### **From Chaos To Control**

How Dutch university libraries collectively build, manage and use a data warehouse for open access management

#### Arjan Schalken, Program Manager UKB

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# Simple questions, simple answers.... .... If you have the data available!

"What are the costs of APCs in the wild in 2022?"

"S/N claims that the cap in their R&P proposal will cover all our articles, is that true?"

"The uptake of this new R&P deal is less than expected. Are eligible authors publishing outside the deal and should we discus a retrospective OA action with the publisher? Or is there a post covid dip in overall output that explains it all?"

## Added Value UKB Datahub

#### **SITUATION 2019**

- > Limited overview
  - > Experts working in isolation
  - **≻** Decentral
- >Limited insight
  - >Ad-hoc reports
  - **➤**Single sources
- >Limited control
  - **▶** Data quality 'as is'
  - >Status cap 'as is'



- **≻**Better overview
  - > Experts collaborating
  - **≻**Central
- **▶** Better insight
  - > Continues data and reports
  - **≻**Combining sources
- **≻**Better control
  - **➤ Managing Data quality**
  - **≻**Responsive



### **UKB Data Hub: The Team**











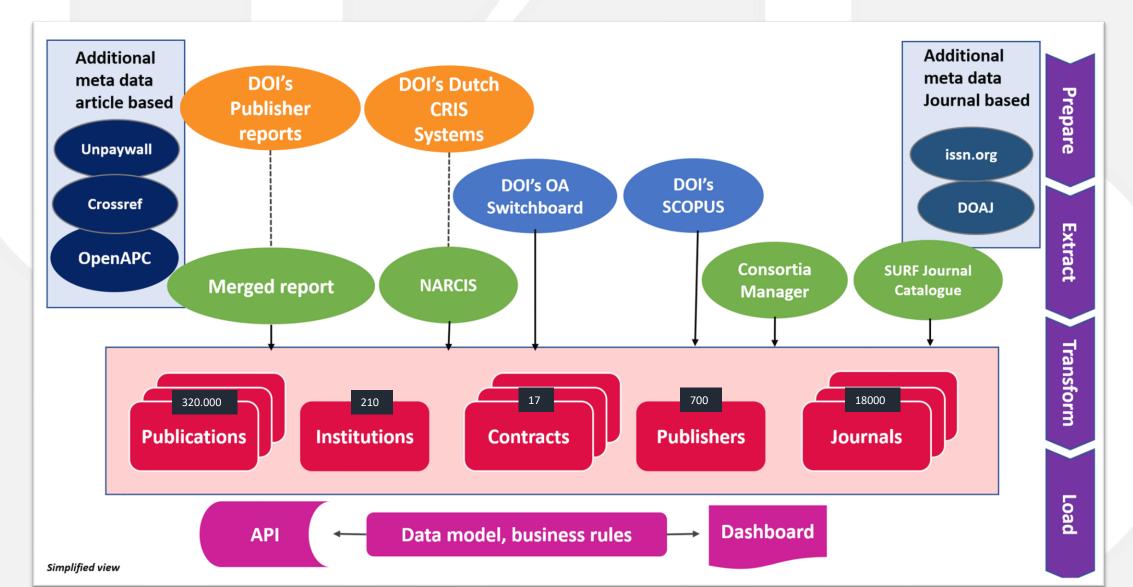


- **Strong participation of university libraries**
- ➤ (Project) management: VU (0.2 fte)
- > Research output expertise: UU, Maastricht, Leiden (0.6 fte)
- > Journal meta data expertise WUR (0.2 fte)
- >IT system management expertise: UU (0.4 fte)
- **▶**BI expertise: VU (0.2 fte, temporary)
- **> Qlik software expertise: TUE / UU (0.3 fte)**

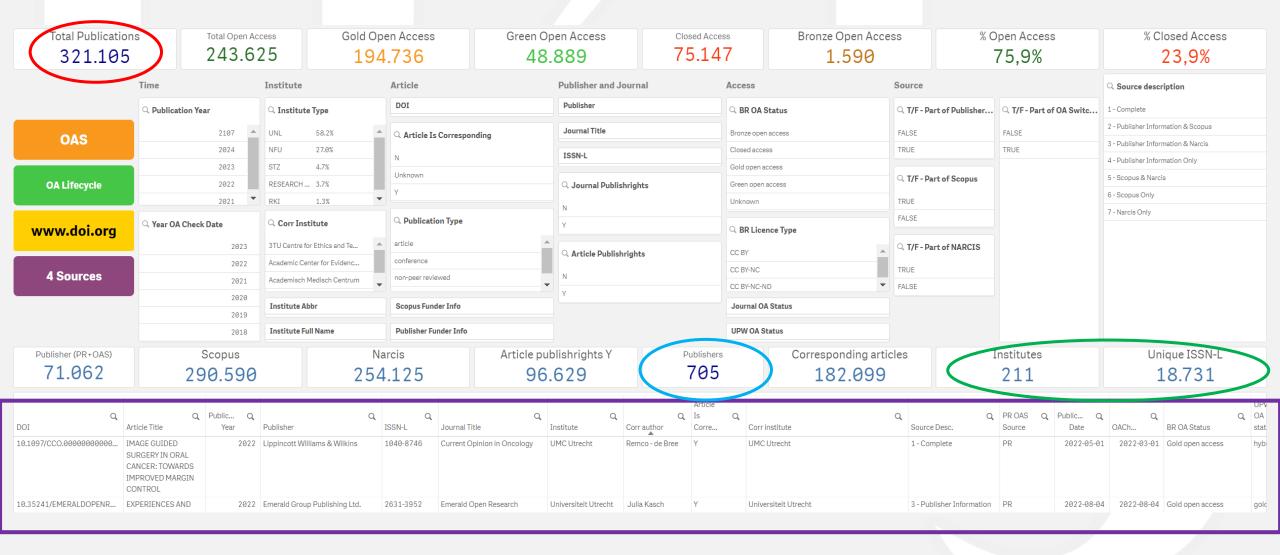
And external expertise (sr level, capacity building for faster development)

- >System development
- **≻**Data retrieval
- **→** Dashboarding

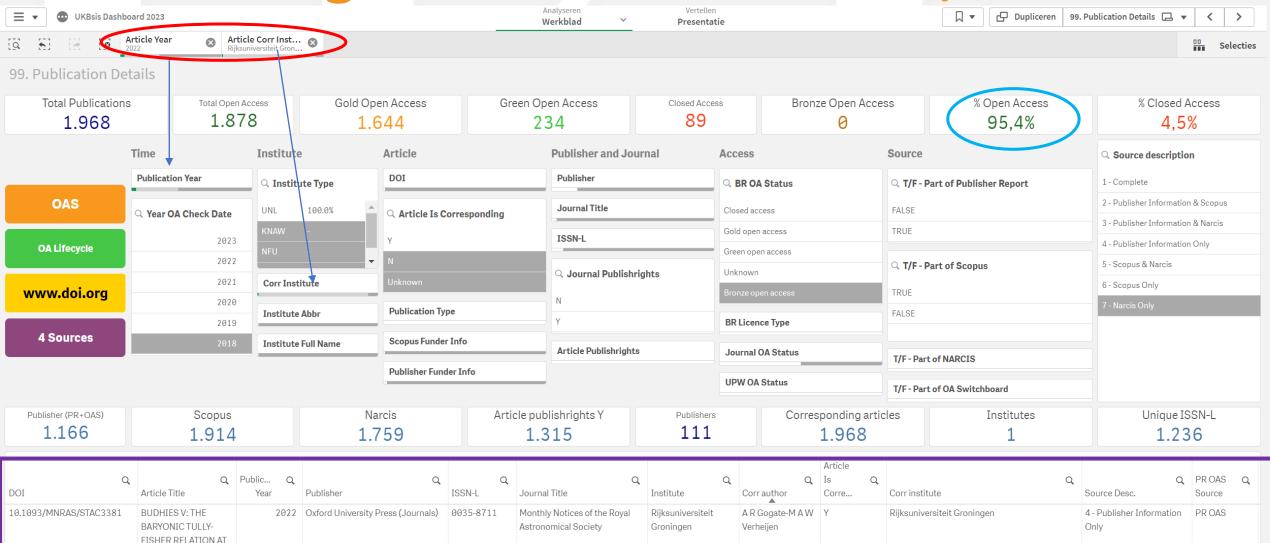
## **UKB Data Hub: Data Model**



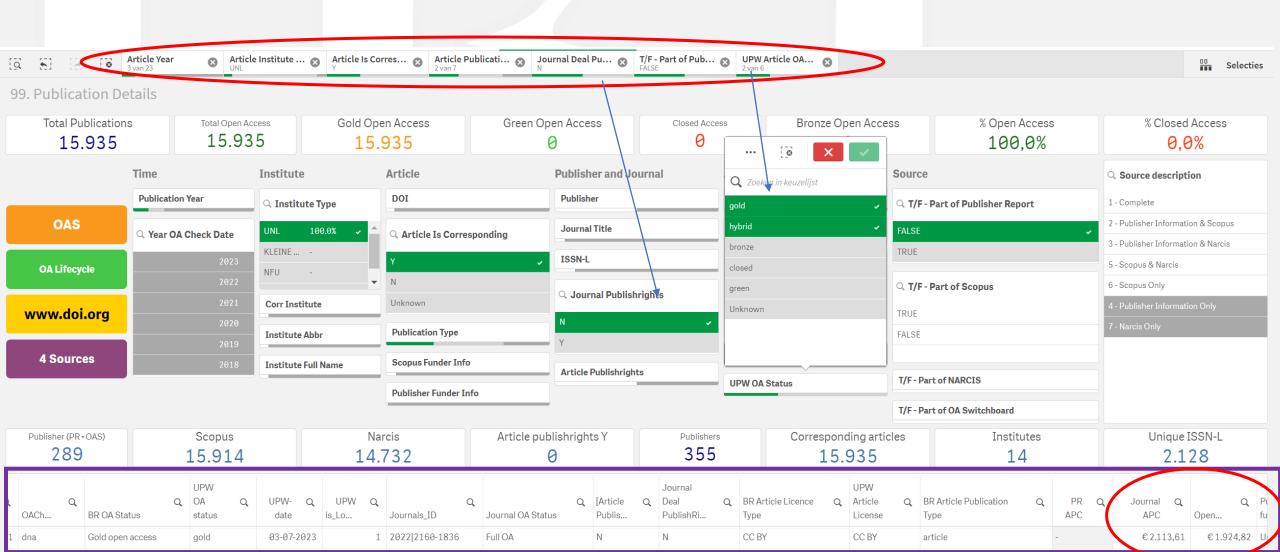
### **UKB Data Hub: General Dashboard**



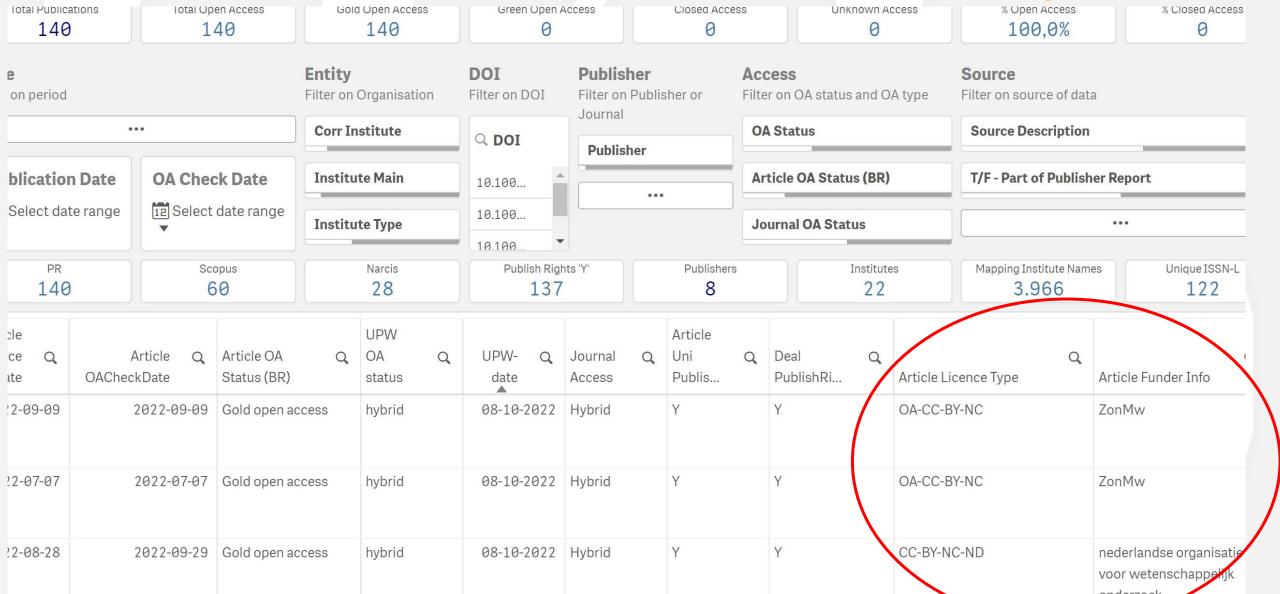
## UKB Data Hub: General Dashboard Zooming In On One Institution, One Year



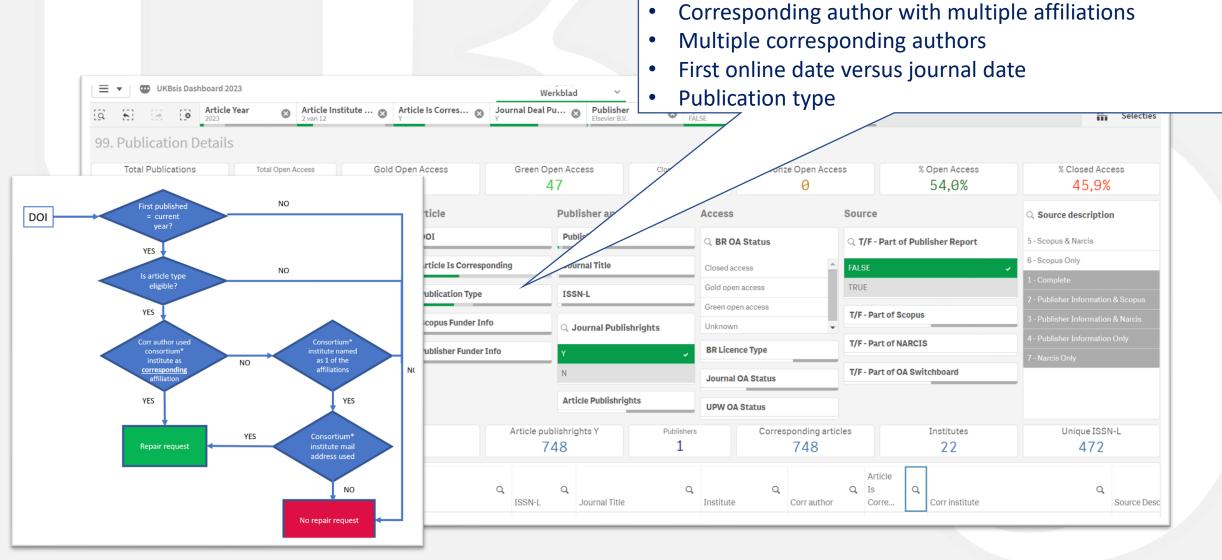
## UKB Data Hub: General Dashboard APC's in the wild for universities 2020-2022



### **UKB Datahub: Filter to Check Non-Compliance**

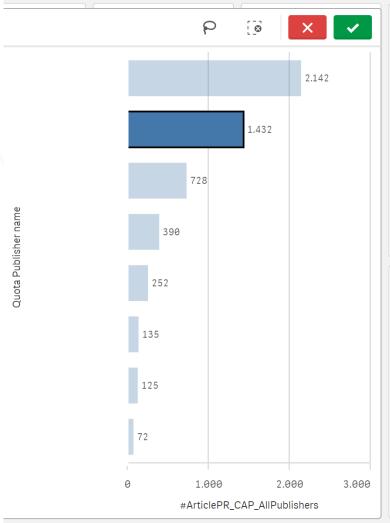


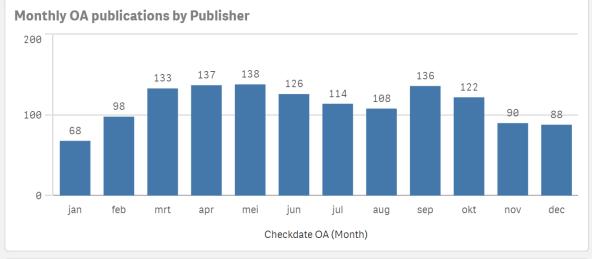
## UKB Data Hub: Potential Missed Open Access Additional manual check needed



## **UKB Data Hub: Cap Dashboard**

Cap Monitoring (CAP Publishers)





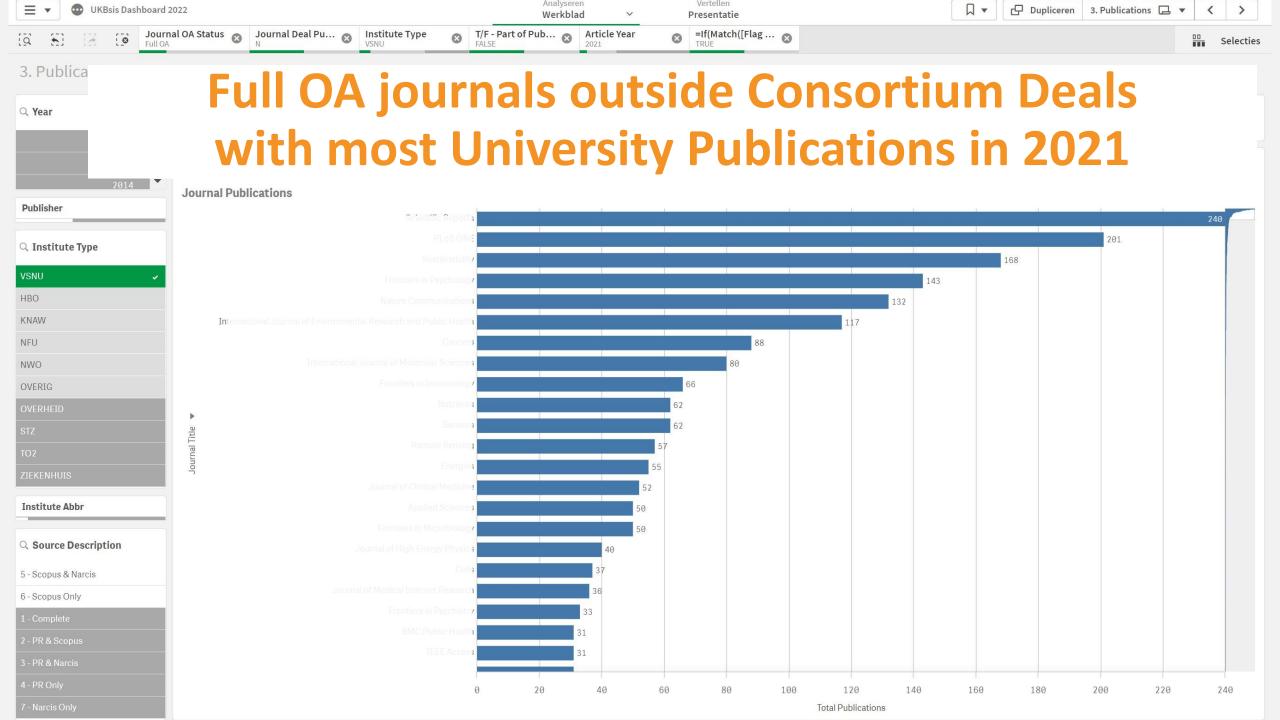




**Select OA Check Date** 

Select date range

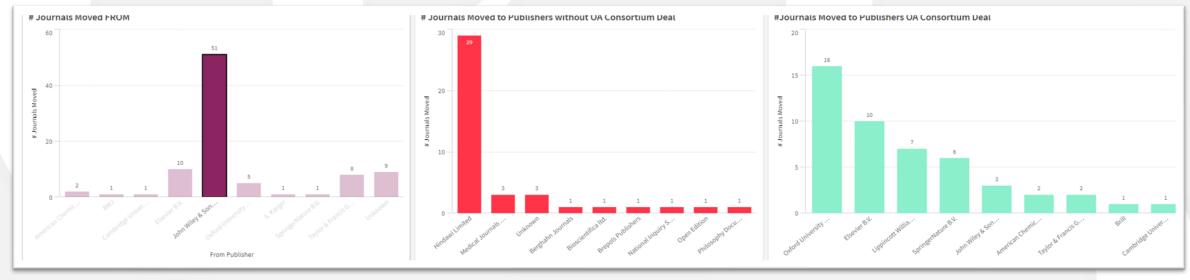


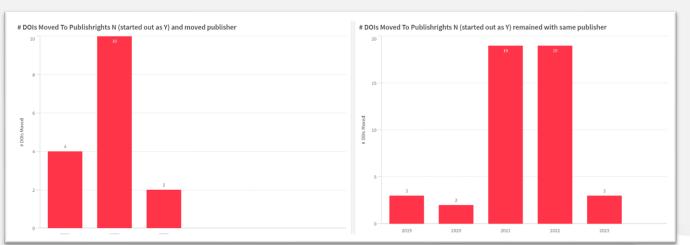


## UKB Data Hub: % journals with publish rights per consortium deal 2018 - 2023

	Publisher 1	Publisher 2	Publisher 3	Publisher 4	Publisher 5	Publisher 6	Publisher 7	Publisher 8	Publisher 9	Publisher 10	Publisher 11	Publisher 12	Publisher 13	Publisher 14	Publisher 15	Publisher16	Publisher 17
2018	85%		23%	67%	20%	52%	52%	<b>/</b>	84%				80%	81%	84%		47%
2019	98%		20%	85%	71%	96%	59%	97%	88%		82%	87%	93%	83%	90%	87%	63%
2020	92%		90%	89%	91%	94%	51%	94%	87%		81%	78%	98%	92%	90%	89%	68%
2021	100%		87%	94%	91%	94%	61%	95%	84%		78%		96%	93%	88%	88%	80%
2022	89%	75%	86%	95%	90%	97%	69%	95%	82%			78%	96%	95%	89%	90%	77%
2023	92%		87%	95%	91%	93%	64%	86%	84%	80%	80%	77%	97%	94%	93%	91%	91%

## **UKB Data Hub: impact portfolio dynamics**





## **UKB Data Hub: Challenges & Solutions**

- ▶ Lack of report standards (Publisher reports) => using own tool to standardize, promoting OASwitchboard
- ➤ No APIs (CCC dashboards, publisher dashboards) => manual processing
- ➤ Need for more PIDs (Organizations, Funders, Publisher) => controlled lists, prefix
- >Stability of data sources (end of Narcis) => additional work (OpenAire)
- ▶ Data quality (UPW OA status, Scopus corr author status) => multiple sources & business rules
- **➢**Overall complexity: Agile development
- ➤ Urgent need for data services from day 1: perpetual beta state. From consortium deals to all publishers, from corresponding articles to all articles, from universities to all research institutes.

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