2024 State of Open Infrastructure

Trends in characteristics, funding, governance, adoption, and policy
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2024 State of Open Infrastructure

Report objectives

- Raise the profile of open infrastructure
- Illuminate patterns in funding
- Establish a baseline of information
- Investigate selected topics
- Identify possible courses of action
Topics:

- Characteristics of selected open infrastructures*
- The state of open infrastructure grant funding
- Open infrastructure governance
- Trends in open infrastructure performance and adoption
- Regional policy developments
- The influence of procurement and IT governance on the adoption of open infrastructure
- Future signals

*https://infrafinder.investinopen.org/
Methods:

- Target open infrastructures (OIs) in Infra Finder
- Target selected funders
- Use funder-reported data + openAIRE
- Review for relevance
- Deduplicate records
- Categorize funded activities
- Convert currency to USD
- Add information (solution category)
There is much to explore in this dataset!

Two takeaways for today:

● Open infrastructures are named explicitly in many grants that do not support them directly.

● Funders prefer to support innovation over operations.
# Total funding:

<table>
<thead>
<tr>
<th></th>
<th>All awards</th>
<th>Direct support</th>
<th>Indirect support</th>
<th>Adoption support</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total funding (USD)</strong></td>
<td>$416M</td>
<td>$174M</td>
<td>$218M</td>
<td>$11M</td>
</tr>
<tr>
<td><strong>Award count</strong></td>
<td>514</td>
<td>149</td>
<td>284</td>
<td>40</td>
</tr>
<tr>
<td><strong>Funder count</strong></td>
<td>23</td>
<td>20</td>
<td>14</td>
<td>8</td>
</tr>
<tr>
<td><strong>OI count</strong></td>
<td>36</td>
<td>30</td>
<td>26</td>
<td>9</td>
</tr>
</tbody>
</table>
2024 State of Open Infrastructure: Grant funding

Total funding:

- Indirect: 52.5%
- Direct: 42.0%
- Unknown: 5.0%
- Adoption: 0.5%
Indirect support (USE):

“Results will be disseminated in peer-reviewed publications and on arxiv.org.”

“All materials will be released under Creative Commons licenses...”

“Data will be archived and made publically available through Dryad Digital Repository and GenBank, as appropriate.”
Indirect support (ADJACENT):

“...will build upon existing identifier infrastructure such as IGSNs (Global Sample Number;) and ARKs (Archival Resource Keys)...”

“We are building... a mobile app that transforms existing IIIF-compliant digitized archival materials for interaction in augmented reality.”

“The first project deploys social network analysis and natural language processing (NLP) techniques to measure international influence... using a database called OpenAlex.”
Indirect support:

- Dryad
- OSF
- arXiv
- Dataverse
- Zenodo
- Creative Commons
What about direct support?
What’s next?

- Publish end of May, 2024
- Series of community conversations, one per chapter

Sign up to stay informed!
Thank you!

Get in touch:
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