

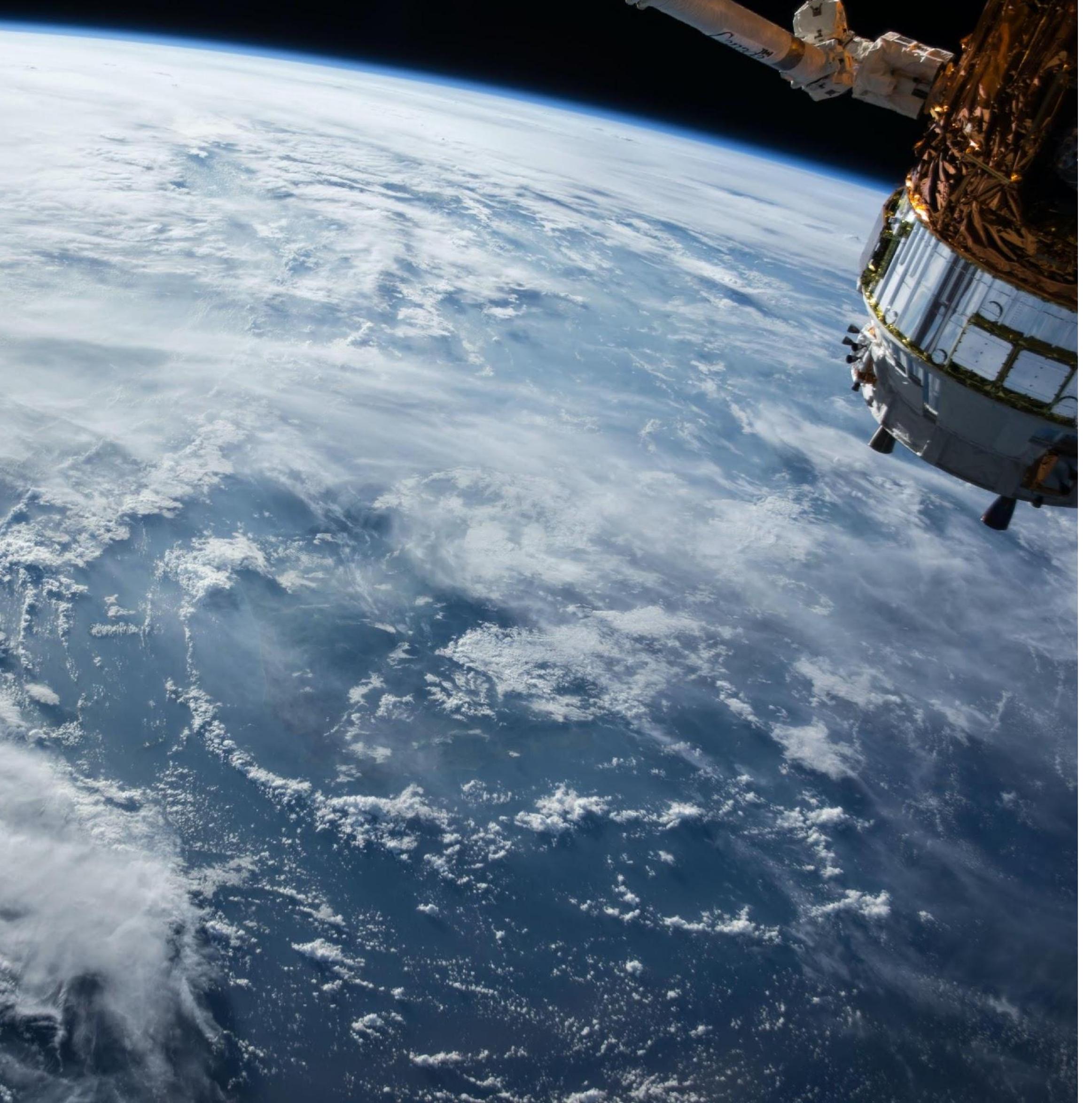
# Organize your data on the cloud

with a crawlable OGC API - Records  
catalogue 

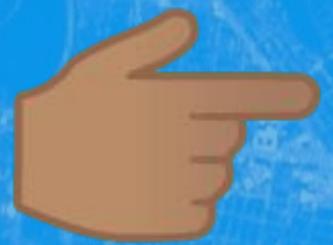
14<sup>th</sup> September, 2022

# Agenda

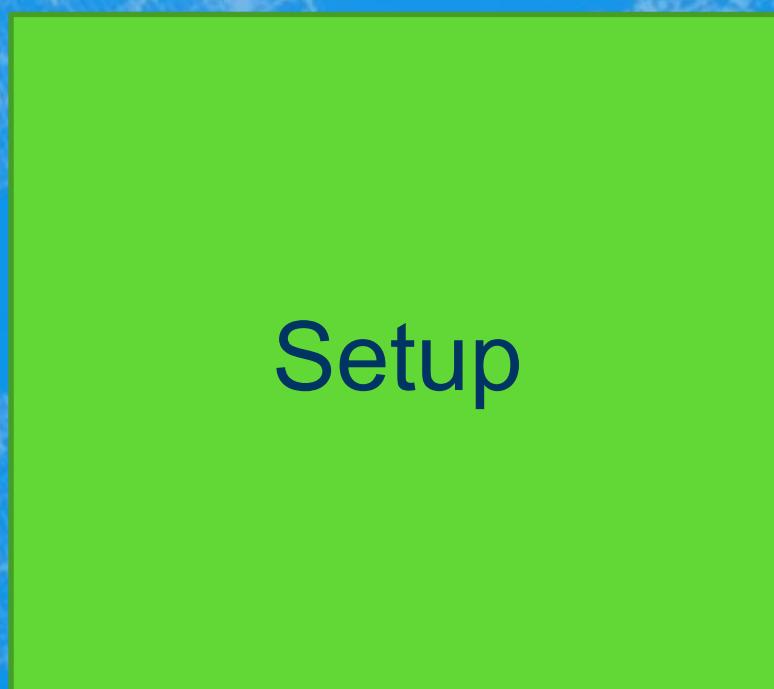
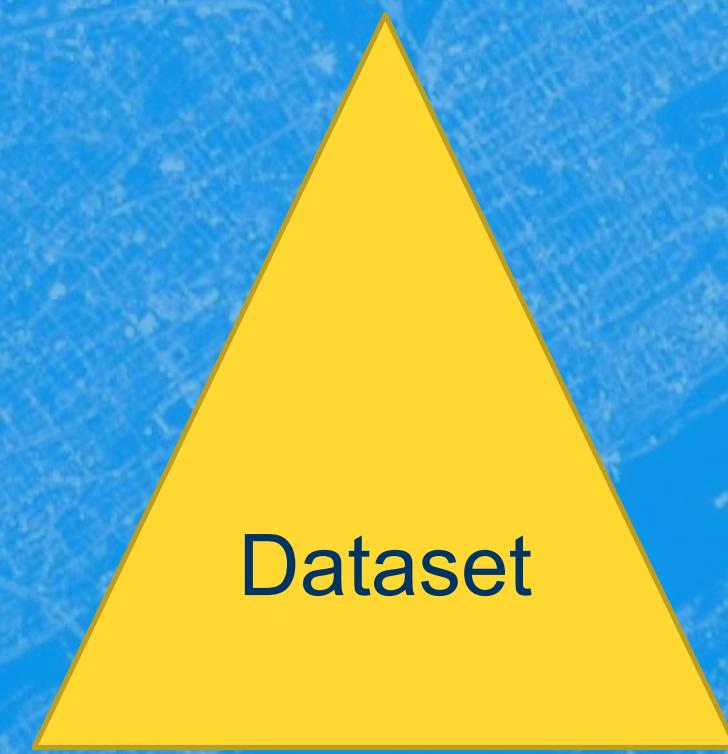
- Introduction
- OGC API Records
- Minimal Deployment
- Launch System
- Test/explore API



# Goal



Create a catalogue of your geospatial files, with minimal setup .



# Dataset

Environmental measurements, collected during a campaign in Lisbon (vector).

emotional.byteroad.net/collections/masked/items?offset=1000&limit=1000

pygeoapi Contact json jsonld

Home / Collections / Example features / Items

### Example features

Items in this collection.

id	datetime	speed_meters_per_hour	s1_Temperature_Celsius	decib
<a href="#">4a4e05495...</a>	2022-02-28T09:58:55	38.0	25.74	70.4
<a href="#">09e5fe586...</a>	2022-02-28T09:58:56	38.0	25.74	75.5
<a href="#">b73acf6ed...</a>	2022-02-28T09:58:57	40.0	25.74	81.3
<a href="#">88c5ec16d...</a>	2022-02-28T09:58:58	66.0	25.82	72.7
<a href="#">75fc3c7e6...</a>	2022-02-28T09:58:59	50.0	25.82	69.6
<a href="#">5abb0652d...</a>	2022-02-28T09:59:00	46.0	25.79	73.4

Warning: Higher limits not recommended!

Limit: 1,000

Credits:  
data by @glopes  
Metadata by @pascalike

<https://emotionalcities-h2020.eu/>

# Data + Metadata in GeoJSON

```
record.json — sleepy-catalogue
docker-compose.yml collection.json README.md record.json × collections.json

data > crawlable_catalogue > masked_rec > record.json > properties
14           38.7087261
15           ],
16           [
17           -9.1251593,
18           38.7087261
19           ],
20           [
21           -9.1251593,
22           38.7180771
23           ],
24           [
25           -9.1364701,
26           38.7180771
27           ],
28           [
29           -9.1364701,
30           38.7087261
31           ]
32       ]
33   ],
34 },
35 "properties":
36 {
37     "recordCreated": "2022-03-10",
38     "recordUpdated": "2022-03-10",
39     "type": "dataset",
40     "title": "Measurements campaign",
41     "description": "This dataset provides environmental measurements, collected during a campaign in Lisbon.",
42     "keywords":
43     [
44         "Lisbon", "Environment", "Urban health"
45     ],
46     "language": "en-GB",
47     "created": "2021-11-01",
48     "updated": "2022-02-01",
49     "publisher": "
```

# (candidate) Standard

## OGC API Records

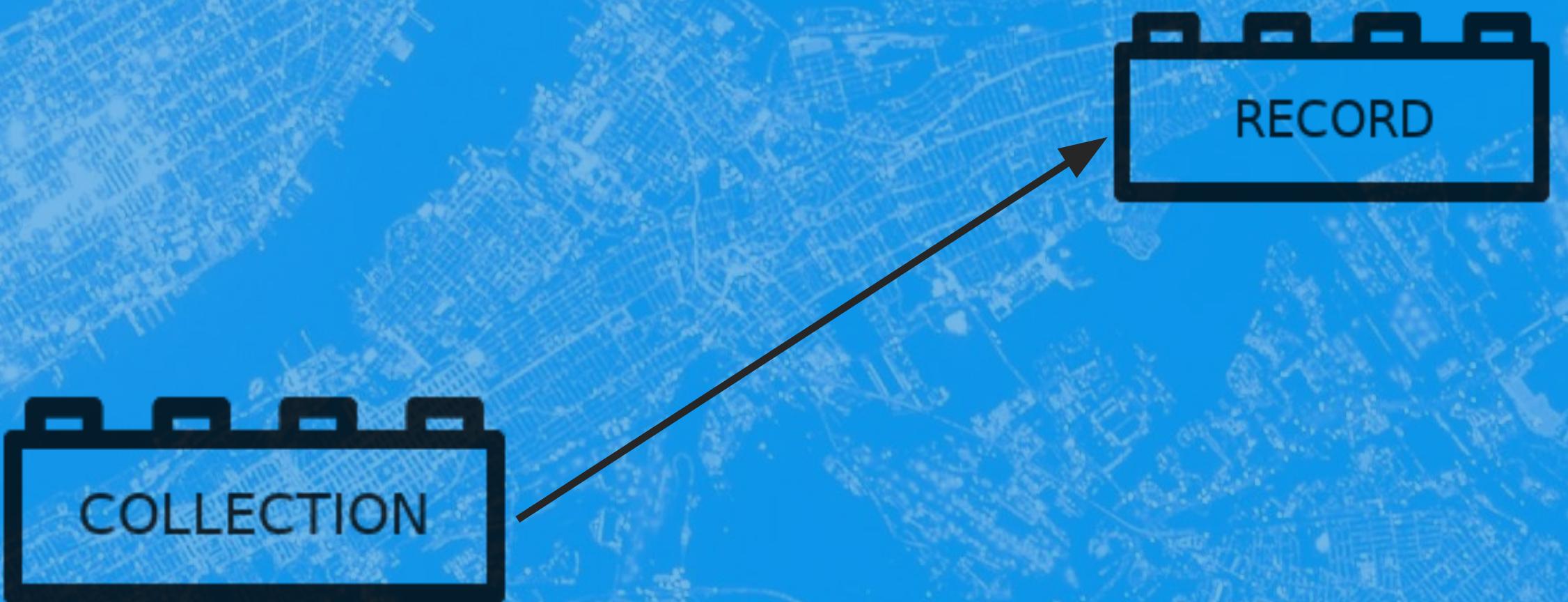
Discover and access to metadata about  
geospatial resources

- RESTfull
- Modular

<https://github.com/opengeospatial/ogcapi-records>

# Main Building Blocks

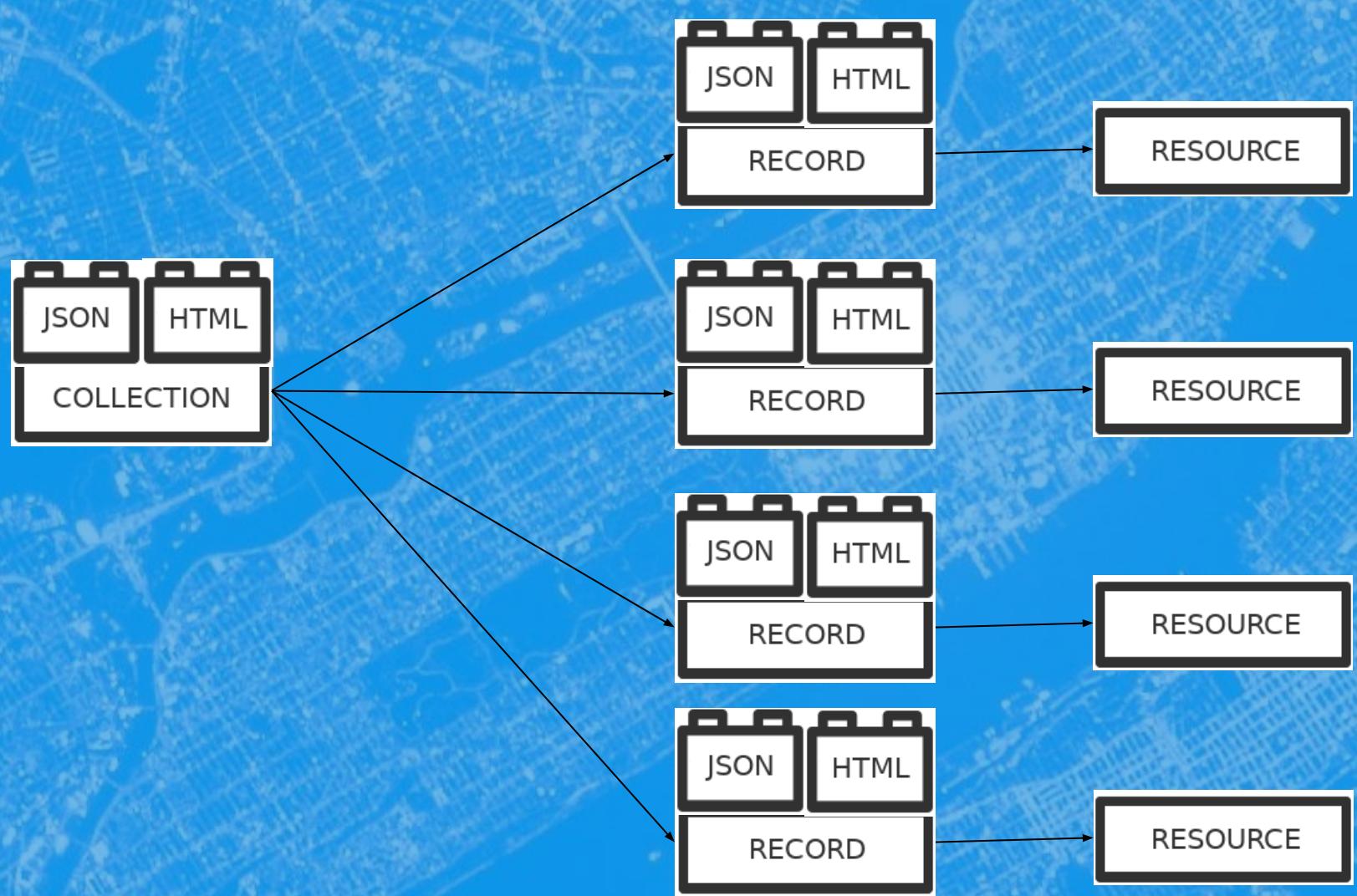
- Record
- Collection
- Records API



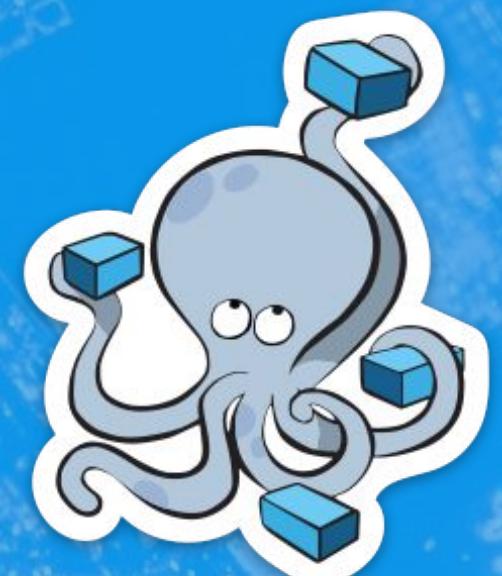
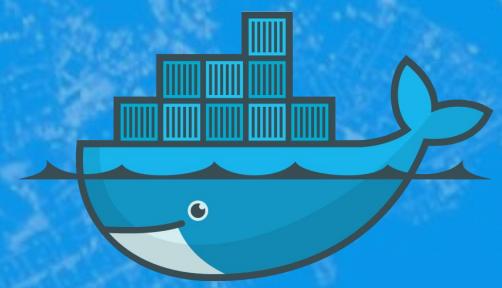
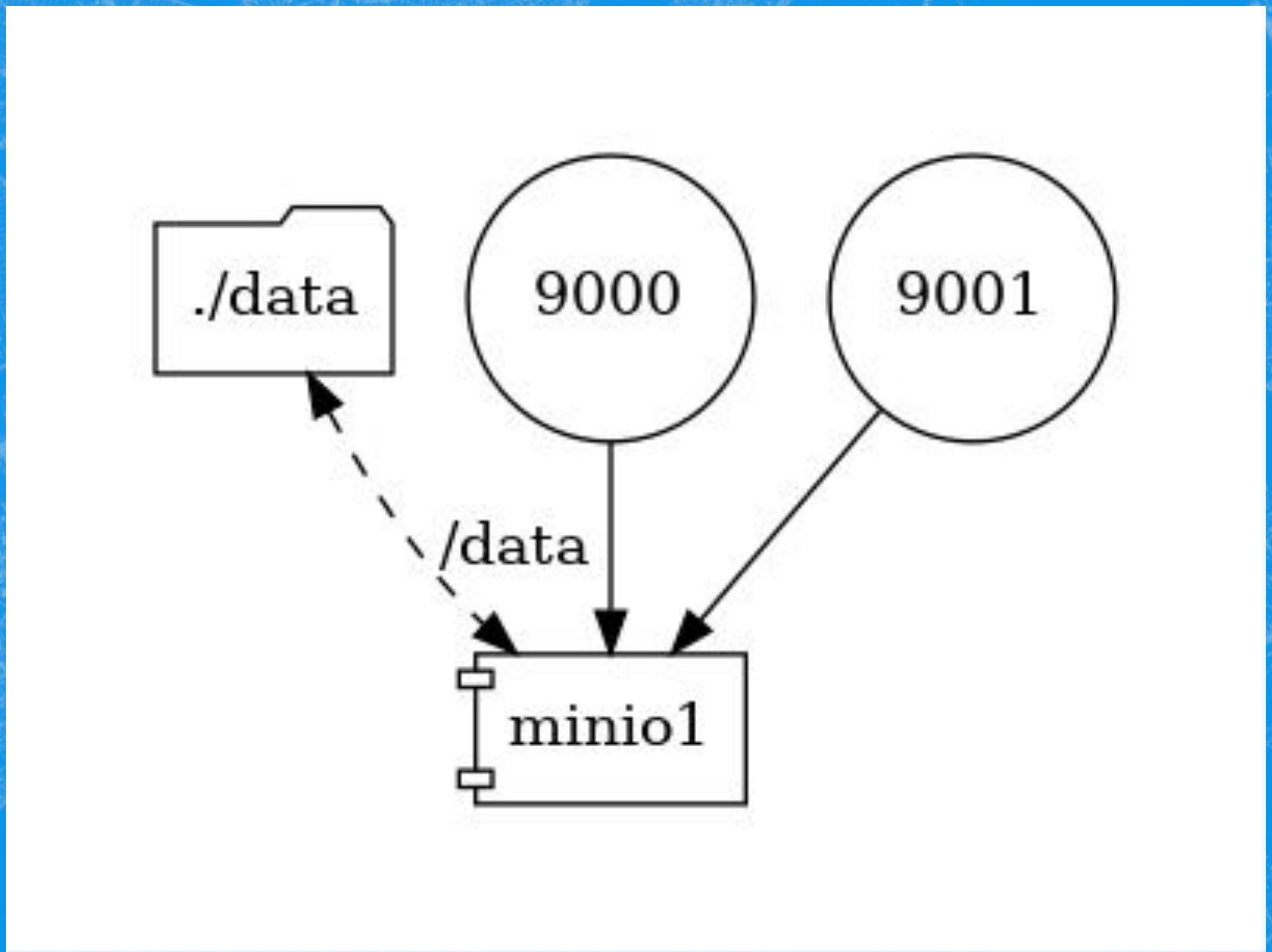
# Deployment Patterns

- Searchable catalogue
- Local resources catalogue
- Crawlable Catalogue

# Crawlable Catalogue



# Minimal Deployment



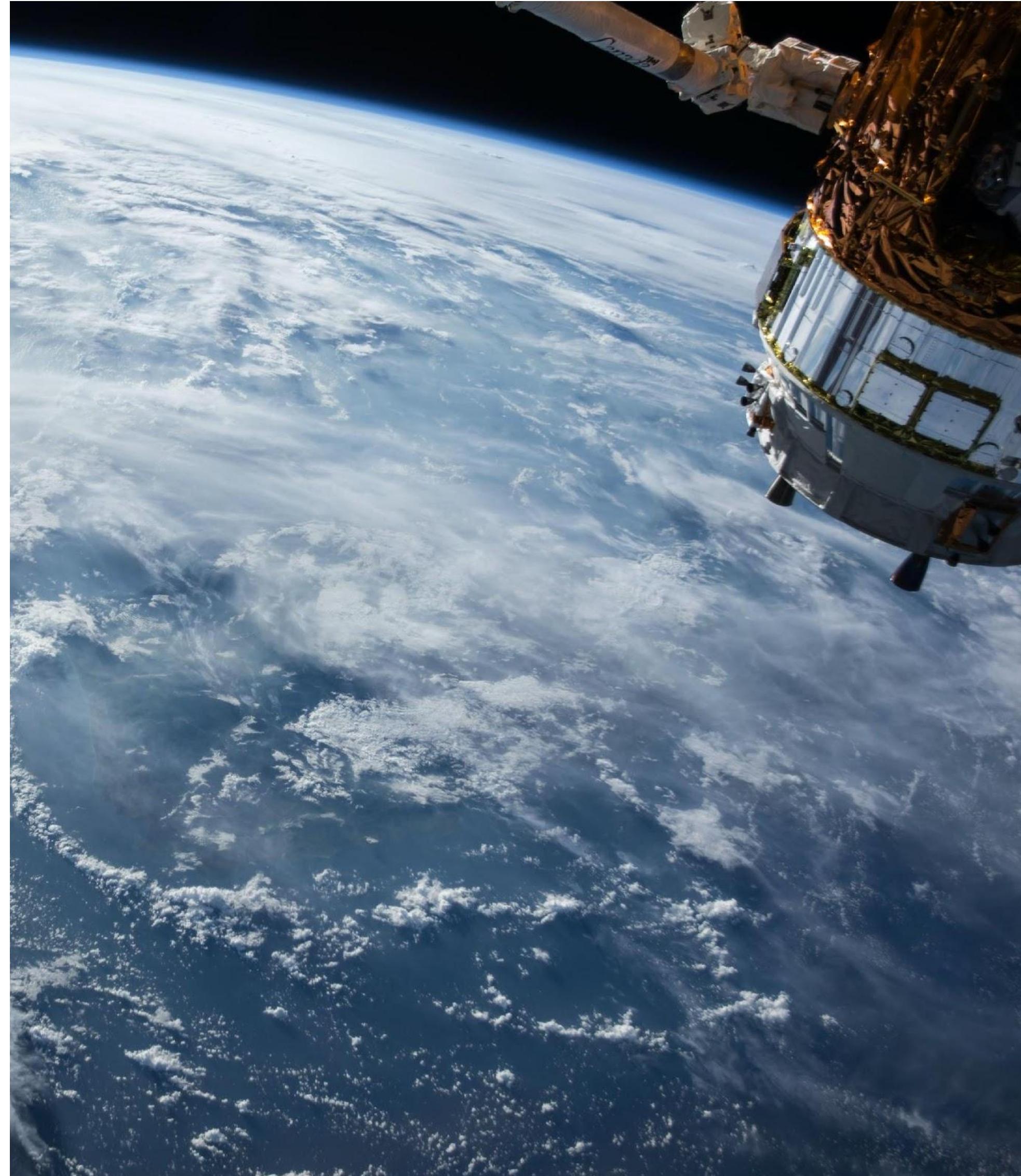
<https://github.com/doublebyte1/sleepy-catalogue/>



- High Performance Object Storage.
- FOSS (GNU Affero GPL v3).
- API compatible with AWS S3.

<https://min.io/>

<https://github.com/minio/minio>



# Thank You

## Community

500+ International Members  
110+ Member Meetings  
60+ Alliance and Liaison partners  
50+ Standards Working Groups  
45+ Domain Working Groups  
25+ Years of Not for Profit Work  
10+ Regional and Country Forums

## Innovation

120+ Innovation Initiatives  
380+ Technical reports  
Quarterly Tech Trends monitoring

## Standards

65+ Adopted Standards  
300+ products with 1000+ certified implementations  
1,700,000+ Operational Data Sets  
Using OGC Standards

