

Application Porting Support SSC and proposal

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- **EGI will attract new users!**
- **Some of the scientific SSC proposals may be rejected**
- **Not every NGI and SSC will have the resources and/or experience to serve local application porting needs**
 - UMD will include several middleware stack → Life will be tougher!
- **Grid applications are similar to each other**
 - They are classifiable based on their structure
 - Exemplars, case studies can be provided
 - Reusable elements can be identified and provided

- **The SSC**
 - For those NGIs that intend to provide application porting services for its users (ideally every NGI)
 - Technical analysis of user applications and targeted grid use-cases
 - Consultancy (short, customized & focused training)
 - Re-usage, tailoring existing solutions for the application
 - Coding, porting, usability analysis
 - Application is open since July
 - Announced at previous SSC workshop in Orsay on the 1st of July
 - SSC outline document and application form were sent to NGI representatives
 - Interest from several NGIs, but expect more:
 - Hungary, Croatia, UK, Poland, Armenia, Greece, Italy, Scandinavian countries
 - Taiwan
- **The proposal**
 - To involve funding for a few porting centers in order to have a core EGI Application Porting Team
 - Provide service at the international level
 - Partners with long running experience!
 - **With reusable outcome!**

- **Help new and existing users of EGI enable applications on the infrastructure**
 - Technical analysis of user applications and grid use-cases
 - Consultancy (short, customized & focused training)
 - Re-usage, re-tailoring existing solutions for new applications
 - Coding, porting, usability analysis
- **Enable scientific communities develop and establish their own application porting teams**
 - Producing porting case studies and documentations and making those publicly accessible (Through EGI.eu)
 - Synthesizing ported codes into reusable elements and making those publicly available
- **Lower barriers for individuals and communities to use EGI and similar DCIs**
 - Further developing *generic* porting tools and *generic* grid application development environments

- **Coordinator:**
 - Gergely Sipos, MTA SZTAKI, sipos@sztaki.hu
- **Call:**
 - FP7-INFRASTRUCTURES-2010-2
- **Topic:**
 - INFRA-2010-1.2.2: Simulation software and services
- **Funding scheme:**
 - Combination of Collaborative Projects and Coordination and Support Actions (CP-CSA)
- **Project duration:**
 - 24 months
- **EC Requested contribution (very preliminary):**
 - 2 - 2.2 M€

- **NA activities: (~4,5 FTE)**
 - Management (~1,5 FTE): Not only the project, also the SSC?
 - Synthesizing reusable modules & exemplars for porting projects (link to NGIs, scientific SSCs, new communities)
 - Managing the collection of reusable, grid-enabled applications
 - Content creation for training and dissemination purposes (link to EGI.eu & CUE)
- **SA activities: Porting services (~6 FTE)**
 - On-demand: serving currently unknown application requests
 - Possibility to reallocate effort between porting centers
 - Possibility to reallocate travel budget to clients
 - For existing communities: fixed set of applications, each with a know workpland
- **JRA activities: Porting tools (~4 FTE)**
 - Data management: further development of reusable tools for processing large datasets (particular interest for ESFRI)
 - Compute intensive: improve the reliability of job execution in unreliable environments
 - Portals, gateways: solution to offer ported applications via the Web as software services

- **MTA SZTAKI (gLite, Desktop grids), Hungary**
- **INFN (gLite), Italy**
- **GrNet (gLite), Greece**
- **University of Westminster (Desktop grids, Globus), UK**
- **NIIF (ARC), Hungary**
- **University of Warsaw (UNICORE)**
 - All have several year experience on application porting and user support *with several creditable references*
 - *Application forms*
 - Even geographical coverage in Europe
 - 2 partners from Hungary → Knowledge transfer between ARC and gLite teams

- **Collect and define some porting projects**
 - **Input requested from Scientific SSCs**
 - Code that is interesting for a large community
 - You cannot cover it in your Scientific SSC proposal
 - You don't plan an SSC or proposal

- **EGI.eu to collect and forward porting requests**
 - From NGIs
 - From SSCs
 - From CUE
 - From new contacts

- **Additional opportunities**
 - Provide F2F “porting consultancy” at CUE events
 - Provide content for CUE dissemination materials

- **Who will coordinate the Application Porting SSC**
 - If APS proposal is not accepted?

TAPAS:

- Come in different shape, quality, size, complexity
 - You don't really know what you get before it gets on your table
Just like grid applications!
- **Team to Assist Porting Applications to e-Science infrastructures**
 - **Transferring Assistance and Porting Applications Service**



Thank you