

OMII-UK

using standards to deliver a service

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Our Mission...

OMII-UK aims to provide **software and **support** to enable a **sustained** future for the UK e-Science community and its international collaborators**

Keep the UK e-Science community happy

- Provide software which fulfils user requirements
- Provide consultancy that helps the individual user
- Provide support services which help the community

OMII-UK: Adding benefit to e-Science

- More than just the middleware
 - go above the components to provide added value
- Skilled team to help the community
 - putting the right things together, integrating components
 - providing consultancy and support to improve takeup
 - developing, commissioning and improving software



The Four Levels of e-Science Enlightenment



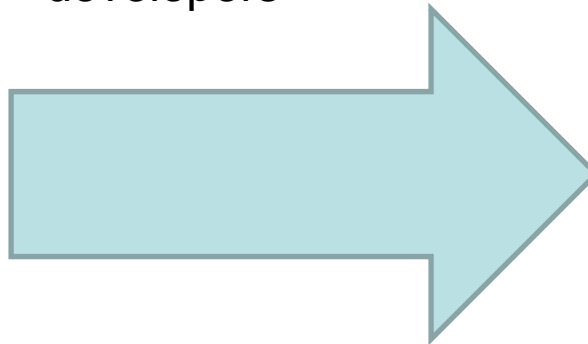
- 1) **Resources:** Providing access to a larger and wider diversity
- 2) **Automation:** Repeatability and management of experiments
- 3) **Collaboration:** Intra + cross disciplinary networks
- 4) **Participation:** Increasing access to a wider set of users; increasing knowledge in a domain

Changing the direction of the provision

“We are farmers, not hunter-gatherers”

Developers

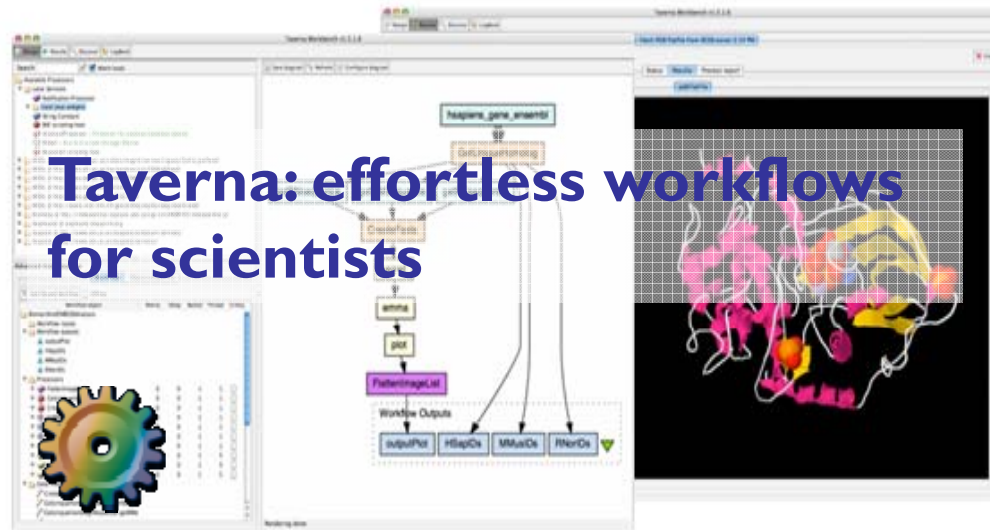
Productise software
on behalf of the
developers



Sustain
software on
behalf of the users

Users

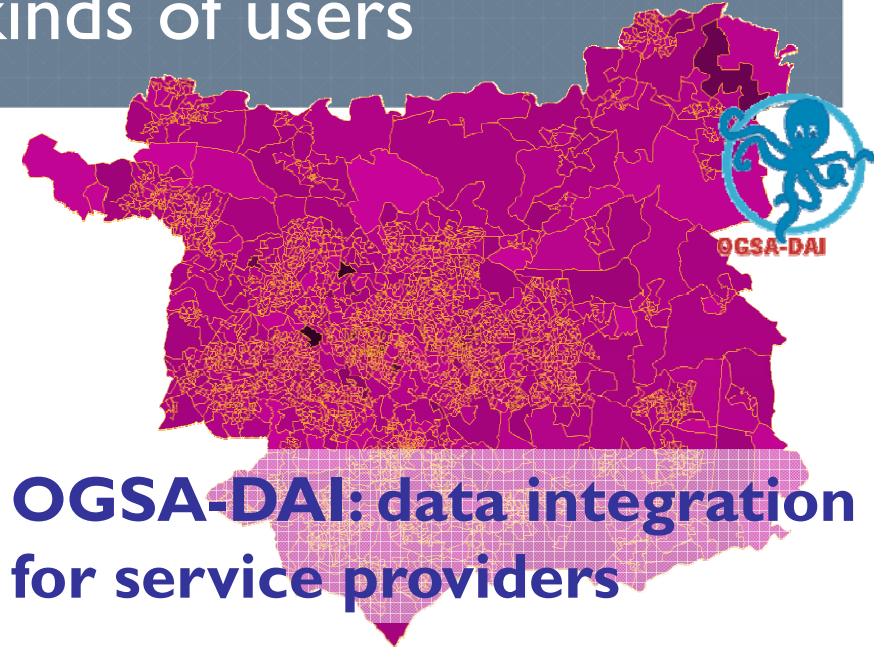
OMII-UK: Software for all kinds of users



Taverna: effortless workflows for scientists

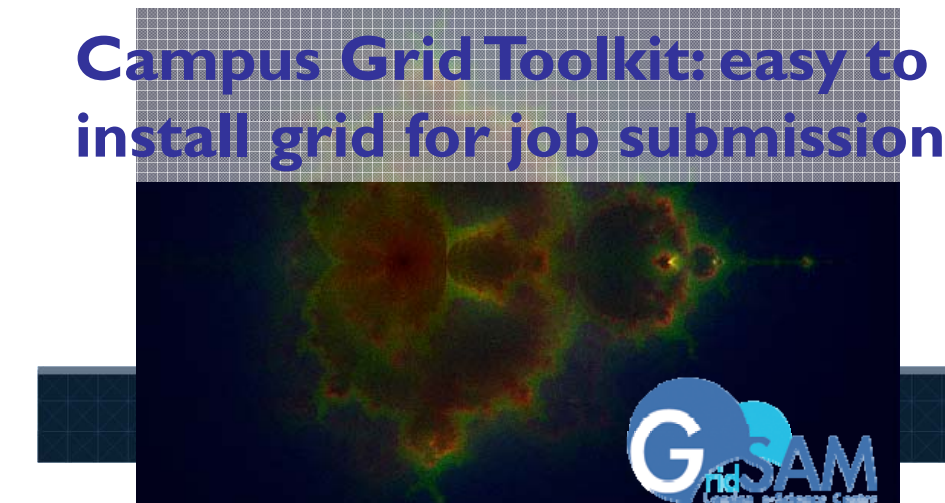
The screenshot shows the Taverna workflow editor interface. On the left, there's a 'Workflow Diagram' with a central 'DataStore' box connected to 'FetchFromURL' and 'FetchFromFTP' boxes. Below these are 'inputPIDs', 'inputURLs', 'inputMMXIDs', and 'inputRIDs' boxes. On the right, a 'Result Panel' displays a 3D protein structure with pink and yellow components. A gear icon is visible in the bottom left corner.

Taverna user Interface with a workflow diagram and the result panel displaying a protein structure.



OGSA-DAI: data integration for service providers

The image features a map of the United Kingdom with a blue octopus logo in the top right corner. The text 'OGSA-DAI' is written in red below the octopus. The map is overlaid with a grid pattern.



Campus Grid Toolkit: easy to install grid for job submission

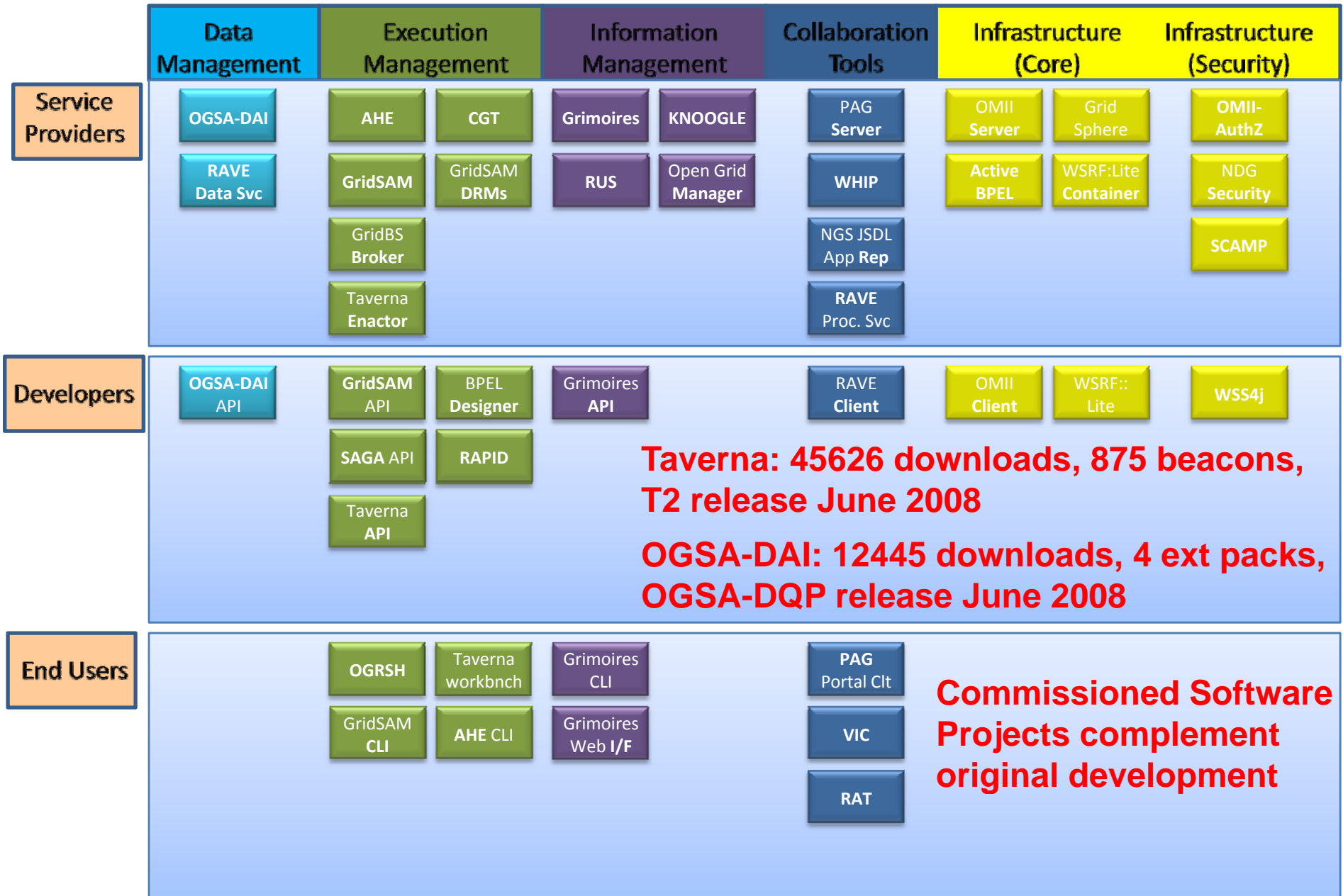
The screenshot shows the Campus Grid Toolkit interface. It features a grid map with a color gradient from green to red. In the bottom right corner, there is a logo with the letters 'G' and 'SAM'.



PAG:AG videoconferencing for anyone

The screenshot shows the PAG:AG videoconferencing interface. It displays a meeting room with a grid of video feeds for participants. The interface includes a 'Participants' list, a 'Chat' window, and a 'Video' control panel. The text 'PAG:AG videoconferencing for anyone' is overlaid on the image.

OMII-UK Components



Standards that we support

- AuthZ
- BPEL
- HPCP
- JSDL
- LSID
- OGSA BES
- OGSA BytelO
- OGSA RNS
- OGSA RUS
- OWL
- RDF
- SAGA
- Shibboleth
- SQL
- UDDI
- WS-DAI
- WS-RF
- WS-Security
- XPath
- VIC/RAT related

What's required by each user?

- End Users
 - choice, cost efficiency, ease of use, “interoperability”
- Developers
 - speed of development, functionality, reusability
- Providers
 - stability, robustness, ease of upgrade
- Standards *can* aid the provision of these requirements
 - especially in a heterogeneous environment
 - not a “magic bullet” solution

Summary

- OMII-UK provides services to researchers
 - improve the use of e-Science software
 - improve the sustainability of software, tools and services
- Open specifications are important, especially in heterogeneous environments
 - but OMII-UK also concentrates on APIs, outreach, QA and community building to achieve its mission
- OMII-UK is committed to helping develop specifications through implementation and interoperation