

Metadata connects the global community

A mid-year update



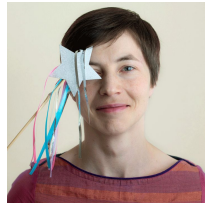
@CrossrefOrg



Agenda

- Highlights since LIVE22
- Integrity of the Scholarly Record
- References and [news](#) about Cited-by
- [Live demo](#) of our Labs participation reports + Q&A
- Metadata priorities
- Q&A/discussion on metadata completeness

Speakers & facilitators



Update since LIVE22



Kora Korzec

**Head of Community Engagement
and Communications**

Membership – what's new?

- Over 1130 new members
- New faces in the Ambassadors program



India
Dr Sumit Narula



Kenya
**Mercury
Shitindo**



Bhutan
Norbu Gyeltshen



Pakistan
Amber Osman



Azerbaijan
Iltifat Ibrahimov



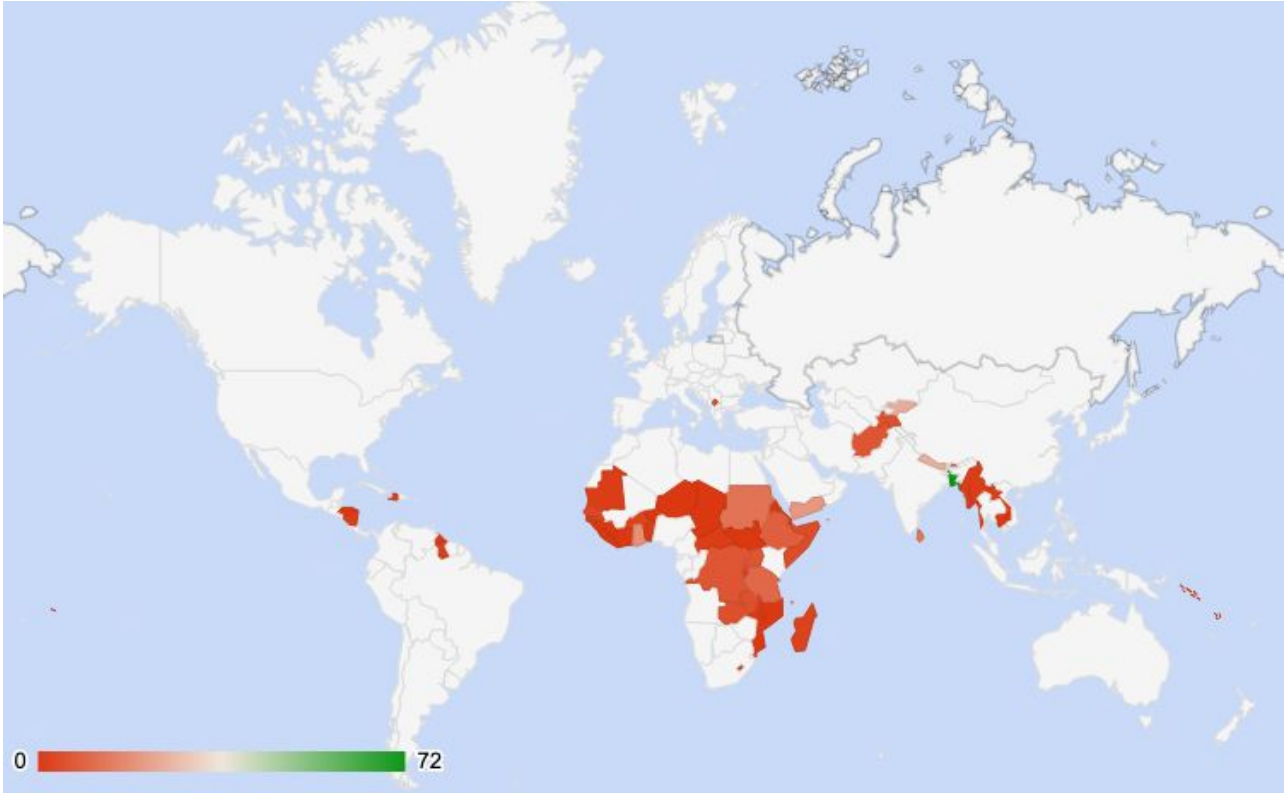
Kazakhstan
**Gulzhaina
Kassymova**



Pakistan
**Dr Muhammad
Subhani**

- 8 new sponsors including our first sponsors in Mongolia, Singapore, and Peru

Global Equitable Membership (GEM)



What is PLACE

The **Publishers Learning And Community Exchange (PLACE)** is an online public forum for organisations who wish to adopt best practices in scholarly publishing. Publishers can access information from multiple agencies in one place, ask questions of the experts and join conversations with each other.



**Publishers Learning &
Community Exchange**

| C | O | P | E |


Crossref

 **DOAJ**



CASPA

Grant registration form

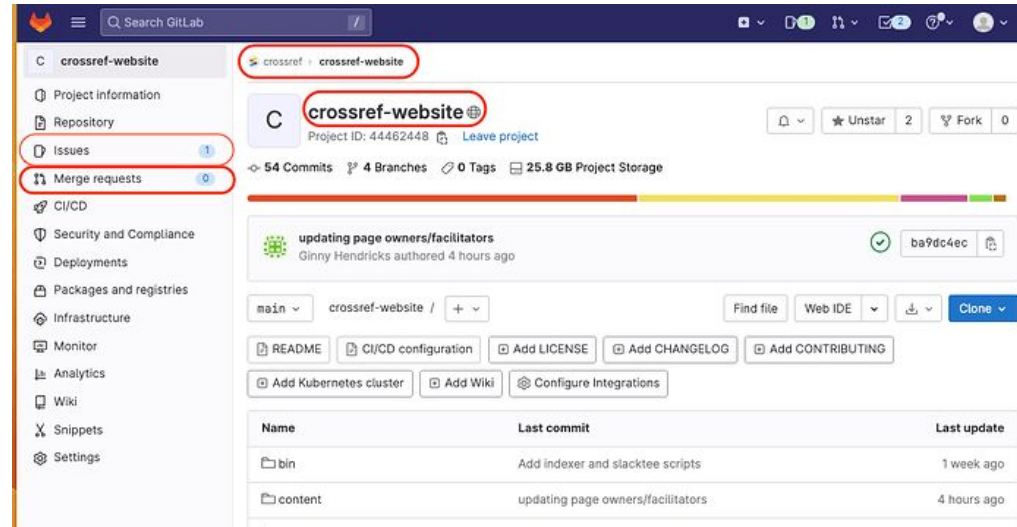
- Facilitates registration of grant metadata, even with no knowledge of XML
- Simple process: complete form, enter your credentials, receive instant confirmation of your submission
- <https://beta.crossref.org/records>
- Next iteration: expand on record types (articles, etc.)

The screenshot displays the 'EDIT RECORD' interface for a grant registration form. The form is titled 'Award20230425.json' and is divided into several sections:

- Depositor Information:** Includes fields for 'Depositor name*' (Sara Bowman) and 'Email address*' (sbowman@crossref.org).
- DOI Resolution:** Includes fields for 'Grant DOI*' (10.5555/234dfa23) and 'Grant landing page URL*' (https://www.crossref.org/awards/20230425).
- Grants metadata:** Includes fields for 'Award number*' (20230425) and 'Award start date (optional)*'.
- Project title*:** A field for entering the project title, currently empty.

Open website

- Moved to an open repository (gitlab.com/crossref/crossref-website).
- Fosters community co-creation (through issues and merge requests).
- Sets the stage for multilingual documentation.
- Supports our POSI promises of transparent ops and open code/data.



Preview of Relationships API endpoint

- Delivers links between metadata records.
- Combines member metadata with Event Data
- Better support for citations, funding data, and online commentary.
- [Preview](#) with sample data (10 million relationships) available now

```
{
  "status": "OK",
  "message-type": "relationship-list",
  "message-version": "1.0.0",
  "message": {
    "total-results": 10295809,
    "items-per-page": 20,
    "relationships": [
      {
        "from-item": {
          "identifiers": [
            {
              "identifier-type": "member",
              "identifier": "https://id.crossref.org/member/311"
            }
          ]
        },
        "to-item": {
          "identifiers": [
            {
              "identifier-type": "ror",
              "identifier": "https://ror.org/02twcfp32"
            }
          ]
        },
        "relationship-type": "member-of"
      }
    ]
  }
}
```



Integrity of the scholarly record

Amanda Bartell
Head of Member Experience

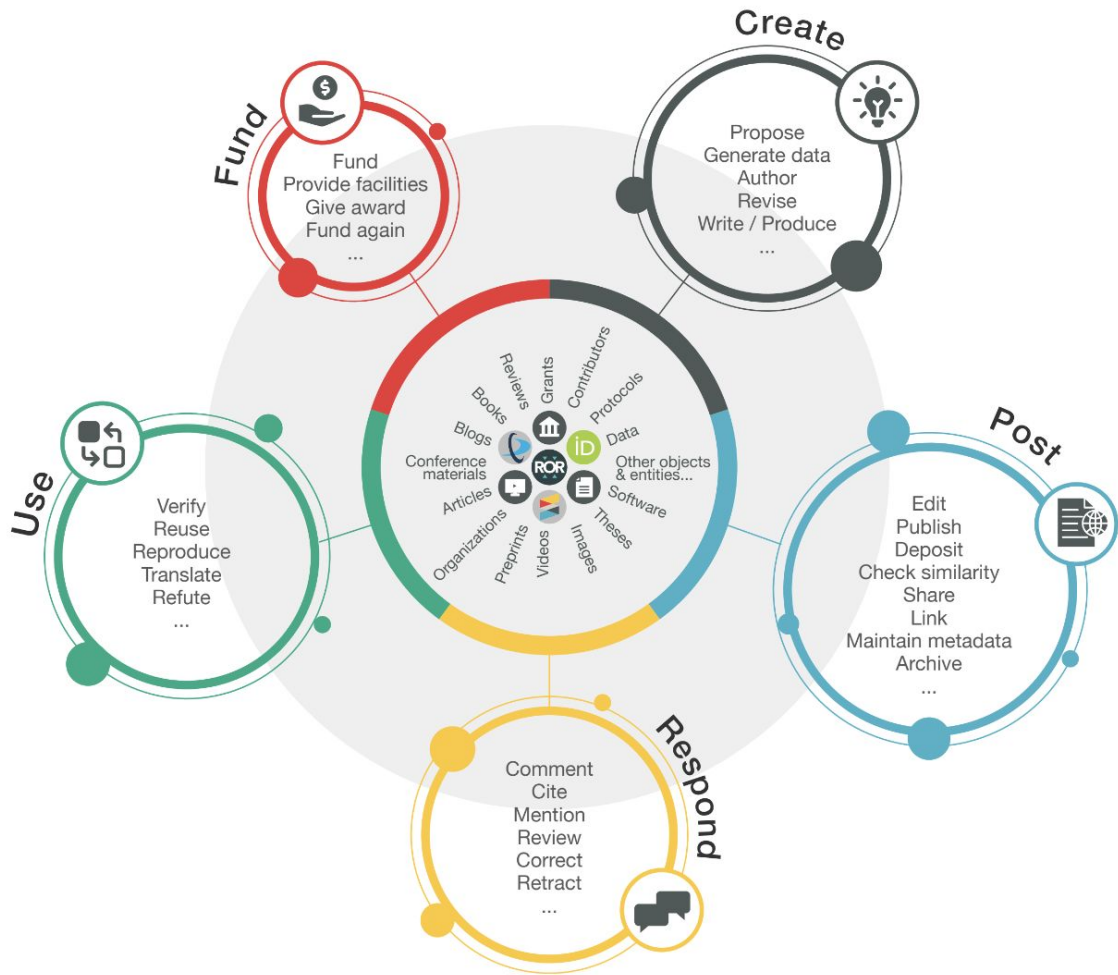


Vision

Like others... we envision

“a rich and reusable open network of relationships connecting research organizations, people, things, and actions; a scholarly record that the global community can build on forever, for the benefit of society.”

Research Nexus vision

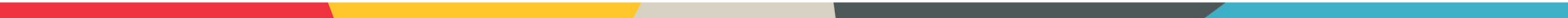


Our role in ISR

Crossref is focused on **enriching metadata** to provide more and better **trust signals** while keeping barriers to **membership and participation as low** as possible to enable an **inclusive scholarly record**.

<https://www.crossref.org/categories/research-integrity/>

What are we hearing from the community?

- It takes a village... and funders are key
 - Increasing informed participation is vital
 - Increased metadata is key - making benefits more visible
 - Defining trust signals and making them visible
 - Importance of retractions/corrections metadata
- 

How can you help - start adding context

- References
- Abstracts
- Corrections & retractions via Crossmark
- License links
- ORCID IDs for authors
- ROR IDs for affiliations
- Grant IDs for funder acknowledgements
- Cite data
- Register all related objects via relationships
- Register grants with Crossref (funder members).



References more important than ever

Martyn Rittman
Product Manager

Reference metadata at Crossref

- All references openly available since June 2022.
- 52.0% of journal articles, 44.5% of all works have references.
- Deposit options:
 - XML via HTTPS POST (structured or unstructured)
 - Simple Text Query (unstructured text)
 - OJS Plugin
- References to your works appear only if you deposit them!

REFERENCES MATTER

5 key benefits of registering your references



Thousands of organizations extract and use them

Researchers are guided to your content

Your research can be: found, cited, linked to, and reused

Helps in evaluation of research

Highlights how research is used

Register your references with Crossref today!

LEARN MORE AT: [BIT.LY/REFERENCES-CROSSREF](https://bit.ly/references-crossref)

Cited-by

- You can get citations!
- Use Cited-by to display them on your website.
- We've made it easier for platforms and vendors to access citations.

O'Hagan, M.P.; Duan, Z.; Huang, F.; Laps, S.; Dong, J.; Xia, F.; Willner, I. Photocleavable O₆ Protected DNA Architectures and Their Applications. *Chemical Reviews* **2023**, acs.chemrev.

Farooq, T.; Sohail, M.; Shah, S.A.; Mahmood, A.; Mohammad Qalawus, A.H.; Rehman Kast Colloidal curcumin-laden pH-responsive hydrogels: A promising approach to enhance solubility and permeation of hydrophobic drug. *Journal of Drug Delivery Science and Technology* **2023**, 84

Mirek, A.; Belaid, H.; Bartkowiak, A.; Barranger, F.; Salmeron, F.; Kajdan, M.; Grzeczkwicz, Lewińska, D.; Bechelany, M. Gelatin methacrylate hydrogel with drug-loaded polymer micro-structures for 3D bioprinting. *Biomaterials Advances* **2023**, 213436. [CrossRef]

Lei, I.M.; Zhang, D.; Gu, W.; Liu, J.; Zi, Y.; Huang, Y.Y.S. Soft Hydrogel Shapeability via Supramolecular 3D Printing. *Advanced Materials Technologies* **2023**, 2300001. [CrossRef]

de Campos, B.A.; da Silva, N.C.B.; Moda, L.S.; Vidinha, P.; Maia-Obi, L.P. pH-Sensitive Degradable Crosslinked Hyperbranched Polyglycerol Hydrogel for Controlled Drug Release. *Polymers* **2023**, 15, 1798. [CrossRef] [Open Access](#) on [mdpi.com](#)

Ullah, I.; Farooq, A.S.; Naz, I.; Ahmad, W.; Ullah, H.; Sehar, S.; Nawaz, A. Fabrication of Polylactide Nanoparticles Containing Esomeprazole for Oral Delivery: In Vitro and In Vivo Pharmacokinetic Characterization. *Polymers* **2023**, 15, 1798. [CrossRef] [Open Access](#) on [mdpi.com](#)

Xu, D.; Zhao, X.; Mahsa, G.C.; Ma, K.; Zhang, C.; Rui, X.; Dong, M.; Li, W. Controlled release of doxorubicin by colon-targeted adhesive pectin microspheres: Effects of pectin methyl esterification. *Carbohydrate Polymers* **2023**, 313, 120874. [CrossRef]

Huang, X.; Lee, C.-S.; Zhang, K.; Alhamzani, A.G.; Hsiao, B.S. Sodium Alginate–Aldehyde Composite Hydrogel for Doxycycline and Other Tetracycline Removal. *Nanomaterials* **2023**, 13, 1543. [CrossRef] [Open Access](#) on [mdpi.com](#)

Hoti, G.; Ferrero, R.; Caldera, F.; Trotta, F.; Como, M.; Pantaleone, S.; Desoky, M.M.H.; Bruni, C. Molecularly Imprinted and Non-Molecularly Imprinted Cyclodextrin-Based Nanoparticles for the Transdermal Delivery of Melatonin. *Polymers* **2023**, 15, 1543. [CrossRef] [Open Access](#) on [mdpi.com](#)

Merino-Gómez, M.; Godoy-Gallardo, M.; Wendner, M.; Mateos-Timoneda, M.A.; Gil, F.J.; Pe

Now more than ever you will
benefit from reference metadata!



R&D: participation report

**Rachael Lammey
Director of Product**

Useful links

- Go and explore: prep.labs.crossref.org
- And give us feedback:
gitlab.com/crossref/labs/crossref-labs-reports/-/issues

Q&A

Please ask your questions about the participation reports **in the Q&A** or **raise your hand** and we'll unmute you



Metadata priorities



Patricia Feeney
Head of Metadata

metadata trends



144,415,024
records

What's new:

ROR:

- 193 members registering
- 49,951 records with ROR IDs

19,727,347 records with abstracts

64,275,131 records with references

76,759 grant records

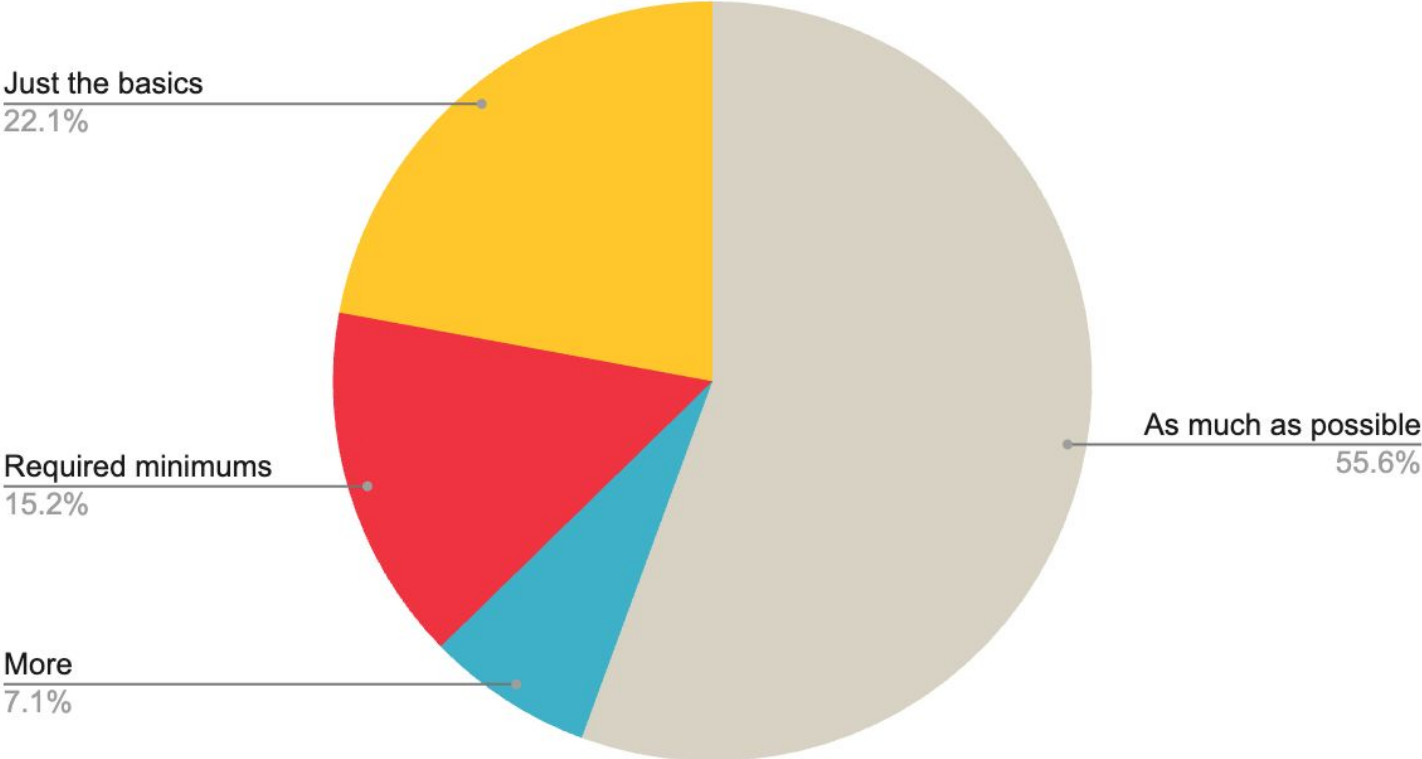
2,632,398 dataset records

(preliminary) survey results

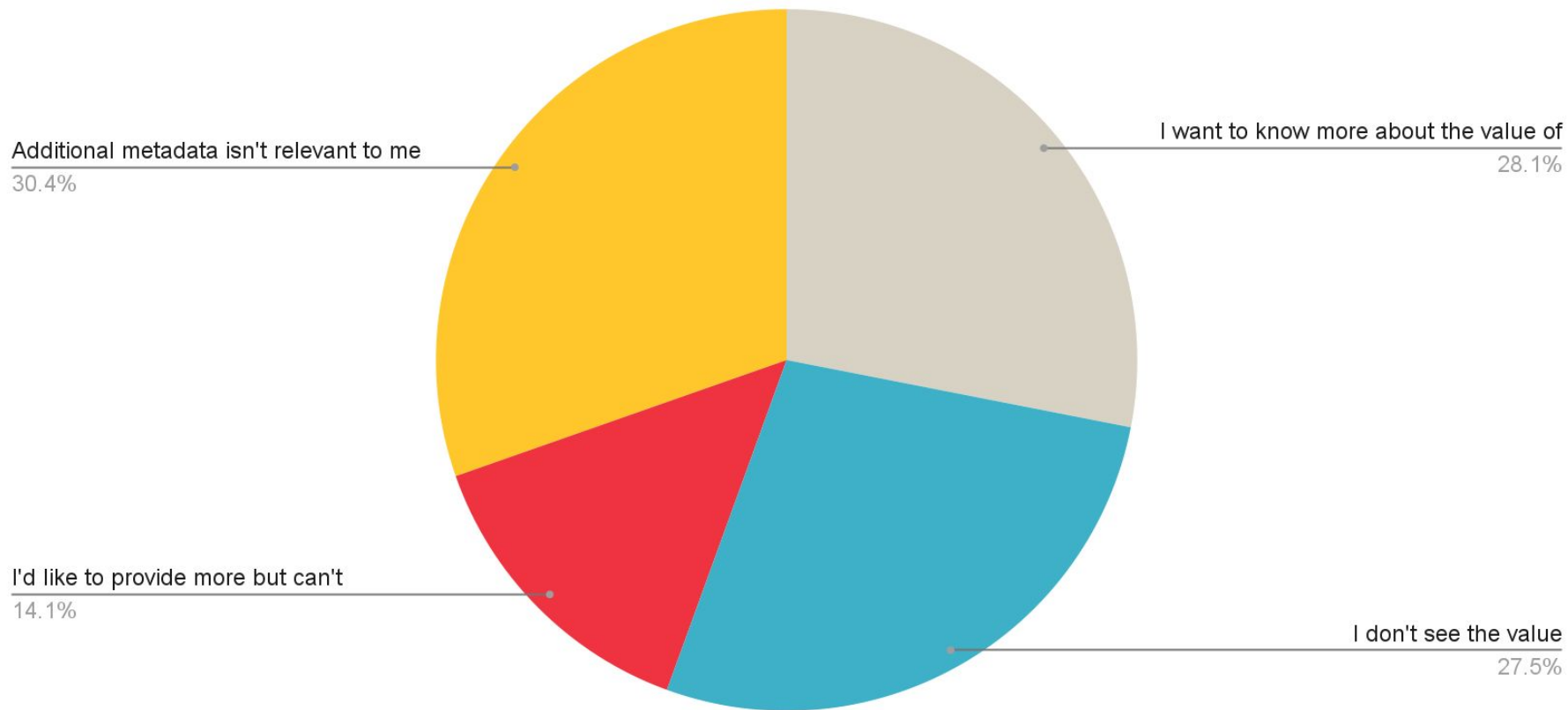


- Sent to all members, 921 responses so far
- Gauge readiness and interest in new metadata projects
 - Projects don't include grant or preprint projects as those have been discussed within working groups
- Open through May 18

What do you register?



Why basics?

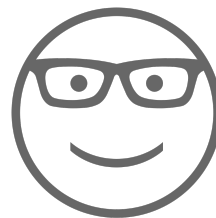


Projects (very preliminary!)

- Contributor IDs
- Contributor roles/ CRediT
- Alternate names
- Multilingual metadata
- Expand abstract support
- Citation types (content)
- Conference event IDs

Will you do this?

- **Yes!**
- **Yes if my service provider supports it**
- **Maybe**
- **No**
- **Not sure**





most enthusiastic: citation types

- ★ runners up: multilingual metadata, expand abstract support



most clear 'yes': citation types

- ★ runners up: expand abstract support, multilingual metadata



most 'no' responses: conference event identifiers

- ★ runners up: multilingual metadata, expand abstract support

Other suggestions

New record types: maps, OER / undergraduate capstone papers / Research Reports from Master students / zines / book reviews / multimedia projects / comics / films / songs and music / performances / teaching materials / magazines / annual presentations / design, architecture, all humanities related objects / datasets / replication packages / supplemental materials to papers / videos / dynamic data visualizations (e.g. Tableau) / research modules

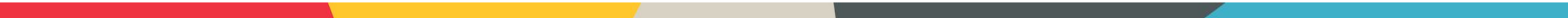
Identifiers: GND Person identifier for Austria, Germany and Switzerland / RAiD / Metadata identifiers related to music compositions (composer, genre, etc.)

Expand metadata: peer review info / contributor sequencing / geographical location and time period / author middle names / subjects / THEMA codes / digital preservation status / corresponding author / keywords / open access indicators / elocation ID



keywords

Other things on our radar

- ★ Statements: data availability, acknowledgements, etc.
 - ★ Journal metadata: policies, editorial boards
 - ★ Versioning
 - ★ Preprints
 - ★ Grants/funding data updates
- 



Questions and reflections on metadata completeness

Kora Korzec

How to take part?

Use the Q&A box to ask your questions

AND

Share your reflections about metadata completeness:

- Good examples
- Barriers and challenges
- Opportunities and ideas

To contribute – please raise a hand or share in the chat



Thank you

- Mastodon: [@crossref@mastodon.online](https://mastodon.online/@crossref)
- Twitter: [@CrossrefOrg](https://twitter.com/CrossrefOrg)
- What are we thinking about: crossref.org/blog
- Conversations: community.crossref.org
- Get in touch: feedback@crossref.org
- Newsletter: Click “Get email updates” in website footer