









Establishing a DOI service for Switzerland's university and research sector

ETH Zurich DOI Desk

- established between 2008 and 2012 as part of the innovation and collaboration project *e-lib.ch: Swiss Electronic Library*



 Digital collections Current and historical documents and objects online in digital format more	 Tools Search tools, applications and services for making information resources easily accessible more
 Specialist portals Subject-specific sources and documents, forums for scientific debate and information from subject fields more	 Information literacy Platforms offering suggestions, techniques and methods for efficient use of information more
 Document servers Online access to freely accessible scientific reports that have been published electronically more	 Scientific publishing Information and services related to publishing scientific work more

Clients

Zurich Open Repository and Archive

Welcome to ZORA

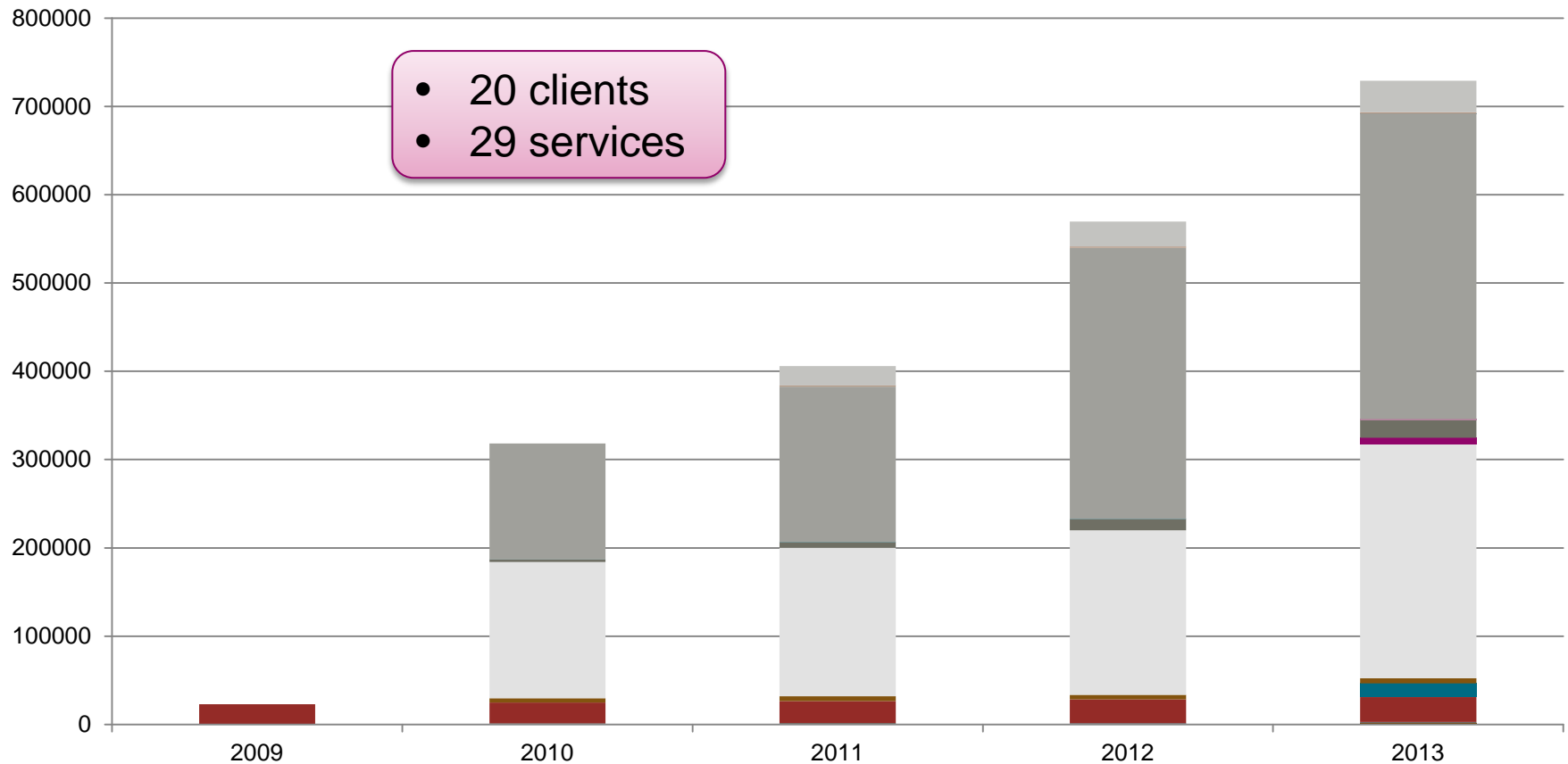


edoc | University Library of Basel

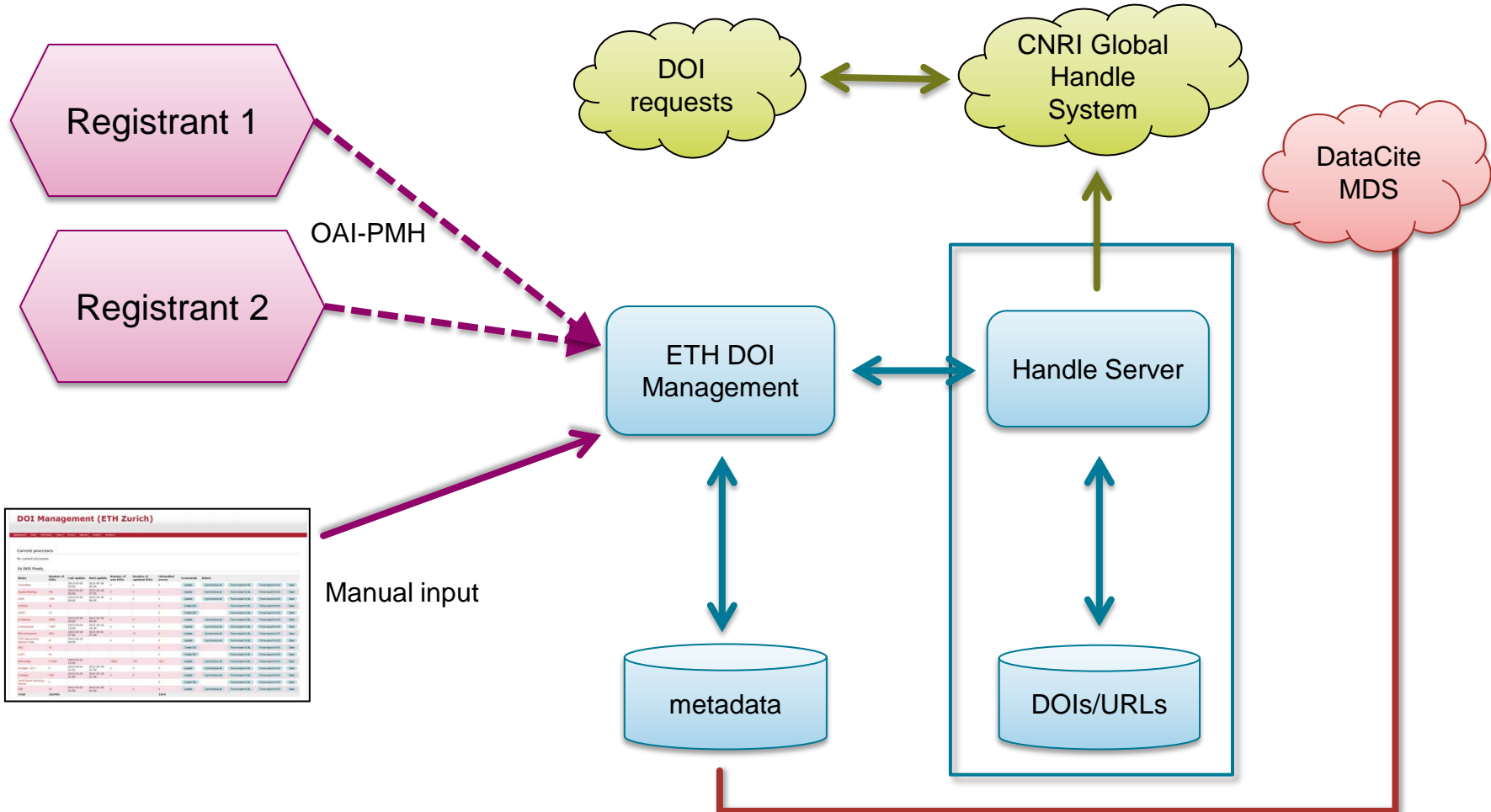


world glacier monitoring service

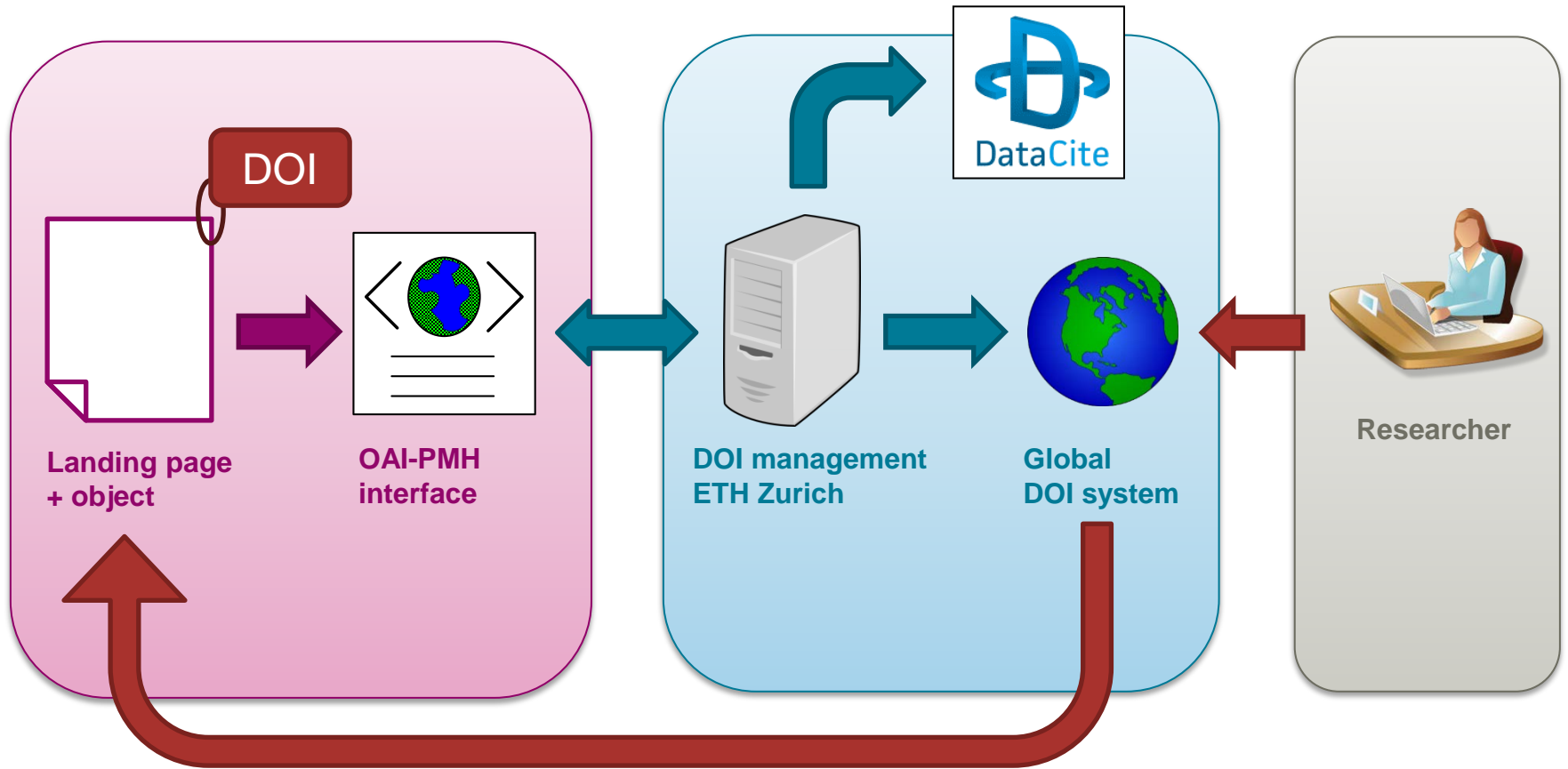
DOI registration 2009-2013



Technical Infrastructure



Workflow I



Workflow I

- Client publishes metadata via OAI-PMH, including DOI + URL
- Metadata format = Dublin Core

```

- <record>
  - <header>
    <identifier>oai:www.e-rara.ch/demusmu:147133</identifier>
    <datestamp>2010-03-11T09:01:22Z</datestamp>
    <setSpec>demusmu</setSpec>
  </header>
  - <metadata>
    - <oai_dc:dc xsi:schemaLocation="http://purl.org/dc/elements/1.1/ http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
      <dc:title>Sterne : Grundzüge der Astronomie der Fixsterne</dc:title>
      <dc:creator>Secchi, Angelo</dc:creator>
      <dc:subject>114057342-4 Stern</dc:subject>
      <dc:description>von Angelo Secchi</dc:description>
      <dc:publisher>Brockhaus</dc:publisher>
      <dc:date>1878</dc:date>
      <dc:type>text</dc:type>
      <dc:format>VI, 413 S., VIII z.T. gef. Bl</dc:format>
      <dc:format>Ill., graph. Darst., Kt</dc:format>
      <dc:identifier>48845043</dc:identifier>
      <dc:identifier>doi:10.3931/dmm-40</dc:identifier>
      <dc:identifier>http://www.e-rara.ch/demusmu/doi/10.3931/dmm-40</dc:identifier>
      <dc:language/>
    </oai_dc:dc>
  </metadata>
</record>

```

Workflow I

View DOI Pool

Name:	<input type="text" value="EPFL-Infoscience"/>
DOI Prefix:	<input type="text" value="10.5075"/>
Server URL:	<input type="text" value="http://infoscience.epfl.ch/oai2d?"/>
DOI Set:	<input type="text" value="DOI"/>
DOI URL Prefix:	<input type="text" value="http://infoscience.epfl.ch/"/>
Metadata Prefix:	<input type="text" value="oai_dc"/>
Harvest Time:	<input type="text" value="0 0 7 * * Mon"/> (cron expression)
Response Type:	<input type="text" value="OAI"/>
Last Update:	<input type="text" value="2013-03-25 07:00"/>
XSLT:	<input type="text"/>

Workflow I

DOIs

Search:

From:

To:

<input type="checkbox"/>	DOI	URL	Created
<input type="checkbox"/>	10.5075/epfl-thesis-5669	http://infoscience.epfl.ch/record/185074	2013-03-25 07:00:04.118
<input type="checkbox"/>	10.5075/epfl-thesis-5686	http://infoscience.epfl.ch/record/185087	2013-03-25 07:00:04.118
<input type="checkbox"/>	10.5075/epfl-thesis-5569	http://infoscience.epfl.ch/record/185076	2013-03-25 07:00:04.118
<input type="checkbox"/>	10.5075/epfl-thesis-5612	http://infoscience.epfl.ch/record/185083	2013-03-25 07:00:04.118
<input type="checkbox"/>	10.5075/epfl-thesis-5676	http://infoscience.epfl.ch/record/185085	2013-03-25 07:00:04.118
<input type="checkbox"/>	10.5075/epfl-thesis-5464	http://infoscience.epfl.ch/record/185077	2013-03-25 07:00:04.118
<input type="checkbox"/>	10.5075/epfl-thesis-5692	http://infoscience.epfl.ch/record/185103	2013-03-25 07:00:04.118
<input type="checkbox"/>	10.5075/epfl-thesis-5687	http://infoscience.epfl.ch/record/184959	2013-03-18 07:00:05.776
<input type="checkbox"/>	10.5075/epfl-thesis-5664	http://infoscience.epfl.ch/record/184961	2013-03-18 07:00:05.776
<input type="checkbox"/>	10.5075/epfl-thesis-5655	http://infoscience.epfl.ch/record/184901	2013-03-18 07:00:05.776
<input type="checkbox"/>	10.5075/epfl-thesis-5691	http://infoscience.epfl.ch/record/184960	2013-03-18 07:00:05.776
<input type="checkbox"/>	10.5075/epfl-thesis-5631	http://infoscience.epfl.ch/record/184903	2013-03-18 07:00:05.776
<input type="checkbox"/>	10.5075/epfl-thesis-5637	http://infoscience.epfl.ch/record/184957	2013-03-18 07:00:05.776
<input type="checkbox"/>	10.5075/epfl-thesis-5680	http://infoscience.epfl.ch/record/184862	2013-03-11 07:00:03.715
<input type="checkbox"/>	10.5075/epfl-thesis-5659	http://infoscience.epfl.ch/record/184856	2013-03-11 07:00:03.715
<input type="checkbox"/>	10.5075/epfl-thesis-5689	http://infoscience.epfl.ch/record/184859	2013-03-11 07:00:03.715

Workflow I

View DOI

DOI:

URL:

Created: 2013-03-18 07:00:05.776

Modified: 2013-03-18 07:00:05.776

Owner:


MetaData

Titles:

Creators:

Publishers:

Dates:



Metadata Search

Options | Advanced Search | About Us | Contact | Help

beta

No active filters. Use the sidebar to filter search results.

1 documents found in 52ms

Page 1 of 1

[Thermo-environmental optimisation of fuel decarbonisation alternative processes for hydrogen and power production](#) # 1

doi:10.5075/EPFL-THESIS-5655 Text

Tock, Laurence

doi: **10.5075/EPFL-THESIS-5655**

Page 1 of 1

DataCite Metadata Search • Query Time: 52ms • API Query: [xml](#), [json](#), [csv](#) • [OAI-PMH](#)

Workflow II

16 DOI Pools								
Name	Number of DOIs	Last update	Next update	Number of new DOIs	Number of updated DOIs	Unhandled errors	Commands	Admin
AltreLettere	7	2013-03-25 05:00	2013-03-26 05:00	0	0	0	Update	Synchronize all
Applied-Rheology	706	2013-03-25 06:30	2013-03-26 07:30	0	0	0	Update	Synchronize all
CERN	1056	2013-03-25 06:00	2013-03-26 06:00	0	0	0	Update	Synchronize all
CORSSA	16					0	Create DOI	
DODIS	15					0	Create DOI	
E-Collection	26801	2013-03-25 08:00	2013-03-26 08:00	0	0	1	Update	Synchronize all

Workflow II

Create DOI

DOI*:

URL*:

Created:

Modified:

Owner*:

MetaData

<p>Titles*: <input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Delete"/> <input type="button" value="Up"/> <input type="button" value="Down"/> </p> <p><input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Add"/> <input type="button" value="Edit"/> </p> <p>Creators*: <input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Delete"/> <input type="button" value="Up"/> <input type="button" value="Down"/> </p> <p><input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Add"/> <input type="button" value="Edit"/> </p> <p>Publishers*: <input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Delete"/> <input type="button" value="Up"/> <input type="button" value="Down"/> </p> <p><input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Add"/> <input type="button" value="Edit"/> </p> <p>Dates*: <input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Delete"/> <input type="button" value="Up"/> <input type="button" value="Down"/> </p>	<p>Descriptions: <input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Delete"/> <input type="button" value="Up"/> <input type="button" value="Down"/> </p> <p><input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Add"/> <input type="button" value="Edit"/> </p> <p>Types: <input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Delete"/> <input type="button" value="Up"/> <input type="button" value="Down"/> </p> <p><input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Add"/> <input type="button" value="Edit"/> </p> <p>Formats: <input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Delete"/> <input type="button" value="Up"/> <input type="button" value="Down"/> </p> <p><input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Add"/> <input type="button" value="Edit"/> </p> <p>Sources: <input style="border: 1px solid #ccc;" type="text"/> <input type="button" value="Delete"/> <input type="button" value="Up"/> <input type="button" value="Down"/> </p>
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Monitoring

DOI Management (ETH Zurich)												
Dashboard	DOIs	DOI Pools	Users	Errors	Imports	Orders	Archive					
Current processes												
No current processes												
16 DOI Pools												
Name	Number of DOIs	Last update	Next update	Number of new DOIs	Number of updated DOIs	Unhandled errors	Commands	Admin				
AltreLettere	7	2013-03-25 05:00	2013-03-26 05:00	0	0	0	Update	Synchronize all	Force export to BL	Force export to HS	Clear	
Applied-Rheology	706	2013-03-25 06:30	2013-03-26 07:30	0	0	0	Update	Synchronize all	Force export to BL	Force export to HS	Clear	
CERN	1056	2013-03-25 06:00	2013-03-26 06:00	0	0	0	Update	Synchronize all	Force export to BL	Force export to HS	Clear	
CORSSA	16					0	Create DOI		Force export to BL	Force export to HS	Clear	
DODIS	15					0	Create DOI		Force export to BL	Force export to HS	Clear	
E-Collection	26801	2013-03-25 08:00	2013-03-26 08:00	0	0	1	Update	Synchronize all	Force export to BL	Force export to HS	Clear	
e-manuscripta	11887	2013-03-24 18:30	2013-03-25 18:30	0	0	0	Update	Synchronize all	Force export to BL	Force export to HS	Clear	
EPFL-infoscience	5653	2013-03-25 07:00	2013-04-01 07:00	7	37	0	Update	Synchronize all	Force export to BL	Force export to HS	Clear	
ETHZ Data Archive - Research Data	97	2013-03-19 08:00		0	0	0	Update	Synchronize all	Force export to BL	Force export to HS	Clear	
JROI	10					0	Create DOI		Force export to BL	Force export to HS	Clear	
LIVES	29					0	Create DOI		Force export to BL	Force export to HS	Clear	
Retro-Seals	317524	2013-03-22 14:42		10620	730	1813	Update	Synchronize all	Force export to BL	Force export to HS	Clear	
UB Basel - 027.7	6	2013-03-24 21:31	2013-03-25 21:30	0	0	0	Update	Synchronize all	Force export to BL	Force export to HS	Clear	
Uni-Basel	1607	2013-03-24 21:00	2013-03-25 21:00	0	0	0	Update	Synchronize all	Force export to BL	Force export to HS	Clear	
World Glacier Monitoring Service	2					0	Create DOI		Force export to BL	Force export to HS	Clear	
ZHB	29	2013-03-25 01:00	2013-03-26 01:00	0	0	0	Update	Synchronize all	Force export to BL	Force export to HS	Clear	
Total	365445					1814						

DOI Policy

Is based on the DataCite «Business Models Principles» ([doi:10.5438/0007](https://doi.org/10.5438/0007)) and defines

- Requirements for the DOI user
- Requirements for the digital objects
- Requirements for metadata
- Requirements for the storage system

www.library.ethz.ch/en/doi-desk → DOI-Policy

Requirements

- DOI User
 - Institution from the Swiss academic and research sector

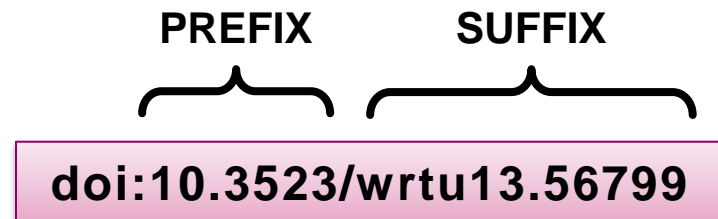
- Digital objects
 - Primary data, secondary data (publications, grey literature)
 - Accessible at any time via URL/HTTP
 - Access restrictions are to be avoided
 - Produced according to specialist standards
 - Described with metadata
 - File format is open but should enable long-term archiving
 - Objects should not be altered; new versions receive new DOIs

Requirements

- Metadata
 - The DataCite mandatory set of metadata must be provided as a minimum with every DOI object
 - *Creator*
 - *Title*
 - *Publisher*
 - *PublicationYear*
 - Metadata will be searchable in the DataCite MDS and other portals
- Storage System
 - Clients must save objects on a trustworthy service
 - Immediate updates when URL location changes
 - Deleted objects must be directed to a Tombstone Page

Service Level Agreements

- Description of service
- Description of workflow
- Cost model
- Process for “deletions”
- DOI Syntax
- Metadata Schema



Outreach and Dissemination of Best Practices

View this email in your browser
www.library.ethz.ch/en/doi-desk →

ETH zürich

Issue 1/2014

DOI Desk – Newsletter

Dear Clients, Dear Readers

We are pleased to send you the first issue of the ETH Zurich DOI Desk Newsletter.

The **ETH Zurich DOI Desk** is the official DOI registration office for Switzerland's university and research sector. We currently serve 20 clients with almost 30 publication services.


Our new regular newsletter keeps current and prospective clients up to date with the latest developments around persistent identifiers and interesting initiatives from the data citation community. Two to three times a year we will share news with you from the ETH Zurich DOI Desk, DataCite and the International DOI Foundation.

We hope that this service will be of interest to you. However, if you wish to opt out from receiving any further newsletters please use the unsubscribe link below.

Use doi.org for resolving or citing DOIs

Last year the **International DOI Foundation** changed its policy for resolving DOIs. The use of doi.org is now the preferred and recommended way of resolving a DOI.


Instead of using the URL prefix `http://dx.doi.org/` the shorter version `http://doi.org/` can and should be used. Please note however that `dx.doi.org` is still fully supported and will not be discontinued.



Short DOI Service

Have you ever wondered how to reference a DOI in a poster, presentation or tweet? The **DOI-Shortener Tool** might be just what you are looking for.


With this convenient tool you can easily transform a DOI-URL such as `http://dx.doi.org/10.3929/ethz-a-010010483` into a shorter



- Advising prospective clients on data citation and publication
- Regular newsletter service
- DataCite Policy and Best Practices Working Group
- DataCite Metadata Working Group

Example I: ZORA

Quick Search:



**University of
Zurich**
UZH

Home | Login | Contact | About ZORA


Browse by:

- Communities & Collections
- Dewey Decimal Classification
- Creators/Editors
- Year

Zurich Open Repository and Archive

Permanent URL to this publication: <http://dx.doi.org/10.5167/uzh-94070>

Auclair, Yannick; König, Barbara; Ferrari, Manuela; Perony, Nicolas; Lindholm, Anna K (2014). Nest attendance of lactating females in a wild house mouse population: benefits associated with communal nesting. *Animal Behaviour*, 92:143-149.



Published Version
PDF - Registered users only
376Kb

Abstract

Among species providing uniparental care, the caring parent faces time constraints and may have to compromise offspring care/protection for self-maintenance. In most mammalian species females raise their offspring without receiving help from males. Communal nesting, when multiple females share a single nest where they rear their pups together, may have evolved as a mutually beneficial cooperative behaviour to reduce mothers' nest attendance without increasing the time their offspring are left alone. We tested this hypothesis using data collected in a free-living house mouse population where reproduction occurred in nest boxes and was closely monitored. Individuals were fitted with transponders allowing automatic recording of their location, and a genetic parentage analysis confirmed maternal identity. Compared to mothers raising their pups solitarily, communally nesting mothers spent less time inside their nest. Their pups, however, were left alone for a similar amount of time as solitarily raised pups. The time communal litters were left alone did not covary with the kinship of communally nesting females. These results indicate that communally nesting mothers can allocate more time to foraging or territorial defence without impairing the amount of maternal attention received by their offspring. Nevertheless, communally nesting mothers showed some overlap in their stays at the nest. Offspring may benefit from more regular meals while mothers may gain information on the partner's contribution to combined maternal care which could potentially prevent cheating.

Item Type: Journal Article, refereed, original work

Communities & Collections: 07 Faculty of Science > Institute of Evolutionary Biology and Environmental Studies

DDC: 570 Life sciences; biology
590 Animals (Zoology)

Language: English

Date: 01 June 2014

Deposited On: 21 May 2014 17:47

Last Modified: 03 Jun 2014 18:10

Publisher: Elsevier

ISSN: 0003-3472

Publisher DOI: 10.1016/j.anbehav.2014.03.008

Citations: Google Scholar

Example II: World Glacier Monitoring Service

database versions

doi

Creator: World Glacier Monitoring Service (WGMS)

Title: Fluctuations of Glaciers Database

Publisher: World Glacier Monitoring Service (WGMS)

PublicationYear: 2013

Release date: 2013-11-28

Citation: WGMS (2013): Fluctuations of Glaciers Database. World Glacier Monitoring Service, Zurich, Switzerland. DOI:10.5904/wgms-fog-2013-11. Online access: <http://dx.doi.org/10.5904/wgms-fog-2013-11>

Contributors: WGMS scientific collaboration network of national correspondents and principal investigators as listed in the related publications above.

Versions	doi	metadata	data download
2013 (current)	10.5904/wgms-fog-2013-11	website	zip file
2012	10.5904/wgms-fog-2012-11	info	zip file

2013 (current)	10.5904/wgms-fog-2013-11	website	zip file
2012	10.5904/wgms-fog-2012-11	info	zip file

Some conclusions ... for DataCite members

- Target your potential clients directly
- Listen to your community and their needs
- Use cases for DOIs are varied: be open, not exclusive
- Educate librarians and academics about the fact that DOI registration with DataCite can be much more than what first comes to your mind when you think about a «Data DOI»

Contacts

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