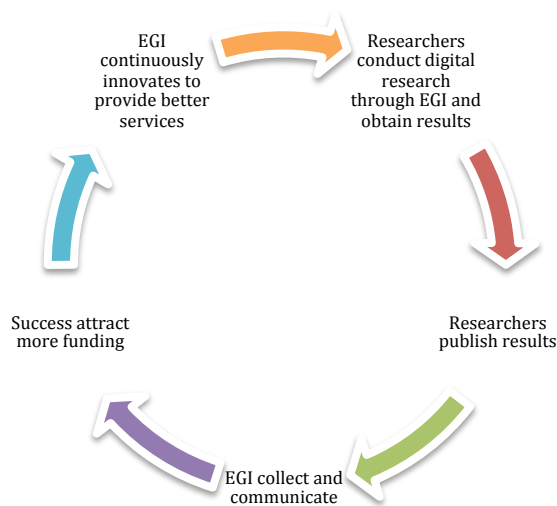# VT EGI Scientific Publications Repository - Recommendations

The ultimate goal of EGI is to support researchers in achieving faster, better and newer scientific results. Therefore, it is of utmost importance to track all the scientific publications that have been possible thanks to EGI in order to demonstrate its real scientific impact. Tracking the scientific outputs based on EGI has been always difficult because of the geographically dispersed communities that use the infrastructure and the lack of well-defined processes and tools. The Scientific Publications Repository Virtual Team was created in June 2012 to mitigate this issue by analysis and recommending policies, procedures and tools to improve the process of collecting scientific publications that used EGI resources for better demonstrating the EGI impact on science.

There are three main weaknesses that have been identified and are blocking the virtuous cycle presented here to effectively function:

1) Researchers may not be aware that they are using EGI resources as being hidden by high-level services (e.g., scientific gateways), therefore they may lack the needed information to cite EGI;

2) Researchers may be aware of using EGI resources, still not citing EGI for lack of awareness of the importance;

3) Researchers may have cited EGI in their publications, but EGI has no mature processes and tools to collect the scientific publications.

In order to improve the effectiveness of the above virtuous cycle, we recommend the adoption of the following recommendations. First of all, EGI.eu should identify (and ensure its provision) a central tool to collect scientific publications connected to the infrastructure. After, an analysis of the available options, the VT also recommends to liaise with the OpenAIRE initiative (http://www.openaire.eu/) who has developed a portal and infrastructure to collect references to all scientific publications (and in the future related datasets) that are possible thanks to EC-funded projects. The VT interacted with the representatives of the OpenAIRE initiative and discussed a number of new features that can be implemented by OpenAIRE through their available funding to enable an infrastructure-oriented usage of the portal with both automatic and manual capabilities to populate the publication catalogue. The automatic capability envisions the possibility to define text-mining rules to analyse publications available in a growing number of repositories and publishers connected to OpenAIRE to match citations and extract desired relationships (e.g., pub-infrastructure, pub-VO, pub-scientific discipline). The manual capability enables a researcher (or his/her delegate) to add a publication by simply inserting the Digital Object Identifier (DOI) and select the relevant extra information (e.g., scientific discipline, VO). The OpenAIRE project is keen on implementing an initial set of EGI requested features by February 2013 and enabling a test phase so to roll out the new capabilities by April 2013. The role of EGI would be to provide requirements and participate in the test phase.

Recommendation 1: Provide a central tool to collect the scientific publications produced using EGI

EGI.eu should ensure the provision a central service to collect the scientific publications which work used EGI and related services. In order to be cost-effective and align with EC policies and investments, it is recommended to collaborate with the OpenAIRE project to obtain a customised version of their portal delivered as a service enabling to:

- View of all publications connected to EGI
- Manually add publications from researchers supporting the categorisation by 1) funding project, 2) infrastructure (default: EGI), 3) scientific discipline(s) and 4) virtual organisation(s) to which the publication is related to; the portal should support federated authentication and should minimise the burden to the researcher (e.g., the researcher should providing only the DOI of the publication in order to retrieve all the publications metadata)
- Automatically harvest publications from repositories or publishers connected to OpenAIRE by adding text mining capabilities searching for EGI citations; notification of discovered publications should be sent to an EGI.eu contact for verification and integration of information through NILs

Recommendation 2: EGI.eu should revise and maintain a consistent classification of scientific disciplines across the various services (e.g. AppDB, Scientific Publications Repository, operations portal, CRM)

Recommendation 3: The collection of scientific publications should include at least peer reviewed publications (e.g., articles in scientific journals or conference proceedings) and PhD/MSc thesis

The VT proposes to amend the Grid Acceptable Use Policy (AUP) to add an article about citing EGI similarly to what was defined by XSEDE (https://www.xsede.org/usage-policies).

Recommendation 4: Obligation to cite

EGI.eu should add the following article to the Grid Acceptable Use Policy (AUP):

Acknowledgment of EGI and Resources Used: Acknowledgment of support from EGI/NGIs should appear in the publication of any material (whether copyrighted or not) that is based on or developed wholly or partially with EGI/NGIs resources. Papers, presentations, and other publications that feature work that relied on EGI/NGIs resources, services or expertise should include the following acknowledgement (in square brackets, optional parts: "This work used the European Grid Infrastructure (EGI) [through the National Grid Infrastructures (NGIs) NGI_1, NGI_2, …] [as part of the VONAME Virtual Organisation] [and is supported by the EC-funded project PRJ_NAME Grant number XXXXX]".

Researchers should be informed of the new processes and tools through a communication campaign and engagement mechanisms.

Recommendation 5: Inform researchers/EGI users

EGI.eu should develop a communication campaign to engage researchers in mentioning the usage of EGI in their publications; this campaign should explain the value of citing EGI, the AUP obligation and use rewarding mechanisms (e.g., prizes at EGI community events for authors of papers who cited EGI, showcasing the papers on the Inspired newsletter and as case studies on our website)

The use of EGI should be more visible to researchers through dedicated links in user interfaces.

Recommendation 6: Expose EGI in user interfaces

EGI.eu should build and information page (e.g., http://cite.egi.eu) and liaises with user interface developers (e.g., scientific gateways) to link to this page. The web page should explain to end users what is EGI, the importance of mentioning it in scientific publications and how to cite

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https://wiki.egi.eu/wiki/VT_Scientific_Publications_Repository