

Experiences with Search Webhook @LIBISNet



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KU LEUVEN



LIBIS is a part of KU Leuven Libraries and R&D, it supports central ICT applications for the management & discovery of information sources for libraries, archives, museums and other (heritage) collections (GLAM).



Experiences with Search webhook @LIBISnet

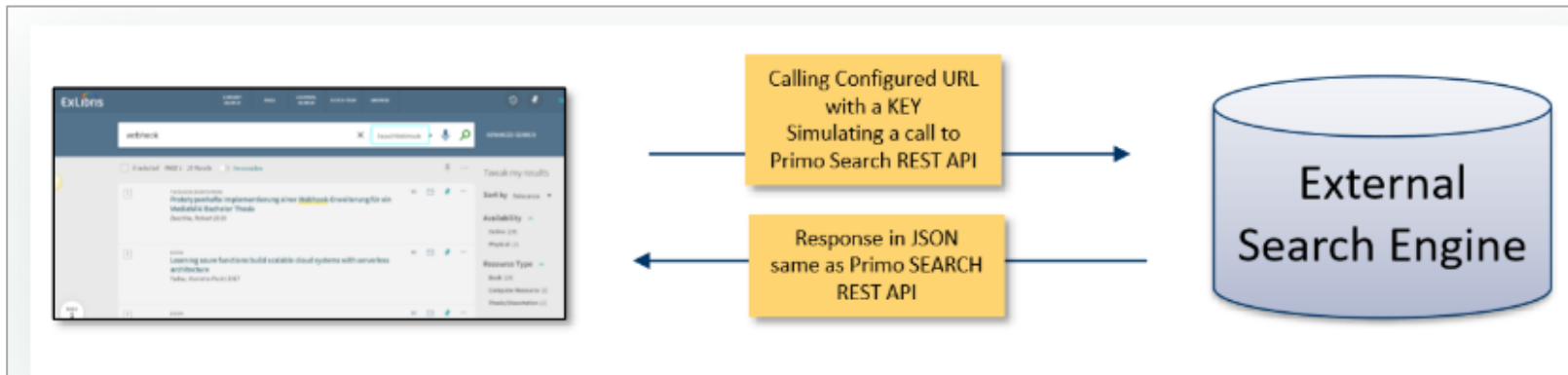
Agenda

- The search webhook solution
- Two use cases - Why Search Webhook ?
- Issues & how we dealt with them
- Conclusion

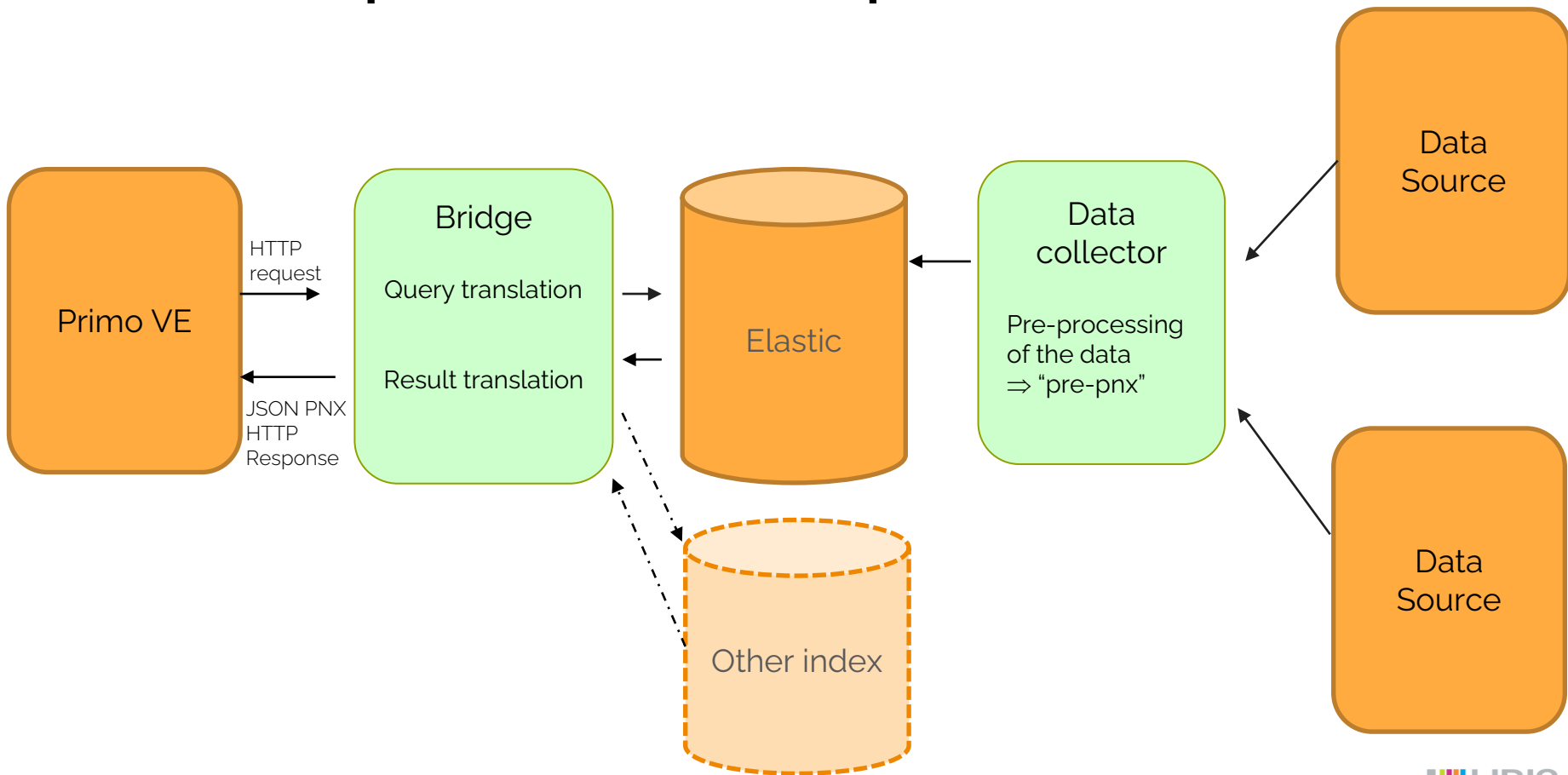


●●●● The search webhook functionality in Primo

<https://developers.exlibrisgroup.com/primo/integrations/search/search-webhook/>



Setup: data flow components



Two use cases

Archive collection of the Flemisch Parliament



“Deep Search” in Primo Classic
Search Webhook in Primo VE (2023)

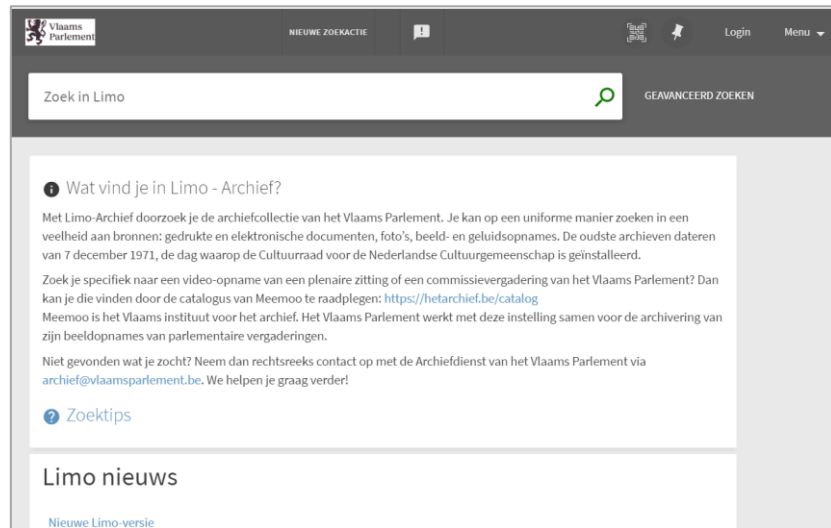
Lirias: Repository & bibliography of KU Leuven Research Papers

LIRIAS

External source in Primo Classic
Search Webhook in Primo VE (2022)



- Modern, living archive
- 66.000 records +-
- Mainly text documents
- Physical & digital documents
- Metadata in ScopeArchiv, Full text in Rosetta



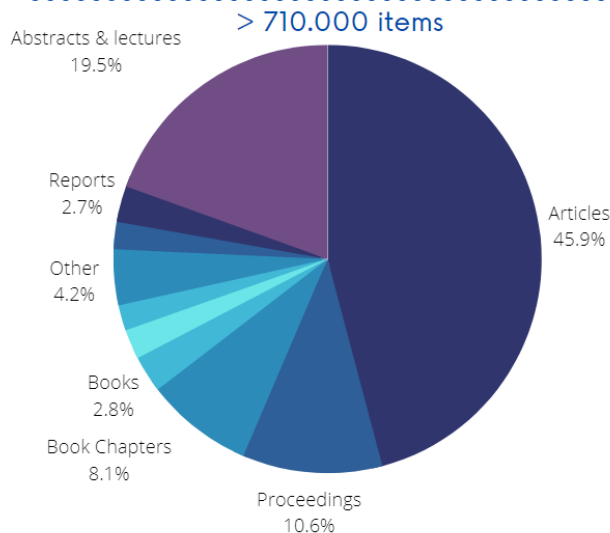
The screenshot shows the search page of the Vlaams Parlement archive. At the top, there is a search bar with the text "Zoek in Limo" and a magnifying glass icon. To the right of the search bar, there are links for "NIEUWE ZOEKACTIE", "1", "Login", and "Menu". Below the search bar, there is a section titled "Wat vind je in Limo - Archief?". The text in this section describes the archive's collection, including printed and electronic documents, photos, and audio recordings, dating back to 1971. It also mentions a video recording of a plenary session and provides a link to the Meemoo catalog. A "Zoektips" link is also visible. At the bottom of the screenshot, there is a section titled "Limo nieuws" with a link for "Nieuwe Limo-versie".

Why Search webhook ?

Requirement of full text
searchability of complete
documents

Full text indexing in Primo is
limited to 10.000 words

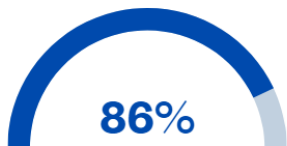




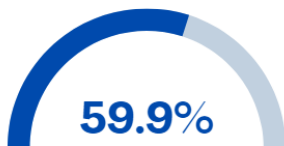
- > 715.000 records +-
- Metadata in Elements, full text in DSpace
- > 30% of records has (accessible) fulltext in DSpace
- Freely available & restricted documents
- Public UI via Primo



Items with at least 1 deposited file



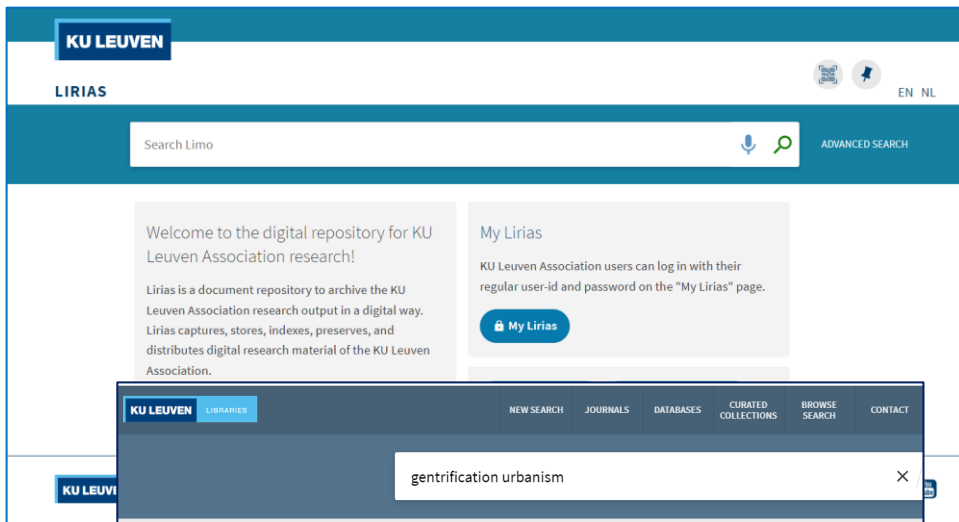
Compliance with deposit obligation (journal articles)



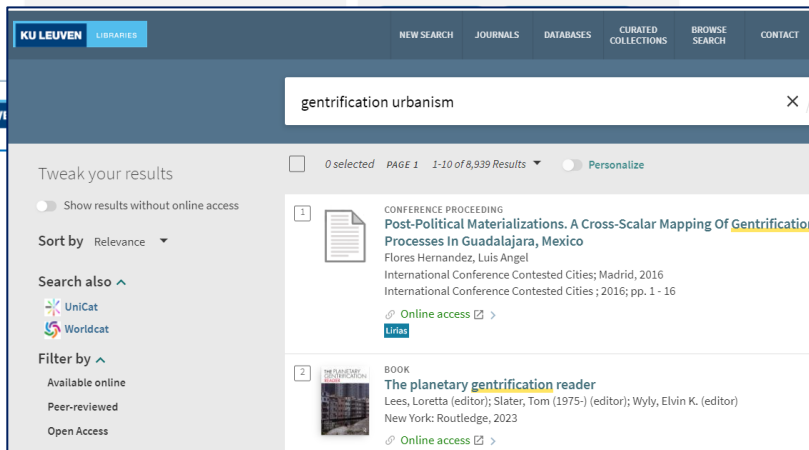
Green Open Access to journal articles



Liriasdata in Primo Classic



A Primo view is the enduser interface of Lirias.
Data & view highly customized.



Library catalogue: subset of Liriascollection (only records with fulltext)



Why Search webhook ?

– Loading external data

- Data model for external sources in Primo VE not very flexible (addata cannot be normalized, limited linking functionality, delivery options limited,,)
- Not sure data model can meet future needs

+ Search Webhook

- More control over the data => easier maintenance
- Good experiences with Elastic
- Future: extra API's to Elastic for other use of the data





Delivery in Primo Classic

Test	Availability indication	Tab "View online" uses:
Check if files are available in repository that are not private		
Yes, public	"Online access" Delivery category : Online resource Restricted delivery scope: no	Urls of the files in repository Linkfield in PNX: linktorsrc
Yes, intranet	"Check availability" Delivery category: Online resource Restricted delivery scope: yes	Urls of the files in repository Linkfield in PNX: linktorsrc
No => next check		
Check if there is an ISSN or ISBN in metadata		
Yes	"Check availability" Delivery category: Remote search resource <fulltext>: fulltext_unknown	Linkresolver uses openurl
Nee = > next check		
Check if there is an url in the metadata		
Yes	"Check availability" Delivery category: Online resource Restricted delivery scope: yes	Url in veld uri van Lirias Linkfield in PNX: linktorsrc
No	"No online access" Delivery category: Remote search resource <fulltext>: no_full_text	Not applicable



Functionality we miss

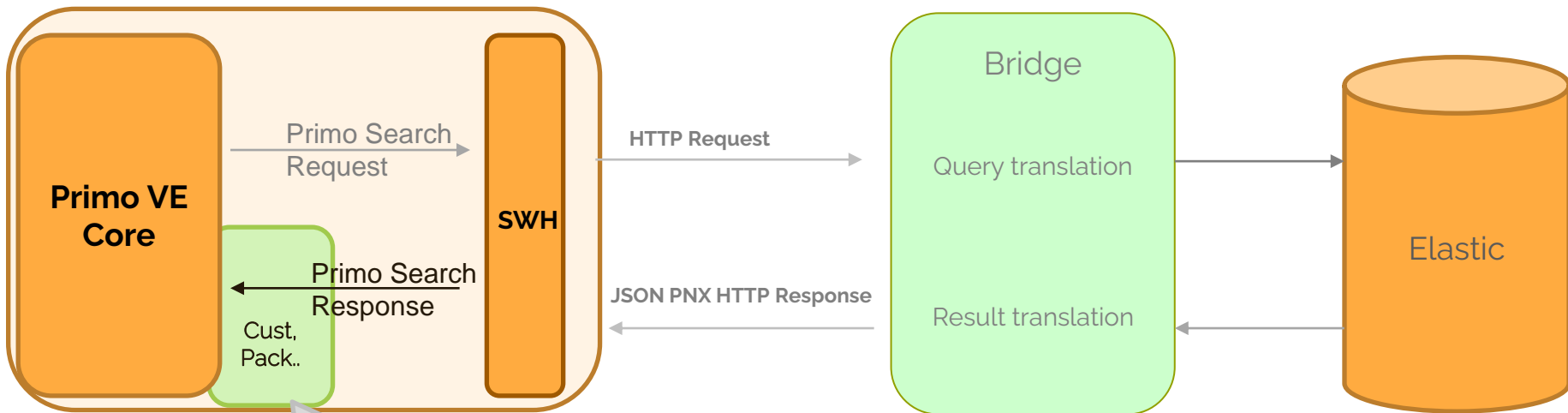
Workaround ?

No toplevel facets	Yes, via customization package
In Brief results: availability is always “Check for available services”	Partial, via customization package
Limited functionality of permalinks	Partial
No blending	Not really



Workaround via customization package

Primo VE



“Interceptor”:

Part of the Response is intercepted and renamed to value that Primo can understand.
Eg Renaming of “Ids_tlevel” to “tlevel”.



Delivery in Primo VE via SWH

Test	Availability indication	Tab “View online” uses:
Check if files are available in repository that are not private		
Yes, public	“Check availability” Delivery category : Remote Search Resource Restricted delivery scope: no	Urls of the files in repository Linkfield in PNX: linktorsrc
Yes, intranet	“Check availability” Delivery category: Remote Search Resource Restricted delivery scope: yes	Urls of the files in repository Linkfield in PNX: linktorsrc
No => next check		
Check if there is an ISSN or ISBN in metadata		
Yes	“Check availability” Delivery category: Remote search resource <fulltext>: fulltext_unknown	Linkresolver uses openurl
No = > next check		
Check if there is an url in the metadata		
Yes	“Check availability” Delivery category: Remote Search Resource Restricted delivery scope: yes	Url in veld uri van Lirias Linkfield in PNX: linktorsrc
No	“No online access” Delivery category: Remote search resource <fulltext>: no_full_text	Not applicable



Delivery in Primo VE via SWH

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Check if files are available in repository that are not private		
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Yes, intranet	"Check availability" Delivery category: Remote Search Resource Restricted delivery scope: yes	Urls of the files in repository Linkfield in PNX: linktorsrc
No => next check		
Check if there is an ISSN or ISBN in metadata		
Yes		
No => next check		
Check if there is an url		
Yes		
No		

- Brief results: customization
- Delivery category : always Remote Search Resource => 3 different availability statements
- No different statement for freely available resources and resources with restricted access.

Examples

<p>JOURNAL ARTICLE</p> <p>Seed germination, hydrothermal time models and a threatened high Andean tree species</p> <p>Gareca, E; Vandeloock, Filip; Fernandez, Milton; Hermy, Martin; Honn Seed Science Research ; 2012; Vol. 22; iss. 4; pp. 287 - 298</p> <p>Check availability ></p>	<p>View Online REPORT A PROBLEM</p> <p>Full text availability</p> <p>Link to resource [Available for KU Leuven users]</p>
<p>JOURNAL ARTICLE</p> <p>Shelf hypoxia in response to global warming affects boundary impact</p> <p>Vellekoop, Johannes; Woelders, Lineke; van Helmond, Niels AGM; G Philippe; Speijer, Robert P Geology; 2018; Vol. 46; iss. 8; pp. 683 - 686</p> <p>OPEN ACCESS</p> <p>Check availability ></p>	<p>View Online REPORT A PROBLEM</p> <p>Full text availability</p> <p>Link to resource [freely available]</p>
<p>JOURNAL ARTICLE</p> <p>A mixed method study on global warming, climate change and health nurses from the perspective of nursing</p> <p>Ergin, Emine; Altinel, Busra; Aktas, Emine Nurse Education Today; 2021; Vol. 107; pp.</p> <p>Check availability ></p>	<p>View Online REPORT A PROBLEM</p> <p>Full text availability</p> <p>Elsevier Journals Freedom</p> <p>Available from 01/04/1981 volume: 1 issue: 1.</p>
<p>ABSTRACT/PRESENTATION/POSTER</p> <p>Hypoxia in coastal regions; a suffocating Cretaceous-Paleogene boundary impact</p> <p>Vellekoop, Johan; Woelders, Lineke; van Helmond, Niels AGM; G Philippe; Speijer, Robert P 2016-04</p> <p>No Online Access ></p>	<p>No online access REPORT A PROBLEM</p>

Value of tag <fulltext>

fulltext_linktoresource

fulltext_unknown

no_fulltext

●●●●● No blending

Issue in view with both
local & remote search



Lirias ?

How to make Search Webhook
results more visible ?

Alternatives ?

Featured results ?

- Works since August release in local Search Profile, planned for SWH Search Profile

But..

- No consistent indication of search results in other search profile
- Visually not attractive if no covers/thumbnails available

The screenshot displays a search results interface. At the top, a featured result is shown for a magazine: "Leader magazine: kwartaalblad van het Europese programma Leader II". The title is in bold, and the subtitle is "Europese Gemeenschappen. Commissie. Directoraat-generaal VI : Landbouw (other)". The publication year is "1992-". Below the title, there is a link: "Beschikbaar in Vlaams Parlement Library Periodieken (586 E PERI)".

Below the featured result, there is a section titled "Resultaten in het archief" with a link "Alle resultaten weergeven". This section displays a horizontal carousel of archive items, each represented by a colored square and a text label. The labels include "over de ...", "Archiefover Commissie Landbouw, lezing ...", "Archiefover Commissie voor Economie, ...", "Archiefover Commissie voor Economie, ...", "Archiefover Commissie voor Landbouw, ...", and "Archiefover Commissie voor Landbouw, ...".

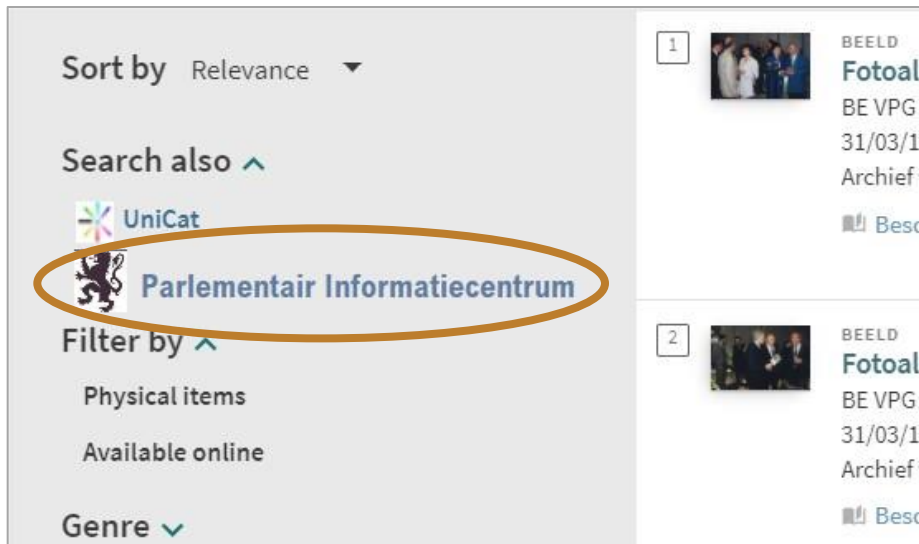
Below the carousel, another result is shown for an article: "Vlaams volume particuliere opslag in kader van de coronacrisis bijna volledig opgebruikt": Boter en kaas". The author is "Vancoillie, Lieven (Belgian journalist) (author)". Other authors listed are "Crevits, Hilde (author in quotations or text abstracts)" and "Coenegrachts, Steven (politician, 1985-) (author in quotations or text abstracts)". The year is "2020" and the source is "Landbouwleven".

●●●●● “Search also”

- Links to search results in other view
- Will be used in views of Flemish Parliament

But ..

- No link when no search results
- Not visible enough in Library catalogue in KU Leuven



Self developed blending ?

- Part of JS Package
- Blending works
- For records with equal relevance: configurable ratio of results per source per page

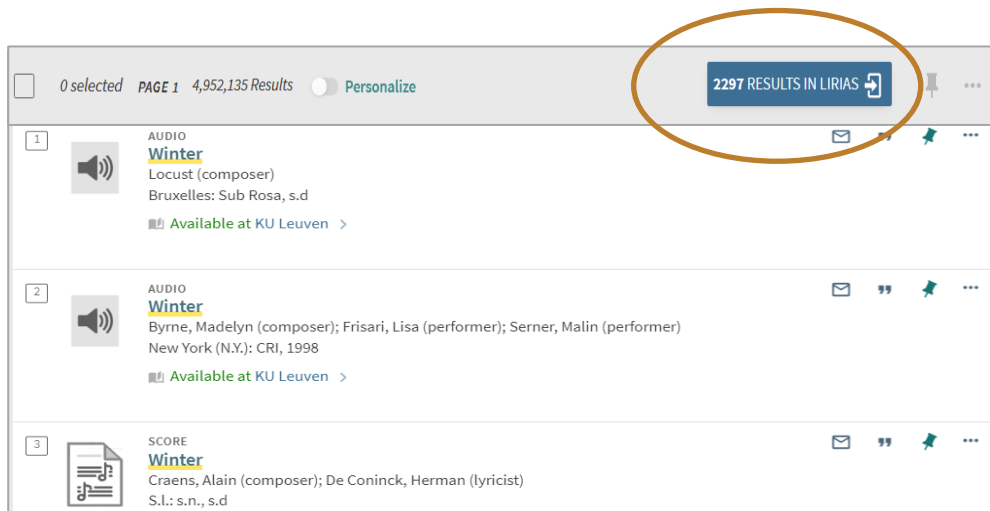
267	32KUL_KUL:KULeuven.blend.All_Content	true	<input type="radio"/>	ad...
268	32KUL_KUL:KULeuven.blend.alma_fraction	0.7	<input type="radio"/>	ad...
269	32KUL_KUL:KULeuven.blend.lirias_fraction	0.3	<input type="radio"/>	ad...

But ..

- Issue with sorting : performance

●●●●● Button indicating SWH results ?

- Button links to search results in dedicated Lirias view
- More consistent indication of search results from SWH
- Button also to be displayed when no results found



But ..

- Not user friendly enough

Alternative for blending ?

- Alternatives evaluated for Lirias in Library catalogue, no ideal solution
- Decided to load simplified records as external source in Library catalog (duplicate data flow)

●●●●● Conclusion

- Fills the missing piece !
Framework in place for adding additional search engine.
- Search Webhook gives us more flexibility (fulltext search, data model)
- It comes with a cost (infrastructure, expertise, additional workflows)



●●●●● Conclusion (2)

- Would have much more potential if blending were supported
- We hope for more SWH functionality in the planned new UI
- Let's work together on blending or good alternative to blending !



●●●●● Thank you

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