

Digitisation

Kitodo – open source community and service providers
hand in hand



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Overview

- ✓ The Kitodo tools and it's main Features
- ✓ Vision of our community - regarding collaboration with service providers
- ✓ Organizational activities in the Kitodo community
- ✓ Our big refactoring project
- ✓ Community goals and Challenges

Main Features of Kitodo.Production

Workflowmanagement

- ✓ browser based workflow tool – connected with a role concept
- ✓ providing METS/MODS – according to standards

List of tasks

Number	Title	Status	Activity
0 ↑↓	Aufnahme	■ ↑↓	
1 ↑↓	Scannen	■ ↑↓	
2 ↑↓	Qualitätskontrolle Scannen	■ ↑↓	
3 ↑↓	Metadatenbearbeitung	■ ↑↓	
4 ↑↓	Qualitätskontrolle Metadatenbearbeitung	■ ↑↓	
5 ↑↓	OCR	■ ↑↓	
6 ↑↓	Export	■ ↑↓	

Main Features of Kitodo.Production

Role concept in projectmanagement

Every user will be connected with his / her specific projects and tasks in the workflow

Edit user

Details

Surname: xxxxxx
First name: Spencer
Location: Hamburg
Login: behrensp
LDAP login: behrensp
Password: ●●●●
LDAP group: MitarbeiterInnen
Language for metadata: de
is active:
Bulk downloads:

[User groups](#)
[Projects](#)

Metadata
Bestandserhal
Einzelwerke H
Regionalzeitsc
Statistiken
UniDigitalisier

Tasks: 256

Task	Process	Process date	Project	Status	Activity
Metadatenbearbeitung	tabeddew_PPN790838443_1870	Jul 21, 2014	Regionalzeitschriften	■ C	⚙️
Metadatenbearbeitung	zeitdegef_PPN77014229X_1892	Oct 29, 2013	Regionalzeitschriften	■ C	⚙️
Metadatenbearbeitung	zeitdegef_PPN770142370_2002	Dec 20, 2013	Regionalzeitschriften	■ C	⚙️
Metadatenbearbeitung	amtsdesta_PPN635760754_0010	Oct 15, 2010	Regionalzeitschriften	■	⚙️
Metadatenbearbeitung	anzedeind_PPN750435038_1831_32	Jun 27, 2013	Regionalzeitschriften	■	⚙️
Metadatenbearbeitung	beri_PPN730608336_1912_13	Nov 29, 2012	Regionalzeitschriften	■	⚙️
Metadatenbearbeitung	BerbidV_PPN83360029X_1902	Nov 26, 2015	Regionalzeitschriften	■	⚙️
Metadatenbearbeitung	BerbidV_PPN83360029X_1903	Nov 26, 2015	Regionalzeitschriften	■	⚙️
Metadatenbearbeitung	BerbidV_PPN83360029X_1904	Nov 26, 2015	Regionalzeitschriften	■	⚙️
Metadatenbearbeitung	BerbidV_PPN83360029X_1905	Nov 26, 2015	Regionalzeitschriften	■	⚙️

- Workflow -
My tasks
Search for volume

Main Features of Kitodo.Production

Editor in structure and metadata capturing

The screenshot displays the Kitodo.Production interface. On the left is a tree view of the document structure, including sections like 'Monographie', 'Einband', 'Kupfertitel', 'Titelblatt', 'Widmung', 'Sonstiges', 'Abschnitt', 'Vorwort', 'Inhaltsverzeichnis', 'Abbildung', 'Korrekturen', 'Register', 'Annotation', 'Korrekturen', and 'Einband'. The main area is titled 'Edit metadata' and shows the 'Metadatum' section with the 'Haupttitel' field containing the text: 'Biblische Betrachtung des Erdreichs/ Zweyter Theil. Von denen allgemeinen Veränderungen/ ...'. Below this are buttons for 'Add new person' and 'Add new metadata'. The top navigation bar includes 'Pagination | Structure data | Metadata | Exchange of files' and 'Hide image | Validate |'. The right side shows a scanned image of a book title page with the following text: 'Biblischer Betrachtung Des Erdreichs / Zweyter Theil. Von denen allgemeinen Veränderungen / Welche Der Erd-Kreys annoch außzusehen hat. Und zwar am ganzen Werck / das Dritte Buch / Von Der bevorstehenden Verbrennung der Welt. In Latein entworfen Von Herrn T. BURNET; Nun aber verdeutschet / und das erste mahl in Teutsch herausgegeben Durch M. J. J. Z. M D C C X I / Gedruckt bey Georg König; Im Jahr Christi 1693.'

Main Features of Kitodo.Production

Support in Newspaper Digitisation Projects

Home page >> Process management >> Create new process >> Enter course of appearance

Enter course of appearance

Episodes of the course of appearance

Episode: 01.01.1920 – 31.12.1920 from: 01.01.1920 up to: 31.12.1920

Issue: Morgenausgabe Mon Tue Wed Thu Fri Sat Sun

Issue: Abendausgabe Mon Tue Wed Thu Fri Sat Sun

← 1920 →

Jan	Feb	Mar	Apr	May	Jun	Jul
1. ● ●	1. ● ○	1. ● ●	1. ● ●	1. ● ●	1. ● ●	1. ● ●
2. ● ●	2. ● ●	2. ● ●	2. ● ●	2. ● ○	2. ● ●	2. ● ●
3. ● ●	3. ● ●	3. ● ●	3. ● ●	3. ● ●	3. ● ●	3. ● ●
4. ● ○	4. ● ●	4. ● ●	4. ● ○	4. ● ●	4. ● ●	4. ● ○
5. ● ●	5. ● ●	5. ● ●	5. ● ●	5. ● ●	5. ● ●	5. ● ●
6. ● ●	6. ● ●	6. ● ●	6. ● ●	6. ● ●	6. ● ○	6. ● ●
7. ● ●	7. ● ●	7. ● ○	7. ● ●	7. ● ●	7. ● ●	7. ● ●
8. ● ●	8. ● ○	8. ● ●	8. ● ●	8. ● ●	8. ● ●	8. ● ●
9. ● ●	9. ● ●	9. ● ●	9. ● ●	9. ● ○	9. ● ●	9. ● ●
10. ● ●	10. ● ●	10. ● ●	10. ● ●	10. ● ●	10. ● ●	10. ● ●

Main Features of Kitodo.Presentation

Support in Newspaper Digitisation Projects

Jahrgangsübersicht - Dresdner neueste Nachrichten

Bitte wählen Sie zunächst einen Jahrgang aus.

1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919
			1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930			

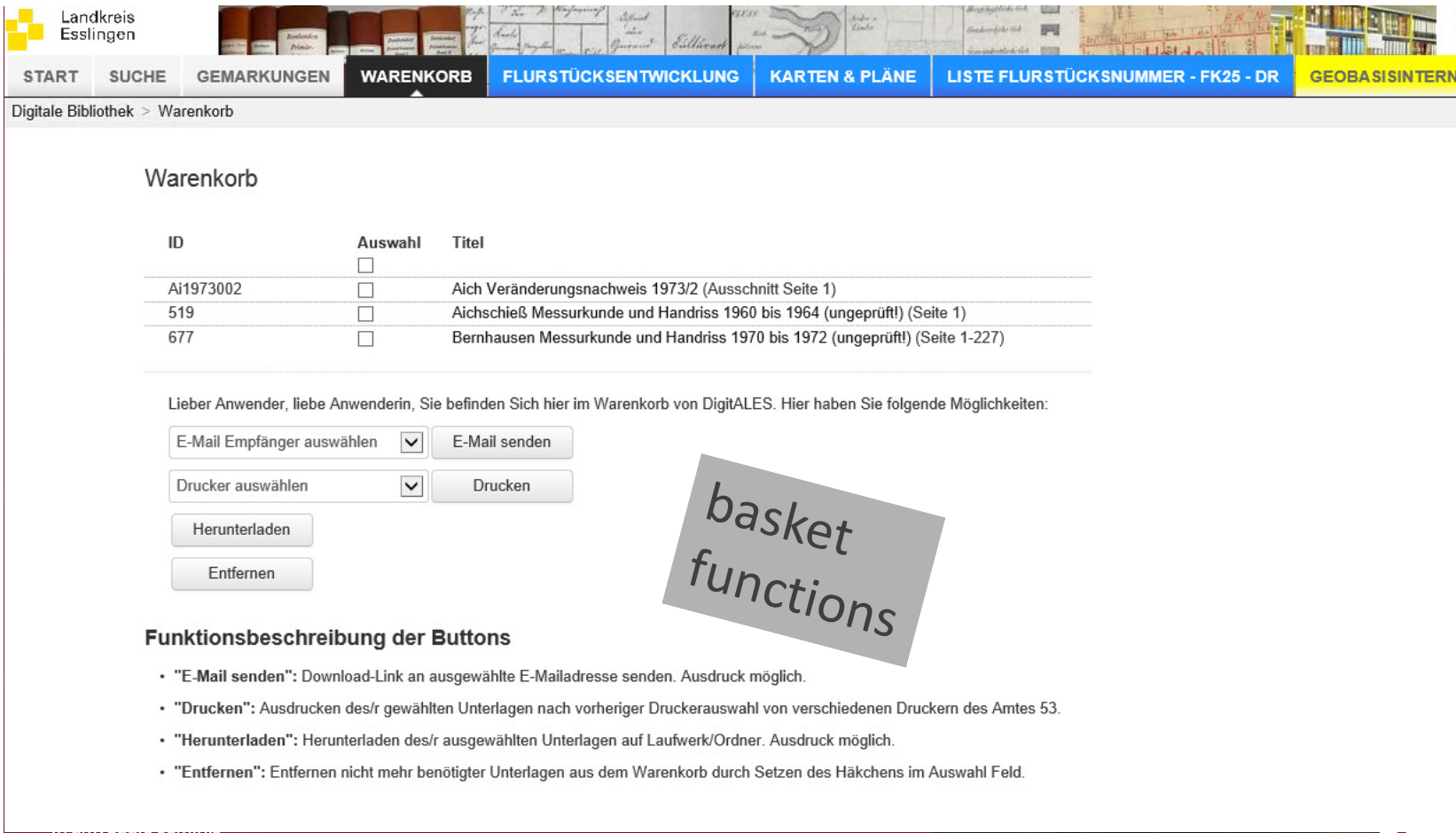
Jahrgangsübersicht - Dresdner neueste Nachrichten

1923

JANUAR							FEBRUAR						
Mo	Di	Mi	Do	Fr	Sa	So	Mo	Di	Mi	Do	Fr	Sa	So
										01	02	03	04
01	02	03	04	05	06	07	05	06	07	08	09	10	11
08	09	10	11	12	13	14	12	13	14	15	16	17	18
15	16	17	18	19	20	21	19	20	21	22	23	24	25
22	23	24	25	26	27	28	26	27	28				
29	30	31											

Main Features of Kitodo.Presentation

TYPO3-Extension



Landkreis Esslingen

START | SUCHE | GEMARKUNGEN | **WARENKORB** | FLURSTÜCKSENTWICKLUNG | KARTEN & PLÄNE | LISTE FLURSTÜCKSNUMMER - FK25 - DR | GEOBASISINTERN

Digitale Bibliothek > Warenkorb

Warenkorb

ID	Auswahl	Titel
Ai1973002	<input type="checkbox"/>	Aich Veränderungsnachweis 1973/2 (Ausschnitt Seite 1)
519	<input type="checkbox"/>	Aichschieß Messurkunde und Handriss 1960 bis 1964 (ungeprüft!) (Seite 1)
677	<input type="checkbox"/>	Bernhausen Messurkunde und Handriss 1970 bis 1972 (ungeprüft!) (Seite 1-227)

Lieber Anwender, liebe Anwenderin, Sie befinden sich hier im Warenkorb von DigitALES. Hier haben Sie folgende Möglichkeiten:

E-Mail Empfänger auswählen

Drucker auswählen

basket functions

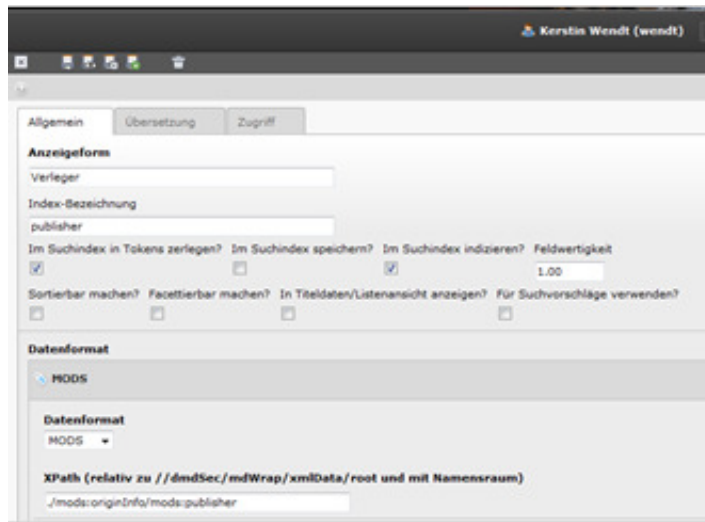
Funktionsbeschreibung der Buttons

- "E-Mail senden": Download-Link an ausgewählte E-Mailadresse senden. Ausdruck möglich.
- "Drucken": Ausdrucken des/r gewählten Unterlagen nach vorheriger Druckerauswahl von verschiedenen Druckern des Amtes 53.
- "Herunterladen": Herunterladen des/r ausgewählten Unterlagen auf Laufwerk/Ordner. Ausdruck möglich.
- "Entfernen": Entfernen nicht mehr benötigter Unterlagen aus dem Warenkorb durch Setzen des Häkchens im Auswahl Feld.

Main Features of Kitodo.Presentation

TYPO3-Extension

- ✓ the plugin concept
- ✓ Complete configuration by a graphical user interface



e.g. - statements for every single metadata element regarding the indexing process and its label for the web

- ✓ IIIF Image API
- ✓ OAI interface to provide other portals with METS files

2. Vision of our community

- ✓ We see digitization as a task on the agenda of our institutions, that will run for long time.
- ✓ We want to build knowledge within our institution – to anticipate all upcoming issues on our own.
- ✓ We want to learn together and support each other.
- ✓ We need sustainable infrastructure – realized within a realistic budget over the years.
- ✓ We would manage the whole digitisation process ourselves and would like to avoid any vendor lock-in.
- ✓ Software is developed along the needs of the community.

2. Vision of our community

- ✓ At the same time it was always an explicit goal to integrate service providers in our community.
- ✓ Smaller insitutions will be able to build a stable digitisation infrastucture with open source tools – with a variety of support levels.
- ✓ Release management is organized with the involvment of cultural institutions – independently from a company.
- ✓ At best all of our acitivities in the Kitodo community lead to a mixture of independence and support – starting with support leading towards independence.

2. Vision of our community. Collaboration with service providers

Our current partners in software development



- ✓ „start-up“ with an open source tool from a university project
- ✓ Offering support and development for educational institutions based on open source components
- ✓ Team of 12 developers
- ✓ Increasing number of projects in libraries and archives



- ✓ manufacture of microfilm and scanning systems
- ✓ Support of libraries and archives for the whole digitisation workflow
- ✓ Two colleagues with a wide range of Kitodo experience
- ✓ Kitodo as a core part for workflow improvement in company strategy

2. Vision of our community. Collaboration with service providers

- ✓ Start of the “Goobi”-Project at the Göttingen State and University Library in 2004
- ✓ „Goobi-startup“ in a company in 2008
- ✓ Founded the Association in 2012 and found ourselves at the crossroads
- ✓ Renaming to „Kitodo. Key to digital Objects“ in 2016.



Lessons Learned

- ✓ Importance of trademark issues
- ✓ The vague label „open source“



3. Organizational activities in the Kitodo community

- ✓ Association founded in 2012 – about 40 members today
- ✓ Association Board (5 members / including a member of a service provider)
- ✓ General meetings of the association annually and special user meetings
- ✓ Since 2017 Kitodo association office at the library of the TU Berlin
- ✓ Release Management – paid by the association and appointed to an institution every 2 years at the general meeting
 - ✓ Code administration on github.com/kitodo
 - ✓ Coordination of developments and watching the ingest according to the [developer guidelines](#)

3. Organizational activities in the Kitodo community

- ✓ Mutual support via mailing lists for developers and users
- ✓ Commitment of members to mentor a beginner in installation and configuration issues – managing the requests by the Kitodo association office
- ✓ „Kitodo for newbies“ – a new format for system administrators with general interest in Kitodo (workshop 6/2018 and 09/2018)
- ✓ „Kitodo-Exchange“ (starting in autumn 2018) – coordination of mutual visits for Kitodo users in different institutions

4. Refactoring Kitodo.Production (10/2016 – 04/2019)

- ✓ 1.3 Mio. EURO are agreed by the German Research Foundation (DFG)
- ✓ 4 partners in the consortium:
 - Saxon State and University Library, Dresden
 - University Library of Humboldt University, Berlin
 - Hamburg State and University Library
 - Private university “Nordakademie”, Elmshorn
- ✓ Important goals:
 - ⇒ Spit the code in modules with documented interfaces
 - ⇒ More flexibility in metadata formats
 - ⇒ userfriendly new designs based on new frontend framework (JSF 2.2)
 - ⇒ Extended search functions based on Elastic Search
 - ⇒ Refinement in rights and role management
 - ⇒ More flexibility to import existing metadata

Refactoring Kitodo.Production (10/2016 – 04/2019)



Approach in the project:

- ✓ Evaluation of the user needs
- ✓ Scenario based design along the stories of personas
- ✓ Collaboration with a professional designer

- ✓ SCRUM in a remote team
- ✓ 4 employed developer combined with an involvement of companies
- ✓ Group of product owners

5. Goals & Challenges in our community

- ✓ Successful change to the renewed Kitodo.Production
- ✓ Successful start for the Swiss Federal Archives with Kitodo.Production this summer
- ✓ Joining Kitodo.Tools with a Fedora repository
- ✓ Encourage crowd funding for common software development
- ✓ Cooperation between competing companies



Thank you for your attention!

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More information about Kitodo:

www.kitodo.org/en

<https://github.com/kitodo>

