

# OR/19/052 Data portal

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[Jump to navigation](#) [Jump to search](#)

Kingdon, A, Fellgett, M W, and Spence, M J. 2019. UKGEOS Cheshire Energy Research Field Site - Science infrastructure. *British Geological Survey Internal Report*, OR/19/052. *Contributors*: Midgley, J, Elsome, J W, Dearden, R A, Chapman, C, Burke, S P, Hough, E, Luckett, R R, and Bianchi, M.

## Overview

The UK Geoenergy Observatories informatics platform (“UKGEOS data portal”) will provide the infrastructure necessary to collect, transmit and store data from the field as well as provide researchers with the necessary tools to discover, access and process such data. It will:

- allow data (real-time or otherwise) collected in the field to be streamed back to scientists and/or web portals
- store scientific data in bespoke databases
- facilitate re-use and sharing of scientific data between scientists
- allow for expansion as demand requires (e.g. allowing data from new experiments to be streamed to the portal)
- be supported long-term by BGS data and system management
- provide access to new facilities such as a suite of state-of-the-art core scanners.

## Access to near real-time environmental baseline data

The informatics platform will initially be used to transmit near real-time data from environmental monitoring sensors to scientists, businesses and the public through web-based delivery channels. These data will characterise the subsurface around the research facility.

Once research commences, scientists will be able to use this infrastructure to transmit continuous data from their experiments back to the laboratory. Data will be presented publicly via dedicated data portals, providing audience-tailored views including spatial and temporal visualisations as well as search, query and download tools. The portals will be developed in advance of the baseline monitoring taking place so that they can be launched as soon as data streams from the field go live. Links to these new facilities will be published on the BGS website and in other appropriate communication channels.

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[Category](#):

- [OR/19/052 UKGEOS Cheshire Energy Research Field Site - Science infrastructure](#)

## Navigation menu

### Personal tools

- Not logged in
- [Talk](#)

- [Contributions](#)
- [Log in](#)
- [Request account](#)

## Namespaces

- [Page](#)
- [Discussion](#)

## Variants

## Views

- [Read](#)
- [Edit](#)
- [View history](#)
- [PDF Export](#)

## More

## Search

## Navigation

- [Main page](#)
- [Recent changes](#)
- [Random page](#)
- [Help about MediaWiki](#)

## Tools

- [What links here](#)
- [Related changes](#)
- [Special pages](#)
- [Permanent link](#)
- [Page information](#)
- [Cite this page](#)
- [Browse properties](#)

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- [Privacy policy](#)
- [About Earthwise](#)

- [Disclaimers](#)

