Atmospheric modeling and services (AMoS)

project initiation document

for an

EGI Virtual Team

**https://wiki.egi.eu/wiki/ address**

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| **Abstract**  This Project Initiation Document (PID) proposes the establishment of an EGI Virtual Team (VT) to will investigate and report on Atmospheric Modelling and Services. The VT will comprise membership from researchers and NGIs. This activity constitutes a minor project is to last less than 6 monthsand it is envisaged that completion of the deliverables will require a level of effort of xxxx Person Months. |

1. Document Log

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| 1 | 25/5/2014 | Launching AMoS in the EGI-CF 2014 Helsinki | E. Katragkou /EGI champion |
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1. Application area

This document is a public report produced by the members of the EGI Virtual Team project, run under the EGI-InSPIRE NA2 virtual team framework. Further information is available at <https://wiki.egi.eu/wiki/Virtual_team>.

1. Terminology

A complete project glossary is provided at the following page: <http://www.egi.eu/about/glossary/>.

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# MOTIVATION/Introduction/Background

Understanding Earth’s climate and its links with atmospheric composition is a scientific challenge gaining a lot of attention in recent years, due to its significant implications for human society and the environment, especially in view of climate change. Climate extremes are expected to occur more frequently in the near future according to the latest IPCC[[1]](#footnote-1) assessment reports, while anthropogenic activities continue to alter atmospheric composition. The provision of trustworthy science-based atmospheric information to government, public and private decision makers is a fundamental prerequisite for properly managing the risks society is facing.

Atmospheric regional models are computer-based tools used for the study of the climate system (climate models) and atmospheric composition (chemistry/air quality models), providing climatic and air quality information on regional and/or local scale. It is very important that these tools produce credible information in high resolution, necessary for the assessment of impacts on society and the provision of adequate services, with respect to health, agriculture, ecosystems, energy planning etc. This is a quite challenging topic requiring advanced scientific and technical skills, along with advanced research infrastructures.

The major constrains of current modeling studies can be summarized in the limitations of storage and computational resources and most importantly, in the fragmented management of the huge amount of scientific information produced, its post-processing and easy access by stakeholders. EGI may play a vital role towards this direction, by providing i) the technical expertise for data management ii) supporting the organization of complicated work-flows included in atmospheric modeling iii) disseminating the atmospheric services produced by VT members to the stakeholders.

# AimS

The AMoS VT aims to support and assist the networking of research groups and NGIs involved in atmospheric modeling, by identifying technical issues of common interest and investigating for joint solutions within the EGI framework. As a starting point, the following actions could be initiated:

* Develop dynamic sub-groups within AMoS VT (climate modeling, climate/air quality modeling, air quality modeling) and assigning sub-group leaders and participants (researchers and NGIs)
* Document the current atmospheric modeling applications used by VT members and their status with respect to EGI
* Disseminate internally and externally all EGI operations supported by the VT members
* Integrate new applications into EGI to support old and new users
* Map the needs for new services
* Network for H2020

## sub-para

*You may need to work to a revised set of Aims if after starting you realise that the originally set objectives were un-achievable with your available resources.*

# Justification/Value

*Why are you doing this?*

# Method

*What method is to be used for achieving the outcome. teleconferences? other forms of research? How will the findings be tested and validated. This section could be left till the project has actually started but it is a vital part of the plan and needs to be thought through at a very early stage.*

# Required resources

*Explain that you intend to run the project through use of a Virtual Team. How is the VT to be resourced and how will they work. How much effort will be required, how will this effort impact contributing organisations? – do not confuse VT participants with stakeholders. VT participants do work for the project – others don’t have to do any work for the project,*

## Participants

*General description of how the VT is to be made up. The full list of participants with estimated levels of effort for each individual should be in an Annex or Appendix as it is probably too much detail for this part of this document.*

## Timeframe

# Reporting

*The Project Manager will provide a short emailed progress report on a weekly basis. The report will be due by 17:00 on Fridays and is to contain details of:*

* *Work achieved that week*
* *Work planned for next week*
* *Progress against the goals in the project plan*
* *Issues that the virtual team leader needs help with (e.g. non-responsive partners, more resources, support from EGI.eu teams, etc.)*

*Monthly, the progress of the Virtual Team against the project plan will be reviewed by???? and an assessment made as to if the project is on track, has completed, is making no or insufficient progress. Depending on the result of this assessment, further action can take place - request for more resources, refinement of the project goals, or shutdown of the activity. This review will be undertaken through a telecon with the Virtual Team project manager and the NA2 task leaders.*

*The VT project manager will also provide a more comprehensive input for the NA2 section of the EGI InSPIRE quarterly report.*

# outcomes/deliverables

*What deliverables are going to be produced?*

## sub-para

1. http://report.mitigation2014.org/spm/ipcc\_wg3\_ar5\_summary-for-policymakers\_approved.pdf [↑](#footnote-ref-1)