Paying is not enough

Alexander Wagner Regensburg, 07.10.2024



HELMHOLTZ

Overview



- > Publications in Science
- > Publishing and Libraries
- > Workflow considerations
- openCost from a Workflow Perspective

Role(s) of Publications

- > Exchange ideas
- > Spread knowledge
- > Further communication
- > Claim priority
- > Gain reputation
- > Justify funding
- Evaluate research
- > Make money
- > Mine data

Newton to Hooke, 1676-02-05

"If I have seen further it is by standing on ye shoulders of giants."¹

1 Original: Bernhard von Chartres, ca. 1120



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A Scientists Point of View

- I have to write papers
 ...for people ot read me.
- I have to ensure to get read
 - ...to get cited.
- I have to report my papers
 - ...to get funded.
- I have to get funded ...to do science.

- I have to key in the very same data into
- 1 the preprint submission so people read me early
- 2 the publishers system to make citations count
- 3 the funding application form to finance the publication
- 4 the local repository to ensure broad Open
 Access
- the institutions CRIS system(s) to get the credits
- 6 the universities Bibliography
- 7 the web pages and media etc. to

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the funders evaluation system(s)

Libraries are Service Facilities

Interaction points:

- 3 the funding application form
- 4 the institutional repository
- 5 the local CRIS system
- 6 the university Bibliography
- 7 the web pages and media etc
- interfaces between systems

Reduce manual input!

Reuse data!

Where is the sweet spot?
What is a proper workflow for the whole publishing process?

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3 The Funding Application Form

What happens, if the funding of publication costs is not approved?

The author(s) will

- 1 ...be greatful for our service
- 2 ...not publish
- ...use another venue
- 4 ...happily fill in another form

"Oh, indeed! You're right! n***** is too expensive! I'll publish in some other journal, they'll probably accept it. Just a few more referees and another half a year. Time well spent.

Oh, again funding is not approved?! Well..."

- ...not be amused
- ...find a work around
- 3 ...handle it themselves
- 4 ...waste a lot of time

It is payed anyway, but way more expensive.

We create "APCs in the wild"...



4 The Institutional Repository

- Mints and supplies persistent identifiers
- > Ensures permanent full text access
- > Supports many publication types
- > Complies to funder requirements
- > Feeds to (some) funder reports
- Uses standardized formats / interfaces
- > Allows for easy data-reuse
- > submission ≈ "application form"?

Already holds required data

- > bibliographic description
- administrative data
- > legal data, licences
- full text files
- technical data

Why not...

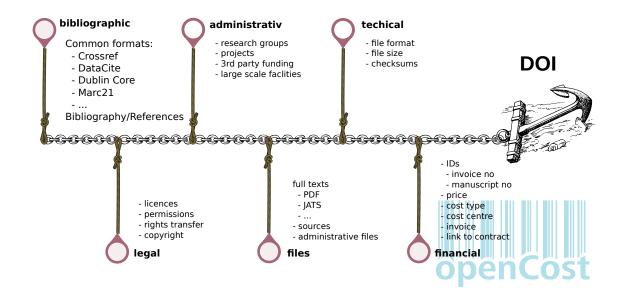
...just add financial data?

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Give me a repository and a persistent ID and...



5 The Local CRIS System / 6 The **Bibliography**

Does it

- ? ...mint and supply persistent ids
- ? ...ensure full text access
- ? ...comply to funder requirements
- ? ...support all relevant publication types
- ? ...supply standardized formats / interfaces

If no, add integration with the repository.

Probably, center the workflow on the repository.

If yes, it holds holds required data.

Why not...

...just add financial data?

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NaN The ILS

- > Allows for easy budgeting
- > Already knows how to handle costs
- > Support all relevant publication types

(all you need are diligent cataloguers)

Does not

- mint and supply persistent IDs
- ensure full text access
- > comply to funder requirements
- allow for easy enhancements
- handle dependent works well

Administrative Tool

Require interfaces to the Repository and/or CRIS system to



The Sweet Spot(s)

- The Repository
- The CRIS system / The Bibliography

(Most likely requires integration with the repository.)

3 The ILS

(Always requires interfaces to feed other systems.)

4 The "Funding Application Form"

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Workflow

Assumption

Every invoice is checked for correctness.

Define,

a central point to handle all publication-related invoices

(Think buying books, just way more expensive...)

2 if and how (internal) cost splitting works
(Allow the library to charge different accounts and cost centres.)

3 the most suitable system from a scientists point of view

(Get out most for them.)

4 Quality of Service

(A journal is called ... Express or ... Letters for a reason.)

...like for any book...



Once an invoice arrives...

- > Check the invoice for correctness
- Create a record (may be preliminary bibliographic data)
- Add cost data to the record
- If a funding application is required: fill it out for your scientists and hand it in
- Add publishers full text (you are about to buy it...)
- Add digital invoice as (private) full text
- > Hand the invoice to financial controling
- Release the record to Open Access

(according the licence just bought)

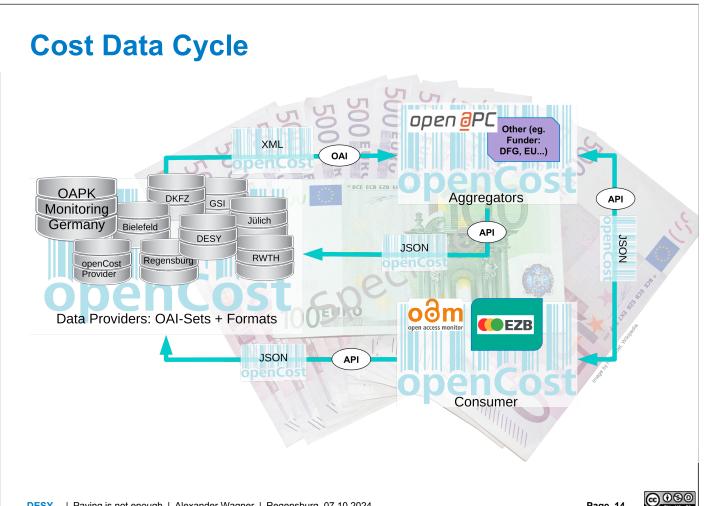
Ensure data is passed on to other systems

(CRIS, web, funders, cost monitoring...)

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Why OAI-PMH?

This interface is ancient and uncool.

"We use REST and JSON these days, not HTTP and XML..."

- Widely established
- Numerous software libraries
- Stood the test of time
- Proven to scale well
- > Format-agnostic
- > Aggregator-agnostic

Who wants the data?

Some aggregator. Probably, some I am not yet aware of...

Minimized technical workload at the data providers.

No neet to write individual code for each service.

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Data Updates

- Corrections (e. g. German classics: 3.000 € **→** 3000 €)
- > Add missing records (e.g. taming APCs)
- > Deleting records
- > Subsequent payments (e. g. DEAL)
- > Refunding (e. g. with prepayments)

OAI ensures to transfer only

- changed records
- new records
- deleted records

It can easily be forced to (re-)retrieve all records.

For aggregators...

...updating of records is seamless and efficient. Data can be transferred frequently and regularly.

Why is openCost defined in XML?

- > embeddable
- > standardized
- > UTF-8 safe
- allows validation

(opencost.xsd)

- used in many processes
- OAI-PMH is defined on XML

openCost uses XML light

- > type/value constructs
- no attributes

openCost-XML allows

easy, unambigious serialization in other formats

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Thank you!

Contact

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