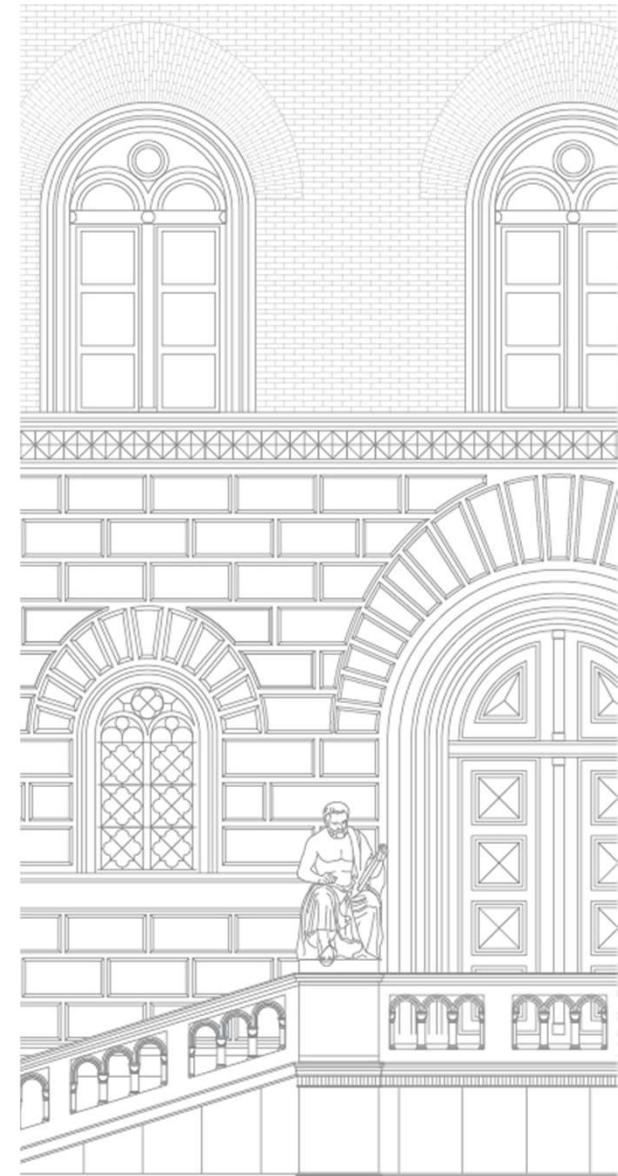




# Catalogs Are Like Onions:



UX Modifications in the Bavarian “Layered” Model



# Overview



- Library Network within Bavaria
- Supports over 150 libraries with various services, e.g.:
  - B3Kat
    - Union catalog, in cooperation with KOBV
    - Covers libraries from Bavaria, Berlin and Brandenburg
    - Over 30 million Solr entries
  - OPAC hosting
    - Current transition: TouchPoint (OCLC) → VuFind
  - LMS hosting
    - Current transition: SISIS (OCLC) → FOLIO
- Cooperation with LRZ (Leibniz Supercomputing Centre Munich)

BVB FOLIO Project

Discovery working group (TP-DISC)

Developer

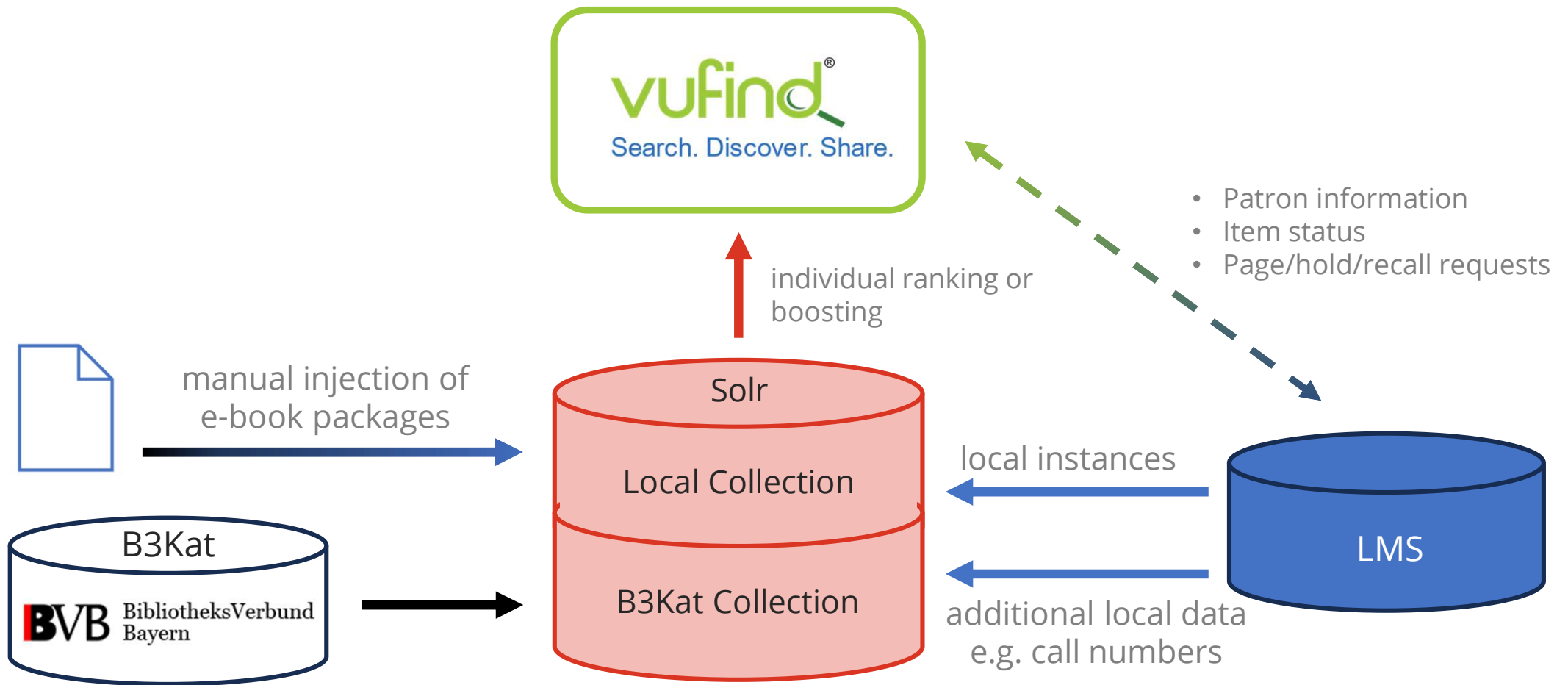
UX/UI

LMS  
(FOLIO/SISIS)


Solr

Discovery  
Services

# BVB VuFind Environment

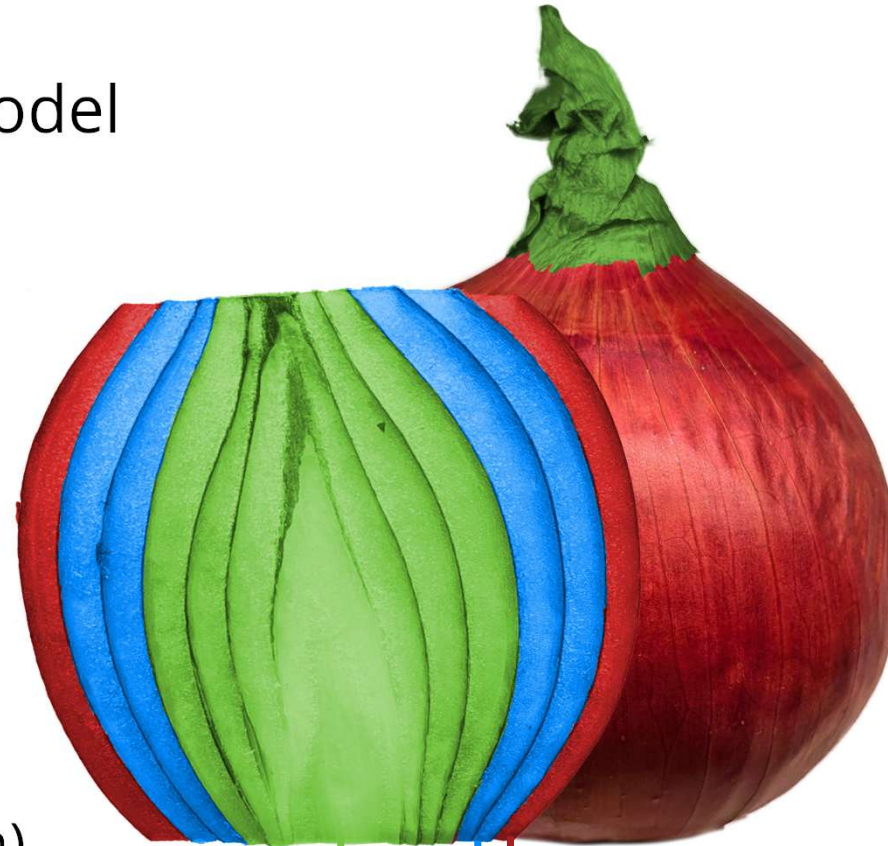


# BVB VuFind development concept

- Central management/versioning of source code/configuration
  - Clean separation of base and customizations/developments
  - Central ticketing system (GitLab issues)
- Uniform development environment : IntelliJ  , PhpStorm 
- Automated builds and deployments
  - Locally: Docker 
  - LRZ: Kubernetes 



# Three layer development model



VuFind Base Layer (Upstream)

BVB Layer

Library Layer

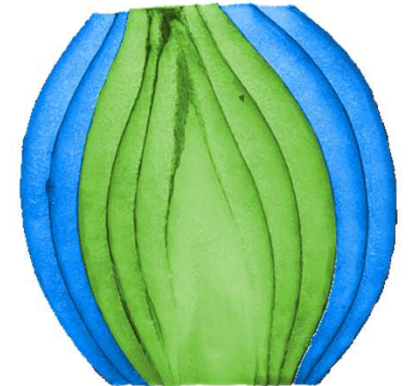
## Layer 1: VuFind Base Layer (Upstream)

- **Current** code from GitHub
  - Started development with 9.0
  - Currently in use: **10.1.4**
  - As soon as possible: 10.2.X
- **No changes** because:
  - Facilitates updates
  - Security fixes are up to date
  - Great, active community



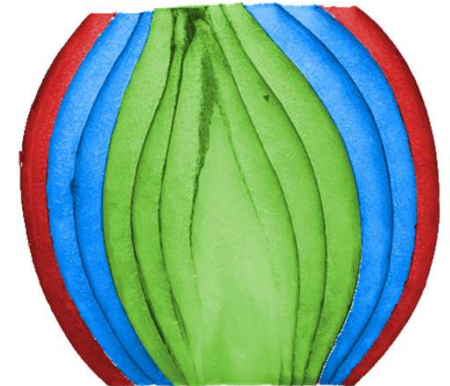
## Layer 2: BVB Layer

- **Uniform** customizations for all union libraries
- Components :
  - Designated BvbModule (PHP)
  - Common configuration
  - Functional BvbTheme (SCSS and .phtml)
    - Common (base) translations
- **Cooperation** :
  - Coordination of development in the discovery working group
  - BVB is in charge of technical matters



## Layer 3: Library specific layer

- **Individual** design and customizations
- Components:
  - Local theme that inherits from BVB theme
  - Local config files for BVB additions
  - Config files of the lower layers can be overridden or added to
- Flexible enough to cater to library specific needs (e.g. Corporate Design)



# Layer 1: Result list VuFind base

VuFind [Switch to Advanced Demo] Login Theme Language

bibliothekarisches Grundw  All Fields  [Advanced](#)



Search Results - bibliothekarisches Grundwissen gantert

**Suggested Topics within your search.**

[Books](#) [Elektronisches Informationsmittel](#) [Information resources](#) [Informationsmittel](#)

[LANGUAGE ARTS & DISCIPLINES / Library & Information Science / General](#) [Library science](#) [books](#)

Showing 1 - 2 results of 2 Sort: Relevance

-  **Bibliothekarisches Grundwissen /**  
by [Gantert, Klaus 1968-](#), [Gantert, Klaus 1968-](#)  
Published 2016  
[Show other versions \(1\)](#)  
**Call Number:** U787.4805  
**Located:** Multiple Locations  
[Online version](#)  
[Book](#) [Save to List](#)
-  **Informationsressourcen : ein Handbuch für Bibliothekare und  
Informationsspezialisten /**  
by [Gantert, Klaus](#), [Lauber-Reymann, Margrit](#)  
Published 2023  
[Show other versions \(2\)](#)  
**Call Number:** Prefix: 3 W483.5859  
**Located:** Multiple Locations  
[Online version](#)  
[Electronic](#) [eBook](#) [Save to List](#)

Search Tools: [RSS Feed](#) - [Save Search](#)

**Refine Results**

**Institution**   
[MyInstitution](#) 2

**Library**   
[Library A](#) 2

**Format**   
[Book](#) 1  
[Electronic](#) 1  
[eBook](#) 1

**Call Number**   
[Z - Library Science](#) 2

**Author**   
[De Gruyter ebooks](#) 2  
[Gantert, Klaus](#) 1  
[Gantert, Klaus 1968-](#) 1  
[Lauber-Reymann, Margrit](#) 1

**Language**   
[German](#) 2

**Genre**   
[Online-Ressource](#) 1

**Region**

- Bootstrap 5
- Kept in its default state



# Layer 2: Result list BVB

bibTitle\_ANPASSEN 0 items Need Help? Contact us Tools Deutsch Login

Media Articles

bibliothekarisches grundwissen gantert All Fields Find Advanced

Physical media

Search Results - bibliothekarisches grundwissen gantert

Showing 1 - 3 results of 3 Results per page 20 Sort Relevance

Refine Results

- facet\_cb\_online
- Physical media

**Format**

- Book 3

**Discipline**

- Allgemeines (en) 3
- Medienwissenschaft 3


**Subject**


- Bibliografie 3
- Bibliothek 3
- Bibliothekswissenschaft 3
- Buch 3
- Buchwissenschaft 3
- Einführung 3

↓ more...

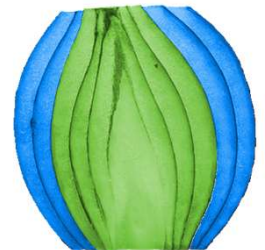
Email Export Print Save Add to Book Bag

Select all entries on the page

1  **Bibliothekarisches Grundwissen**  
by Gantert, Klaus 1968-  
Published 2016  
Show all versions (3)  
**Located:**  
✓ TB 3 / Sammlung Bibliotheksverwaltung  
Multiple Call Numbers  
✗ Metropolitankapitel  
0122/Lib. 368(9)  
✓ Magazin Kapellenstraße  
00/AN 57400 ZZ 1885(9)b  
urlInhaltText  
Book On Shelf

2  **Bibliothekarisches Grundwissen**  
by Gantert, Klaus 1968-, Hacker, Rupert 1935-2016  
Published 2008

- Custom icons
- Facets on the left
- Added new items to header menu
- Various config presets
- Some placeholder translations



# Layer 3: Result list Bamberg University Library

The screenshot shows the Bamberg Catalogue interface. At the top, there's a blue header with the university logo and navigation links like 'Items', 'Need Help?', 'Contact us', 'Tools', 'Deutsch', and 'Login'. Below the header, there are tabs for 'Media' and 'Articles'. A search bar contains the text 'bibliothekarisches grundwissen gantert'. Below the search bar, there are filters for 'Libraries in Bamberg' and 'Physical media'. The search results section shows 'Showing 1 - 3 results of 3'. On the left, there's a 'Refine Results' sidebar with various filters: 'Libraries in Bamberg' (checked), 'Online Resources' (unchecked), 'Physical media' (checked), 'Format' (Book, 3), 'Discipline' (Allgemeines, 3; Medienwissenschaft, 3), 'Location' (Stacks, 2; Branch Library 3, 2; Reference Collection, 1), 'Location (Metropolitankapitel)' (Metropolitankapitel, 2), and 'Subject' (Bibliografie, 1). The main results area shows two entries for 'Bibliothekarisches Grundwissen'. The first entry is by Gantert, Klaus, published in 2016, located in TB 3 / Sammlung Bibliotheksverwaltung and Magazin Kapellenstraße. The second entry is by Gantert, Klaus, Hacker, Rupert, published in 2008. Each entry has a toolbar with options like 'Email', 'Export', 'Print', 'Save', and 'Add to Book Bag'.

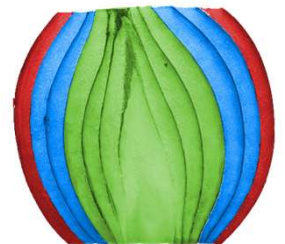
- Uses SIS LMS connector
- Follows Corporate Design
- Custom facets
- Facet enabled by default
- Additional tool in toolbar (purely local)



# Layer 3: Result list TUM Library

The screenshot shows the TUM Library search interface. At the top, there's a navigation bar with the TUM logo, 'OPAC Universitätsbibliothek Technische Universität München', and user options like '0 temporarily saved', 'Help', 'Tools', 'Deutsch', and 'Login'. Below this, there are tabs for 'Books & Journals' and 'Papers'. A search bar contains the query 'bibliothekarisches grundwissen gantert' with a search button and an 'Advanced' link. There are also 'Reset Filters' and 'Physical Resources' buttons. The main content area shows 'Search Results - bibliothekarisches grundwissen gantert' with 'Showing 1 - 3 results of 3'. On the left, a 'Filter by' section includes checkboxes for 'Library Holdings TUM', 'Library Holdings TUM, LMU, HM, BSB, HSWT', 'Online Resources', and 'Physical Resources' (checked). Below this are filters for 'Format' (Book, 3), 'Discipline' (Allgemeines, 3; Medienwissenschaft, 3), and 'Branch Library' (Main Campus, 2; Reference Collection, 2; Mechanical Engineering, 1; Weihenstephan, 1; Closed Stacks, 1). The search results list two items: 1. 'Bibliothekarisches Grundwissen' by Gantert, Klaus 1968-, Published 2016, located at Branch Library Main Campus (0002 INF 100f 92 A 999(9)). 2. 'Bibliothekarisches Grundwissen' by Gantert, Klaus 1968-, Hacker, Rupert 1935-2016, Published 2008. A chat icon is visible in the bottom right corner of the search results area.

- Uses FOLIO LMS Connector
- Follows Corporate Design
- Custom facets
- Some local translations
- Chat function



VuFind

bibliothekarisches grundwissen gantert

All Fields

Find Advanced

Search Results - bibliothekarisches grundwissen gantert

^ Suggested Topics within your search.

Books 1 Elektronisches Informationsmittel 1

Information resources 1 Informationsmittel 1

↓ more...

Showing 1 - 2 results of 2

Refine Results

Sort Relevance

 **Bibliothekarisches Grundwissen /**  
 by Gantert, Klaus 1968-, Gantert, Klaus 1968-  
 Published 2016  
[Show other versions \(1\)](#)  
**Call Number:** Prefix: 4 M833.8436  
**Located:** Multiple Locations  
[Online version](#)  
 Book

★ Save to List

 **Informationsressourcen : ein Handbuch für Bibliothekare und Informationsspezialisten /**  
 by Gantert, Klaus, Lauber-Reymann, Margrit  
 Published 2023  
[Show other versions \(2\)](#)  
**Call Number:** G668.7441  
**Located:** Reserves - Ask at Circulation  
[Online version](#)  
 Electronic eBook

# Layers 1 & 2: Mobile view

## VuFind base


- Bootstrap 5
- No translations

## BVB

- New cover placement
- Reduction of tools
- Bigger font size

Add to Book Bag

Select all entries on the page




**Bibliothekarisches Grundwissen**  
 by Gantert, Klaus 1968-  
 Published 2016  
[Show all versions \(3\)](#)

**Located:**

✓ TB 3 / Sammlung Bibliotheksverwaltung  
 Multiple Call Numbers  
 ✗ Metropolitankapitel  
 0122/Lib. 368(9)  
 ✓ Magazin Kapellenstraße  
 00/AN 57400 ZZ 1885(9)b

[urlInhaltText](#)

 Book 



# Layer 3: Mobile view

Save temporarily

Select all entries on the page

**Bibliothekarisches Grundwissen**  
by Gantert, Klaus 1968-  
Published 2016  
Show all versions (3)


**Located:**

- Branch Library Main Campus  
0002 INF 100f 92 A 999(9)
- Reference Collection (not available)

Multiple Call Numbers

Book On Shelf

What others found interesting ...



## TUM

- Inherits BVB theme with minor changes (e.g. no cover images)

**Bibliothekarisches Grundwissen**  
by Gantert, Klaus 1968-, Hacker, Rupert 1935-2016  
Published 2008  
Show all versions (13)

**Located:**

- Branch Library Main Campus  
0002 INF 100f 92 A 999(9)



Save Add to Book Bag

Select all entries on the page



**Bibliothekarisches Grundwissen**  
by Gantert, Klaus 1968-  
Published 2016  
Show all versions (4)

**Located:**

- TB 3 / Sammlung  
Bibliotheksverwaltung
- Multiple Call Numbers  
Metropolitankapitel  
0122/Lib. 368(9)
- Magazin Kapellenstraße  
00/AN 57400 ZZ 1885(9)b

Book On Shelf

What others found interesting ...



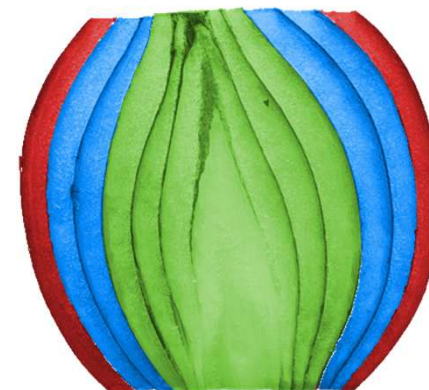
## Bamberg

- Toolbar addition also visible on mobile

# Individual degree of participation

Depending on local priorities and resources, different approaches are possible for each library...

- **Passive approach (full service)**
  - Configuration and customization will be taken over completely by the BVB
- **Active approach (cooperative)**
  - Involvement in the discovery working group or subgroups (Development, UX, Solr)
    - Optional: Individual configuration/customizations within the library layer



# Summary and Lessons Learned

- Prod and dev branches for every layer
- Review process before merges into dev branches
- Code freeze on BVB layer before the go-live of a library (no merges into prod branches)
- Effects of the structure:
  - Library customizations are easily distinguishable
  - Common module drastically reduces maintenance time/effort
  - But: incorporating local additions into the BVB layer when possible is an ongoing task
- Coming up:
  - Update to 10.2
  - First test: Switching LMS with an already live VuFind System

Thank you for your attention!



...and many thanks to all our colleagues from the BVB, LRZ and the discovery working group

