OpenAPC: Reporting and monitoring expenditures for fee-based open access publishing

GenOA week 2022,
Dirk Pieper, Bielefeld UL
Agenda

1. Motivation, aims and principles
2. OpenAPC overview
3. Transformative agreements
4. How to contribute
5. Value proposition and benefits
Motivation

Funders, libraries and authors are afraid of disproportionately cost increases in OA publishing

Need for independent information about price and cost developments

Need for transparent reporting of funded OA publications (bibliographic and cost data)
Aims and principles

Establish cost transparency and comparability, track development of costs over time

Provide data as foundation for policy making in the ongoing OA transition

Maximum of transparency ("open" not only applies to data, but also to code/workflows/history)

High degree of automation, low entry barriers for new participants
Overview (11/2022)

Open Data project, established at Bielefeld University Library in 2014 (funded by DFG, BMBF, OpenAIRE)

Aggregates and normalises data on fee-based OA publishing (APCs, data on transformative agreements, BPCs)

383 institutions, 168,094 OA journal articles, aggregated total APC costs: €323,470,787
Overview (11/2022)

Average payment for articles in full OA journals: € 1.924 (median € 1.776)

Average payment for articles in hybrid journals: € 2,495 (median € 2,458)
Spending distribution over fully and hybrid open access journals (11/2022)
Treemap visualisation of the same data (dimension “journals”)
Transformative agreements

Additional data set and visualisation without cost data

Example DEAL including cost data from data providing institutions in Germany

Due to the complex model special data submission handout for DEAL
How to contribute

Institutions only have to provide a minimal data set

Most bibliographic metadata is enriched by OpenAPC using external services
How to contribute

Participants may provide new data in different ways:

Via e-mail, or by making a pull request on GitHub, or by integrating cost data directly into their institutional repository and letting OpenAPC harvest it.

The Value Proposition Canvas

Service

- Data providers get standardised and reusable bibliographic and cost data for OA publications
- Provides cost transparency and empirical evidence of average costs for OA publications
- Provides information about the usage of journals and publishers for OA publishing
- Institutions get feedback on the quality of data
- Institutions can reuse trempas on their websites
- Funders and library consortia get valid information about the market for OA publications
- OpenApc api helps authors, funders, and libraries to make rational decisions on the market for OA publications

Benefits (what it does)

Features (how it satisfies needs)

- Data aggregation, enrichment, and normalization makes interoperable reporting possible
- Data visualisation via trempas makes data collections accessible
- Raw data downloadable on GitHub makes own analyses possible
- OpencAPC API for automatic analyses
- Simple data format and data delivery

Customer

- Reporting OA publications and costs to institution and funders
- Statistical indicators for the design of OA transformation agreements
- Contribution to the global community for OA cost transparency
- No data about own OA publication output and costs
- Reporting for institutional OA publications and their costs
- Independent information about prices and costs in the OA publication market
- Managing financial costs for OA publications and OA transformation

Experience (why to use it)

Wants (Jobs)

Needs (Gains)

Fears (Pains)
Benefits

Funders and libraries can use OpenAPC to report, which articles have been funded

With every data submission, institutions are getting individual reports about their cost data

Funders, libraries and authors are getting independent information about the market for fee-based OA publishing
Thank you!

https://github.com/OpenAPC/openapc-de

https://treemaps.openapc.net/


https://twitter.com/open_apc