

# VOSviewer for the web

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**OPERA workshop**

Lyngby, Denmark

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# Outline

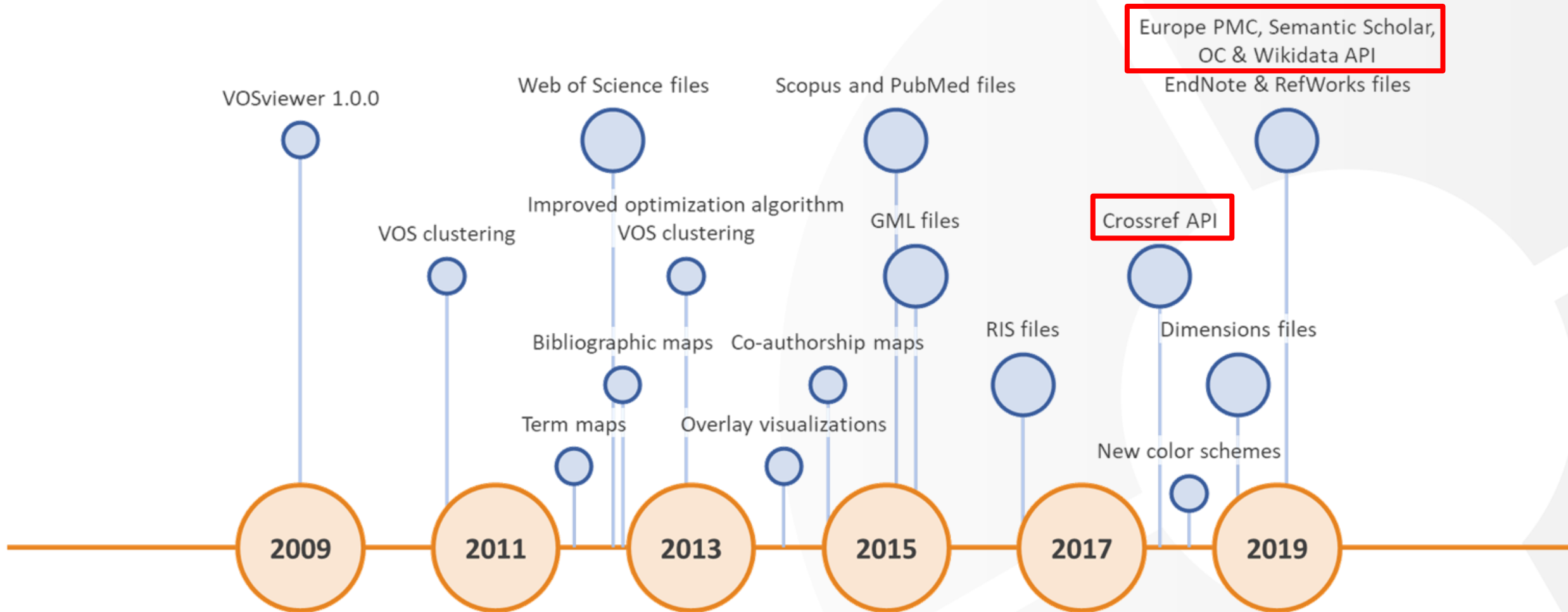
- VOSviewer data integration
- VOSviewer for the web
- Looking forward



# VOSviewer data integration

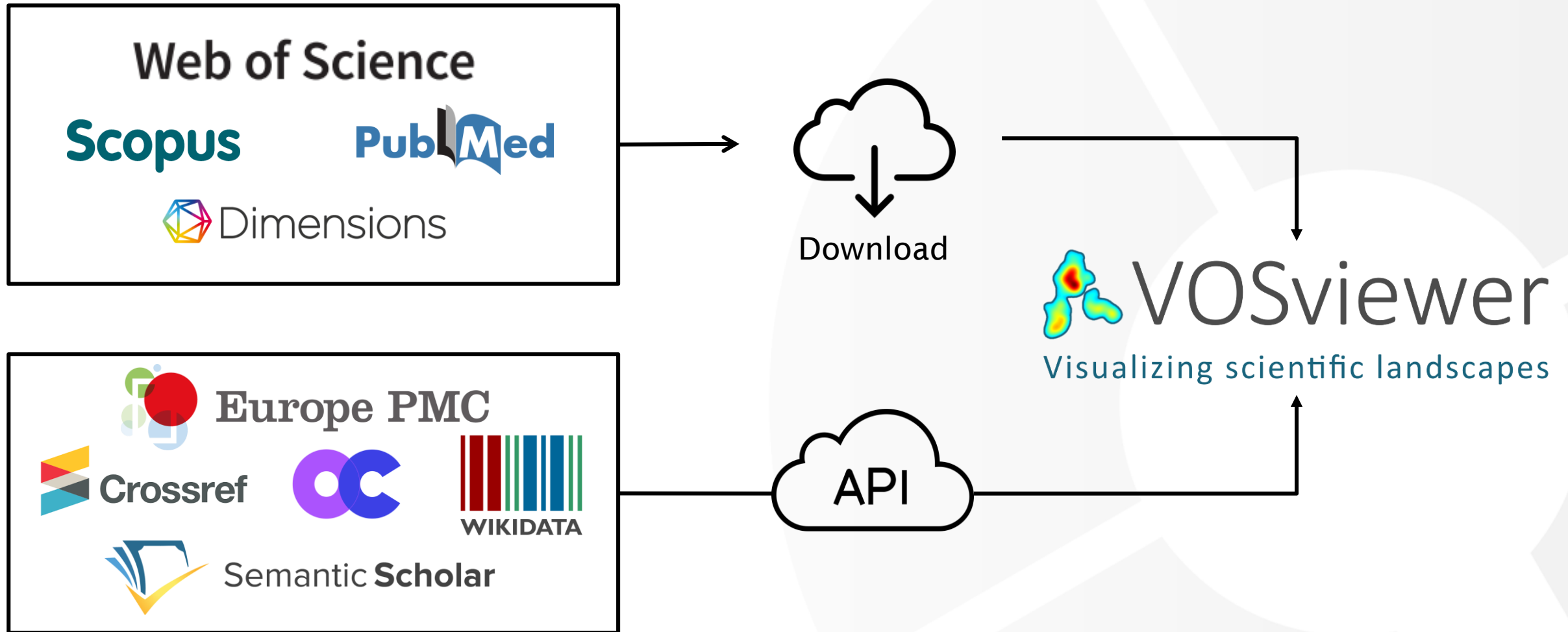


# VOSviewer development






# Data sources





# Data integration

Create Map X

 Specify search query or select files

Search Query DOI JSON

API:  
Crossref

Author:  ORCID:

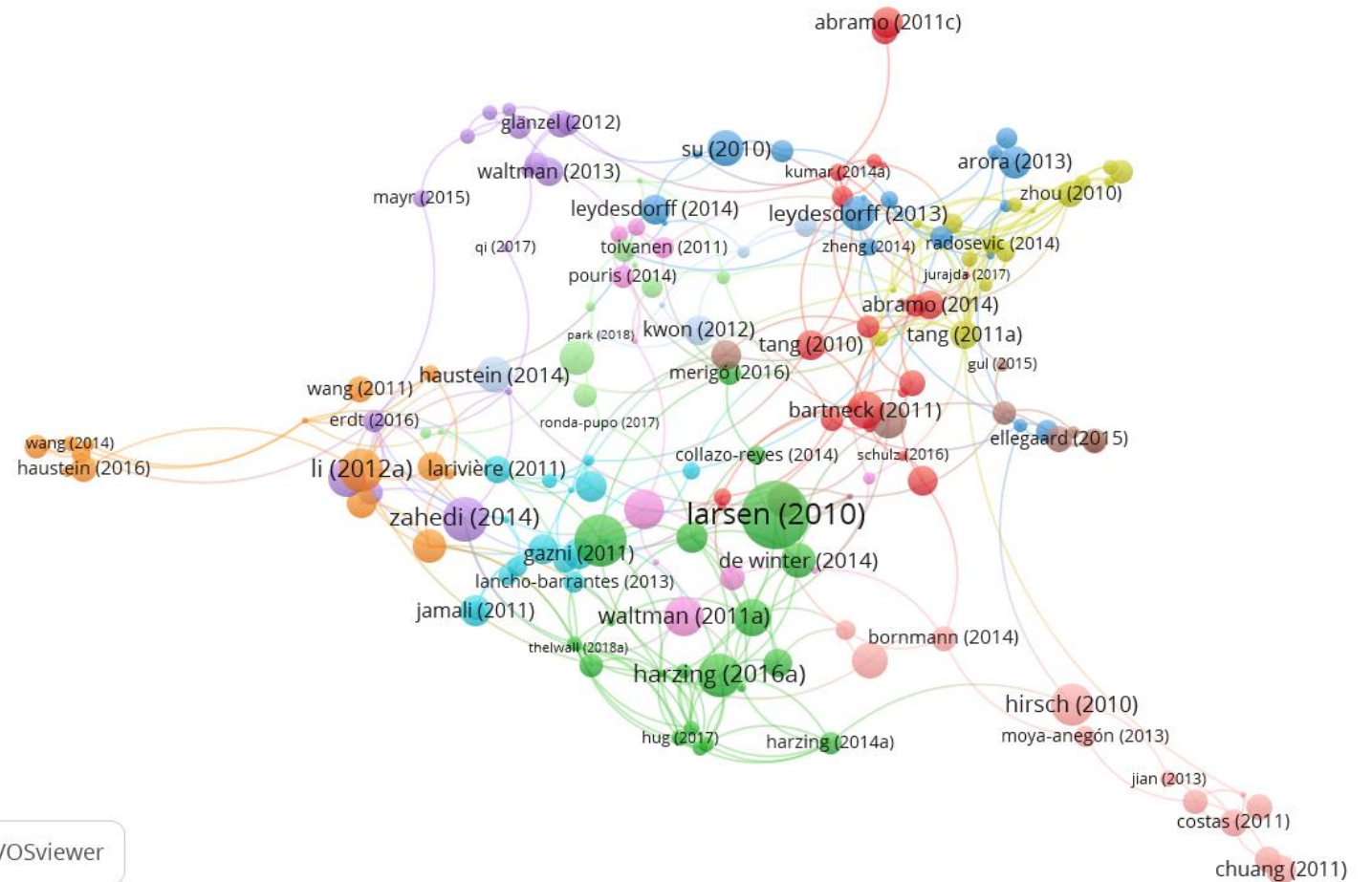
Journal: Scientometrics  ISSN:

Text:  Year: 2010 to 2018

☒ Title only ☐ Title and abstract

JSON file (optional):

< Back Next > Finish Cancel





# Data integration

Create Map

Specify search query or select files

Search Query DOI JSON

API:  
Europe PMC

Author:  ? ORCID:

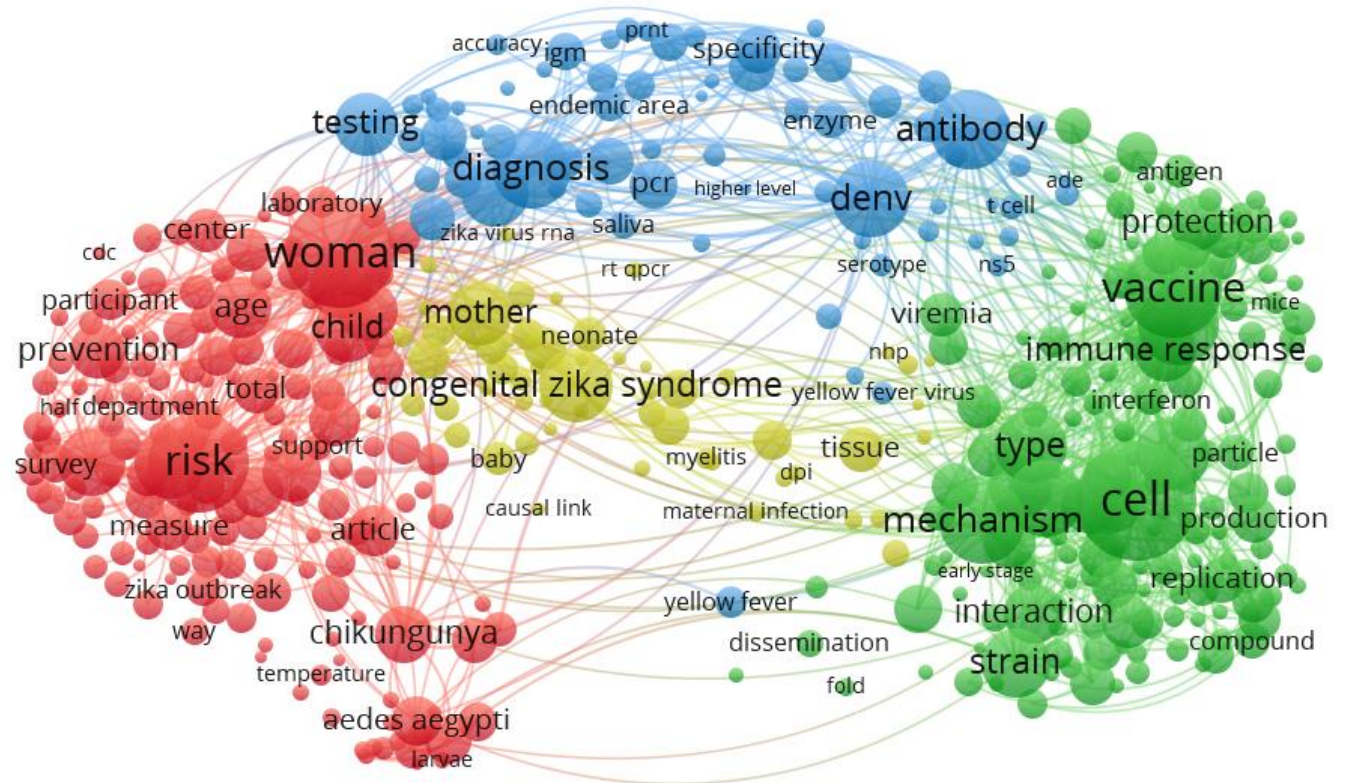
Journal:  ISSN:

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JSON file (optional): ?  ...

< Back Next > Finish Cancel



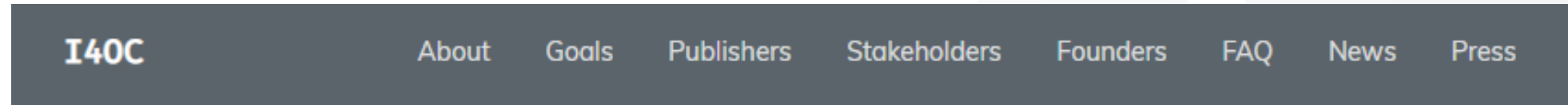


# Wish list

- Expanding coverage of publications (OCC)
- Opening citations (Crossref)
- Opening other metadata, e.g. abstracts (Crossref, OCC)
- Improving quality of metadata (Crossref)
- Improve APIs
  - Add or expand interactive querying (Crossref, Europe PMC, OCC)
  - Speeding up (OCC)



# Availability of open citations in Crossref



How many citations are open today?



As of February 2019, the fraction of publications with open references has grown from 1% to 55% out of 43.2 million articles with references deposited with Crossref.

We encourage all other scholarly publishers to follow the example of these trail-blazing publishers by making their reference metadata publicly available. Please contact Crossref Support ([support@crossref.org](mailto:support@crossref.org)) for more information, or to let them know that you are ready to open up your reference metadata now. See also our list of responses to [frequently asked questions](#).





# Problems with citation data in Crossref



Home > Blog > Underreporting of matched references in Crossref metadata

🕒 4 minute read.

## Underreporting of matched references in Crossref metadata



[Geoffrey Bilder](#) – 2019 February 05  
In [Apis](#), [Citation](#), [Metadata](#)

### TL;DR

About 11% of available references in records in our OAI-PMH & REST API don't have DOIs when they should. We have deployed a fix, but it is running on billions of records, and so we don't expect it to be complete until mid-April.

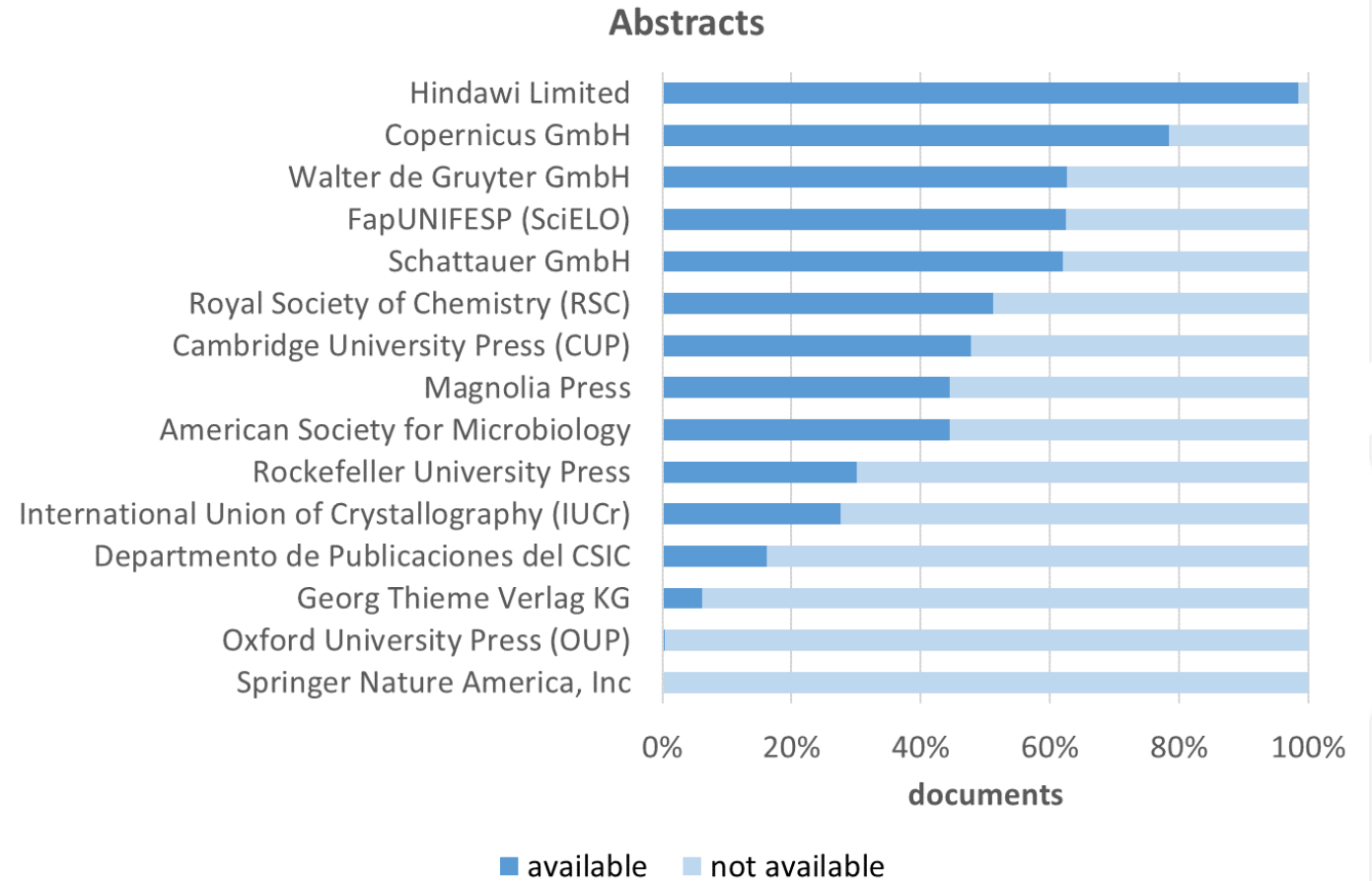
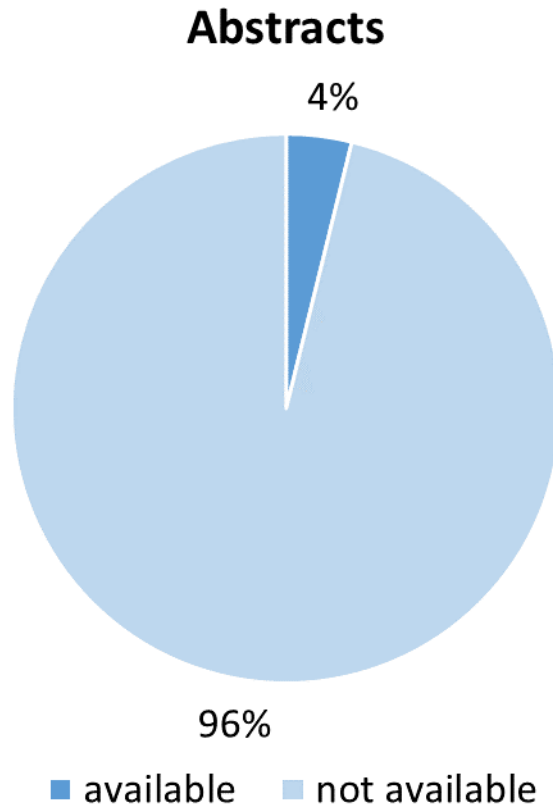
Note that the Cited-by API that our members use appears to be *unaffected* by this problem.

### The gory details

When a Crossref member registers metadata for a publication, they often include references. Sometimes the member will also include DOIs in the references, but often they don't. When they don't include a DOI in the reference, Crossref tries to match the reference to metadata in the Crossref system. If we succeed, we add the DOI of the matched record to the reference metadata. If we fail, we append the reference to an ever-growing list which we re-process on an ongoing basis.

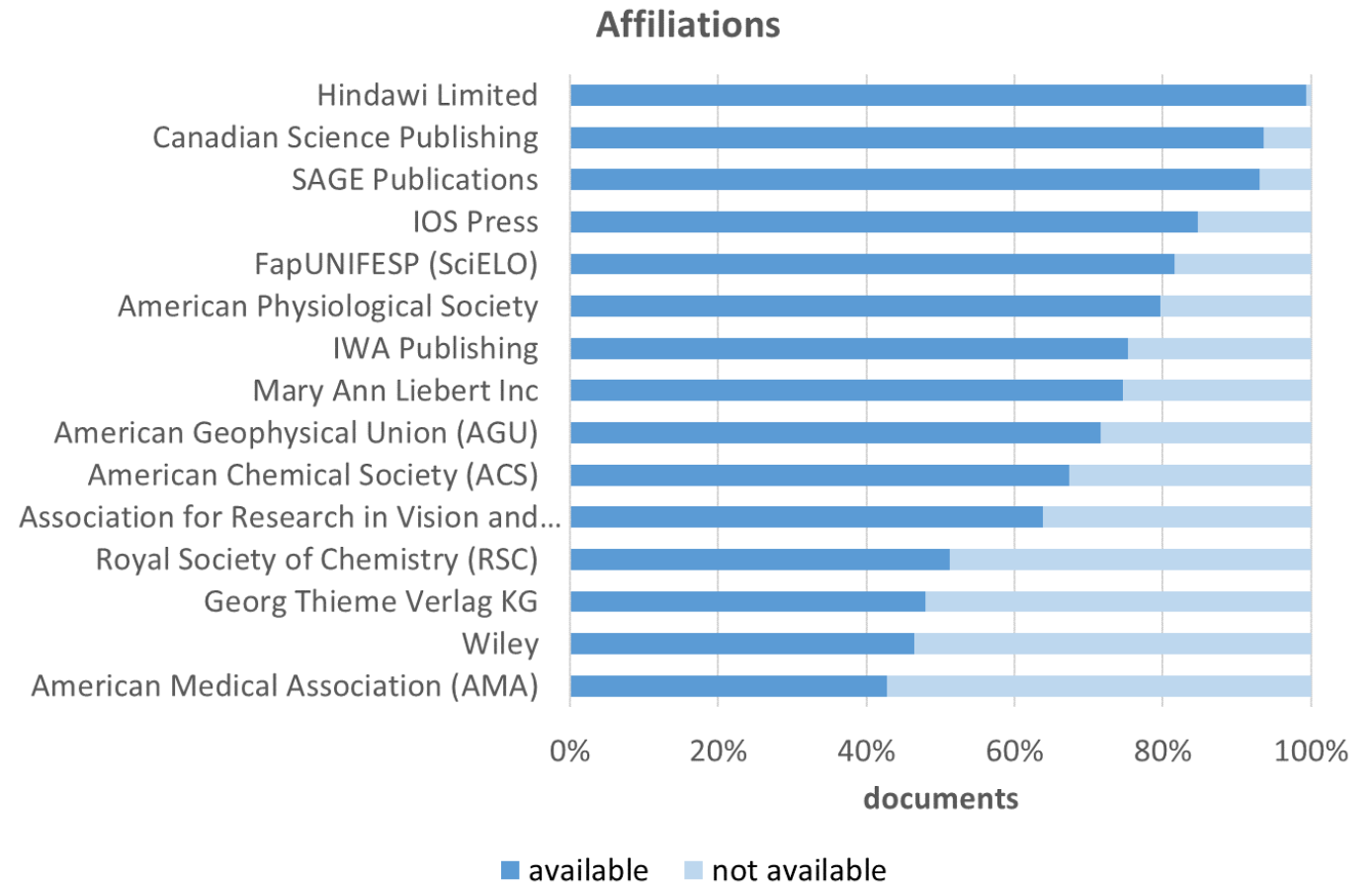
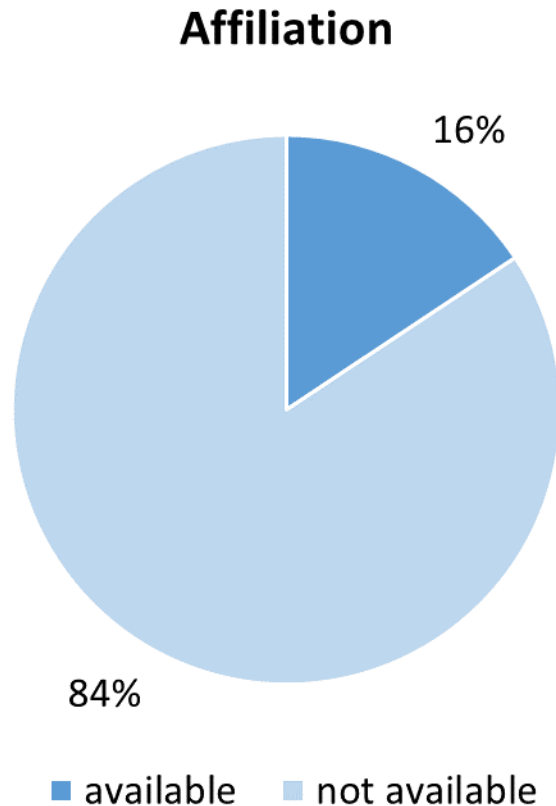


# Availability of abstracts in Crossref (2008-2017)





# Availability of affiliations in Crossref (2008-2017)

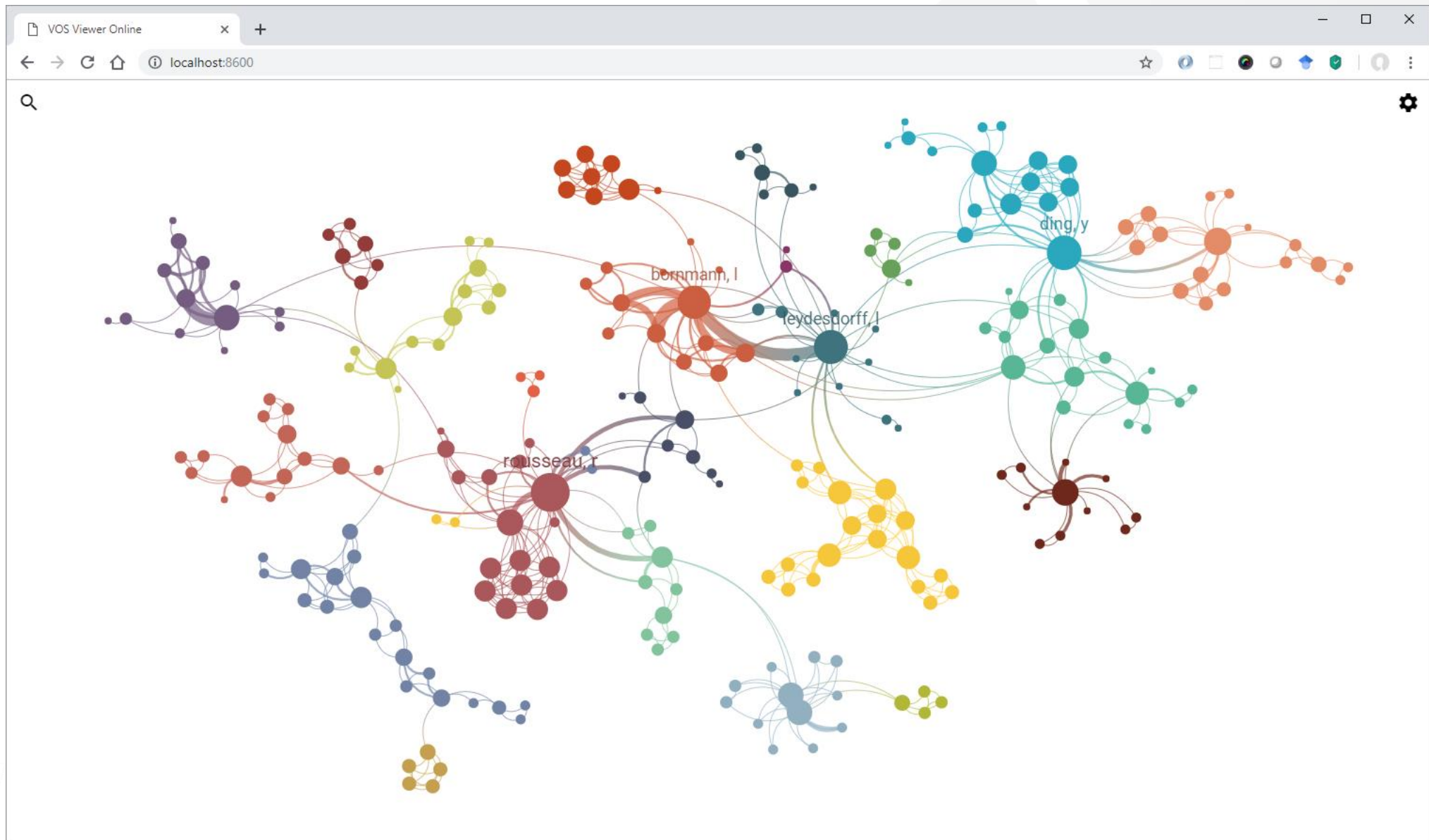




# VOSviewer for the web



# VOSviewer for the web: Sneak preview

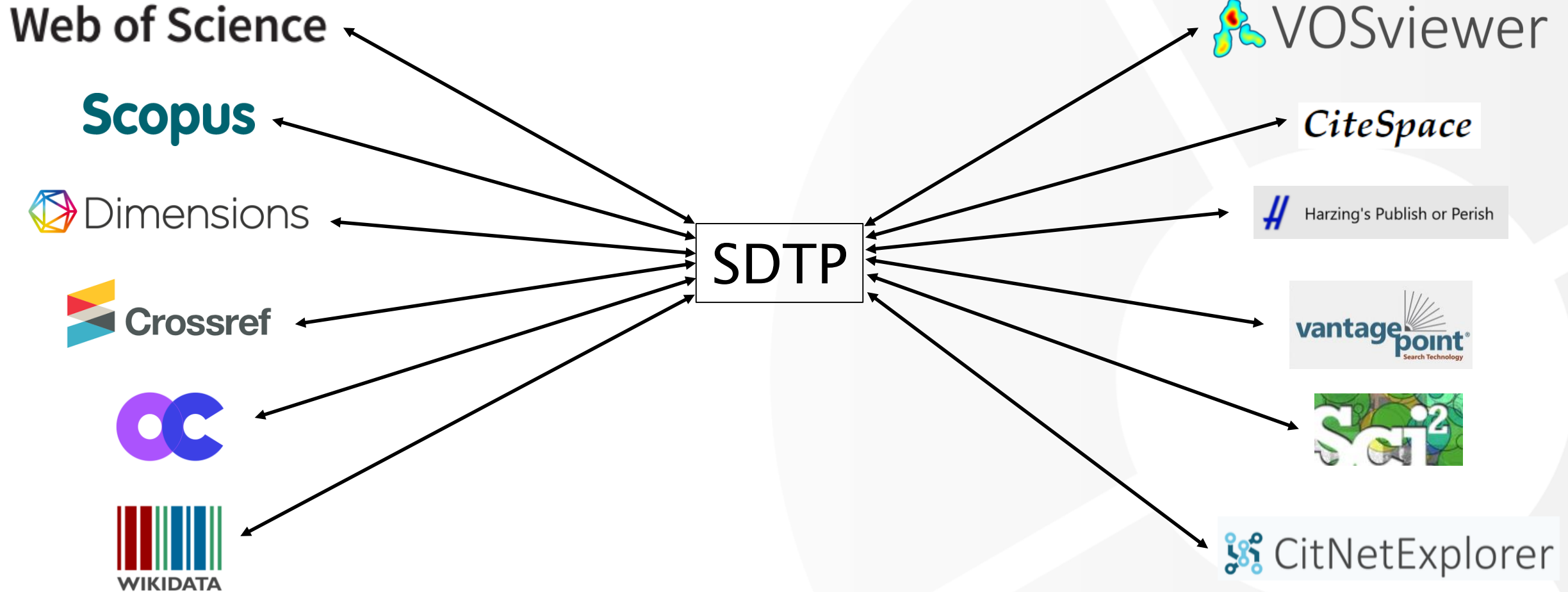




# Looking forward



# Scientometric data transfer protocol (SDTP)





**Thank you for your attention!**