Scientific portals and workflows, how and for whom ?

# Abstract

We reflect about user profiles and their requirements for gateways and scientific workflow management systems based on the practical experience of the heliophysics communities within the

ER-flow and the SCIBUS projects.

# Description of work

Around a scientific gateway there are many different user profiles, each with their own requirements and preferences. At the one end, there are scientists that can be divided into those solely interested in the results of the investigation, and those who share an interest in the workflow technology. There also are developers of workflows and portlets for the portal, who have a different view, although significant overlapping can occur. Their interest is more focused on the enabling technology (debugging and logging, application programming interfaces, etc.) rather than on the scientific results. We reflect on the different user profiles and draw conclusions on the experience of the heliophysics community.

# Wider impact and conclusions

The study of user profiles is fundamental to drive the analysis for further development of gateways frameworks and workflow management system. Although small in its size, the experience with HELIOGate has highlighted some pattern that is also shared by other two communities of ER-FLOW. From these experiences, we draft some guidelines for future development of workflow systems and gateways.

# URL(s) for further info

HELIO - <http://www.helio-vo.eu>

ER-FLOW - <https://www.sci-bus.eu>

SCI-BUS - <https://www.erflow.eu>

TAVERNA - <http://www.taverna.org.uk>

myExperiment - <http://www.myexperiment.org/>

SHIWA - <https://www.shiwa-workflow.eu>

SHIWA Repository – <http://shiwa-repo.cpc.wmin.ac.uk>