

Einsatz kommerzieller und Open-Source Software für wissenschaftliche Workflows zur Datenpublikation in



Marc Adolf & Wilhelm Hasselbring



Christian-Albrechts-Universität zu Kiel

Arbeitsgruppe Software Engineering
Universitätsbibliothek der CAU
Rechenzentrum der CAU



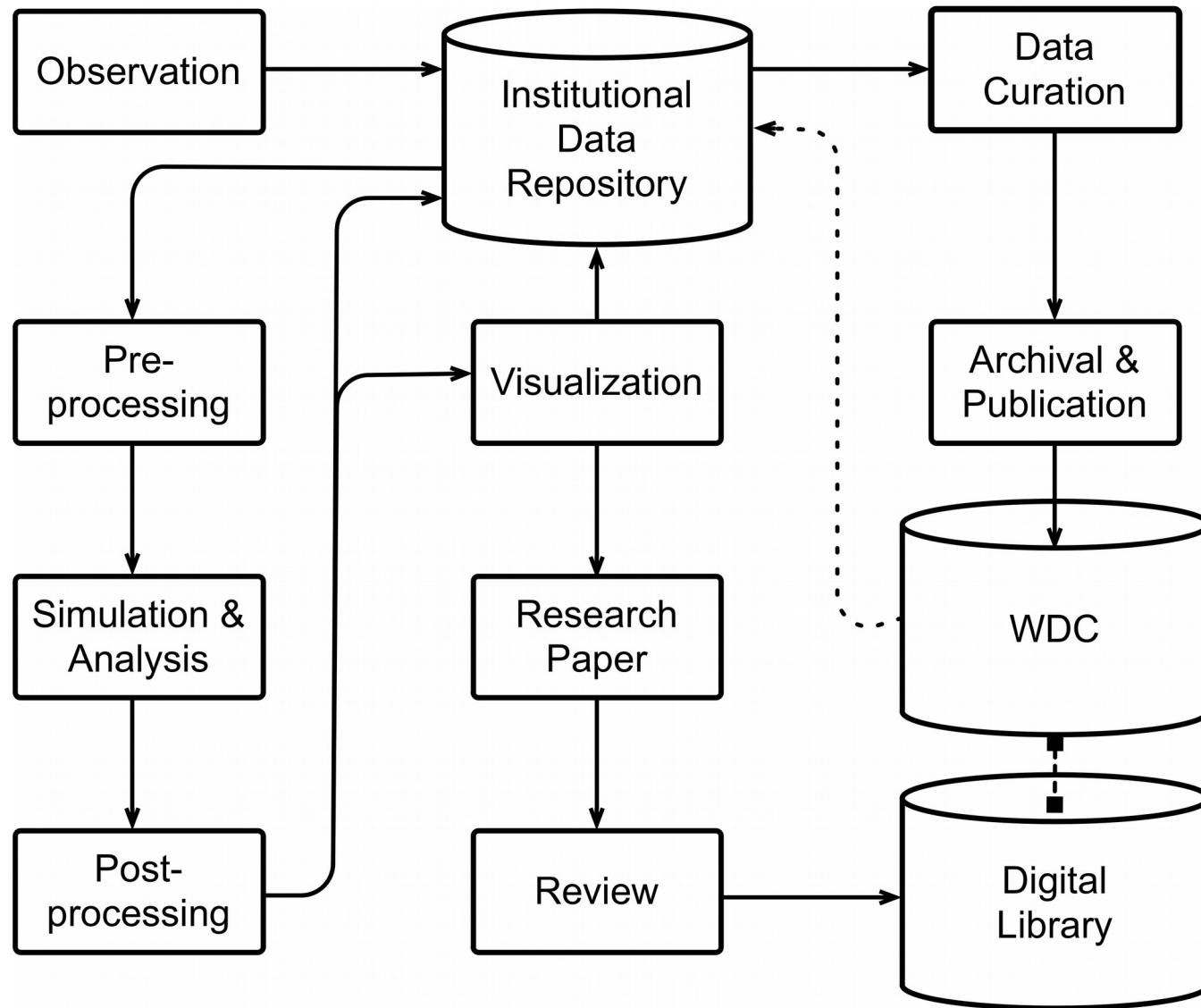
Leibniz-Informationszentrum
Wirtschaft
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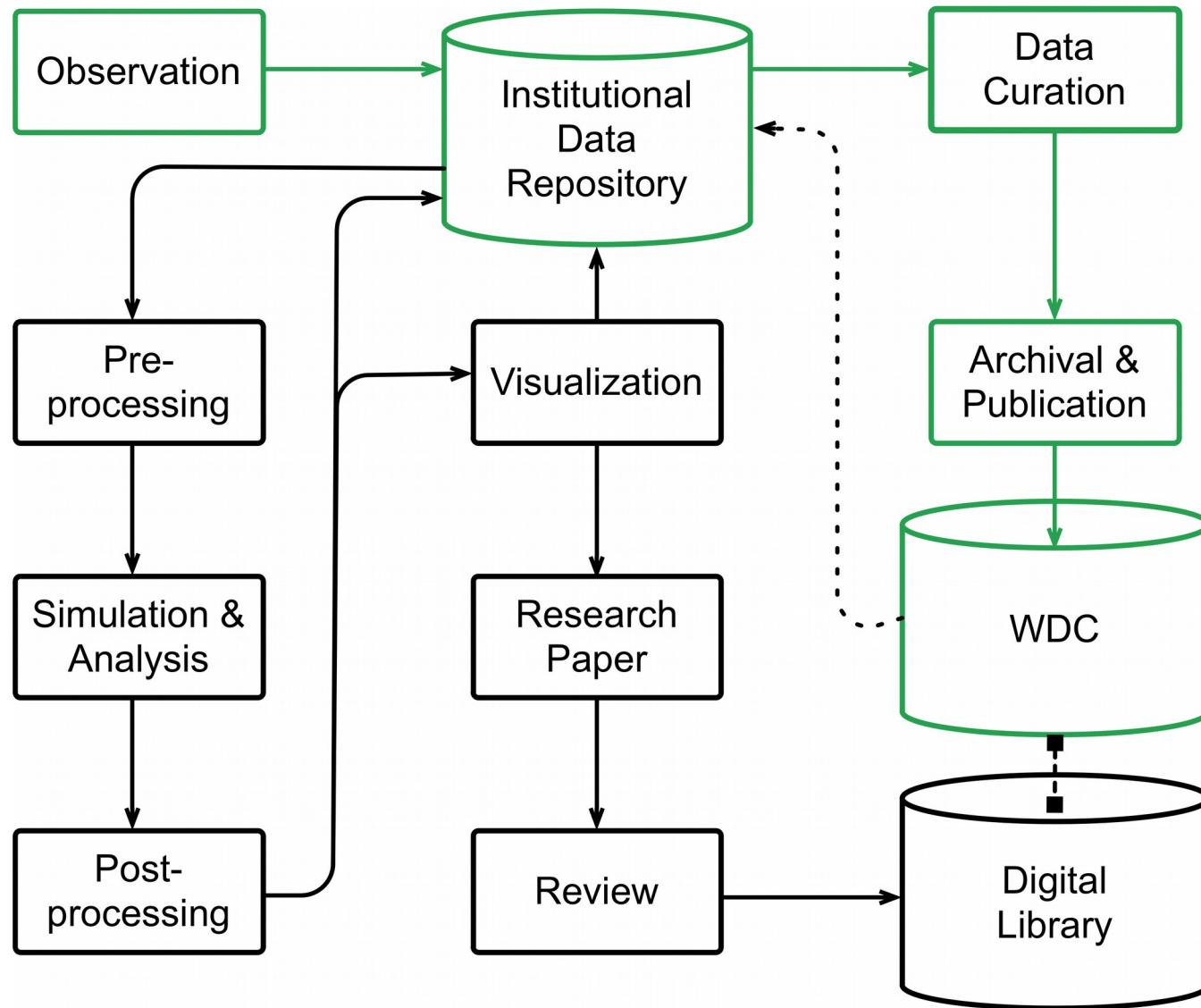
Deutsche Zentralbibliothek für
Wirtschaftswissenschaften



Kieler Datenmanagementteam
Bibliothek des GEOMAR
Daten- und Rechenzentrum des GEOMAR







Publikation mit veröffentlichten Daten



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GEOMAR

Helmholtz Centre for Ocean Research Kiel

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A high-resolution Lateglacial and Holocene paleoceanographic record from the Greenland Sea

Telesinski, Maciej, Spielhagen
A high-resolution Lateglacial and Holocene paleoceanographic record from the Greenland Sea Boreal
[10.1111/bor.12045](#).

PANGAEA®
Data Publisher for Earth & Environmental Science

Data Description

Citation: Telesinski, MM et al. (2014): A high-resolution Lateglacial and Holocene paleoceanographic record from the Greenland Sea. doi:10.1594/PANGAEA.832384
Supplement to: Telesinski, Maciej Mateusz; Spielhagen, Robert F; Lind, Ewa M (2014): A high-resolution Lateglacial and Holocene paleoceanographic record from the Greenland Sea. doi:10.1111/bor.12045

Abstract: We present an unprecedented multicentennial sediment record from the foot of Vesterisbanken Seamount, central Greenland Sea, covering the past 22.3 thousand years (ka). Based on planktic foraminiferal total abundances, species assemblages, and stable oxygen and carbon isotopes, the palaeoenvironments in this region of modern deepwater renewal were reconstructed. Results show that during the Last Glacial Maximum the area was affected by harsh polar conditions with only episodic improvements during warm summer seasons. Since 18 ka extreme freshwater discharges from nearby sources

Coverage: Latitude: 73.249700 * Longitude: -8.998300

Date/Time Start: 1990-06-22T00:00:00 * **Date/Time End:** 1990-06-22T00:00:00

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Size: 4 datasets

Download Data

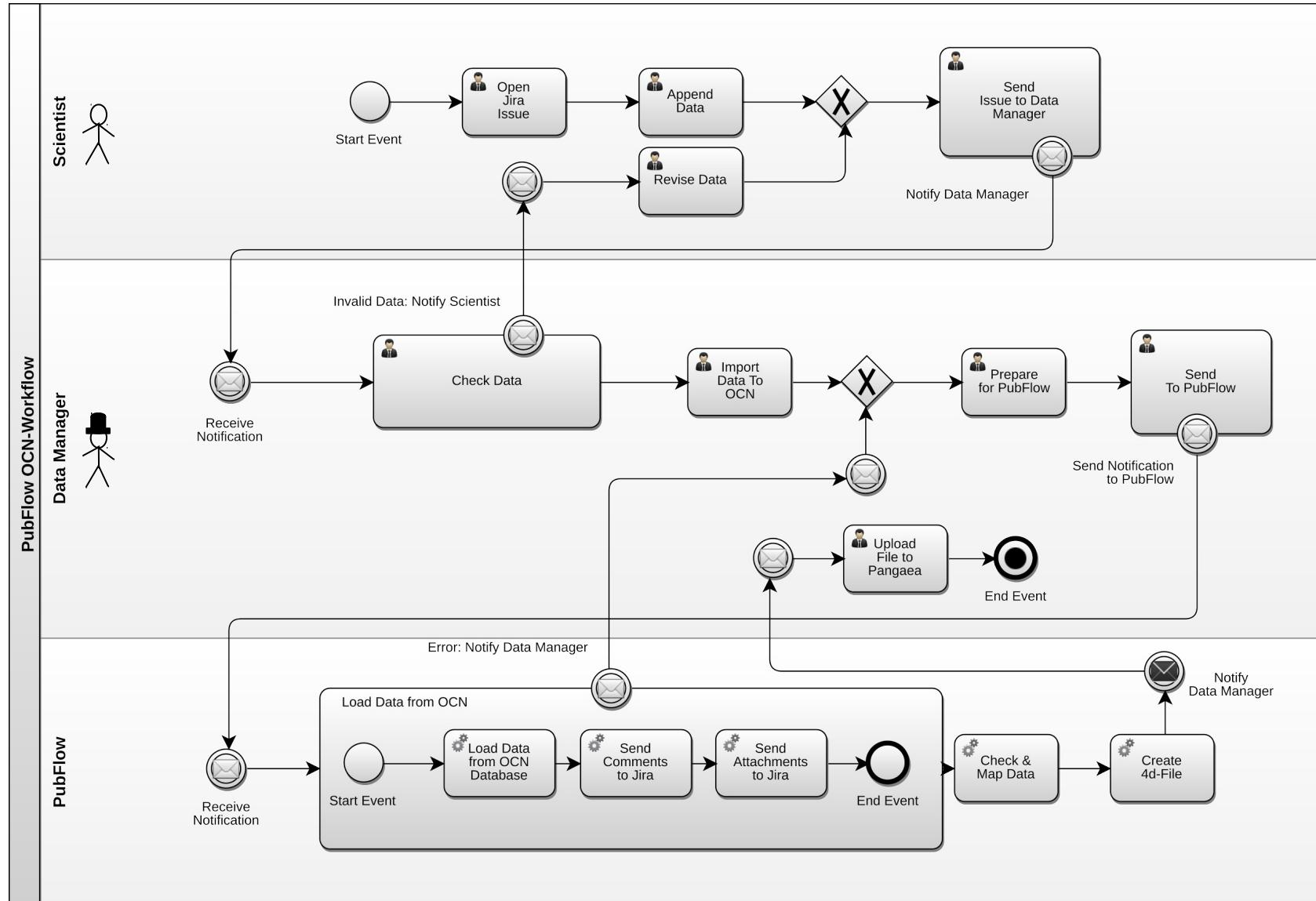
Text
bor12045.pdf - Accepted Version
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Supplementary data:

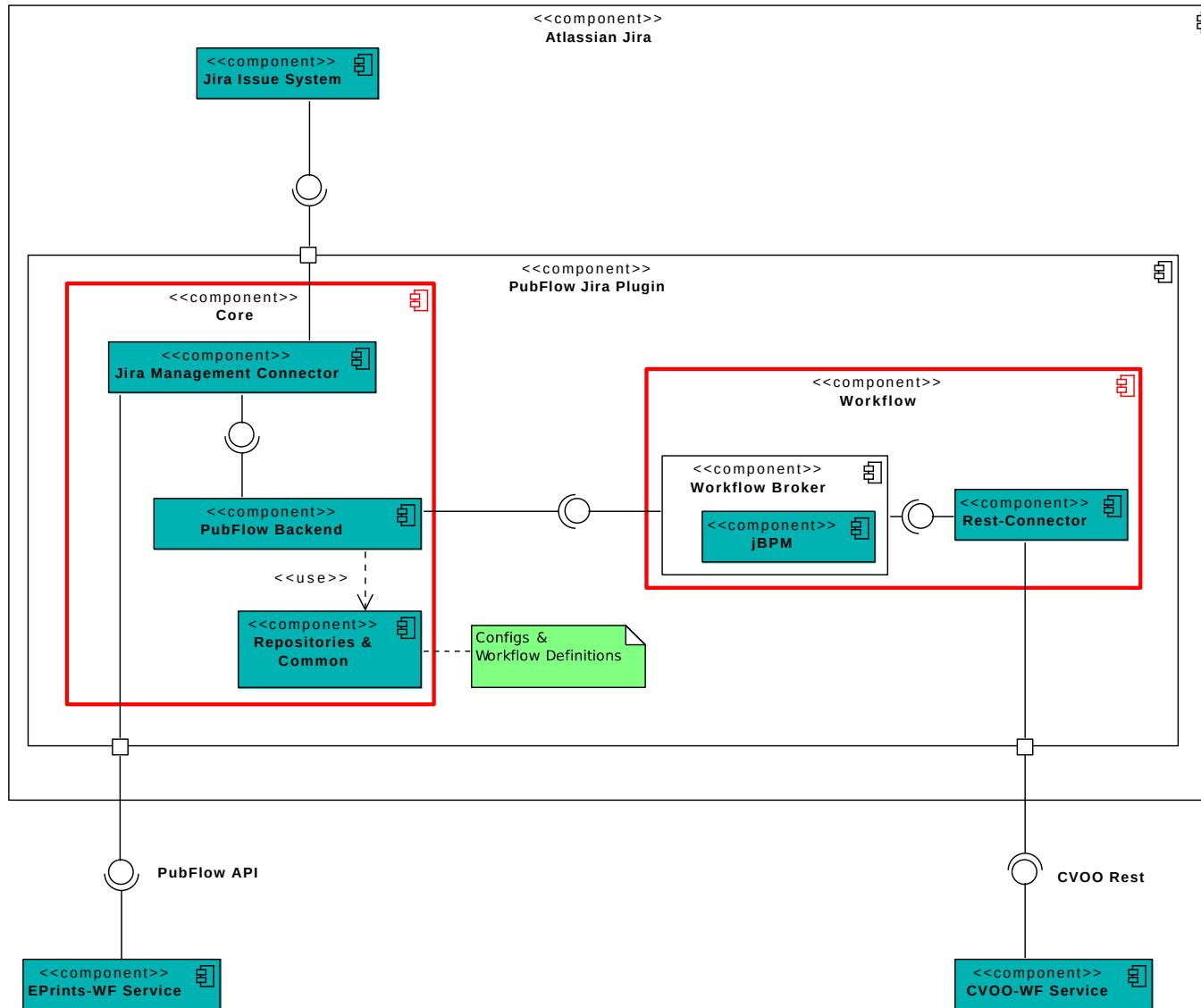
Abstract

We present an unprecedented multicentennial sediment record from the foot of Vesterisbanken Seamount, central Greenland Sea, covering the past 22.3 thousand years (ka). Based on planktic foraminiferal total abundances, species assemblages, and stable oxygen and carbon isotopes, the palaeoenvironments in this region of modern deepwater renewal were reconstructed. Results show that during the Last Glacial Maximum the area was affected by harsh polar conditions with only episodic improvements during warm summer seasons. Since 18 ka extreme freshwater discharges from nearby sources

Beispielworkflow zur Datenpublikation



Architektur: PubFlow als Jira-Plugin



PubFlow-Ticket in Jira

PubFlow Dashboards Projects Issues [Create issue](#) [Quick search](#)

PubFlow / PUB-10 Transfer data from summer expedition of '15 from day 3 to Pangea

[Edit](#) [Comment](#) [Assign](#) [More](#) [Send to Data Management](#)

Details

Type:	OCN	Status:	OPEN (View Workflow)
Priority:	Major	Resolution:	Unresolved
Labels:	None		

Description
None

Attachments

[rawdatatxt](#) 0.0 kB a few seconds ago

Activity

All Comments Work Log History Activity

▼ PubFlow added a comment - a few seconds ago

Dear SampleDataManager (SampleDataManager),
please append your raw data as an file attachment to this issue and provide the following information about your data as a comment:
Title, Authors, Cruise

After that you can start the processing by pressing the "Send to Data Management" button.
For demonstration purposes an attachment has been added automatically.
Thank you!

[Comment](#)

People

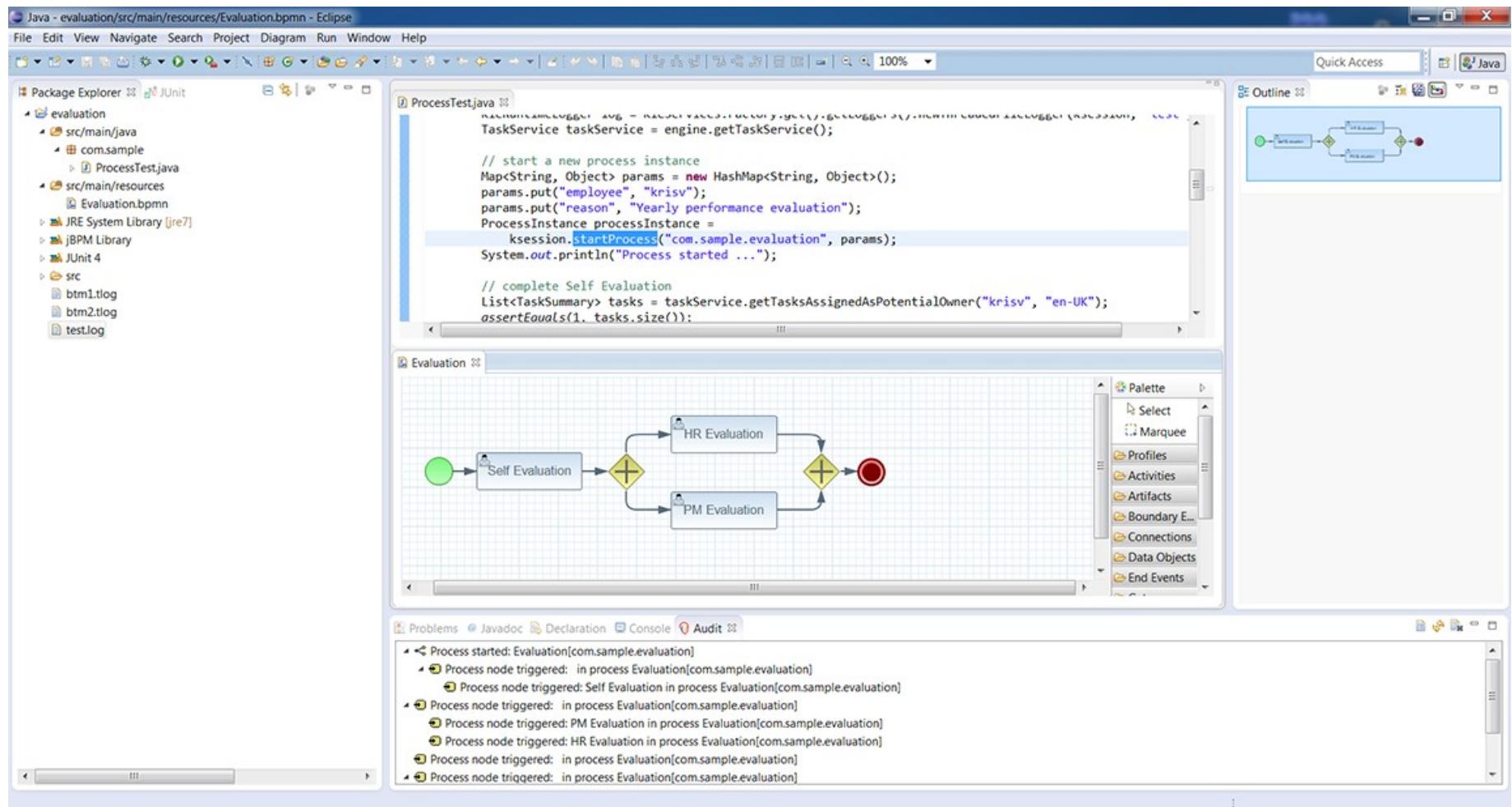
Assignee: PubFlow
Assign to me

Reporter: SampleDataManager
Votes: 0
Watchers: 1 Stop watching this issue

Dates

Created: a few seconds ago
Updated: a few seconds ago

jBPM Beispiel



Vergleich: Jira vs jBPM

Kosten



Atlassian Jira

- Kauf einmalig pro Version
- Kostenlose Version für Open-Source Projekte
- Monatliche Kosten mit inklusivem Hosting
- Kostenmodell abhängig von der Nutzerzahl
- Betriebskosten (Personal + Hardware)
- Support



jBPM

- Anschaffung kostenlos
- Apache Software License 2.0
- Betriebskosten (Personal + Hardware)
- Support

Vergleich: Jira vs jBPM

Support



Atlassian Jira

- Forum
- Mail-Anfragen (kostenlos)
- Reaktiver Support (35k\$/y)
- Proaktiver Support (60k\$/y)



jBPM

- Forum
- (IRC-)Chat
- (kostenpflichtiger Support über Red Hat)

Vergleich: Jira vs jBPM

Dokumentation



Atlassian Jira

- Getting Started Guide
- Kaum Dokumentation
- Quellcodes vollständig einsehbar
(Nach Registrierung + Lizenz)



jBPM

- Umfangreicher User Guide
- Dokumentation durch Java-Doc
- Quellcode vollständig als O-S einsehbar

Zusammenfassung

- (Semi-) Automatisierung von Publikationsworkflows 
- Einsatz von kommerzieller und Open-Source Software
- Verschiedene Bezahl-, Lizenz- und Support-Varianten
- Dokumentation schwankt stark zwischen Softwareprojekten
- Unangekündigte Major-/API-breaking changes
- Änderungen kaum dokumentiert
- Updatebedarf auch für Abhängigkeiten (Java)
- Bisher keine neuere von jBPM Version nötig.



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pubflow.de



Weitere Software, Projekte und Services



Christian-Albrechts-Universität zu Kiel



Galaxy
(www.usegalaxy.org)

nestor
(www.langzeitarchivierung.de)

gfbio
(www.gfbio.org)

BPipe
(www.docs.bpipe.org)

Bioconductor
OPEN SOURCE SOFTWARE FOR BIOINFORMATICS
(www.bioconductor.org)

Apache Taverna
(www.taverna.incubator.apache.org)

CWA
CWA Flow
(www.cwa.de)



Pangaea
(www.pangaea.de)

PubFlow
 (www.pubflow.de)



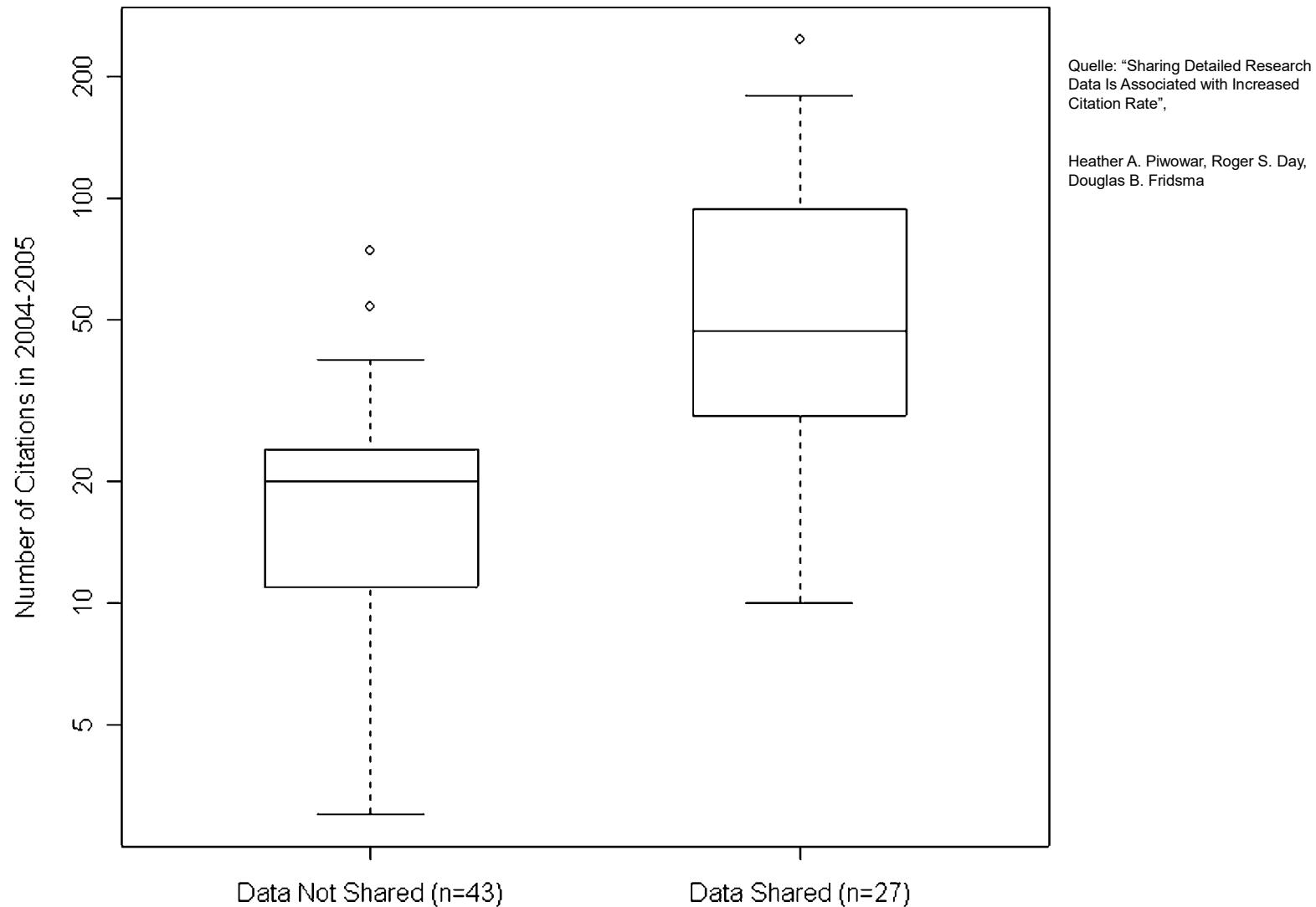
sprintly
(www.sprint.ly/)

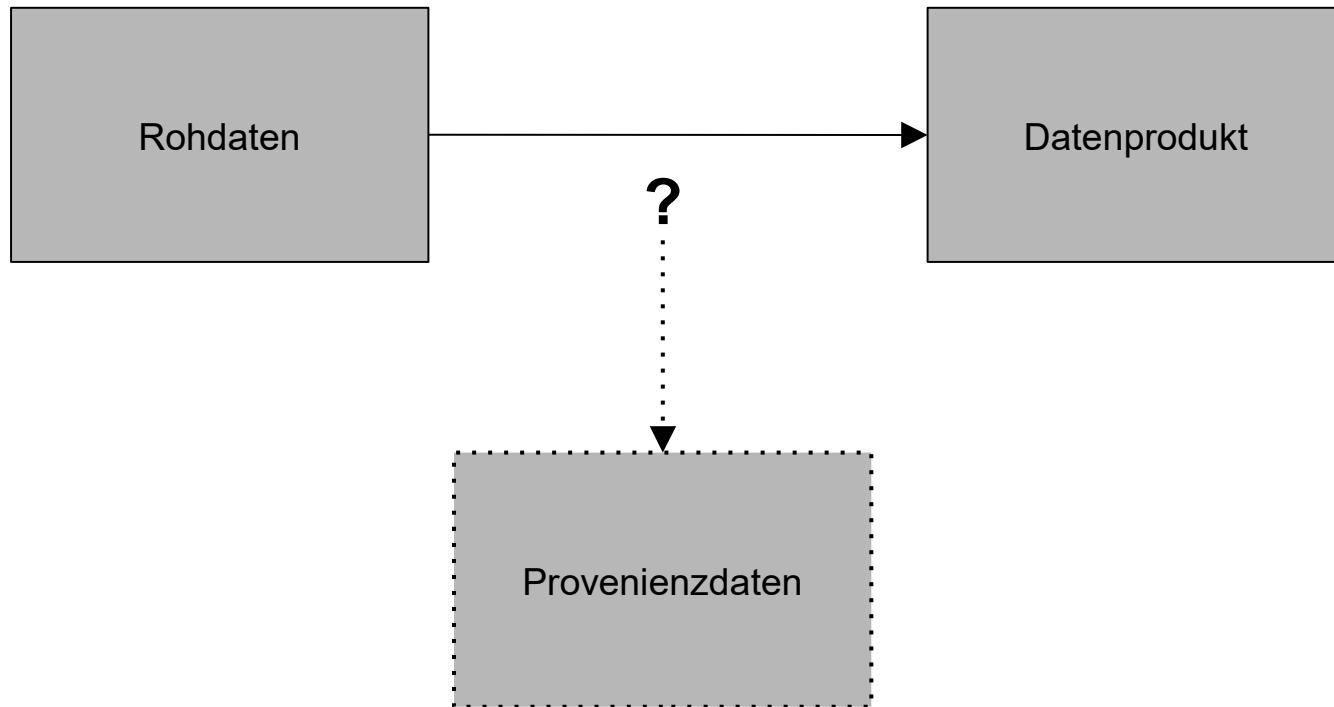
stackfield®
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(www.uni-trier.de)





Provenienzdaten



Which wine to choose?

Metadata
Name, Awards, ...

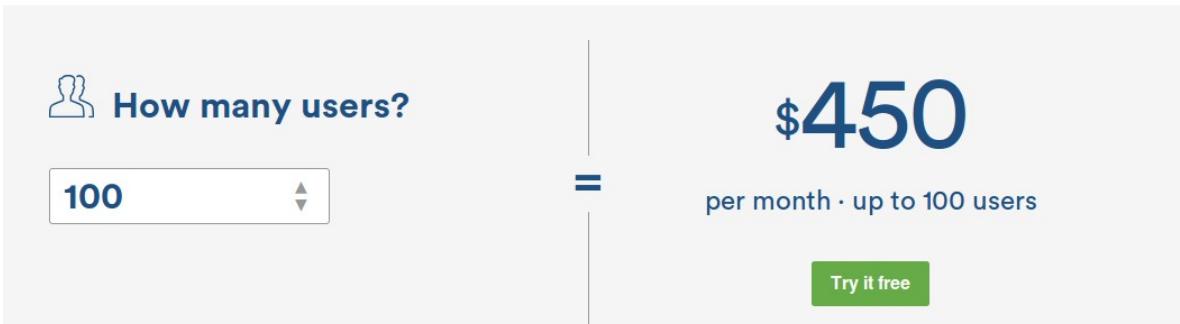
Provenance Data
Year, Vineyard, Geographic
Information, Varietal, ...

Beispielpreise für Jira



For teams of all sizes, hosted in the cloud

Small teams	Growing teams
\$10	\$75
per month	per month
up to 10 users	<input type="button" value="15 users"/> ▼



Architekturvision

