

Edinburgh International Data Facility: data science-enabling infrastructure and services for research and innovation

Bringing together regional, national, and international datasets to create new products, services, and research.

A flexible set of services

The Edinburgh International Data Facility (EIDF) is a set of compute, data and customer services optimised for data analytics and science. EIDF employs a “building block” approach to give it the flexibility required to meet our users’ needs.

Businesses, universities, and public sector organisations make use of EIDF to undertake data-driven research and development.

Customer services

EPCC develops and manages the services provided by EIDF and offers consultancy to help organisations make best use of these services. EPCC provides 9-5 user support during working days through a helpdesk ticketing system. Project owners and users have access to a portal to monitor and manage the services to which they have access.

Data services

EIDF includes a data catalogue where projects can donate research data for long-term storage free of charge. Researchers can process these data using EIDF compute services or copy these to another infrastructure. Read access is determined and controlled based on the licence set by the donating party. Data is moved in, moved out, and moved around EIDF through a diverse offering of data transit standards such as S3 and Globus.



The National Collection of Aerial Photography (NCAP) is using EIDF to digitise over 30 million historic photographs to preserve them for future generations. This image by NCAP shows the future site of the Bayes Centre, now home to EPCC.

Compute services

EIDF provides three ways for users to interact with its compute and data services: a virtual desktop environment accessible through a web browser, a terminal login, and Jupyter Notebooks. Through these users then interact with a diverse set of compute infrastructure that includes a large and growing set of GPU accelerators.

EIDF provides customer, data and compute services which are optimised for data science. We offer a range of services from scalable notebooks, through data science desktops to specialist compute platforms. All services are managed and supported by a customer-facing team.

Customer support

- A portal to manage projects and users
- A ticket-based helpdesk during working days
- Consultancy on enabling data science (MLOps)
- Consultancy on performing data science (ML).

Compute elements

- Virtual desktops with up to 64 CPUs and 896 GB memory
- GPU accelerators with NVIDIA H200, H100 and A100
- Cerebras CS-3 Wafer-Scale Cluster AI accelerator
- Jupyter Notebooks.



EIDF, operated by EPCC, includes Cerebras CS-3 systems configured as a Wafer-Scale Cluster.

Data transit and storage

- Transit of data via S3, sftp, rsync, Globus, and MFT
- Catalogue of research-ready datasets
- Analytics-ready data on a wide variety of themes
- GitLab to enable shared code and documentation development.

Consultancy

Using a building block approach from the “EIDF toolkit”, our engineers can work with you to solve your particular challenges, whether it be data hosting, AI modelling, high-performance analytics – or something entirely new!

Data-Driven Innovation initiative

EIDF is funded through the Data-Driven Innovation (DDI) initiative within the Edinburgh and South East Scotland City Region Deal.

Contact us

Get in touch to discuss how EIDF can enable your data science projects: eidf@epcc.ed.ac.uk

Sign up for our mailing list: <https://edin.ac/4lqliEh>

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