Invest in Open Infrastructure

Vital open infrastructures in a volatile moment

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CNI Project Briefing

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What do we mean by Open Infrastructure?

Infrastructure
The services, protocols, standards or softwares that the research ecosystem needs in order to perform its functions throughout the research lifecycle.

Open
The sets of services, protocols, standards and software that can empower communities to collectively build the systems and infrastructures that deliver new improved collective benefits without restrictions, and for a healthy global interrelated infrastructure system.

Focus on services that are open-source, distribute open access content, are free to use, are community-governed, and/or are non-commercial.

Main page | Discussion | Read | View source | View history | Search COPTR

Main Page

COPTR Home
Community Owned Workflows
Recent changes

Find tools
Tools grid
By lifecycle stage
By function
By content type
By file format
All tools

Help
About COPTR
Video guides to using COPTR
Mediawiki help
Wikitext cheat sheet
COPTR data structures

Tools
What links here
Related changes

Community Owned digital Preservation Tool Registry (COPTR)

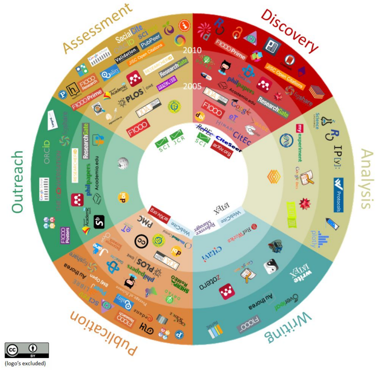
COPTR helps practitioners find tools needed for long term digital preservation tasks. It describes 610 tools and 36 workflows.

- Find a digital preservation tool using the **Tools Grid** (or by stage, function, content type or file format). Or watch this video to learn more.
- View digital preservation workflows
- Add a tool, or find out more about how you can get involved
- Add a workflow
- About COPTR, including how to Contact Us, how COPTR is structured and how to access COPTR data via the API.

NEW FOR JULY 2021: COPTR has been re-launched with new functionality. Find out all about it in this video presentation.

How many? Too many?

Components of the Shared Infrastructure



Search & Compare | About Infra Finder | Add an Open Infrastructure | Give Feedback | Support Infra Finder

Share | Copy Link

Infra Finder: Discover open infrastructures that meet your needs

Search | 104 Solutions | Sort by: Last Updated

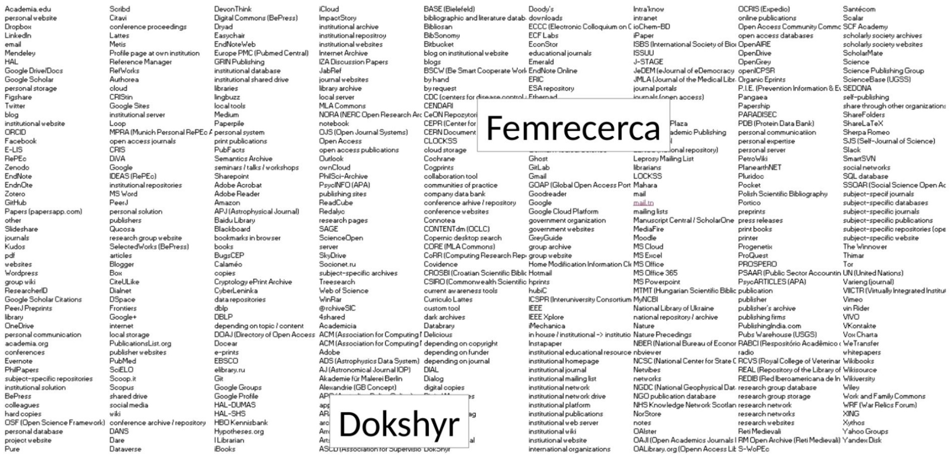
Filters
Clear All | Update Results
Solution Category
Open Attributes
Technical Attributes
Community Engagement
Policies
Business or Organizational Model
Hosting Options
Location
Anywhere

JHOVE
Open Preservation Foundation
United Kingdom of Great Britain and Northern Ireland
JHOVE (the JSTOR/Harvard Object Validation Environment, pronounced "jove") is an extensible software framework for performing format identification, validation, and characterization of digital objects. Forma...
Computing library
Digital preservation tool
Open API
Learn More | Compare

RePEc
RePEc
Open bibliography for economics and connex sciences. Author authority provider. Citation analysis. Preprint dissemination. Institution authority provider. And more.
Discovery system
Index or directory
Open API
Learn More | Compare

OpenCitations

Thoth Open Metadata



We see this as an urgent moment for planning towards potential scenarios in which funding and institutional support for "open" initiatives, including volunteer time and bandwidth, are likely to quickly decline.

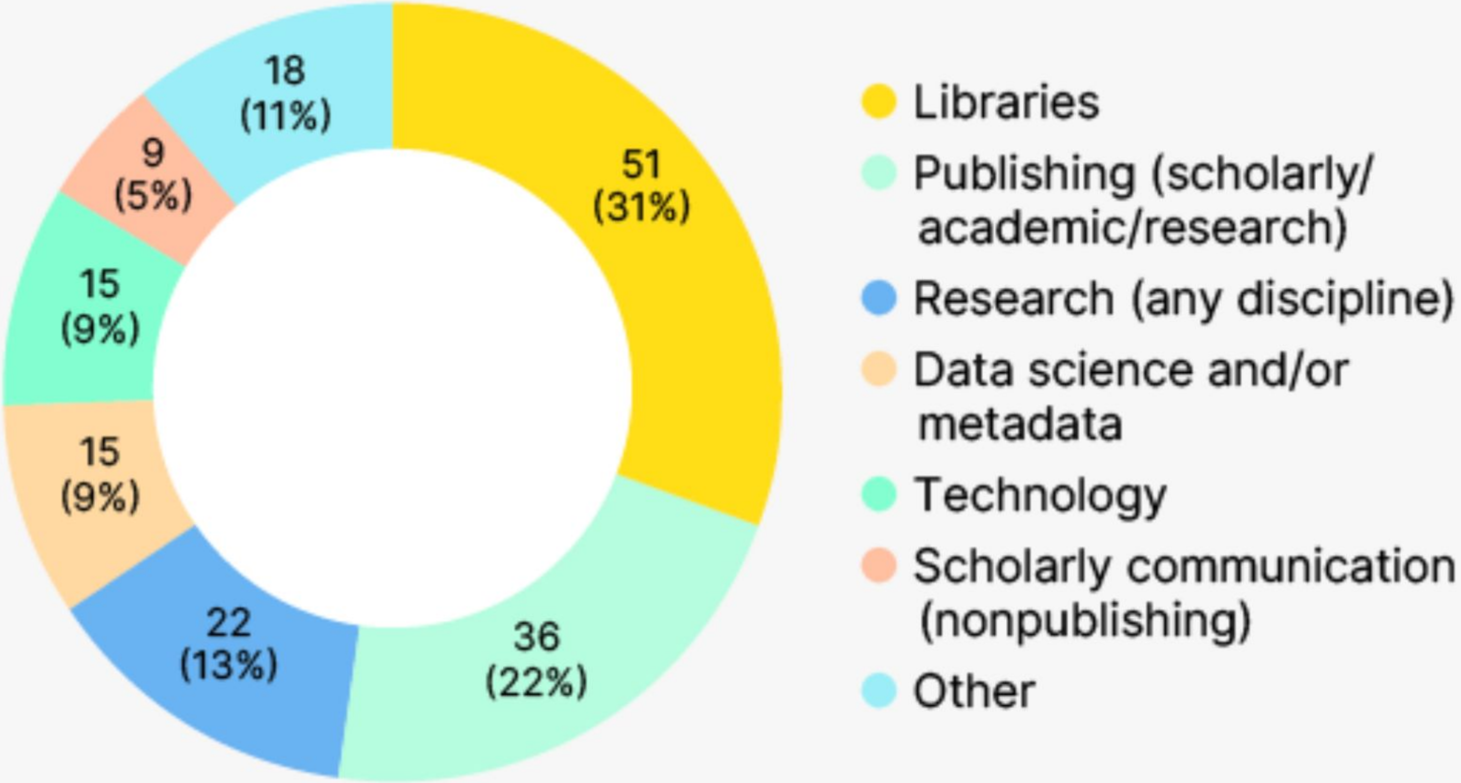
How do we understand which open infrastructures are at risk?

How do we know or choose which ones to focus on stabilizing?

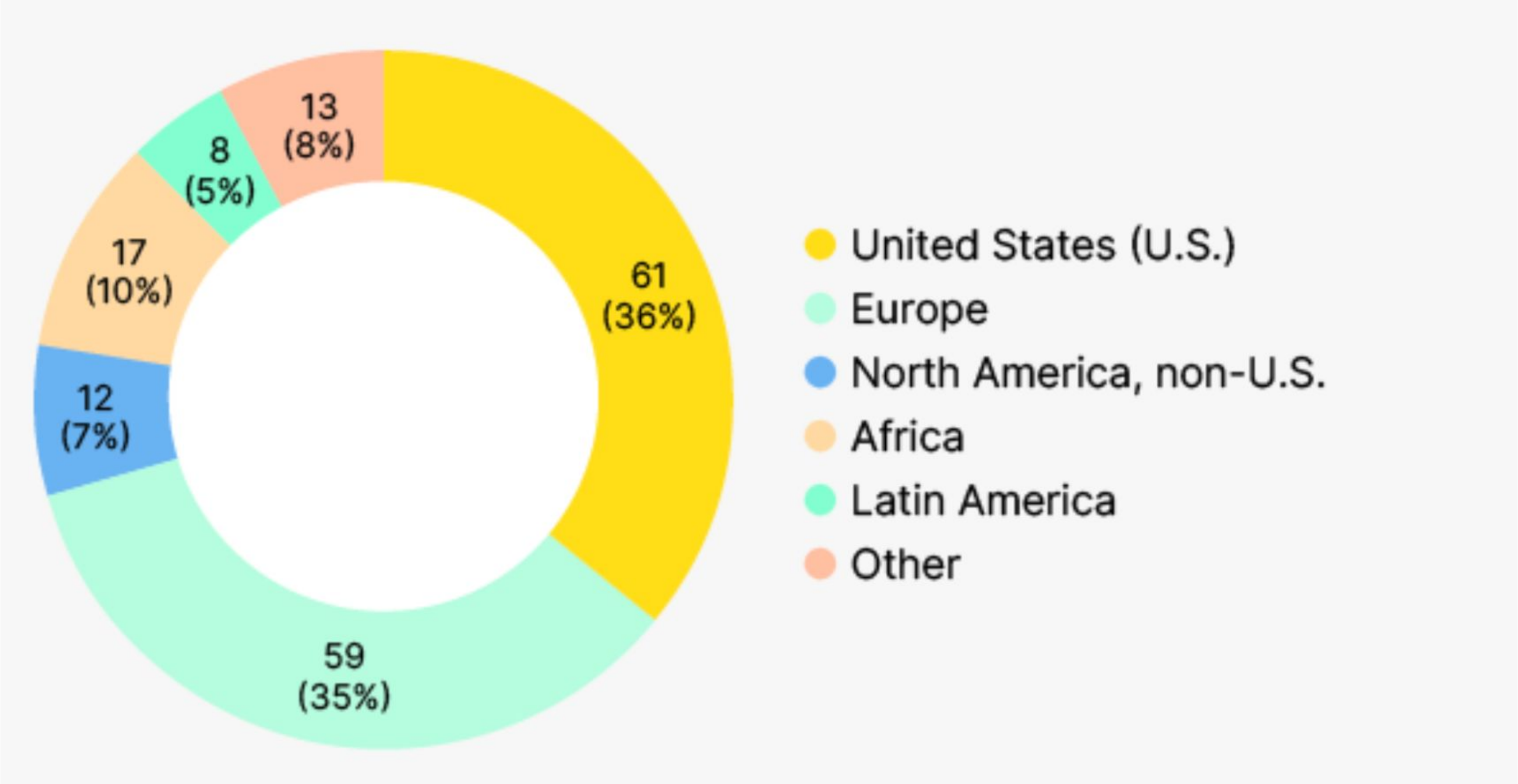
Pulse Poll

Which of the following infrastructures are most vital for your work? Choose from the Infra Finder list a total of up to 5 selections.

1. 2i2c
2. Academic Preservation Trust (APTrust)
3. AfricArXiv
4. Arches Heritage Data Management Platform
5. Archipelago Commons
6. Archival Resource Key
7. Archivematica
8. ArchivesSpace
9. arXiv
10. AtoM
11. bioRxiv
12. BrCRIS
13. Browsertrix
14. CLOCKSS
15. CollectiveAccess
16. CORE
17. COUNTER Code of Practice
18. Creative Commons Licenses
19. Crossref Metadata Retrieval
20. DART (Digital Archivist's Resource Tool)
21. DataCite
22. Dataverse
23. Directory of Open Access Books
24. DLCM Backend
25. DLCM Portal
26. DOAJ (Directory of Open Access Journals)
27. dokieli
28. Dryad
29. DSpace
30. DuraCloud
31. eduID.africa
32. Episciences
33. EPrints
34. Érudit
35. Europe PMC
36. FAIRiCat
37. FAIR Signposting
38. Fedora
39. Fulcrum
40. Galaxy
41. Hyku
42. IIIF
43. International Generic Sample Number (IGSN)
44. InvenioRDM
45. iRODS
46. Islandora
47. Janeway
48. JHOVE
49. Journal Article Tag Suite
50. Keepers Registry
51. Knowledge Commons
52. LA Referencia
53. Manifold
54. medRxiv
55. Mendeley Data
56. Metadata Encoding and Transmission Standard (METS)
57. Mirador
58. Mukurtu CMS
59. MyCoRe
60. NumPy
61. OAPEN Library
62. OA.Report
63. OA Switchboard
64. Omeka
65. OpenAIRE Graph
66. OpenAlex
67. Open Archives Initiative Object Reuse and Exchange (OAI-ORE)
68. Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH)
69. Open Archives Initiative ResourceSync Framework Specification
70. Open Book Collective
71. OpenCitations
72. OpenEdition
73. Open Journal Systems (OJS)
74. Open Monograph Press (OMP)
75. Open Policy Finder (formerly Sherpa Services)
76. Open Preprint Systems (OPS)
77. Openverse
78. O Portal Brasileiro de Publicações e Dados Científicos em Acesso Aberto (The Brazilian Open Access Publications and Scientific Data Portal) (Oasisbr)
79. OSF (Open Science Framework)
80. Oxford Common File Layout
81. Peer Community In
82. PKP Preservation Network
83. PREMIS Data Dictionary for Preservation Metadata
84. PREreview
85. Pressbooks
86. Public Access Submission System
87. PubPub
88. pyOpenSci
89. re3data.org
90. REDI
91. Renku
92. RePEc
93. Research Organization Registry (ROR)
94. Research Resource Identification Initiative
95. Rogue Scholar
96. rOpenSci
97. RSpace
98. Sciety
99. Synapse
100. TagTeam
101. Thoth Open Metadata
102. VIVO
103. VuFind®
104. Zenodo



Which best describes your focus/work area most of the time?

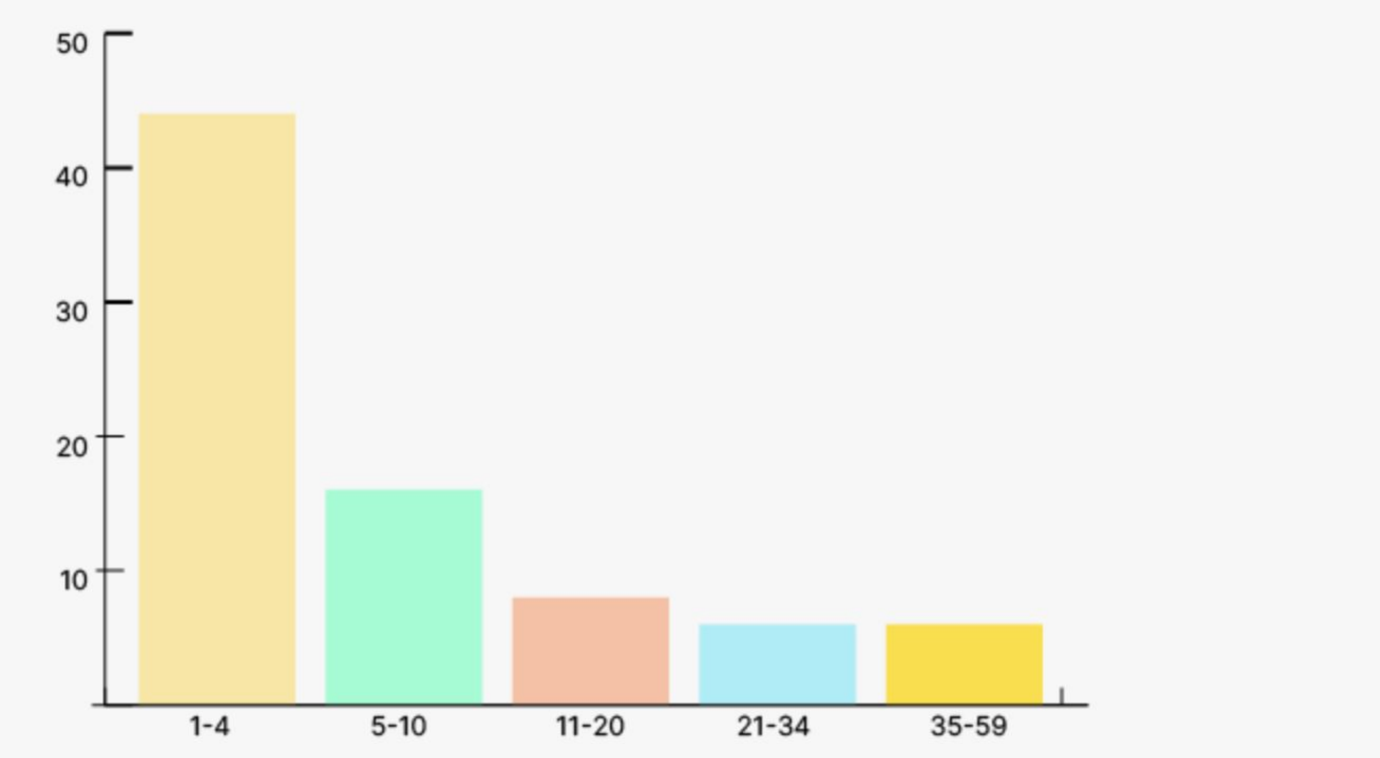


In which country or region/geolocation do you work primarily?

Concentration: How compact or how spread out are the results.

Co-named: How often are infrastructures listed together by single respondents.

Constellation: How deep are the relationships between particular sets of institutions.



How many times was any particular infrastructure selected by respondents?

	United States	Europe	Africa
Respondents	61	59	17
Named infrastructures	60	48	33
Total infrastructure selections	305	270	65
Average/Median	Average 5, Median 1	Average 6, Median 2	Average 2, Median 1
Repository service	53	62	11
Repository software	66	21	11
Discovery system	59	58	17
Publishing system	18	33	10
Standard, specification or protocol; PID	77	74	21
Open scholarly dataset	35	61	15

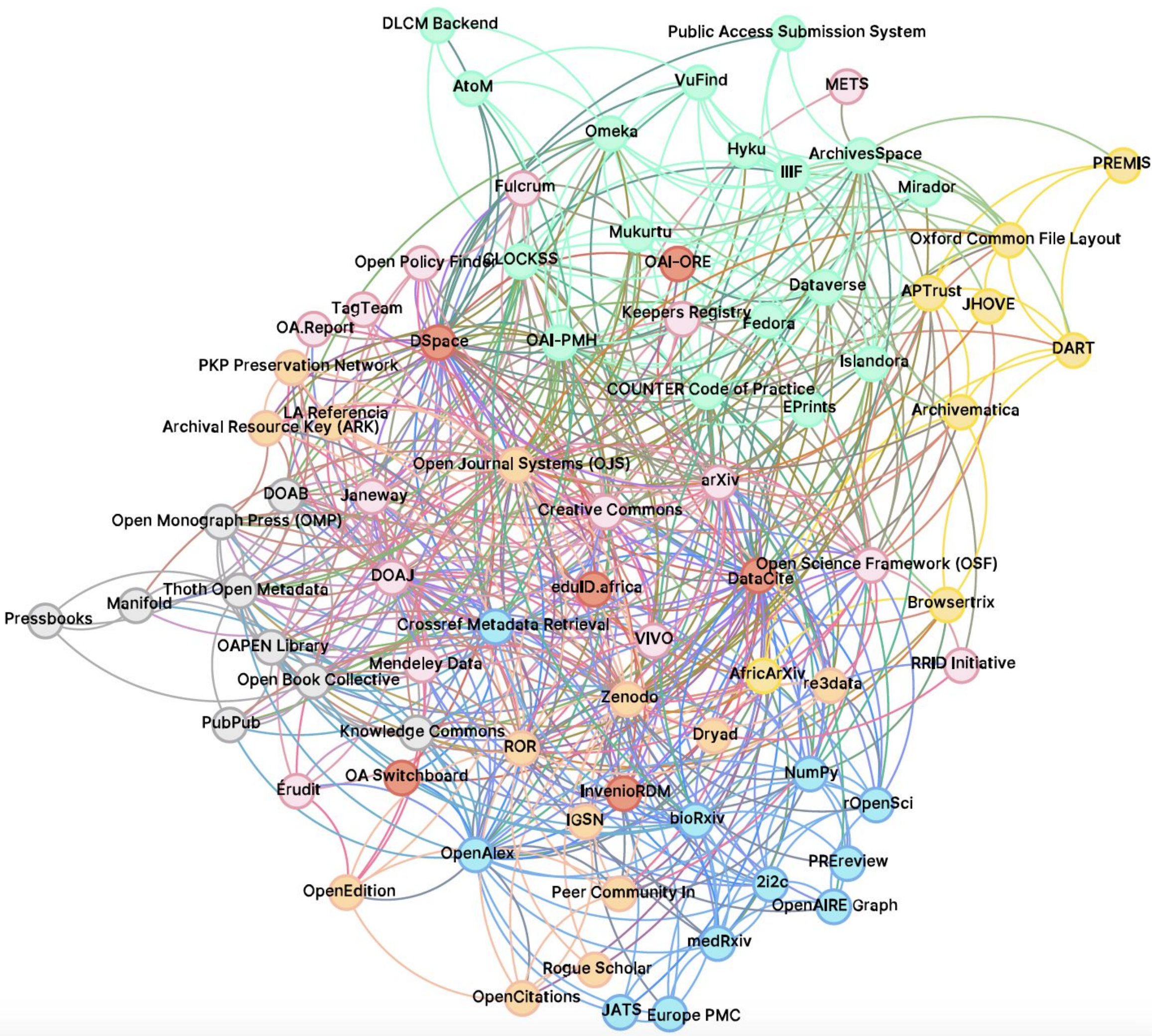
Selected infrastructures by respondent region/geolocation

	Libraries	Publishing	Research	Data science / metadata	Technology
Respondents	51	36	22	15	15
Named infrastructures	55	35	32	25	32
Total infrastructure selections	244	159	102	66	65
Average/Median	Average 4, Median 2	Average 6, Median 2	Average 3, Median 1	Average 3, Median 1	Average 2, Median 2
Repository service	43	43	38	29	7
Repository software	43	4	12	4	17
Discovery system	48	29	14	13	11
Publishing system	22	32	8	3	2
Standard, specification or protocol; PID	49	26	35	28	23
Open scholarly dataset	37	41	8	18	6

Selected infrastructures by respondent role

IOI Pulse Poll March/April 2025

How numerous and diverse are the infrastructures that respondents consider "vital"? How many categories of infrastructure do they include, and do they relate to each other in interesting ways?



Thank you!

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