

e-Infrastructure

Virtual Research Environments (Phase 2)

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- To develop a coherent UK e-Research infrastructure in collaboration with the Research Councils and other relevant organisations which will:

Virtual Research Environment Programmes

provide the research infrastructure and tools for all research programmes to create multidisciplinary research environments which enhance cross-discipline research and to facilitate research collaboration within and between institutions

e-Infrastructure Programme

- provide a robust, trustworthy, secure, interoperable and scalable infrastructure for the transmission, storage, sharing, accessibility and dissemination of research data and outputs

Information Environment Programme

- provide robust sustainable central services supporting the processes of research and which facilitate high quality research

Virtual Research Environments Vision

- To provide an architecture of tools and resources to allow research communities to create multidisciplinary environments which enhance interdisciplinary research, and to facilitate collaboration within and between institutions.
- A VRE can be defined as a set of online tools and other network resources and technologies interoperating with each other to support or enhance the processes of a wide range of research practitioners within and across disciplinary and institutional boundaries. VREs go beyond providing researchers with easy access to data, applications and computational resources; instead they facilitate mobile and distributed researchers, research teams and communities in conducting activities, such as shared problem-solving and shared experimentation. A key characteristic of a VRE, therefore, is that it facilitates collaboration amongst researchers and research teams providing them with more effective means of collaboratively collecting, manipulating and managing data, as well as collaborative knowledge creation.

VRE 1

- Technology-focused
- Experimental
- Diverse design & development approaches
- Stand-alone solutions

VRE 2

- User- and research practice-focused
- Developmental
- Unified design & development approaches
- Integrated solutions

- Collaboration
- Supporting small & large-scale research
- Support for single-disciplinary and multi-disciplinary research

- The e-Infrastructure programme is primarily concerned with consolidating and building on work to establish an e-infrastructure undertaken with other partners during the initial five-year investment in the UK e-science programme.
- e-Infrastructure embraces networks, security, grids, data centres, specialist services and collaborative environments, and can include supporting operations centres, service registries, single sign-on, certificate authorities, training and community support services. The range of e-Infrastructure developments is already maturing: grid computing is now typically used as a basis for the computation and data management required by collaborative research, and JISC investments such as in virtual research environments and Shibboleth are presently being adopted.

Community Engagement and Support

Knowledge Organisation and Semantic Services

Grid Services and Tools

e-Infrastructure Security

Apr 06

Sep 06

Mar 07

Sep 07

Mar 08

Sep 08

Mar 09

Community Engagement and Support

A1 A&H Research Projects

Joint AHRC/JISC Call

A2 Data Curation

A3 Barriers to take-up.

A4 Tools and Standards

A5 Use Cases/Service Use

User Engagement Call
Community Engagement and Support

e-Infrastructure Security

B1 ID Management and LOA

B2 Core Functions

B3 Federated Tools and Services

B4 VO Mgt Tools and Services

Grid Services Access Management Call

Grid Services and Tools

C1 OMII-UK

C2 NGS

C3 Accounting/Usage Management

Accounting/Usage Management ITT

Accounting/UM Call

Knowledge Organisation and Semantic Services

D1 Text Mining

D2 Semantic Service Registry

D3 Semantic Co-ord of Services

D4 Semantic Co-ord of VOs

Text Mining Call
Semantic Services Call
Knowledge Organisation Call

Joint Information Systems Committee

Direct Funding

Open Call

Invitation to Tender

■ e-Infrastructure Programme:

- http://www.jisc.ac.uk/whatwedo/programmes/programme_einfrastructure.aspx

■ VRE Programme:

- http://www.jisc.ac.uk/whatwedo/programmes/programme_vre.aspx
- http://www.jisc.ac.uk/whatwedo/programmes/programme_vre/vre_solutions.aspx

■ VRE2 Programme:

- http://www.jisc.ac.uk/publications/publications/pub_vreroadmap.aspx

■ JISC Capital Programme:

- http://www.jisc.ac.uk/whatwedo/programmes/programme_capital.aspx

■ Sign up to JISC-ANNOUNCE

- <http://www.jiscmail.ac.uk/cgi-bin/webadmin?SUBED1=jisc-announce&A=1>

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