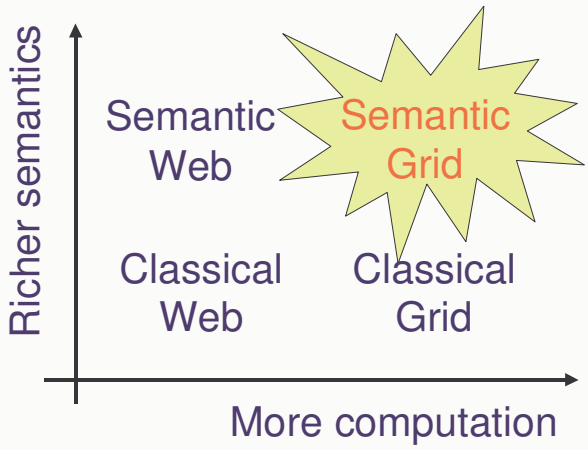
The Semantic Grid

www.semanticgrid.org

e-Science offers a promising vision of how computer and communication technology can support and enhance the scientific process. It does this by enabling scientists to generate, analyse, share and discuss their insights, experiments and results in a more effective manner. The Grid provides the underlying computer infrastructure.

At this time, there are a number of grid applications being developed and there is a whole raft of computer technologies that provide fragments of the necessary functionality. However there is currently a major gap between these endeavours and the vision of e-Science in which there is a high degree of easy-to-use and seamless automation and in which there are flexible collaborations and computations on a global scale.

The **Semantic Grid** is a vision of the infrastructure that is needed to support the full richness of Grids and the e-Science vision, drawing on research and development in both the Grid and the **Semantic Web**.



Several e-Science projects are developing Semantic Grid technologies and establishing best practise, with increasing activity in Europe and the US.

See the Web site for more information, including the original 'Research Agenda' by David De Roure, Nicholas Jennings and Nigel Shadbolt, plus new Semantic Grid papers and presentations, news and events.

Global Grid Forum
Semantic Grid Research Group

This group was approved as part of the GGF Architecture Area in 2002. The goal of the group is to realise the added value of Semantic Web technologies for Grid users and developers. It will provide a forum to track Semantic Web community activities and advise the Grid community on the application of Semantic Web technologies in Grid applications and infrastructure, to identify case studies and share good practice.

Chair: **David De Roure**, University of Southampton, UK
Co-Chair: **Carole Goble**, University of Manchester, UK
Co-Chair: **Geoffrey Fox**, Indiana University, US
Secretary: **Bruce R. Barkstrom**, NASA Langley, US

To subscribe to the mailing list, send a **subscribe sem-grd** message to **Majordomo@gridforum.org**
More details available on the home page **http://www.semanticgrid.org/GGF/**

For further information about Semantic Grid activities and projects, or to provide comments or express interest, please contact David De Roure in the *Grid and Pervasive Computing Group*, Department of Electronics and Computer Science at the University of Southampton, UK.
Email **dder@ecs.soton.ac.uk**