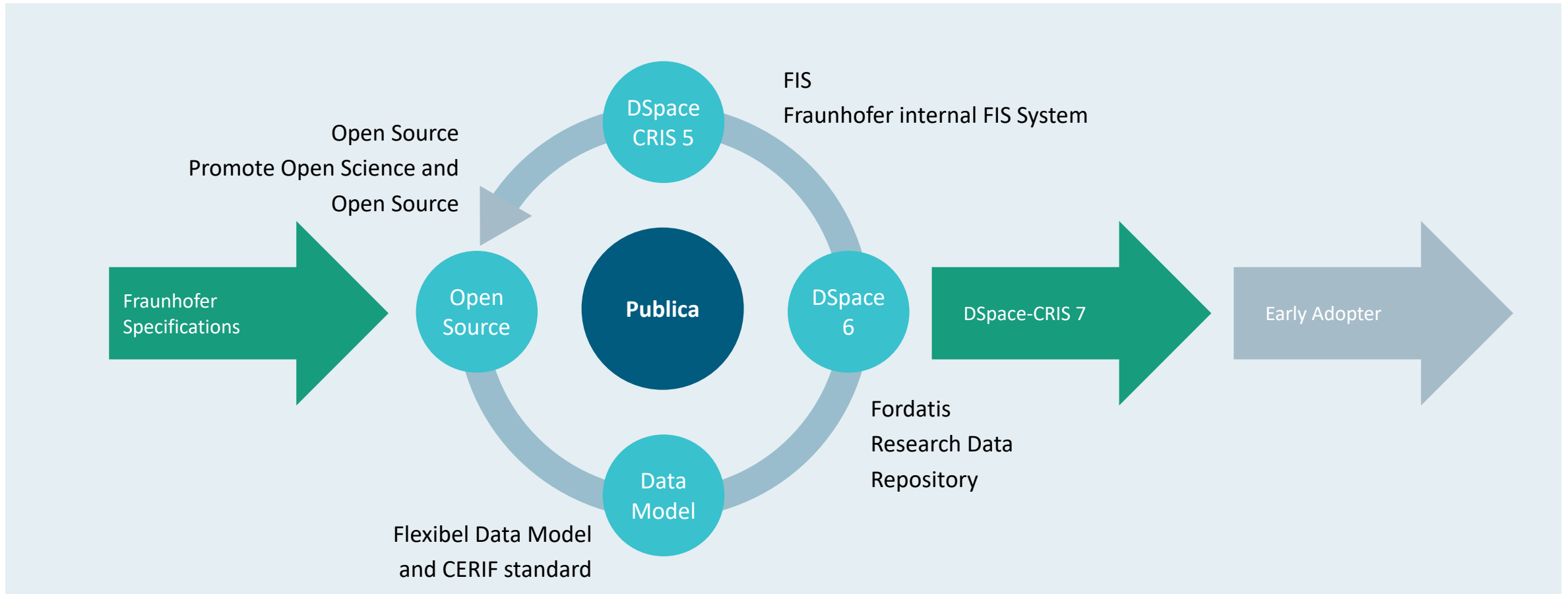
Die „Fraunhofer-Publica“ kommt damit der Verantwortung nach, den Transfer von Wissen sowie Know-how in Wirtschaft und Gesellschaft zu fördern.

SEARCH THE REPOSITORY ...



# Dspace-CRIS 7

## Decision 2019

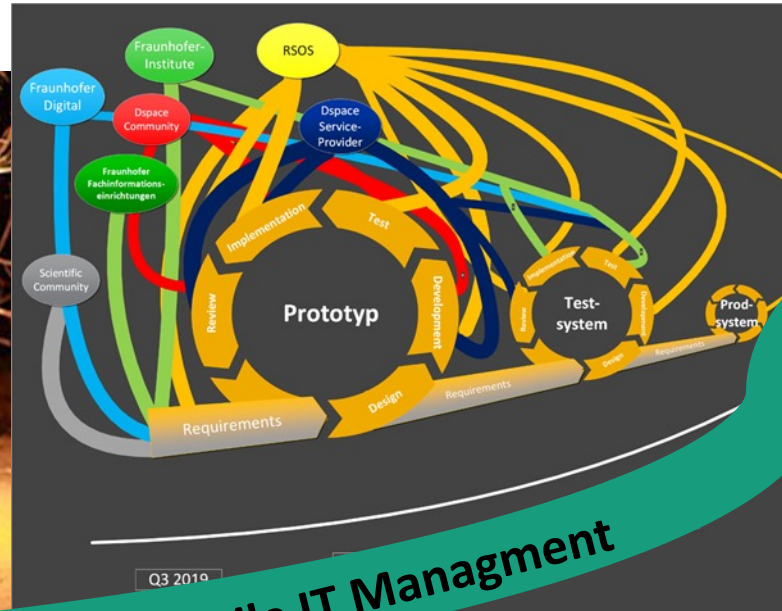


# Dspace-CRIS 7: 2019-2022

## Early Adopter



„En attendant Godot“?



Agile IT Management

### Early Adopter

- Sponsoring DSpace CRIS 7
- Cooperating with 4Science

Workflow

DOI

Deposit Licence

# PUBLICA

Die „Fraunhofer-Publica“ dokumentiert seit über 30 Jahren erfolgreich die Forschungsergebnisse der Fraunhofer Gesellschaft. Die Plattform ermöglicht die kollaborative Verknüpfung forschungsrelevanter Objekte und Disseminate im Rahmen der internationalen Wissenschaftsgemeinschaft.

Die „Fraunhofer-Publica“ kommt damit der Verantwortung nach, den Transfer von Wissen sowie Know-how in Wirtschaft und Gesellschaft zu fördern.

SEARCH THE REPOSITORY ...



## New Publica



# New Publica

## Layout-Matrix and Screenshots

### RESEARCH OUTPUTS

### PROJECTS

### RESEARCHERS

### INSTITUTES

RESEARCH OUTPUTS PROJECTS RESEARCHERS INSTITUTES

Home / Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. / Artikel / A Plant-Based Transient Expression System for the Rapid Production of Malaria Vaccine Candidates

DETAILS FULL EXPORT

2016 [Aufsatz in Buch](#)

**A Plant-Based Transient Expression System for the Rapid Production of Malaria Vaccine Candidates**

Abstract  
There are currently no vaccines that provide sterile immunity against malaria. Various proteins from different stages of the Plasmodium falciparum life cycle have been evaluated as vaccine candidates, but none of them have fulfilled expectations. Therefore, combinations of key antigens from different stages of the parasites life cycle may be essential for the development...

Authors  
Boes, A  
Reimann, A  
Twyman, R.M.  
Fischer, R.  
Schillberg, S.  
Spiegel, H.

DOI  
10.1007/978-1-4939-3389-1\_39

Language  
Englisch

altmetric  
1

Fraunhofer

Fraunhofer-Gesellschaft

FORSCHUNGSBEREICHE PROJEKTE WISSENSCHAFTLER INSTITUTE

Home / Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. / Person / Hauswirth, Manfred

Prof. Dr.  
**Hauswirth, Manfred**

PROFILE PUBLICATIONS EDITOR ADVISOR METRICS

Fraunhofer-Institut für offene Kommunikationssysteme FOKUS  
manfred.hauswirth@fokus.fraunhofer.de

Fraunhofer

Fraunhofer-Gesellschaft

FORSCHUNGSBEREICHE PROJEKTE WISSENSCHAFTLER INSTITUTE

Home / Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. / Person / Eisengräber-Pabst, Dirk

**Eisengräber-Pabst, Dirk**

0000-0002-9264-2208

PROFILE PUBLICATIONS METRICS ORCID

Fraunhofer-Informationszentrum Raum und Bau IRB  
dirk.eisengraeber-pabst@irb.fraunhofer.de

EXPORT STATISTICS SUBSCRIBE

Fraunhofer-Informationszentrum Raum und Bau IRB

INFORMATION PUBLICATIONS RESEARCHERS PUBLICATIONS PROJECTS PEOPLE

Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.



Wissenstransfer für Baupraxis und Wissenschaft Der Grundauftrag des Fraunhofer IRB besteht darin, seine Nutzer schneller und leichter an die benötigten Fachinformationen zu führen. Die Nutzer kommen einerseits aus der Baubranche, andererseits aus der Fraunhofer-Welt. Für die Baubranche erschließt das Institut mit dem Fraunhofer IRB Verlag alle relevanten Informationen und macht diese der breiten Fachöffentlichkeit zugänglich...

Director  
Morszeck, Thomas

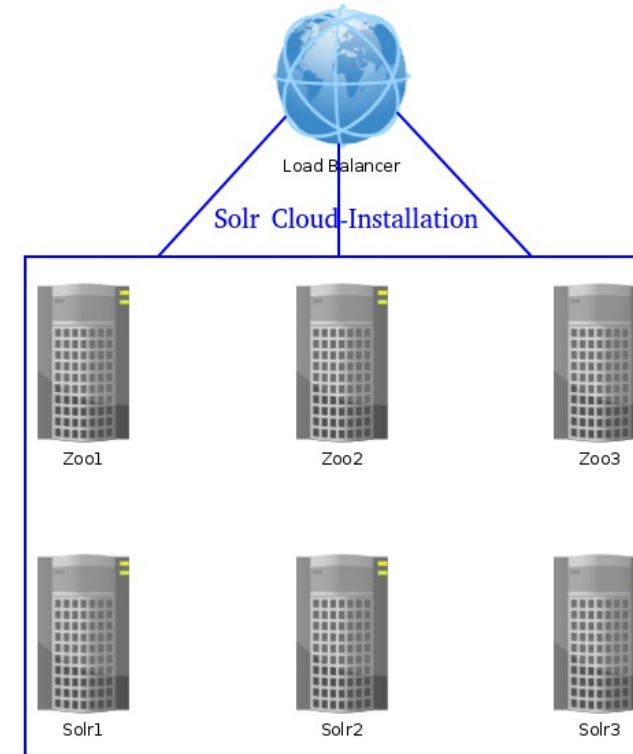
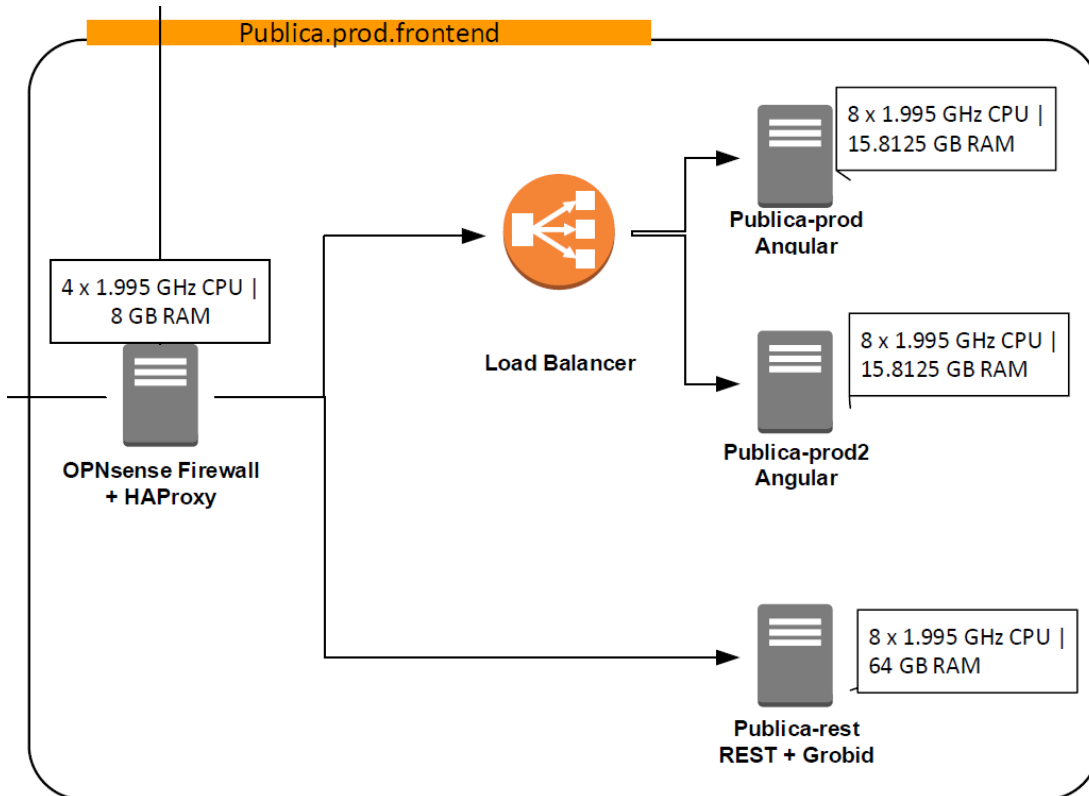
Mitglied  
Fraunhofer-Verbund Innovationsforschung

Kontakt  
Nobelstr. 12

Adresse  
Nobelstr. 12

# New Publica

## Infrastructure – Launch Configuration



## New Publica Lessons Learned – Key Lesson

### How to present migrated and new data using the same layout?

- Heterogeneous Data Quality
- Change of Data Model
- User Habits
- Linking is not Facet Search

Titel

# Qualitative und quantitative tageslichttechnische Fassadenplanung für die Beratungspraxis

Abstract

Im Bereich von Fassaden und Dachoberlichtern herrschte bezüglich deren tageslichttechnischen Auswirkungen auf das Gebäude lange Zeit Planungsunsicherheit. Es fehlten Systemdaten und geeignete Planungs- und Beratungssoftware. Dies führte zu planerischen Fehlentscheidungen und Potentiale...

<https://publica-dev.fraunhofer.de/search?configuration=researchoutputs&f.author=Boer, Jan de,equals>

Planning uncertainty has long prevailed in the area of facades and skylights due to the use of daylight in buildings. There was a lack of data describing the characteristics of daylighting systems and the appropriate planning and consultation software. This led to planning errors and not maximising the po...

Author(s)

Boer, Jan de   Fraunhofer-Institut für Bauphysik IBP 

Wössner, Simon   Fraunhofer-Institut für Bauphysik IBP 

<https://publica-dev.fraunhofer.de/items/cd9ded63-dd98-4f11-9282-5f08c122dfda>

Polle, Dieter 

Witzel, Daniel  DIAL GmbH, Lüdenscheid

Schmidt, Mathias  Hochschule Rosenheim, Fakultät für Innenarchitektur

Thank you!



Dirk Eisengräber-Pabst

[dirk.eisengraeber-pabst@irb.fraunhofer.de](mailto:dirk.eisengraeber-pabst@irb.fraunhofer.de)

Tel: +49 (0)711 / 970-2979



Florian Fritze

[florian.fritze@irb.fraunhofer.de](mailto:florian.fritze@irb.fraunhofer.de)

Tel: +49 (0)711 / 970-2713

**Competence Center Research Services &  
Open Science**

Fraunhofer-Informationszentrum Raum und  
Bau (IRB)

[www.irb.fraunhofer.de](http://www.irb.fraunhofer.de)

Nobelstraße 12

D-70569 Stuttgart

Germany



# Fraunhofer-Publica – GoLive with DSpace-CRIS 7

Praxistreffen – 01.04.2022

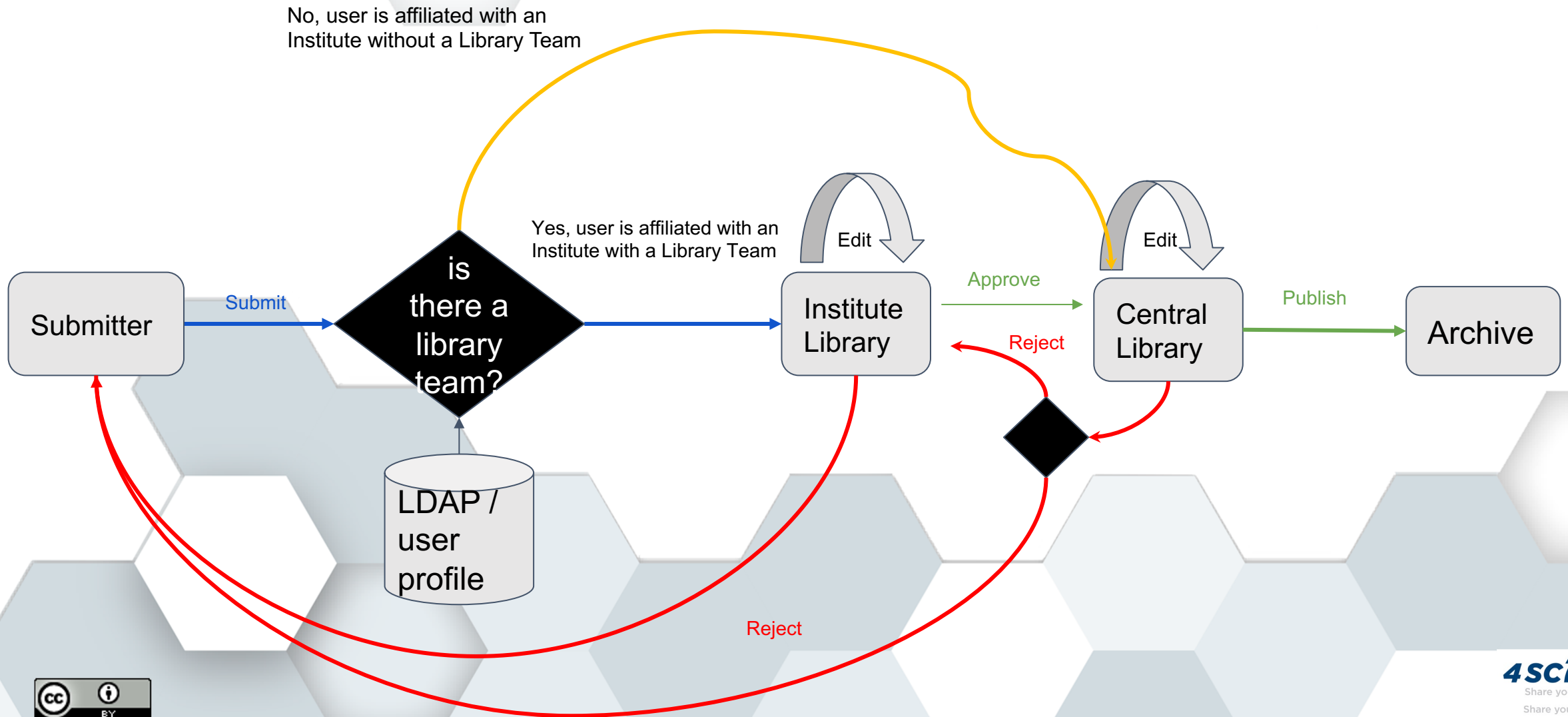
# Working together with Fraunhofer-Publica

- Collaborating from 2019
  - Ongoing support
  - Continuous alignments to the main DSpace CRIS 7 code
  - Support for GoLive
- Publica project contributions to DSpace CRIS 7
  - Matrix Layout
  - Correction request
  - Creation of related entities during the workflow

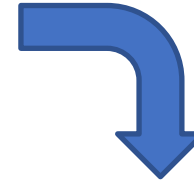
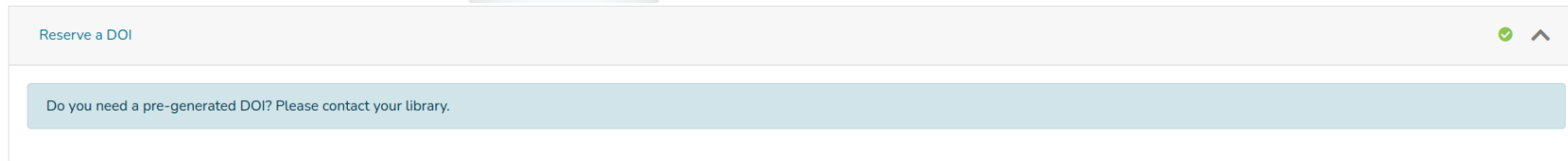
# Rise to the challenge

- Large amount of data
- Focus on performance
  - DBMS import
  - SOLR indexes
- Custom functionalities:
  - Configurable Workflow
  - Reserve a DOI functionality

# Configurable Workflow

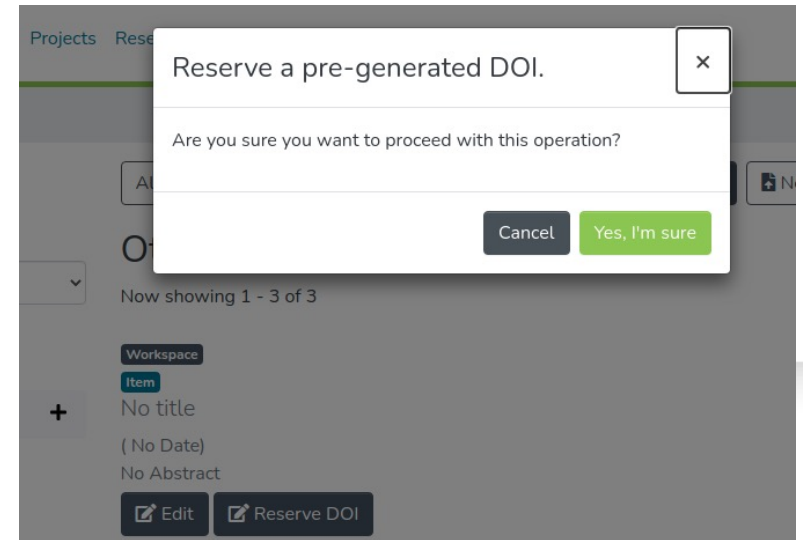


# Reserve a DOI functionality

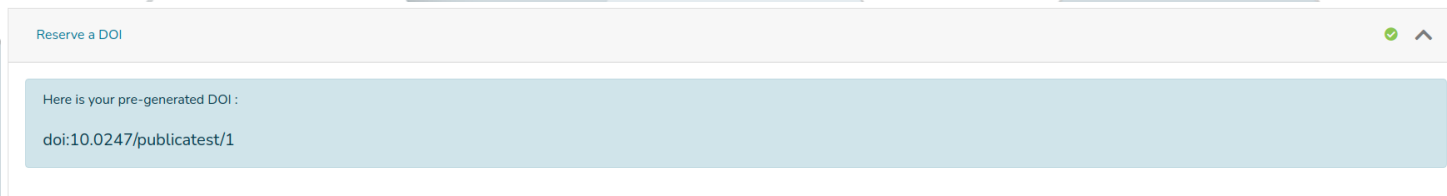


User asks Library Team for a DOI

Library pre-generate and reserve a DOI for the submission



User can use the reserved DOI





# Thank you for your attention

Giuseppe Digilio <[giuseppe.digilio@4science.it](mailto:giuseppe.digilio@4science.it)>



<https://orcid.org/0000-0003-0358-4753>

