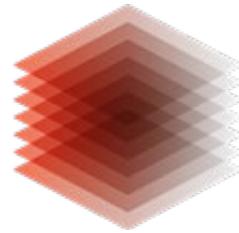


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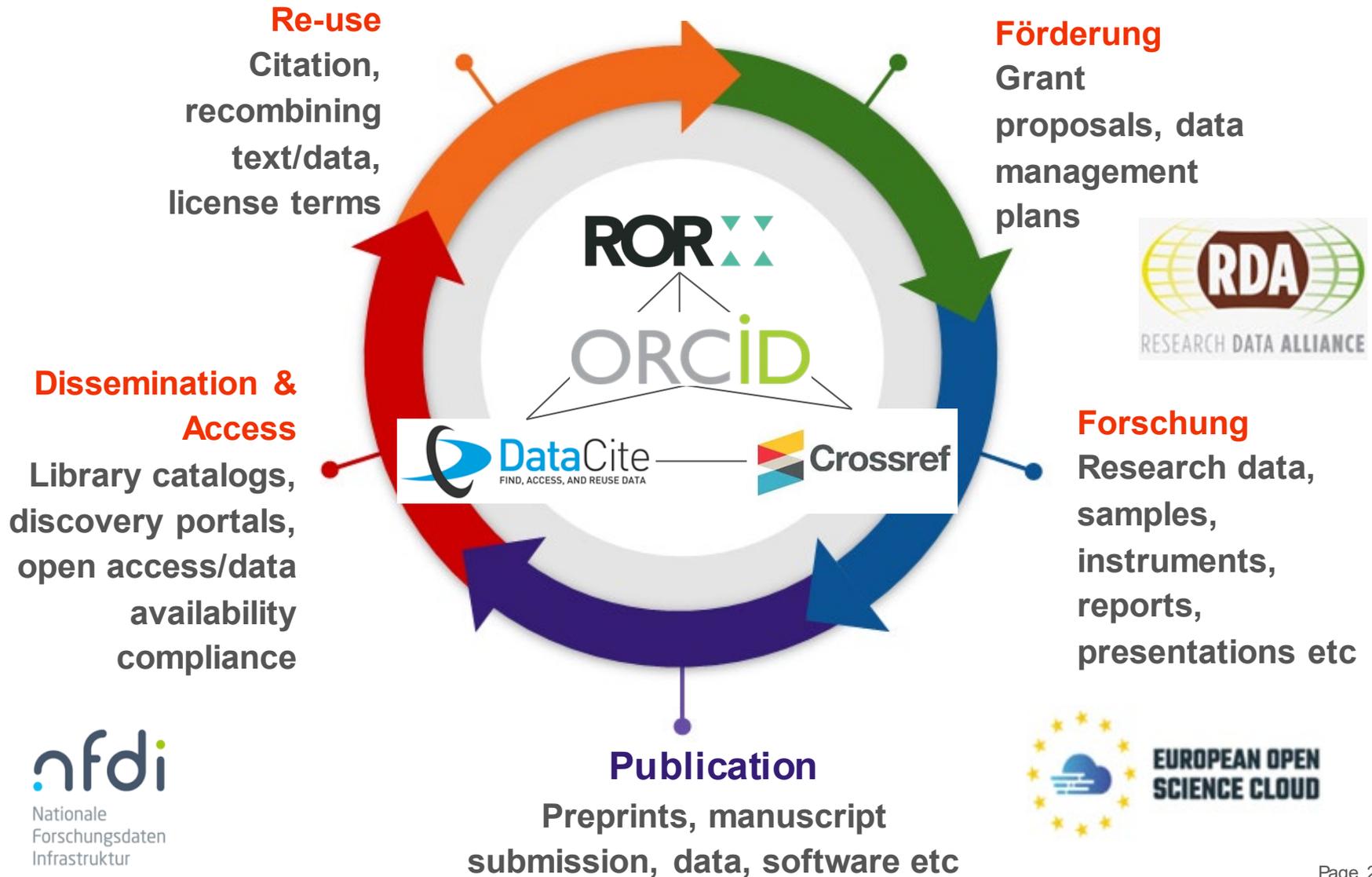
Britta Dreyer  <https://orcid.org/0000-0002-0687-5460>



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PIDs im Forschungszyklus



PIDs unterstützen die FAIR Prinzipien

.....PIDs (und die dazugehörigen Metadaten) sind wesentliche Bestandteile der Implementierung der FAIR Prinzipien



Findable. Standardisierte PID-Metadaten unterstützen die Auffindbarkeit von Forschungoutput.



Accessible. Weltweite Auflösbarkeit mit jedem Internet Browser. Die dazugehörige URL kann aktualisiert werden, der DOI verbleibt unverändert.

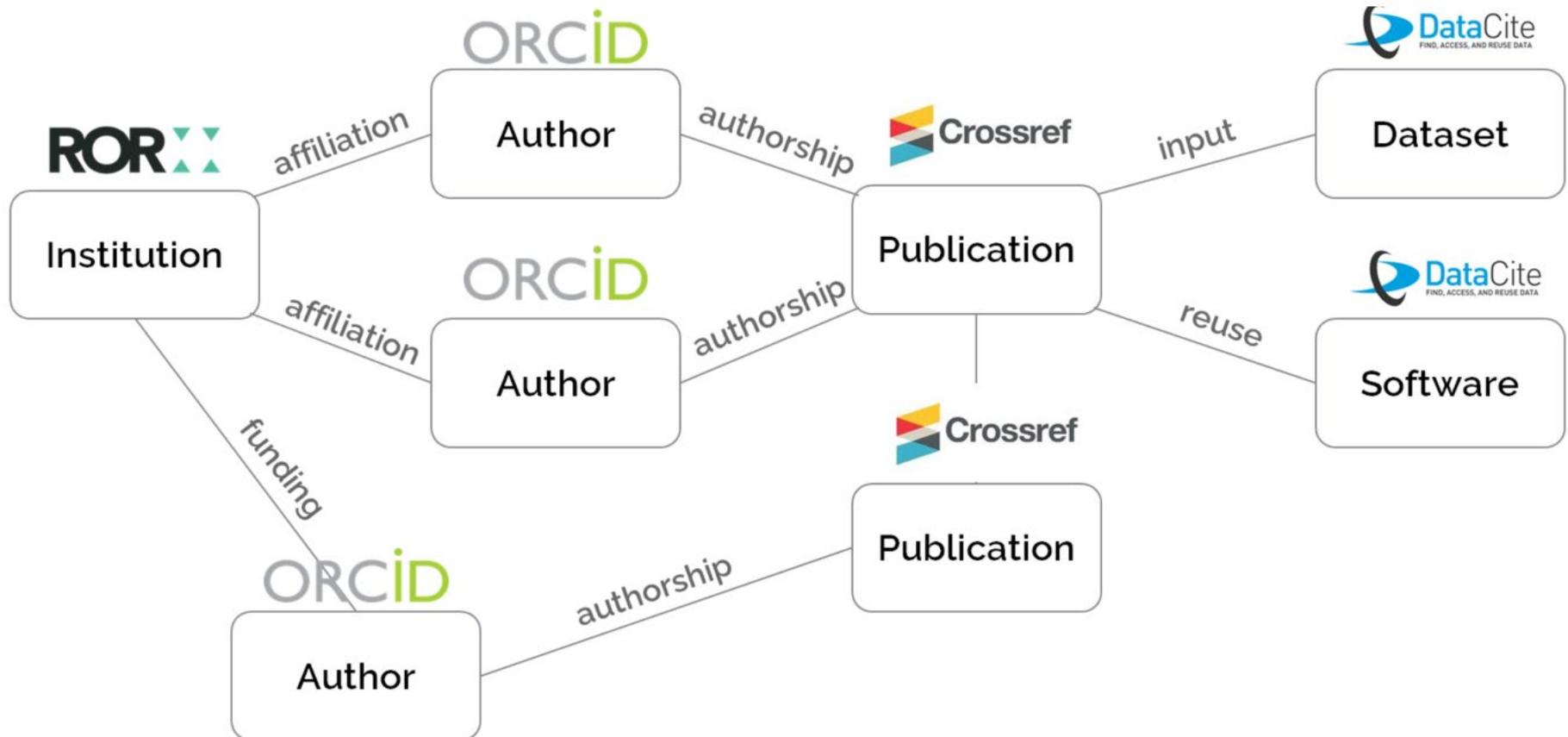


Interoperable. Standard Metadaten/Vokabularien und Verlinkung mit anderen PIDs z.B. Software DOIs, Forschungsgeräte DOIs, ORCIDs und RORs in den Metadaten eines PIDs.



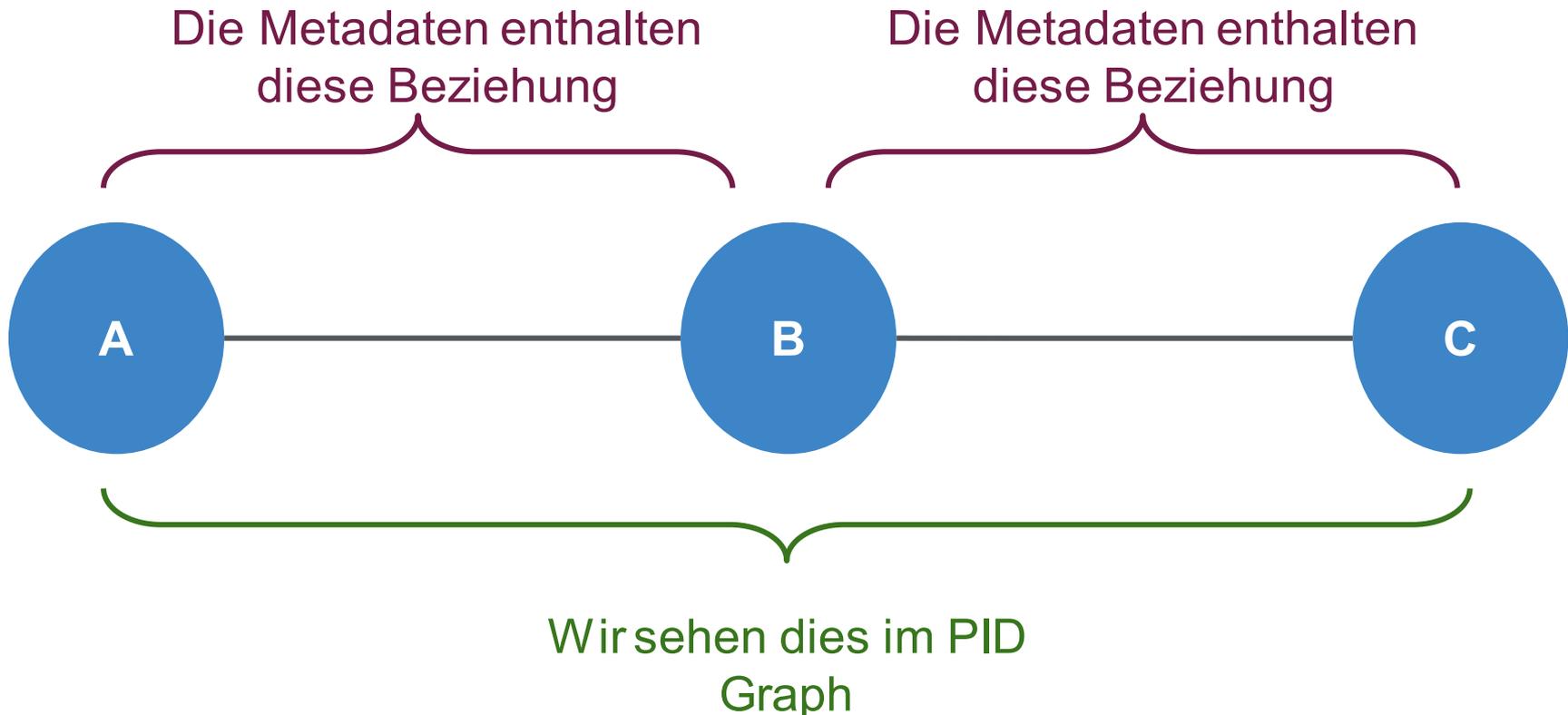
Reusable. Zitierbarkeit, Reputation. Qualitative und aktuelle Metadaten generieren Vertrauen. Verknüpfung mit anderen PIDs.

Forschung in graphischer Darstellung



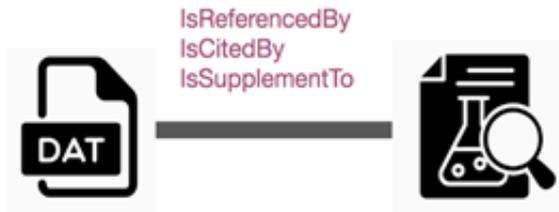
Metadaten unterstützen Wissen

PIDs können durch die Metadaten miteinander in Beziehung gesetzt werden - hiermit werden weitere Verknüpfungen auffindbar.

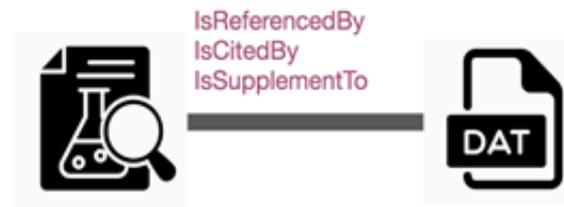


relatedIdentifier Metadaten-Objekt

Citations

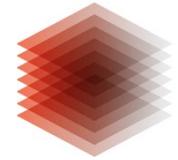


References

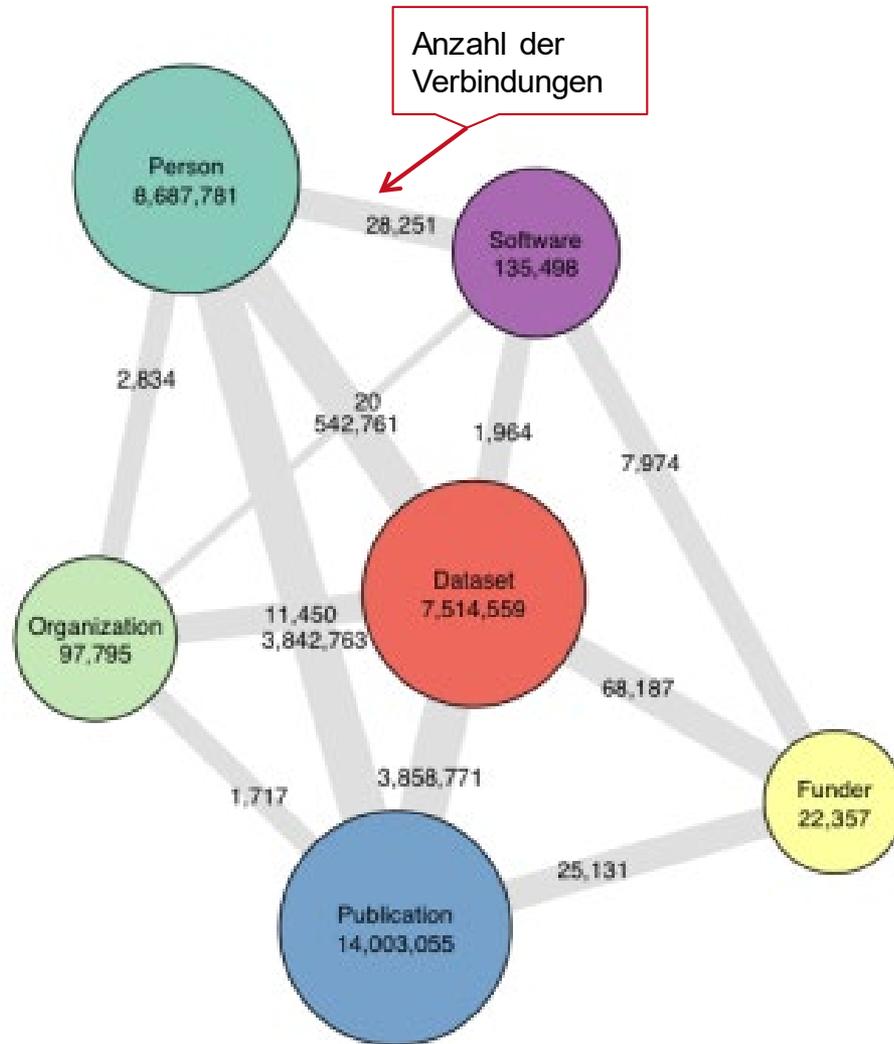


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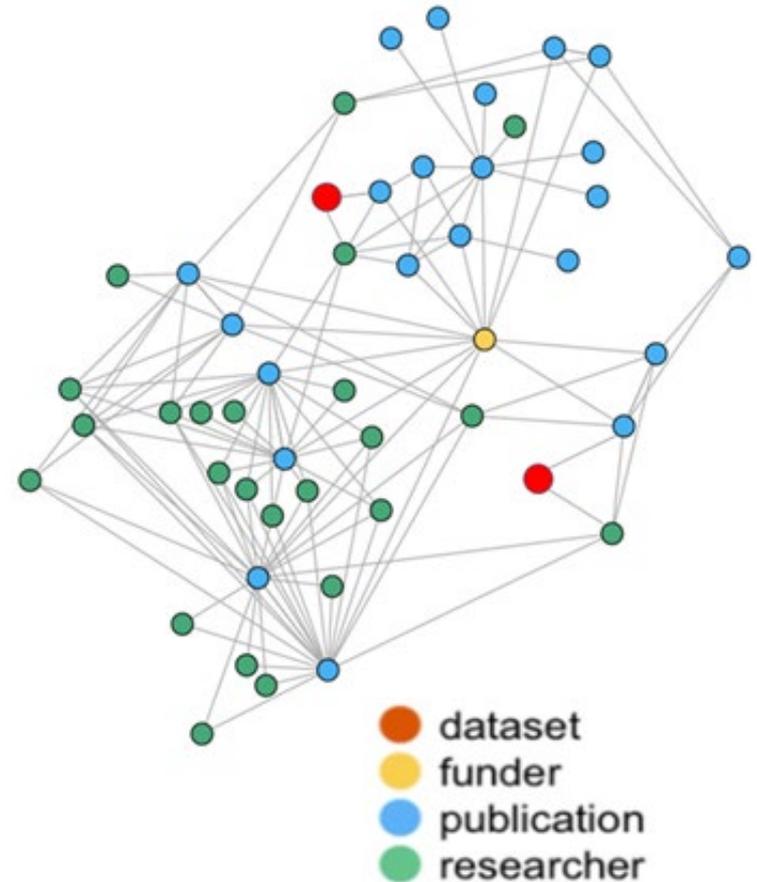
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IsIdenticalTo
IsReviewedBy
Reviews
IsDerivedFrom
IsSourceOf
IsRequiredBy
Requires
IsObsoletedBy
Obsoletes



Der PID Graph



Beispiel-Graph:



DataCite Commons

DataCite Commons beinhaltet:

- die Beziehungen zwischen DOIs in Form von Zitaten, Versionen und Sammlungen
- die Beziehungen zwischen Forschungsoutput mit DOIs, Forschenden (ORCID), Forschungsorganisationen (ROR) und Förderern (Crossref Funder ID), z.B. sämtlicher Forschungsoutput/Förderer oder sämtlicher Forschungsoutput/Einrichtung

Weitere Informationen:

<https://doi.org/10.5438/f4df-4817>



Aggregation nach Forschenden (ORCID)

<https://orcid.org/0000-0001-5492-3212>

Markus Stocker

Markus Stocker is Head of the Knowledge Infrastructures Research Group at the TIB Leibniz Information Centre for Science and Technology. He holds a PhD in Environmental Informatics from the University of Eastern Finland; a MSc in Environmental Science from the University of Eastern Finland; and a Diploma (MSc) in Informatics from the University of Zurich, Switzerland. His research interests lie at the intersection between research infrastructures and research communities, and how such infrastructures acquire, maintain, and share scientific knowledge about human and natural worlds. Prior to TIB, Markus held a postdoctoral research associate position at

Aggregated Citations, Views and Downloads

3 Citations

36 Views

Accessibility Achievements



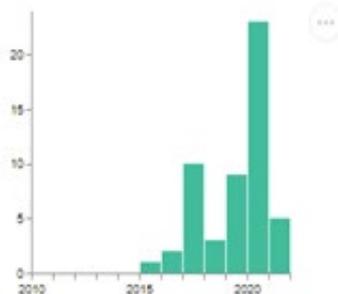
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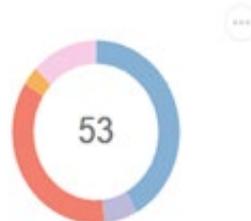
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53 Works

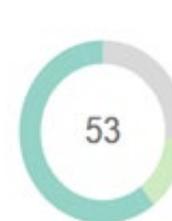
Publication Year



Work Type



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Other Identifiers

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Loop profile: [1242536](#)

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Co-Authors ?

| | |
|---|----|
| <input type="checkbox"/> Auer, Sören | 16 |
| <input type="checkbox"/> Magagna, Barbara | 10 |
| <input type="checkbox"/> Oelen, Allard | 9 |
| <input type="checkbox"/> Jaradeh, Mohamad Yaser | 8 |
| <input type="checkbox"/> Zhao, Zhiming | 7 |
| <input type="checkbox"/> Thijsse, Peter | 6 |
| <input type="checkbox"/> Prinz, Manuel | 6 |
| <input type="checkbox"/> Fiebig, Markus | 5 |
| <input type="checkbox"/> Jeffery, Keith | 5 |

Aggregation nach Institution (ROR)



Publication Year

- 2021 40
- 2020 49
- 2019 48
- 2018 35
- 2017 16
- 2016 9
- 2015 1
- 2014 27
- 2013 2
- 2010 57

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Field of Science

- Biological sciences 4
- Earth and related environmental sciences 1
- Economics and business 1
- Natural sciences 1
- Social sciences 1

Work Type

- Dataset 128
- Text 8
- Software 1
- Model 1

Aggregated Citations, Views and Downloads

60 Citations

1,298 Views

735 Downloads

284 Works

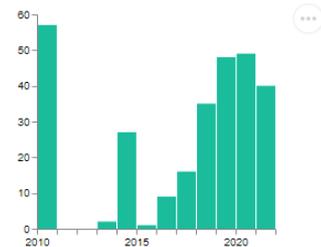
Registration Agency

- DataCite 284

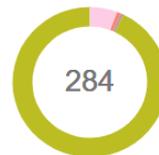
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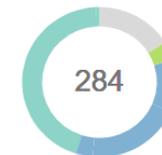
Publication Year



Work Type



License



Authors

- Schirmer, Annika 5
- Dammhahn, Melanie 5
- Röleke, Manuel 3
- Webber, Heidi 3
- Onandia, Gabriela 3
- Hoffmann, Mathias 3
- Mirschel, Wilfried 3
- Glemnitz, Michael 3
- Rillig, Matthias 3
- Blaum, Niels 2

Language

- English 217
- German 2

Aggregation nach Publikation (DOI)

<https://doi.org/10.5061/dryad.s903c>

Data from: N balance and cycling of Inner Mongolia typical steppe - a comprehensive case study of grazing effects

Marcus Giese, Holger Brueck, Yingzhi Gao, Shan Lin, Markus Steffens, Ingrid Kögel-Knabner, Thomas Glindemann, Andreas Susenbeth, Friedhelm Taube, Klaus Butterbach-Bahl, Xunhua Zheng, Carsten Hoffmann, Yongfei Bai & Xingguo Han
Version 1 of Dataset published 2013 in *DRYAD*

Increasing grazing pressure and climate change affect nitrogen (N) dynamics of grassland ecosystems in the Eurasian Steppe but the unclear consequences for future delivery of essential services such as forage production, C sequestration, and diversity conservation. The identification of key processes responsive to grazing is crucial to optimize grassland management. In this comprehensive case study of a Chinese typical steppe, we present an in-depth analysis of grazing effects on N dynamics including the balance of N gains and losses, and N cycling. N pools and fluxes simultaneously quantified on three grassland sites of different long-term grazing intensity. Dust deposition, wind erosion, and wet deposition were predominant but most variable processes contributing to N losses and heavy grazing increased the risk of N losses by wind erosion. Haymaking and sheep excrements export to folds during night time keeping were important pathways of N losses from grassland sites. Compared to these fluxes, gaseous N losses (N₂O, NO, N₂) and N losses via export of sheep live weight and wool were of minor relevance. Our N balance calculation indicated mean annual losses of 0.9 (plus minus 0.8) g N m⁻² at the heavily grazed site, whereas the long-term ungrazed site was an N sink receiving mean annual inputs of 1.8 (plus minus 1.1) g N m⁻², mainly due to dust deposition. Heavy grazing reduced pool sizes of both topsoil C, N, and above- and belowground biomass and N fluxes with regard to plant N uptake, decomposition, gross microbial N turnover immobilization. Most N-related processes were more intensive in seasons of higher water availability indicating complex interactions between land use intensity and climate variability. The projected increase of atmospheric N depositions and changes in rainfall superimposed by land use change will likely affect N sink-source pathways and N flux dynamics, indicating high potential impact on grassland ecosystem functions. Land use practices will be increasingly important for the management of N dynamics in Chinese steppe and, therefore, must be considered as key component to maintain, restore or optimize ecosystem services.

DOI registered April 16, 2013 via DataCite.



1 Citation 830 Views 665 Downloads

Dataset English

<https://doi.org/10.5061/dryad.s903c>

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University of Hohenheim

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Technical University Munich

Andreas Susenbeth
Kiel University

Xunhua Zheng
Osaka Prefecture University

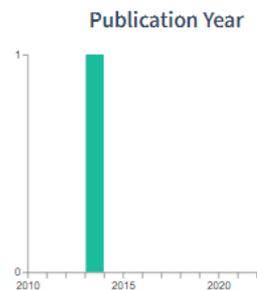
Yingzhi Gao

Ingrid Kögel-Knabner
Technical University Munich

Friedhelm Taube

Carsten Hoffmann
Leibniz Centre for Agricultural Landscape
Research

1 Reference 1 Citation



Work Type



License



N balance and cycling of Inner Mongolia typical steppe: a comprehensive case study of grazing effects

M. Giese, H. Brueck, Y. Z. Gao, S. Lin, M. Steffens, I. Kögel-Knabner, T. Glindemann, A. Susenbeth, F. Taube, K. Butterbach-Bahl, X. H. Zheng, C. Hoffmann, Y. F. Bai & X. G. Han
Journal Article published 2013 in *Ecological Monographs*

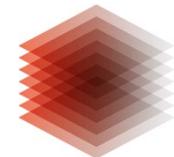
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2 Citations

Journal Article

<https://doi.org/10.1890/12-0114.1>





Aggregation nach Forschungsförderer (ROR)

Publication Year

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Other Identifiers

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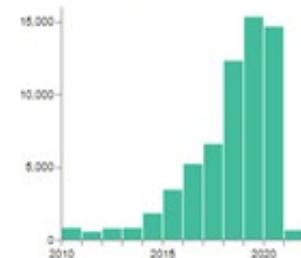
Aggregated Citations, Views and Downloads

528,503 Citations

73 Views

102,451 Works

Publication Year



Work Type



License



Field of Science

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| <input type="checkbox"/> Computer and information sciences | 4 |
| <input type="checkbox"/> Economics and business | 3 |
| <input type="checkbox"/> Agriculture, forestry and fisheries | 1 |
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| <input type="checkbox"/> Earth and related environmental sciences | 1 |
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Registration Agency

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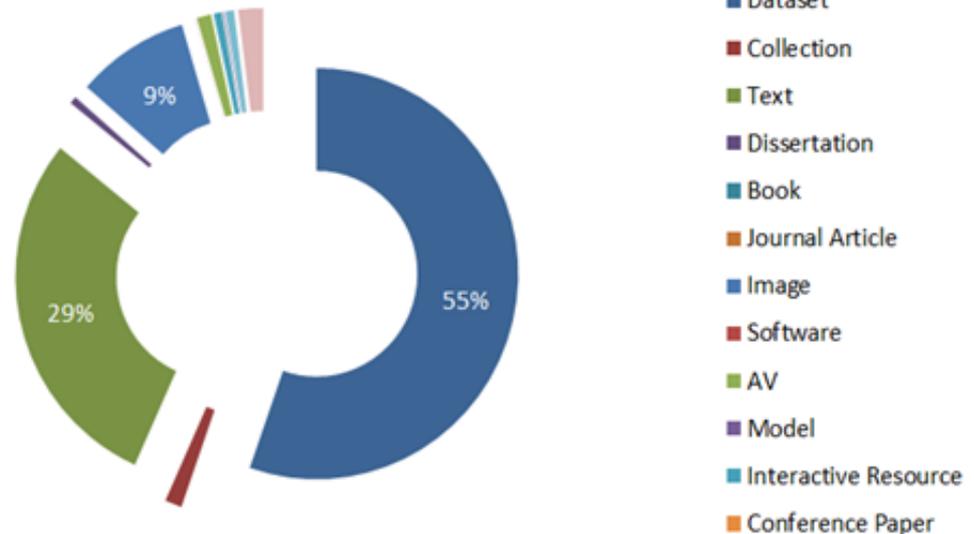
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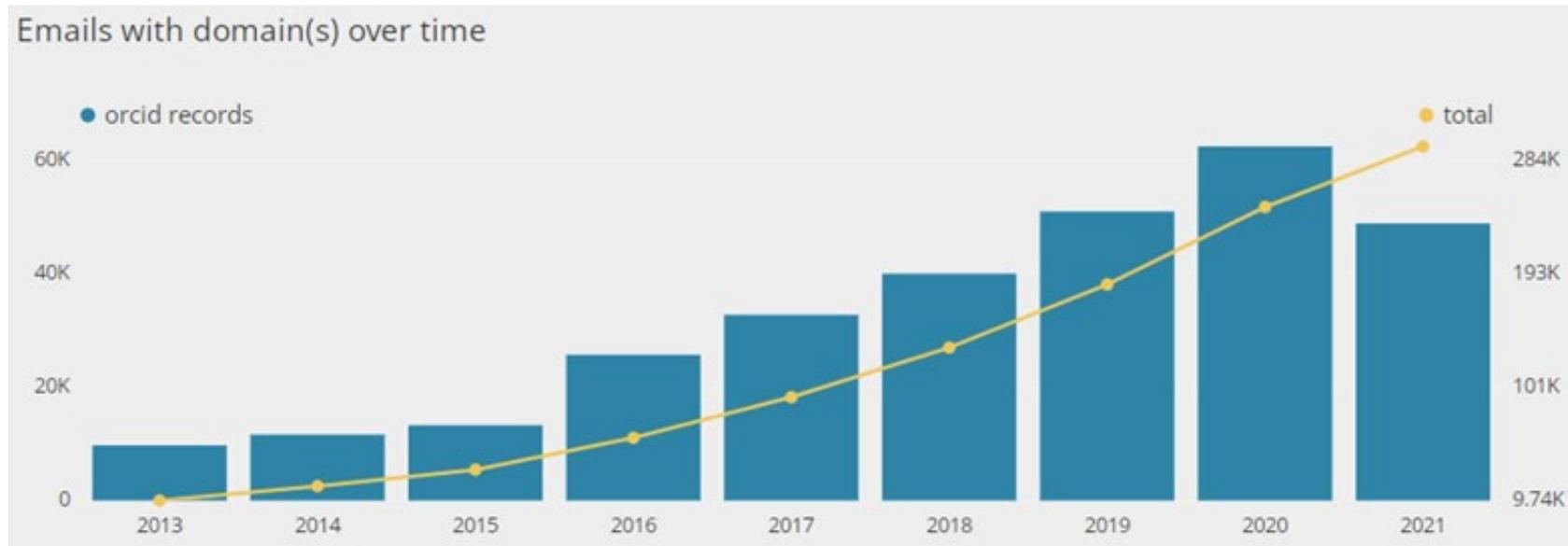
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|---|------------------|
| German Climate Computing Center | 5.597 |
| Deutsches Archäologisches Institut (DAI) | 339 |
| Universitätsbibliothek der Ludwig-Maximilians-Universität München | 45.311 |
| European X-Ray Free-Electron Laser | 36 |
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| Deutsches Zentrum für Luft- und Raumfahrt e. V. (DLR) | 63 |
| Forschungszentrum Jülich GmbH | 1.034 |
| Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences | 9.055 |
| Pangaea | 766.545 |
| RWTH | 17.126 |
| Hochschulbibliothekszentrum NRW (20 Mitglieder) | 55.520 |
| TIB DOI Konsortium (108 Mitglieder) | 1.448.750 |
| University of Göttingen (11 Mitglieder) | 118.397 |
| ZB MED (8 Mitglieder) | 633.735 |
| GESIS/ZBW (14 Mitglieder) | 35.181 |
| Insgesamt | 3.148.991 |



DataCite DOIs weltweit: 29.2 Mio.

Leibniz-Institute:
Mitglieder/Consortium Mitglieder: 16
Repositorien: 25

ORCID- Implementierung in Deutschland



75 Mitglieder im ORCID
Konsortium
Registrierte ORCID:
Deutschland = 249.913
Weltweit = 12.5 Mio

Connected iDs

347,065

Records updated

57,728

Members

75

Integrations

56

Integrations connected with iDs

48

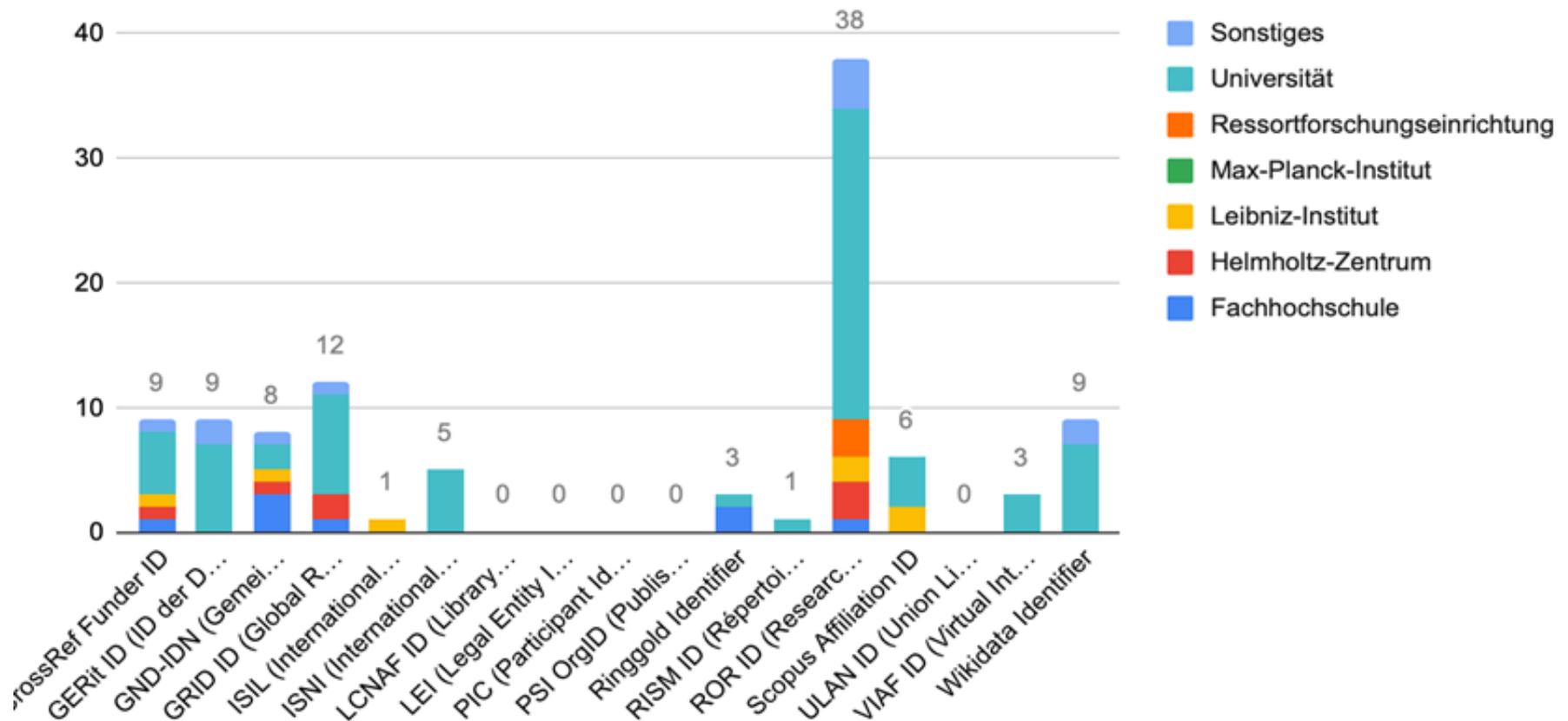
Integrations performing updates

27

ROR Umfrageergebnisse

Welche Organisations-IDs nutzen Sie bereits?

Antwortoption: nutzen wir nicht, aber planen wir zu nutzen

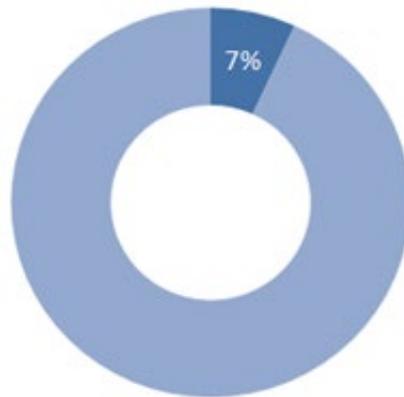


PID-Implementierung in den DOI-Metadaten deutscher DataCite-Mitglieder

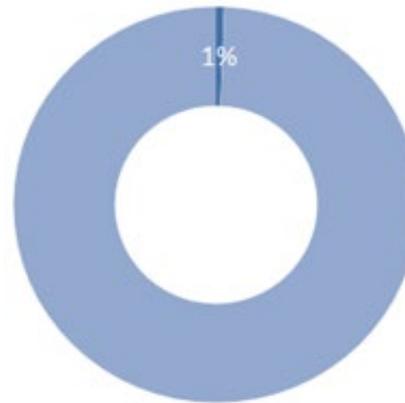


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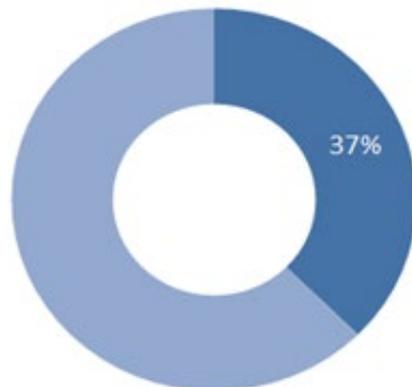
Affiliation Scheme



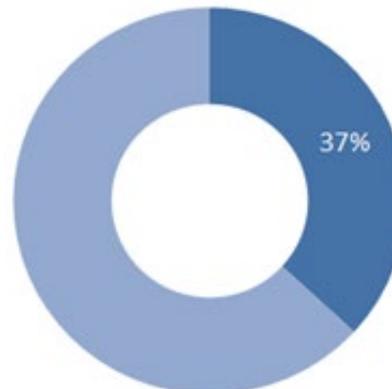
Empfehlung
ROR:
<https://ror.org>

Related Identifiers

Davon häufig
genutzt:
hasPart/IsPartOf
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Subject



Empfehlung OECD
Standard:
<https://www.oecd.org/science/inno/38235147.pdf>

PIDs für NFDI

- **Vernetzung von Forschungsoutput** mittels PIDs ist zentral für NFDI
- **Detaillierte, konsistente und disziplin-spezifische Metadaten** leisten einen wichtigen Beitrag zur Auffindbarkeit und Interoperabilität von Forschungsdaten entlang des Lebenszyklus.
- **Die Messbarkeit von Forschungsoutput über entsprechende KPIs**
- **Transparenz und nachhaltige Nutzung für die Forschung** durch Community-Standards.

PID Kompetenzzentrum

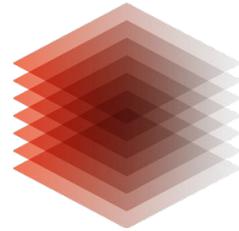


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Vielen Dank!

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