

F-UJI Automated FAIR Data Assessment Tool

FAIRsFAIR has developed F-UJI, a service based on REST, and is piloting a programmatic assessment of the FAIRness of research datasets in five trustworthy data repositories.



The F-UJI assessment is based on [16 out of 17 core FAIR object assessment metrics](#) developed within FAIRsFAIR and each corresponding to a part or the whole of a FAIR principle. F-UJI adheres to existing web standards and [PID resolution services best practices](#) and utilises external registries and resources such as re3data¹ and Datacite² APIs, SPDX License List³, RDA Metadata Standards Catalog⁴, and Linked Open Vocabularies (LOV)⁵. For information on the practical tests implemented against the metrics, see [Devaraju, Huber, et al., 2020](#).

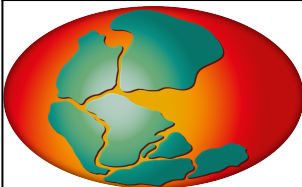





The source code is now available with a free license through Github. Any feedback on improving the tool and associated metrics can be added as an issue on Github.

To test the F-UJI online test service please visit the new web demo client

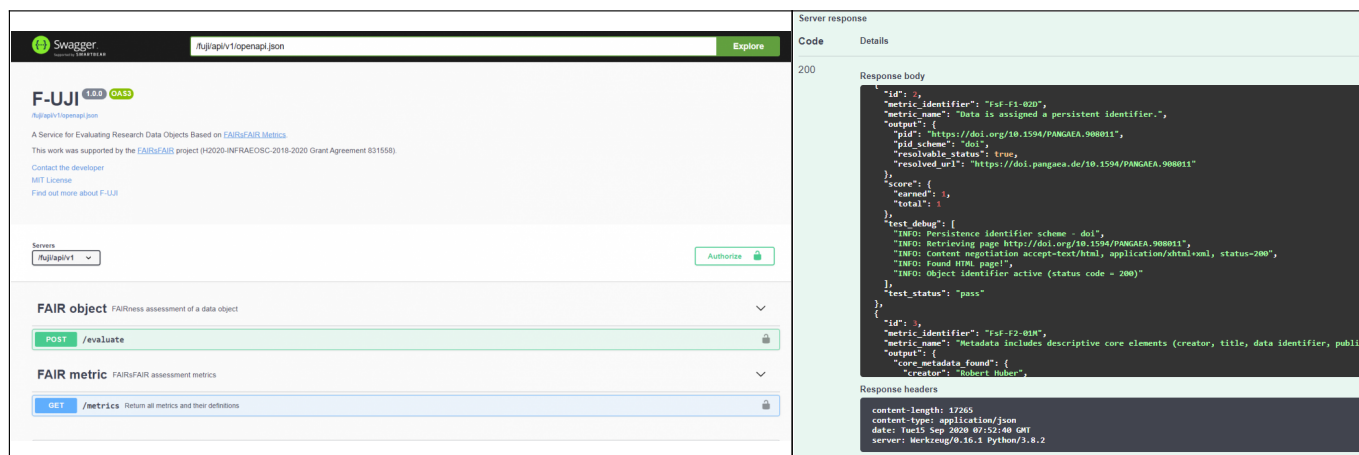
For more details on the tool, please contact Robert Huber

Pilot Repository	Certification	Subject Areas	Repository Representatives
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	CoreTrustSeal WDS Regular Member	Earth and Environmental Science	Uwe Schindler Michael Diepenbroek
	CoreTrustSeal	Cultural Heritage	Yuri Carrer Cristiana Bettella GianLuca Drago Giulio Turetta
	CoreTrustSeal	Multiple disciplines	Mikaela Lawrence Dominic Hogan Cynthia Love
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	CoreTrustSeal	Multiple disciplines	Philipp Konzett (Uit/DataverseNO) Gustavo Durand (Harvard/Dataverse) Julian Gautier (Harvard/Dataverse)
	-	Multiple disciplines	Laura Huis in 't Veld Marion Wittenberg Paul Boon

Screenshots of the tool below



The screenshot displays the Swagger UI for the F-UJI API. The left sidebar shows the API structure with endpoints for FAIR object and FAIR metric. The main panel shows the details for the /evaluate endpoint (POST). The right panel shows the server response for the /evaluate endpoint, which is a JSON object containing information about the FAIR object and its metrics.

```

{
  "id": "f1-020",
  "metric_identifier": "f1-f1-020",
  "metric_name": "Data is assigned a persistent identifier.",
  "output": {
    "pid": "https://doi.org/10.1594/PANGAEA.908011",
    "pid_scheme": "doi",
    "resolvable_status": true,
    "resolved_url": "https://doi.pangaea.de/10.1594/PANGAEA.908011"
  },
  "score": {
    "scored": 1,
    "total": 1
  },
  "test_debug": [
    "INFO: Persistence identifier scheme - doi",
    "INFO: Retrieving page http://doi.org/10.1594/PANGAEA.908011",
    "INFO: Content negotiation accept=text/html, application/xhtml+xml, status=200",
    "INFO: Found HTML page!",
    "INFO: Object identifier active (status code = 200)"
  ],
  "test_status": "pass"
}
  
```

- ¹ <https://www.re3data.org>
- ² <https://support.datacite.org/docs/api>
- ³ <https://spdx.org/licenses>
- ⁴ <https://rdamsc.bath.ac.uk>
- ⁵ <https://lov.linkeddata.es/dataset/lov/>

All the presentation and the slidedeck are available online here

F-UJI webinar presentation

