

# Die wissenschaftsorientierte Publikation von Forschungsdaten

Sünje Dallmeier-Tiessen

CERN

und

Humboldt Universität zu Berlin, IBI

# Agenda

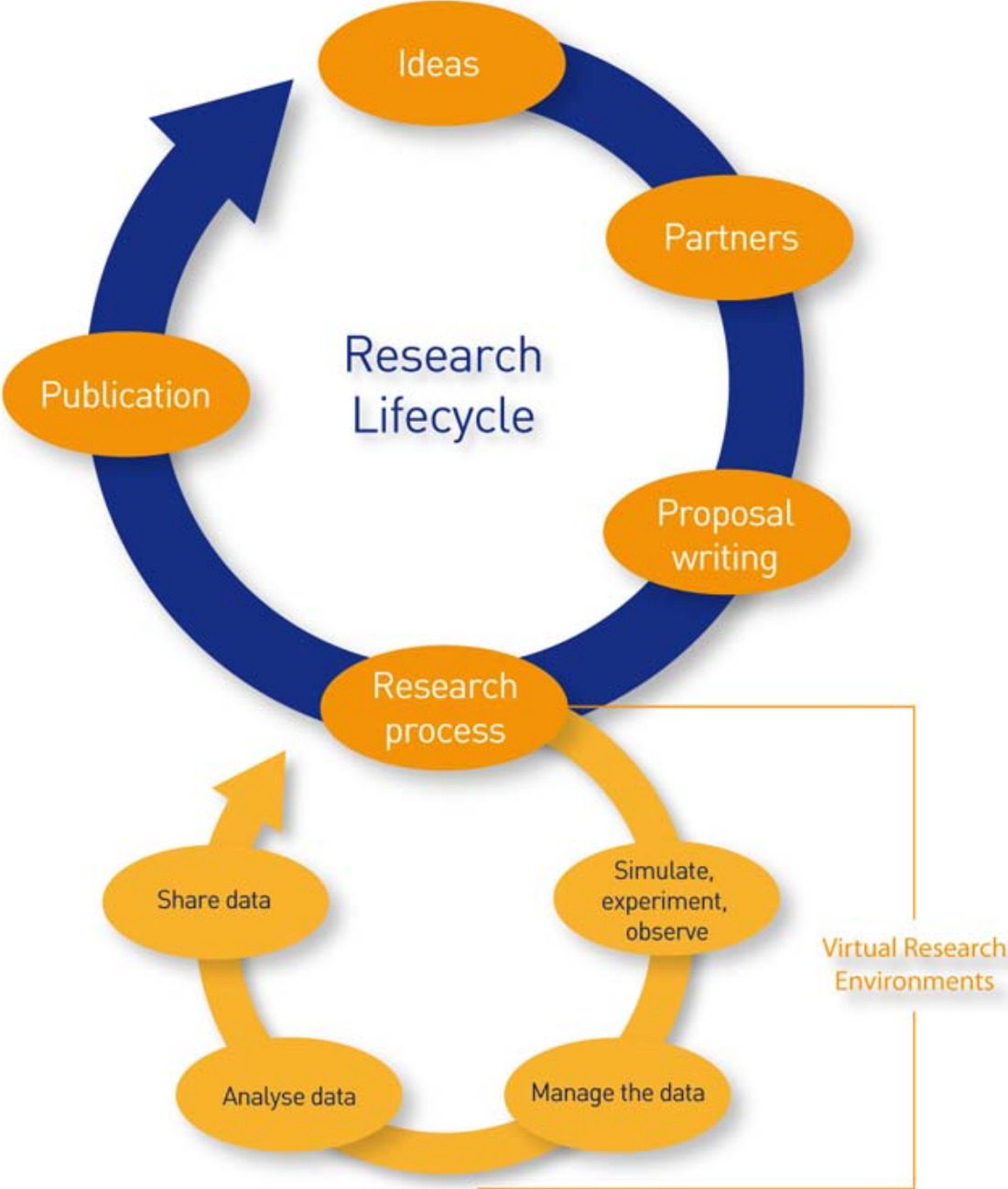
- Forschungsdaten: Wer-wie-was, wieso, weshalb, warum...?
- Der Forschungskreislauf und Forschungsdaten
- Rahmenbedingung der Bereitstellung von Forschungsdaten
  - Nachnutzung, Nachvollziehbarkeit
  - Zeit und Raum
  - 3 Modelle
- Umsetzungsbeispiele:
  - Biologie
  - Geowissenschaften
  - Geistes- und Sozialwissenschaften
- Bibliotheken: neue Aufgaben, neue Perspektiven
- Zusammenfassung

# Wer Wie Was Wieso Weshalb Warum...?



- Komplex
- Einzigartig
- Teuer
  
- Nachvollziehbarkeit
- Nachnutzbarkeit
  
- Data Sharing

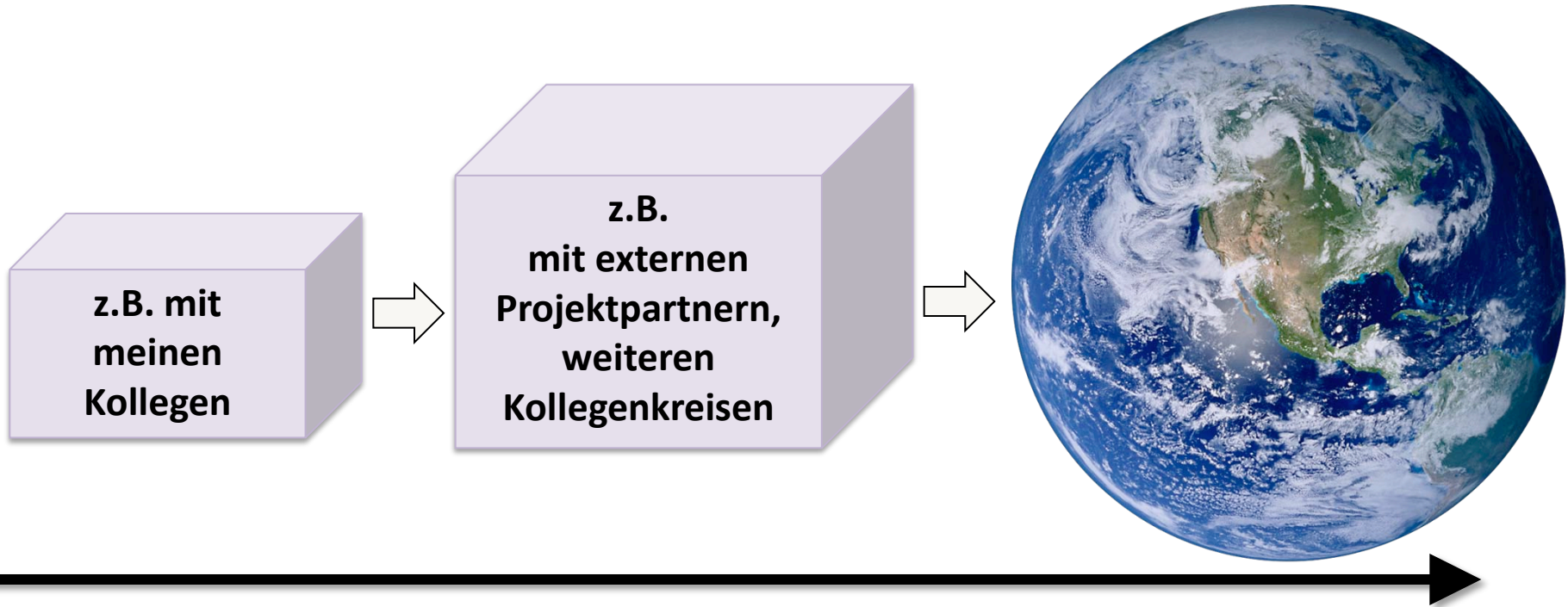
# Forschungsdaten- management: wissenschaftsnah



# **RAHMENBEDINGUNGEN**

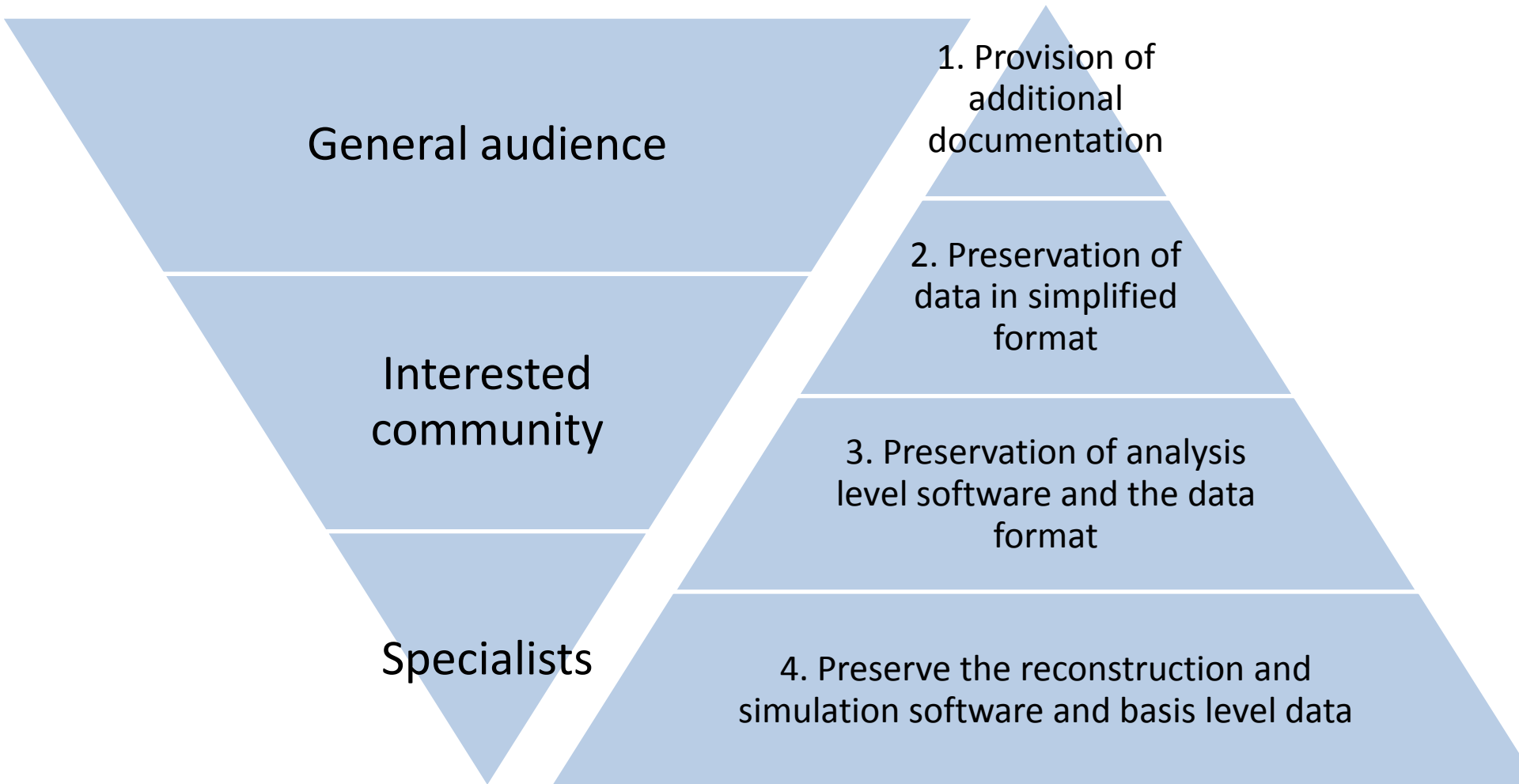
# Wo?

## [Raum der Datenbereitstellung]



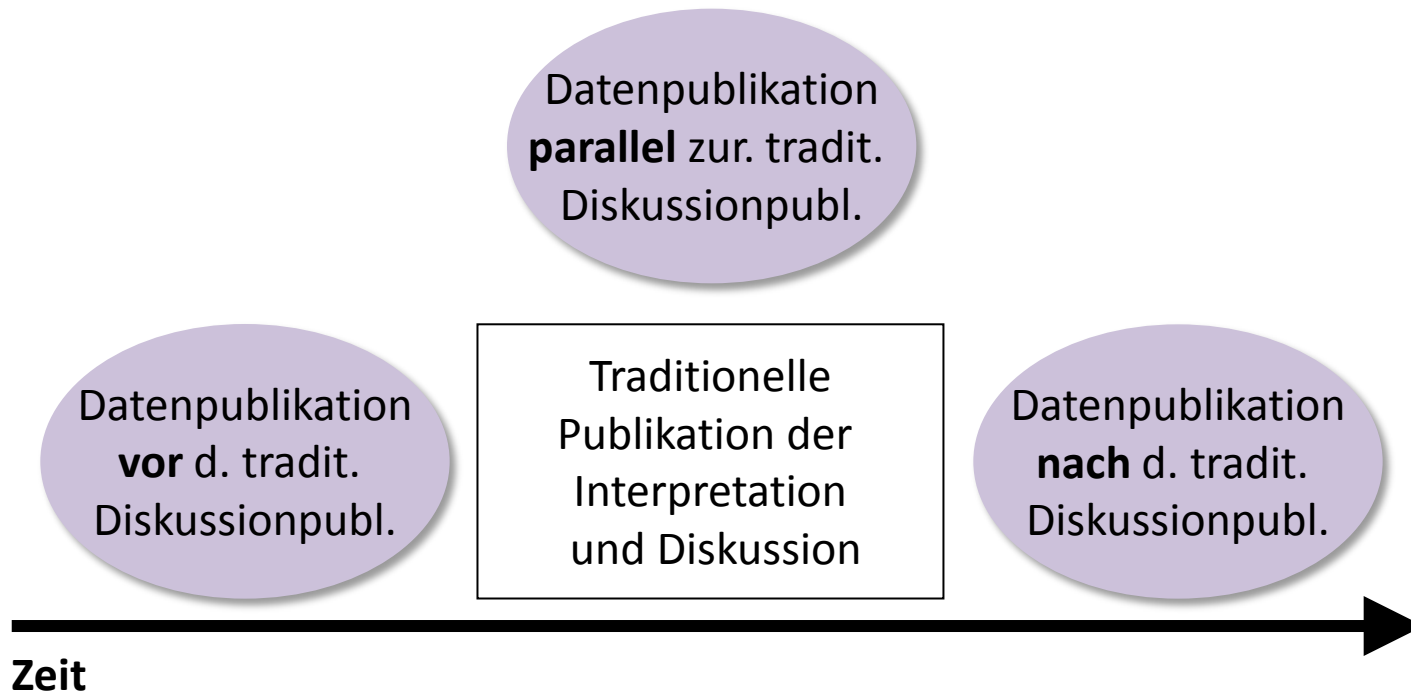
Raumgröße

# Wer und was?

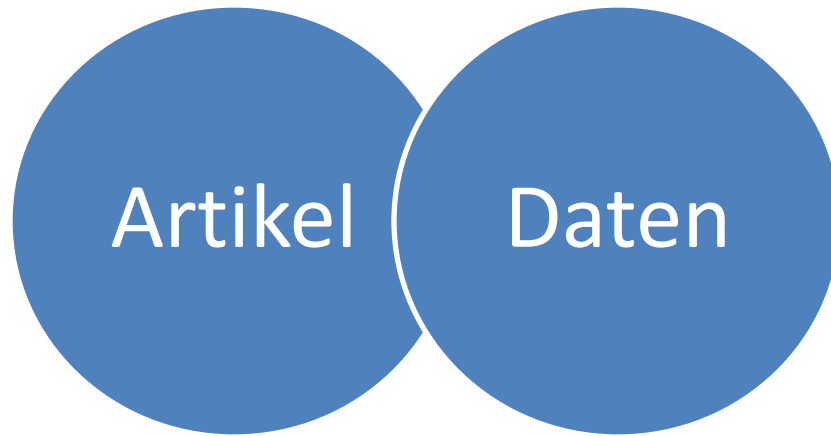


# Wann? [Zeitpunkt der Bereitstellung]

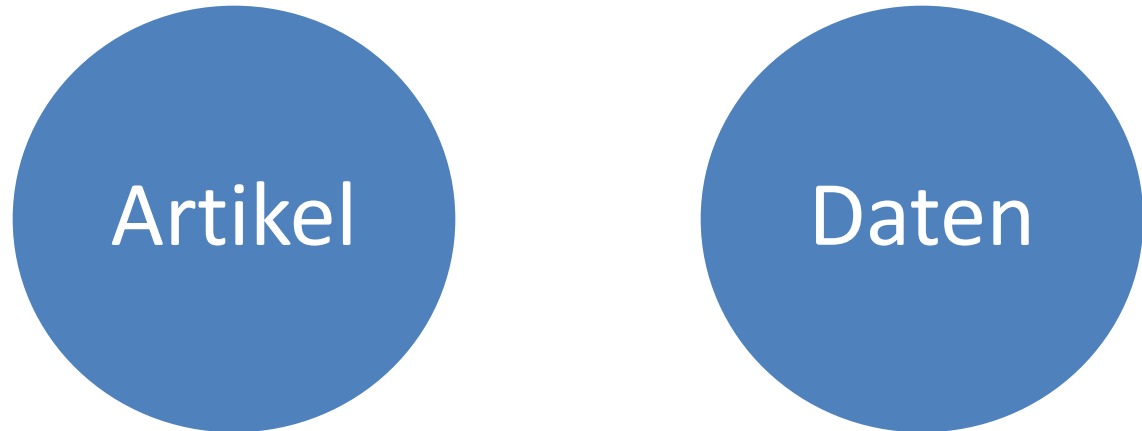
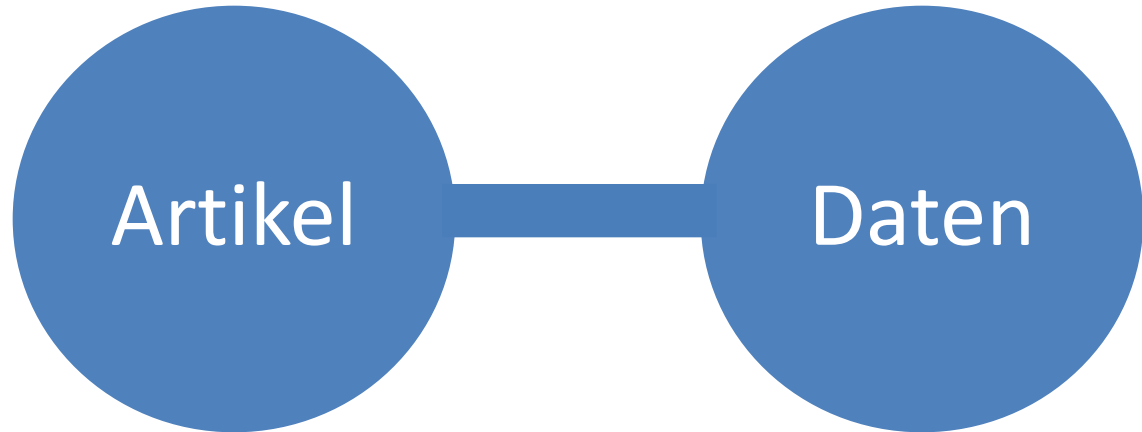
- Direkt nach Datenproduktion/vor der Interpretation (Pre-)
- Mit der Analyse/Interpretation (with publication)
- Nach der Publikation der Interpretation (Post-)





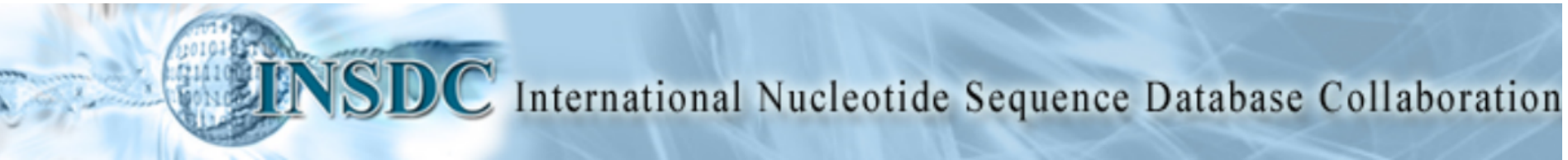


Wie?



# **UMSETZUNGSBEISPIELE**

# Molekulare Biologie



ABOUT INSDC

POLICY

ADVISORS

DOCUMENTS

## International Nucleotide Sequence Database Collaboration

- The International Nucleotide Sequence Databases (INSD) have been developed and maintained collaboratively between [DDBJ](#), [ENA](#), and [GenBank](#) for over 18 years.
- The INSDC advisory board, the [International Advisory Committee](#), is made up of members of each of the databases' advisory bodies. At their most recent meeting, members of this committee unanimously endorsed and reaffirmed the existing data-sharing policy of the three databases that make up the INSDC, which is stated below.
- Individuals submitting data to the international sequence databases should be aware of [INSDC policy](#).

### How to submit data

- For full details of how to submit data to the databases, please select a collaborating partner.
- [DDBJ](#), [ENA](#), [GenBank](#)
- The INSDC Feature Table Definition Document is available [here](#).



## INSDC Documents

- [Feature Table Document](#)
- [INSDSeq XML v1.4 dtd](#)
- [INSDC Advisor's open letter to journal editors](#)
- [TPA Submission Guidelines](#)
- [INSDSeq XML Status](#)
- [/inference qualifier vocabulary recommendation document](#)



# OECD – iLibrary

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## » OECD Factbook Statistics

ISSN : 2079-4754 (online)

DOI :

[10.1787/factbook-data-en](https://doi.org/10.1787/factbook-data-en)

Also available in: [French](#)

Key Tables on | ▾

Related titles | ▾

Keywords: factbook

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## OECD Factbook Statistics 2010 😊

 DATA

DOI : [10.1787/fb10-data-en](https://doi.org/10.1787/fb10-data-en)

The *OECD Factbook 2010* database includes more than 100 indicators on labour force, information and communications, public finances, innovation and quality of life. This year, the *OECD Factbook* features a focus on the crisis area totals, and in some cases, for selected non-member economies.

Also available in: [French](#)

### List of datasets

Mark

Country Indicators

Financial crisis

 [Add to Marked List](#)

OECD iLibrary

## » Cite this content as:

OECD (2010), "OECD Factbook Statistics 2010: Country Indicators", *OECD Factbook Statistics* (database).

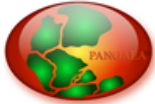
doi: [10.1787/data-00378-en](https://doi.org/10.1787/data-00378-en)

(Accessed on 31 May 2011)

### Download to:

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# Publishing Network for Geoscientific and Environmental Data



**PANGAEA®**  
Publishing Network for Geoscientific & Environmental Data

You are not logged in

Always quote citation when u

## Data Description

Citation:

Spieß, V; Grobe, H (1996): Paleomagnetic measurements on sediment core PS1387-3, doi:10.1594/PANGAEA.51316,  
*In Supplement to: Grobe, Hannes; Mackensen, Andreas; Hubberten, Hans-Wolfgang; Spieß, Volkhard; Fütterer, Dieter K (1990): Stable  
record and late quaternary sedimentation rates at the Antarctic continental margin, In: Bleil, U & Thiede, J (eds.), Geological History of the Polar  
Oceans - Arctic versus Antarctic, NATO ASI Series, Kluwer Academic Publishers, Dordrecht, Boston, London, 539-571, hdl:10013/epic.1166*

Project(s):

**Paleoenvironmental Reconstructions from Marine Sediments @ AWI (AWI\_Paleo)**

Coverage:

West: -5.8667 \* East: -5.8667 \* South: -68.7333 \* North: -68.7333  
Date/Time Start: 1985-12-28T15:48:00 \* Date/Time End: 1985-12-28T15:48:00  
Minimum DEPTH, sediment: 0.1 m \* Maximum DEPTH, sediment: 10.0 m

Event(s):

**PS1387-3** (PS08/365) \* Latitude: -68.7333 \* Longitude: -5.8667 \* Elevation: -2416.0 m \* Date/Time: 1985-12-28T15:48:00 \* Recovery: 10.0 m \* Penetration: 11.2 m \*  
Location: Atka Bay \* Campaign: ANT-IV/3 (PS08) \* Basis: Polarstern \* Device: Gravity corer (Kiel type) \* Comment: upper 30 cm lost in weight, parallel station PS1

Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method	Comment
1	DEPTH, sediment	Depth	m			Geocode
2	Susceptibility	Susceptibility	sensor units	Spieß, Volkhard	Susceptibility unit AWI, MS2C, 145 mm	

Size: 100 data points

## Data

Download dataset as tab-delimited text (use the following character encoding: )

1	2
Depth [m]	Susceptibility [sensor units]
0.06000	0.83
0.15000	1.04
0.25000	1.00
0.35000	1.00
0.45000	1.28

# Dryad



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## Sizes of the Largest Fossils in the Geological Record

When using this data, please cite the original article:

Payne JL, Boyer AG, Brown JH, Finnegan S, Kowalewski M, Krause RA Jr, Lyons SK, McClain CR, McShea DW, Novack-Gottshall PM, Smith FA, Stempien JA, Wang SC (2008) Two-phase increase in the maximum size of life over 3.5 billion years reflects biological innovation and environmental opportunity. *Proc Natl Acad Sci USA* 106(1): 24–27. doi:10.1073/pnas.0806314106

Additionally, please cite the Dryad data package:

Payne JL, Boyer AG, Brown JH, Finnegan S, Kowaleski M, Krause Jr. RA, Lyons SK, McClain CR, McShea DW, Novack-Gottshall PM, Smith FA, Stempien JA, Wang SC (2008) Data from: Two-phase increase in the maximum size of life over 3.5 billion years reflects biological innovation and environmental opportunity. Dryad Digital Repository. doi:10.5061/dryad.223

Cite | Share

### Dryad File Identifier

doi:10.5061/dryad.223/1

137 views 243 downloads

### Description

This table contains taxonomic, size, and source information describing the largest known fossil plant animals, protists, and prokaryotes in the fossil record. The prokaryote record covers only the Archaea and early Paleoproterozoic. The protist, animal, and vascular plant records cover all relevant geologic periods from the Paleoproterozoic through the Neogene. See also <http://bodysize.nescent.org>.

### Contained in Data Package

Data from: Two-phase increase in the maximum size of life over 3.5 billion years reflects biological innovation and environmental opportunity.

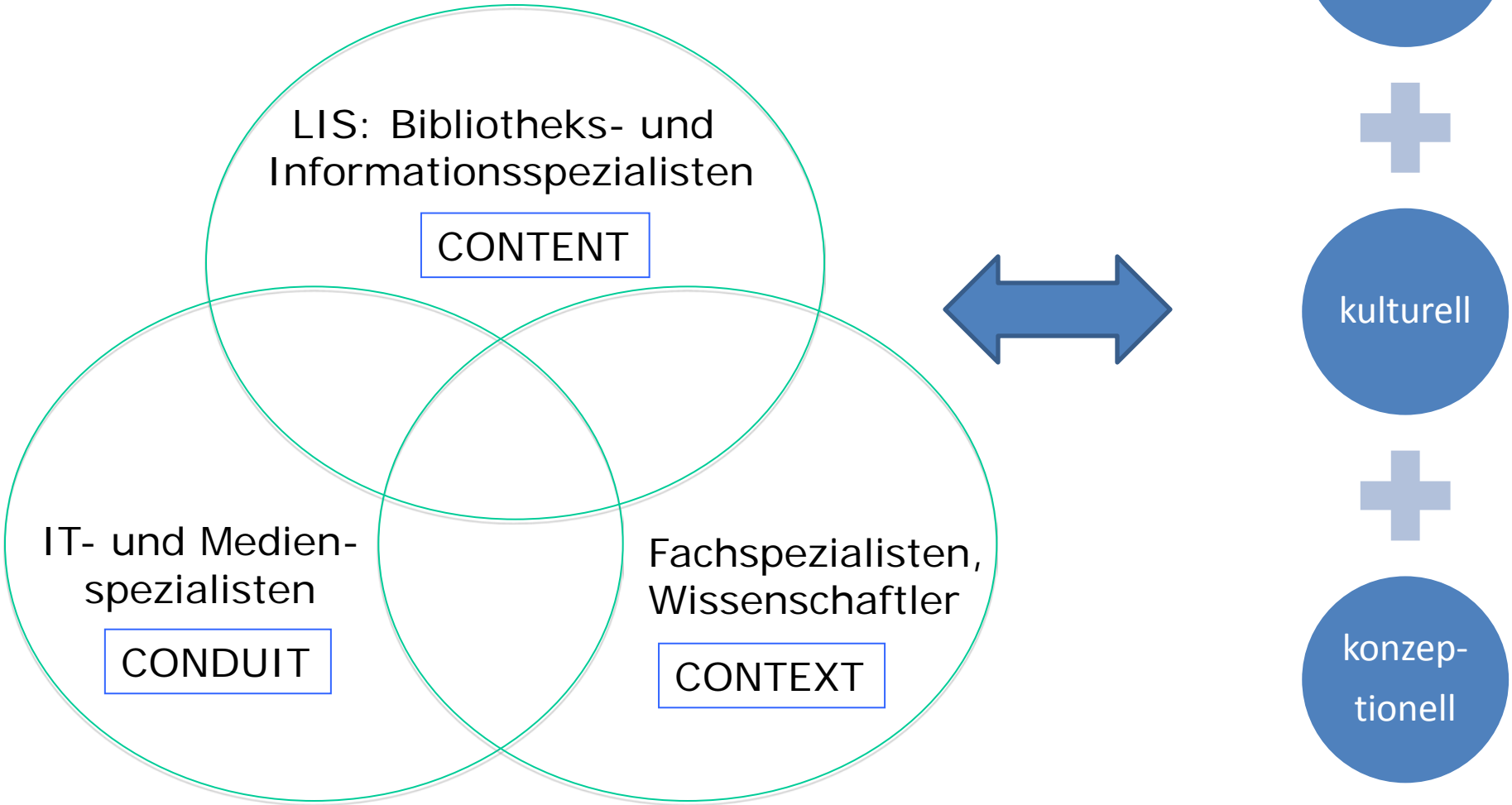
### Temporal Coverage

Cambrian  
Precambrian

# **ROLLE DER BIBLIOTHEKEN**



# Akteure und Herausforderungen



verändert nach Pampel et al., 2009

# Neue Objekte, neue Rollen, neue Aufgaben

- Herausforderung: Neue Workflows, Beratung, Bereitstellung und Contentakquise
- Beispiel: Wissenschaft und deren Unterstützung
  - Bereitstellung der Daten
  - Dokumentation der Daten
  - Datenzitierung und Nachnutzung

# Bibliotheken – DataCite



Helping you to find,  
access, and reuse data

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## One million DOI names minted

**ETH**

Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

The 1,000,000th DOI name was minted by ETH Zurich on the 16th December 2010:

[doi:10.5169/SEALS-130540](https://doi.org/10.5169/SEALS-130540)

[Read more](#)

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## DataCite welcomes new members

**ZBW**

**SND**

**KISTI**

**ICPSR**

On 2 December 2010 the British Library hosted the annual DataCite General Assembly, which brought together Member representatives from around the world to review progress and strategy. Following the Assembly, we are

# Zusammenfassung

- Forschungsdaten ein komplexes digitales Objekt im gesamten Wissenschaftsprozess
- Generelle Rahmenbedingungen und flexible angepasste Modelle
- Praxis: interessante Umsetzungen, “Data Sharing” unterschiedlich etabliert
- Bibliotheken: neue Aufgaben für neue Objekte – Kooperation mit Wissenschaft

# Referenzen

DataCite, [www.datacite.org](http://www.datacite.org)

DPHEP, 2009: <http://arxiv.org/ftp/arxiv/papers/0912/0912.0255.pdf>

Dryad, <http://datadryad.org/>

INSDC, <http://www.insdc.org/>

JISC, Research Lifecycle:

<http://www.jisc.ac.uk/whatwedo/campaigns/res3/jischelp.aspx> [accessed May 27th, 2011]

Opportunities Data Exchange (ODE), <http://www.ode-project.eu/>

OECD, Factbook:

[http://www.oecd-ilibrary.org/economics/data/oecd-factbook-statistics-2010\\_fb10-data-en](http://www.oecd-ilibrary.org/economics/data/oecd-factbook-statistics-2010_fb10-data-en) [accessed May 27<sup>th</sup>, 2011]

Pampel, H. et al., 2009 : Data Librarianship – Rollen, Aufgaben, Kompetenzen, in: Tagungsband des 98. Bibliothekartags

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