

## Fire and smoke simulation - EGI research community - invitation to join

Dear Professor,

European Grid Initiative (EGI <http://www.egi.eu/>) coordinates European Grid Infrastructure (built by former EU projects DataGrid 2002-2004, EGEE-I, -II and -III 2004-2010). EGI provides large amount of High Performance Computing resources to scientists and researchers to be used in their work and computer simulations.

We are offering EGI infrastructure's computing capacity to wide scientific and research communities from different domains. Now, we decided to contact fire simulation experts.

The aim is to create a fire simulation community which may be interested in starting to use EGI infrastructure to simulate different kinds of fire, e.g. forest fires (including mega fires simulation and prediction), human built structures fires (tunnels, houses, cars - possibly including evacuation of people), etc.

Bigger computing capacity will enable the experts to run more complex and more precise simulations, and the simulations can run in shorter time. We hope that fire simulation experts will be interested in usage of EGI infrastructure.

In a short time, you will be contacted by International Liaison of NGI - National Grid Infrastructure in your country. You can thus receive more information on EGI, NGI, HPC, cluster, grid, and cloud computing and resources, as well as about support provided to users of the infrastructure.

In the scope of EGI-Inspire Virtual team project (VTP) "Fire and smoke simulation" (see info at [https://wiki.egi.eu/wiki/VT\\_Fire\\_Simulation](https://wiki.egi.eu/wiki/VT_Fire_Simulation)), we gathered some requirements of Fire simulation applications towards EGI grid environment. First of all, we need to know:

- 1) What are the key applications, software tools in the fire and smoke simulation area?
- 2) Which one of these would benefit from integration with EGI/NGI services?

Final report of the VTP can be found at <https://documents.egi.eu/document/1341>.

After finishing the first phase of VTP, we are preparing continuation of this effort.

We invite you and your colleagues to join the VTP "Fire and smoke simulation 2". The main goal of the VTP will be the creation of Fire simulation community with possibility to create later a new Virtual organization (VO), if there will be interest from domain experts as well as from NGIs in respective countries.

We are looking forward to our collaboration.

Best regards,

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For more information:

1. EGI-InSPIRE project presentation at <https://documents.egi.eu/public/ShowDocument?docid=506>  
(document is publicly accessible - request for a certificate can be 'cancelled')

*slide no 50:*

*"EGI cannot support all services for all users*

*Every community needs something different"*

2. EGI Annual Report 2011–2012

[http://www.egi.eu/export/sites/egi/results/EGI\\_AnnualReport2011.pdf](http://www.egi.eu/export/sites/egi/results/EGI_AnnualReport2011.pdf)