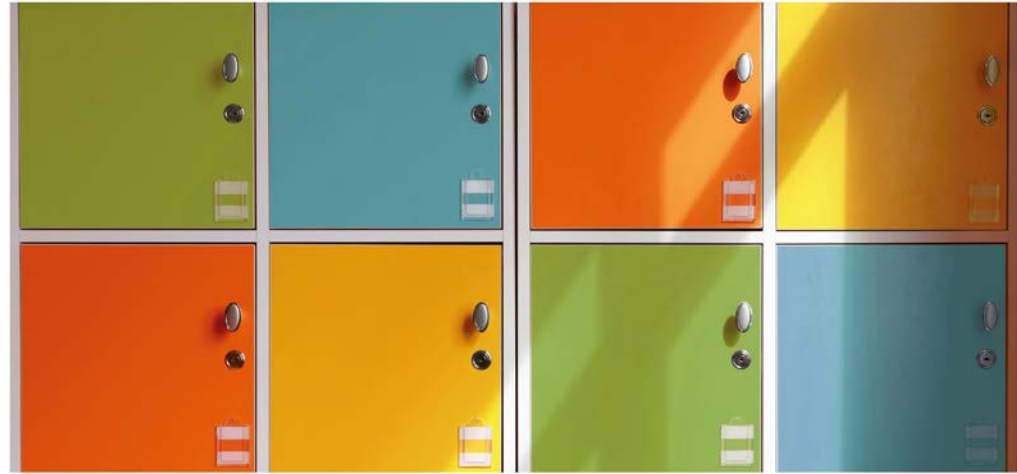


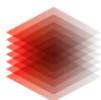


Archivierung und Publikation von Forschungsdaten mit **RADAR**



Matthias Razum

FIZ Karlsruhe – Leibniz-Institut für Informationsinfrastruktur





RADAR IN A NUTSHELL

RADAR = Research Data Repository

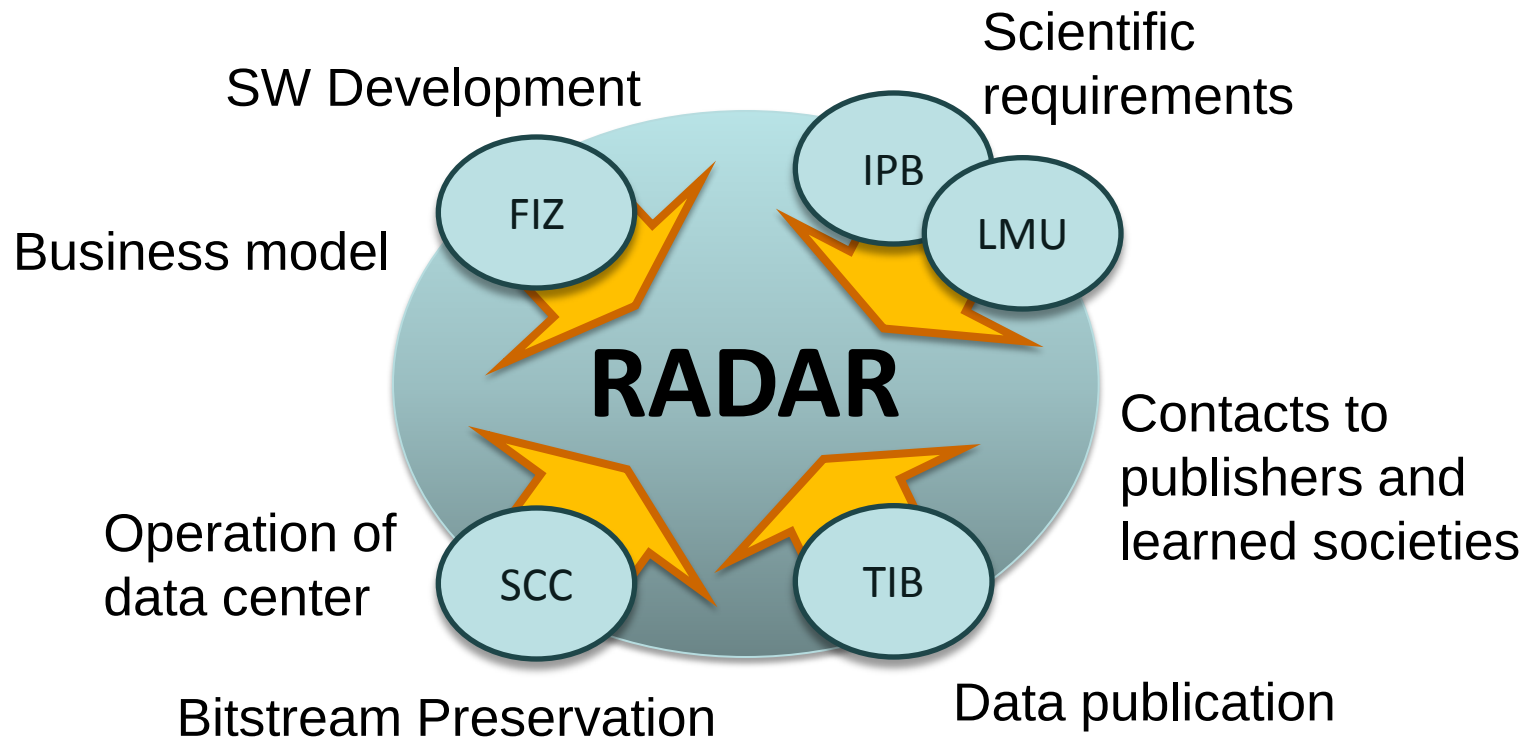
- Goal: Establish a interdisciplinary research data repository
- Project website: <http://www.radar-projekt.org>
- Funded by **DFG** from September 2013 – August 2016

Services

- Basic service: **Archival Storage** 
- Extended service: **Data Publication** 



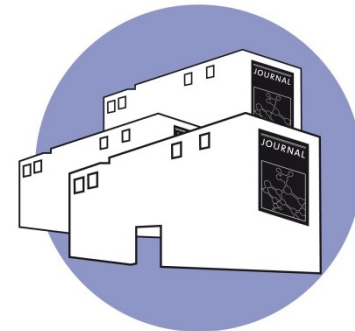
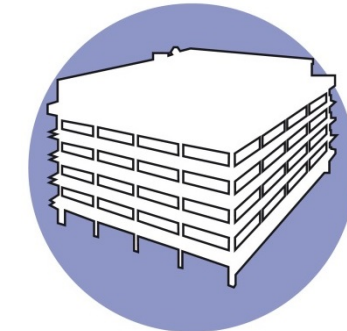
Partners and Roles





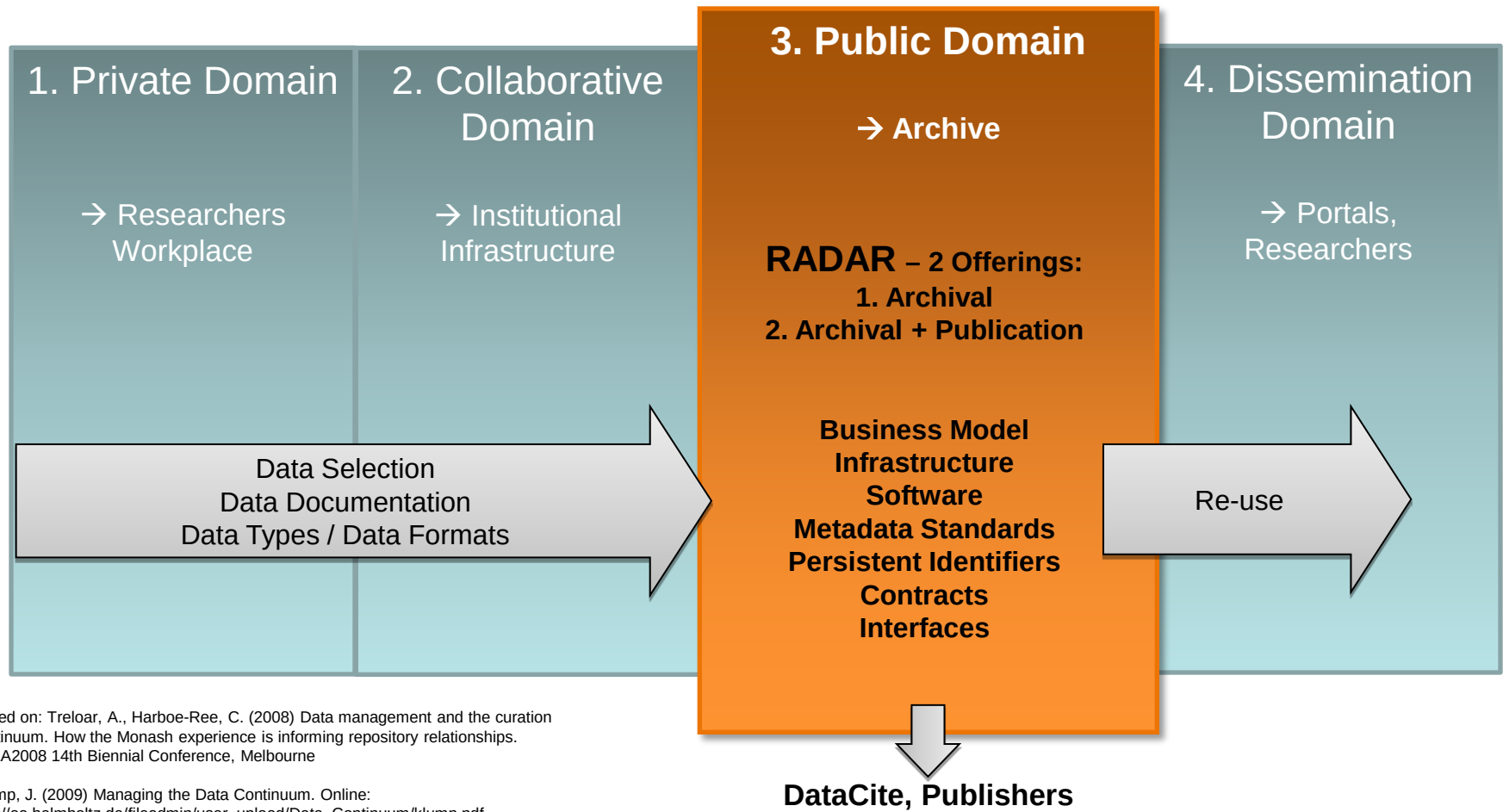
TARGET AUDIENCE

- Researchers
 - Archive (and publish) project-based research data
- Libraries and Research Institutions
 - Institutional data archival
 - Integration with existing institutional portals
- Cultural Heritage Organizations
 - Long-term preservation of digitized materials
 - Online access to web derivatives
- Publishers
 - Infrastructure for providing access to research data linked to publications





RADAR AND THE DOMAIN MODEL



Based on: Treloar, A., Harboe-Ree, C. (2008) Data management and the curation continuum. How the Monash experience is informing repository relationships. VALA2008 14th Biennial Conference, Melbourne and Klump, J. (2009) Managing the Data Continuum. Online: http://oa.helmholtz.de/fileadmin/user_upload/Data_Continuum/klump.pdf



SERVICE TYPES



Archival Storage



- Variable period (5 – 15 years) + extension
- Handle
- Access rights for selected groups/users



Data Publication



- Adaptive Metadata Schema
- DOI
- Peer-Review Support
- Access management (embargo & publisher services)
- Long-term storage (min. 25 years)





DATA LIFE CYCLE

1. Planning phase

- Project proposals, input for DMPs

2. Data selection phase

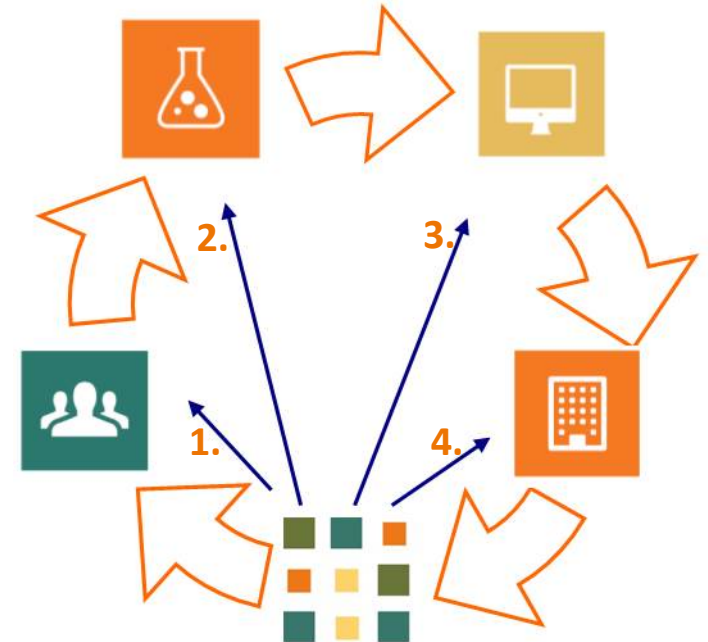
- UI for data organization & selection

3. Data management phase

- UI for association of metadata
- Archival Storage

4. Publication phase

- Peer-Review Support
- Integration Ms Submission System
- Data Publication

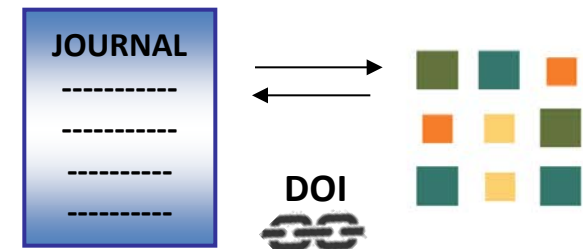
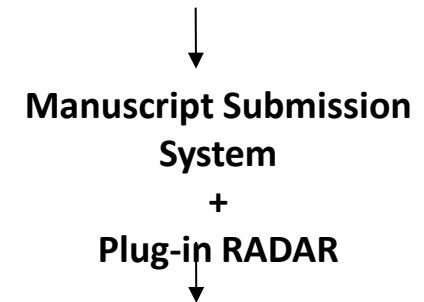




SERVICES

Services:

- Integration w/ Manuscript Submission System
- Peer-Review Support
- (Backend) Storage and Publication
- Cross-Linking (DOI) and visibility
- Statistics on downstream data use





DESCRIPTIVE METADATA

10 Mandatory

Identifier* (Handle/DOI)
Creator*
Title*
Publisher*
Publication year*
Production year or time span
Subject area
Resource
Rights*
Rightsholder



12 Optional

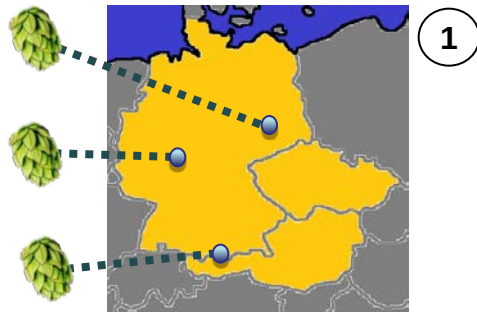
Additional title
Description
Keyword
Contributor
Language*
Alternate identifier*
Related identifier*
Geo location*
Data source
Software type
Data processing
Related information

Goal: Minimum metadata to adequately describe the dataset

* based on  DataCite
Metadata Kernel v3.1



RESEARCH PROCESS & METADATA



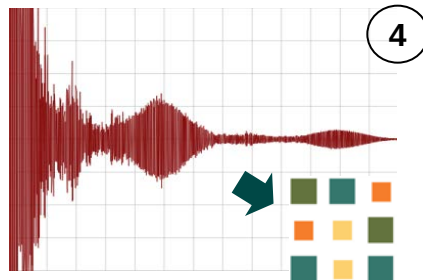
geo location



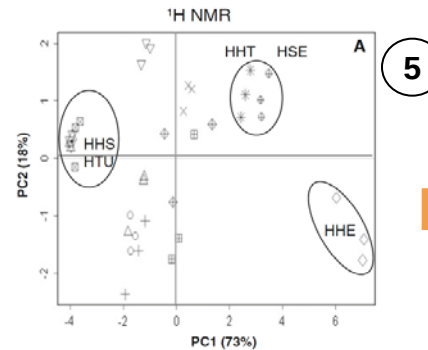
description



data source



resource type
software type



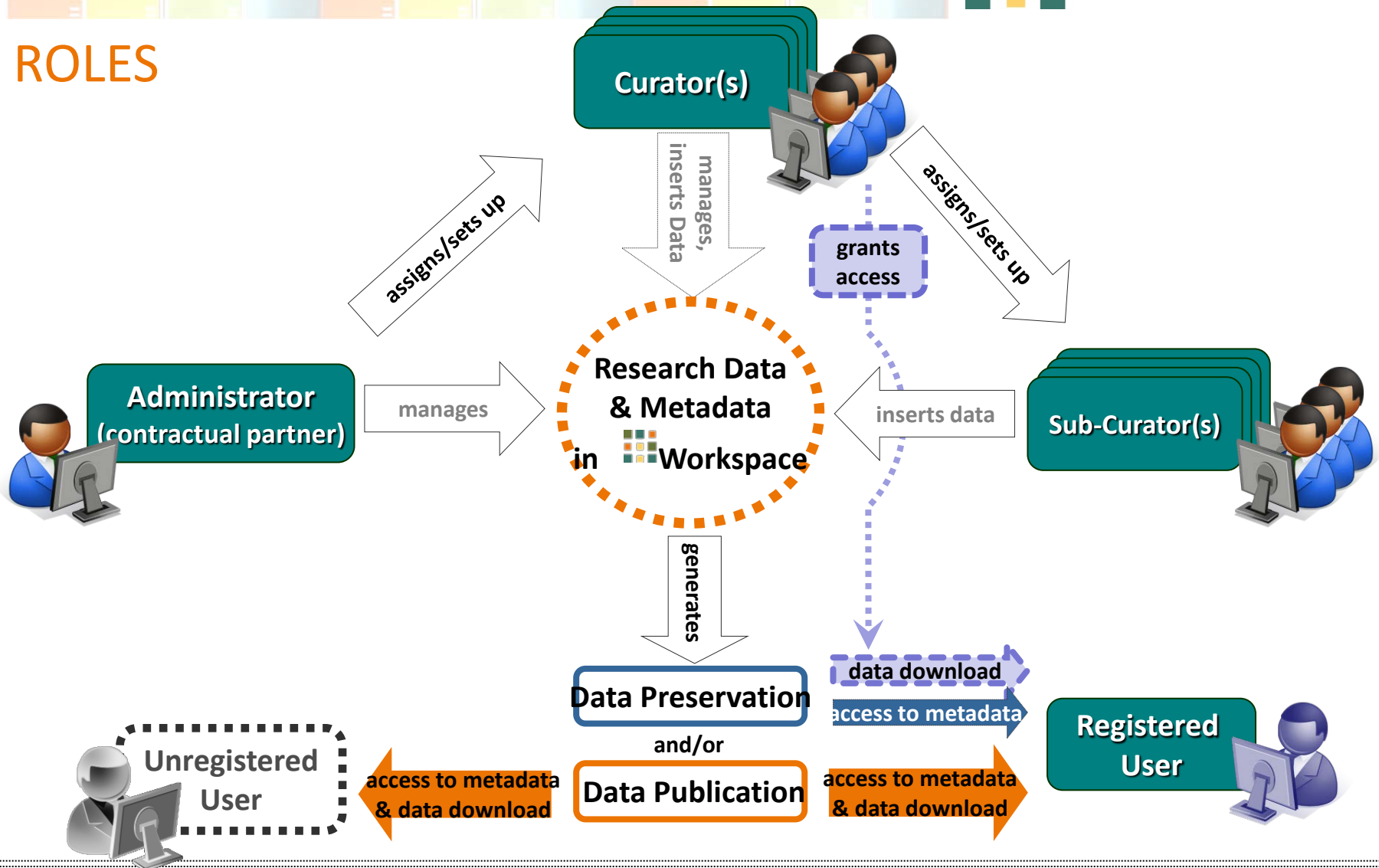
data processing



related identifier
(DOI, URL, ...)

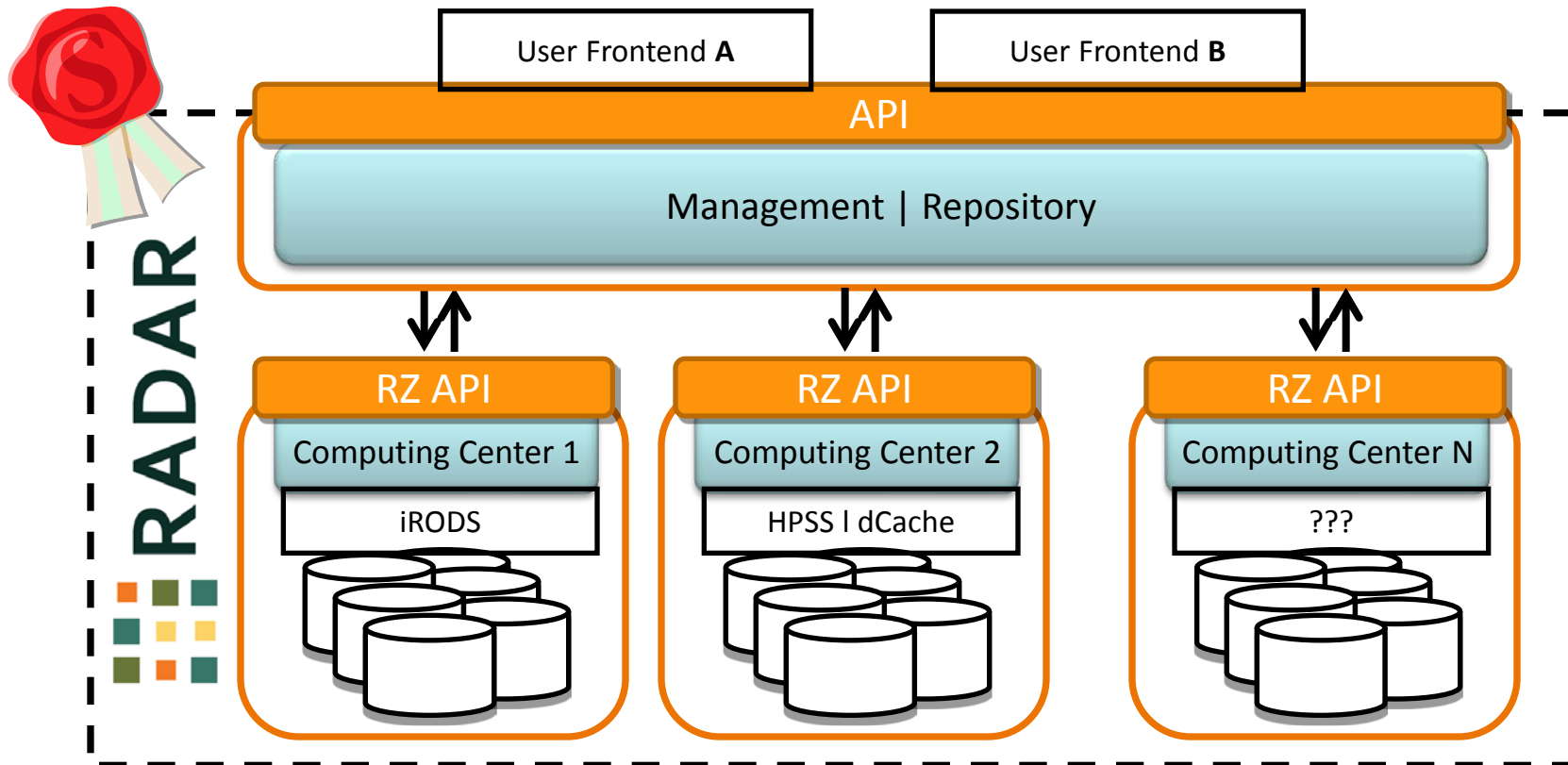


ROLES





RELIABLE STORAGE SPACE





RELIABLE STORAGE SPACE



By SCC, Karlsruher Institute for Technology
(KIT)

- National infrastructure
- Modern disk systems, tape drives and tape libraries via HPSS
- Management of storage quotas
- Regular fixity checks
- RAID systems
- BagIt (Library of Congress)
- PID Service (DOI & Handle) on data set level
- Generic metadata schema
- Managing license metadata & access rights
- REST API



RADAR REST API

- Services can be accessed via a web-based application and an application programming interface (API)
- RADAR API for developers will be available with system in March/April 2016
- API is REST-style, interchange format: JSON
- Metadata exchange via API is possible without authentication
- API client registration via OAuth: `client_id` & `client_password`
- REST API model classes for marshaling/unmarshaling request bodies to RADAR entities and metadata; these classes can be used by external customers which want to create clients for the RADAR API



PAYMENT MODELS AND PRICING

- One-time Payment
 - Compatible with typical research grants
 - For a given retention period (e.g., 10 years) or „forever“ (> 25years)
 - Coming soon
- Yearly Subscription
 - For institutional users
 - Pricing:
 - Annual Base Fee: 500,00 €/Year
 - Archived Data per GB: 0,54 €/Year
 - Published Data per GB: 0,70 €/Year

Questions?

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