

# Specifying a FAIR-enabled API for the Energy Data Centre

## Catherine Jones and Peter Holt UKRI/STFC

The UK Energy Research Centre (<a href="www.ukerc.ac.uk">www.ukerc.ac.uk</a>) undertakes "Independent whole systems research for a sustainable energy future" and was formed in 2004. The Energy Data Centre is a capability of UKERC and provides a discovery portal and data management expertise for researchers funded through UKERC. Current key

priorities for the EDC are:

ntinuing service velopment and intenance Focusing on Environmer sustainability

Preserving energy knowledge through building a grey literature collection Contributing to UKRI Digital Research Infrastructure



### **Enabling FAIR Data**

Ensuring that research data held in the Energy Data Centre is Findable, Accessible, Interoperable and Reuseable is a key priority.

The EDC team worked on an action plan to enhance the FAIRness of the service as part of the FAIR-IMPACT project and as a result out policies have been updated and a statement of adherence to the FAIR principle is available on our website. We also experimented with F-UJI which is an automated tool for checking if a dataset is FAIR.

The next stage is to work on making the service as accessible for machines as it is for humans. The DINI project has given us an opportunity to specify an API to enable machine access which has FAIR considerations at the heart of the design.

#### FAIR API

How can we demonstrate the API is FAIR?

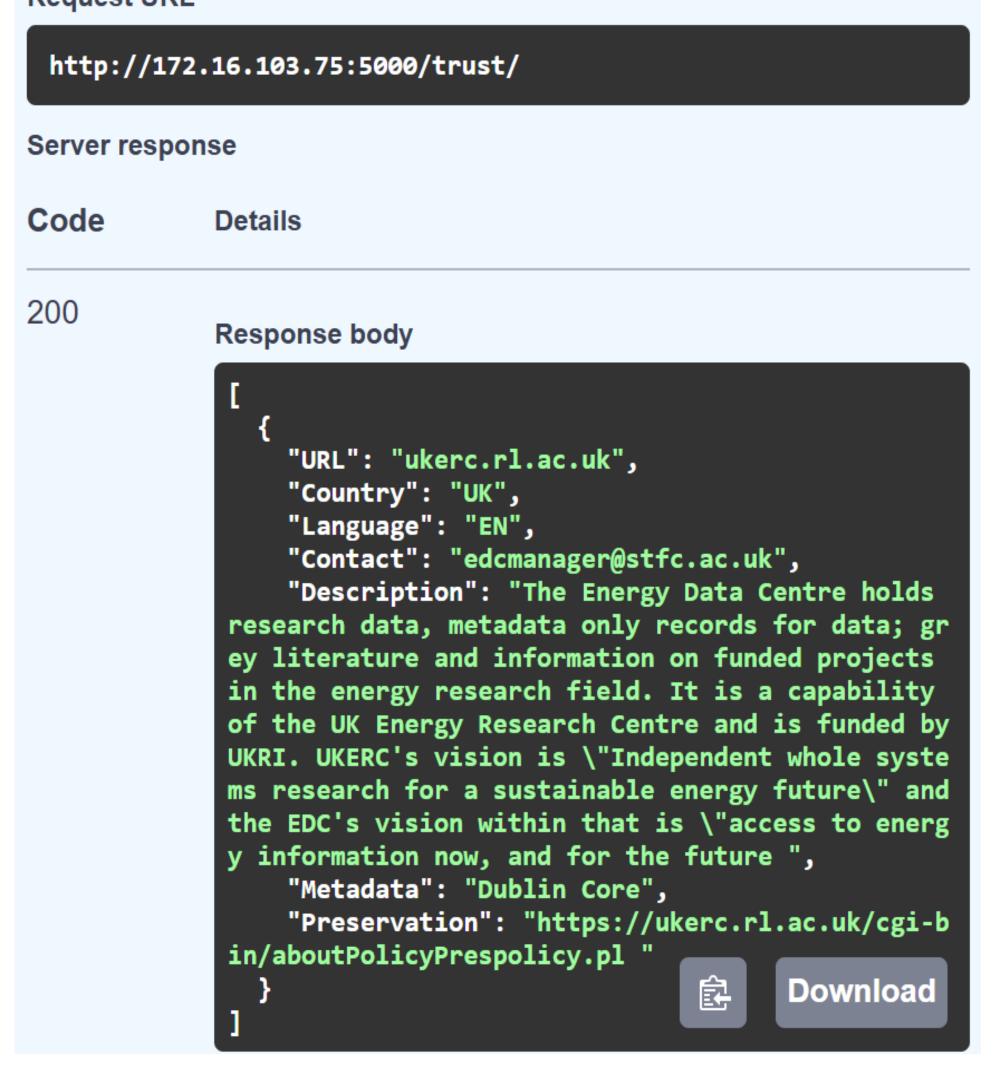
- Use Open API standard
- Terms of Service and licenses
- Good documentation

# **FAIR Repository**

How can we demonstrate the Repository is Trustworthy?

- Be certified: this is on the EDC service development Roadmap
- Enable metadata about the repository itself to be interrogated so that the service using the API can decide.

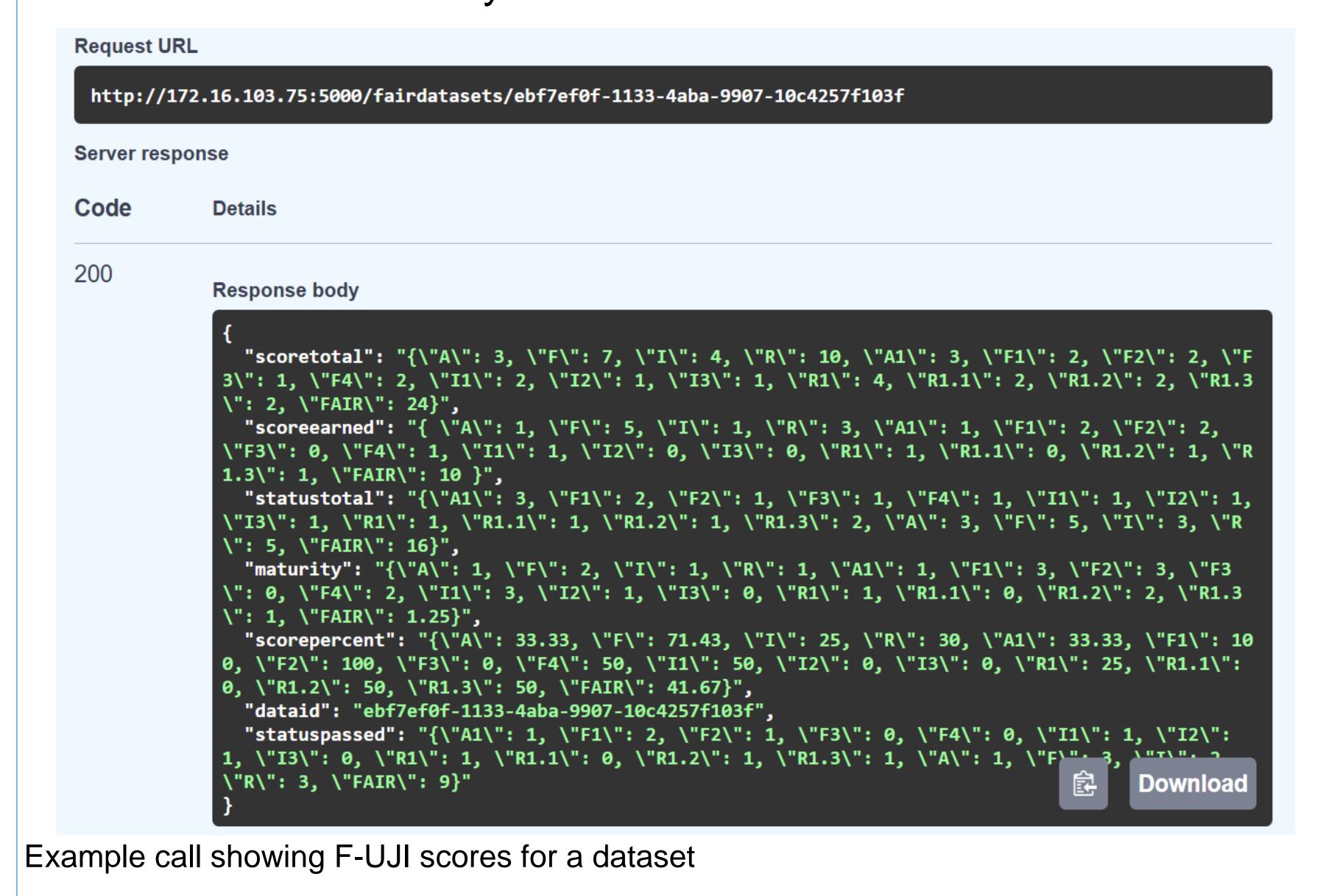
  Request URL



#### **FAIR Data**

How can we demonstrate that a dataset is FAIR?

- Use the F-UJI tool to generate FAIR data metrics and make these retrievable through an API
- Consider the best way to summarise these to make them useful



UKERC Energy Data Centre