Resources available to UK industry and the public sector from 2011 e-infrastructure investment

Hartree Centre - http://www.stfc.ac.uk/hartree/

The Hartree Centre provides a platform to develop & demonstrate new HPC software. The Hartree Centre is your gateway to world-class software skills with supporting supercomputing capabilities. We place leading-edge HPC facilities and a full range of complementary expertise at your fingertips on an easy to access, easy to use basis.

DiRAC II - http://www.stfc.ac.uk/Our%20Research/43134.aspx

DiRAC delivers an innovative world-class HPC and data analysis capability to organisations of any size across the UK, providing easy access to the combined strength of the Universities of Cambridge, Durham, Edinburgh and Leicester in hardware, software and know-how in HPC and data management. DiRAC provides a variety of computer architectures, matching machine architecture to the algorithm design and requirements of the research problems to be solved.

ISIC CEMS - http://isic-space.com/cems/climate-and-environmental-monitoring-from-space/

The facility gives academic, government and commercial users access to internally hosted climate and Earth observation (EO) data alongside a wide range of associated services for data processing and analysis. CEMS allows different combinations of processing, data and software.

e-Infrastructure South Innovation Centre - http://www.einfrastructuresouth.ac.uk/

The consortium has the express aim of exploring and exploiting opportunities for the co-development and sharing of e-infrastructure capabilities (hardware, applications software, user support services and people and skills) across the founding institutions and through linkages with other academic and industrial partners across the South of England.

The N8 Research Partnership - http://www.n8research.org.uk/

Working with industry, N8 aims to maximise the impact of this research base by identifying and coordinating powerful research collaborations across the North of England and beyond.

ARCHIE West - http://www.archie-west.ac.uk/

Academic and Research, hosting industry and enterprise in the West of Scotland. The aim of the centre is to provide High Performance Computing capability for Academia, Industry and Enterprise in the West of Scotland.

MidPlus - http://www2.warwick.ac.uk/fac/cross_fac/midplus/

A centre of excellence for computational science, engineering and mathematics. Easy access to e-Infrastructure, research and collaboration for business.

HPC Midlands - http://hpc-midlands.ac.uk/

A centre of excellence for high performance computing serving regional industry and academia.

ARCHER

ARCHER will be the UK's national HPC service, providing researchers with access to internationally competitive computing power to support their research across a wide range of areas, including climate modelling, engineering, materials science and chemistry.

MONSooN - http://collab.metoffice.gov.uk/view

The planned 2012 upgrade to the MONSooN supercomputing service (**M**et **O**ffice **N**ERC **S**upercomputing **N**odes, jointly funded by the Met Office and NERC) was supplemented by an e-infrastructure investment of £1m. The additional Met Office / NERC collaborative weather and climate research work so enabled will yield enhanced pull-through of scientific research into operational services thus delivering UK socio-economic benefit.

JANET UK - https://www.ja.net/

Janet is a private high-performance network interconnecting the UK's research e-infrastructure. It is available to all organisations whose primary purpose is the delivery of research or education. It is also available to other organisations where access to Janet would facilitate collaborative research with one or more such organisations, whether in the UK or via another country's national research and education network.

Janet's full policy on eligibility for its use can be found at:

https://community.ja.net/library/janet-policies/eligibility-policy

Other publicly funded e-infrastructure services available to industry and the public sector include

High Performance Computing (HPC) Wales - http://www.hpcwales.co.uk/

HPC Wales provides businesses and researchers with secure, easy access to our pan-Wales distributed supercomputing network, along with the training and support needed to exploit it for growth and innovation. A collaboration between Government and the universities in Wales, we are a not-for-profit company committed to facilitating industry-academic partnerships.

Edinburgh Parallel Computing Centre - http://www.epcc.ed.ac.uk/eih

Our aim is to give companies efficient and cost-effective access to our High Performance Computing (HPC) facilities and expertise, backed by a complete portfolio of consulting services tailored to the needs of industry. We are an independent, not-for-profit organisation and our HPC facilities are available on a pay-per-use basis

CORE - http://www.core-advantage.org/e-infrastructure/

CORE delivers business-ready High Performance Computing (HPC) and 'big data' solutions for industry and academia in the UK. CORE has the most comprehensive HPC and data analysis capability in the UK available as a single point of entry. CORE offers the only UK business-ready 'HPC Cloud', with tried and tested service levels, experienced external-facing service and support staff and customer-facing engagement facilities in central London and Cambridge.

UK Data Service – www.ukdataservice.ac.uk

The UK Data Service is a comprehensive and easy-to-use resource for social science researchers in all sectors: government, business, third sector and academia. The website provides a single point of access to a wide range of high-quality economic and social data (including large-scale government surveys, longitudinal panel studies and international macrodata) along with extensive support, training and guidance. (Note: Owing to licensing restrictions not all material is currently available to all users.)

European Bioinformatics Institute - http://www.ebi.ac.uk/industry/

EBI provides one of the most powerful e-infrastructures in the world, storing and making available on an open access basis the world's most comprehensive collection of biological data. We store a total of 14 petabytes of data on-site and through Tier-4 storage at two sites in London. We use both academic and commercial solutions to deliver the data. The EBI Industry Programme enables industry to adapt quickly to – and maximise the benefit from – advances in bioinformatics.

Open Data Institute - http://www.theodi.org/

The Open Data Institute will catalyse the evolution of an open data culture to create economic, environmental, and social value. It will unlock supply, generate demand, create and disseminate knowledge to address local and global issues. We will convene world-class experts to collaborate, incubate, nurture and mentor new ideas, and promote innovation. We will enable anyone to learn and engage with open data, and empower our teams to help others through professional coaching and mentoring.

Diamond Light Source Ltd. - http://www.diamond.ac.uk/Home/industry.html

Diamond Light Source provides HPC resources to industrial users in order for them to analyse their synchrotron data in real time. This provides immediate feedback on the data quality to allow users to optimise their data collection strategies and so make most efficient use of their synchrotron time.