YESTERDAY WAS DRIHMS AND WAS A DREAM.

NOW IS DRIHM AND IS THE FUTURE!

www.drihm.eu
DRIHM will allow specialists to enter the e-Science environments more easily and at the same time stimulate use by non-specialists. The DRIHM virtual community is then composed of different groups of users: HMR researchers, public organizations, and “citizen scientists” interested in HMR and related Earth science disciplines.

The deployment and use of the DRIHM e-Science environment through the HMR community and related disciplines is expected to:

- Allow and improve access to HMR models, tools and data without the constraints of distance, access, usability and scientific barriers;
- Change and adopt the HMR discovery process in terms of computing, simulating, data processing and visualization; Enable a growing number of HMR (and related Earth Science) users to engage in open, cross-border and cross-discipline collaboration;
- Promote HMR cost-efficiency and related resource utilization;
- Attract non-specialist users such as members of the public and students who are interested in learning more about hydrometeorology, but also public services such as civil protection agencies who will be potential beneficiaries.

The key objectives of the DRIHM e-Science environment are:

- The provisioning of integrated HMR services (such as meteorological models, hydrological models, stochastic downscaling tools, decision support systems, observational data) enabled by unified access to and seamless integration of under-lying e-Infrastructures (networking, computing and data infrastructures and services).
- The design, development and deployment of user-friendly interfaces aiming to abstract HMR service provision from the underlying e-Infrastructure complexities and specific implementations, thus enabling multidisciplinary and global collaboration between meteorologists, hydrologists and possibly other Earth scientists.

- The support of an HMR e-Science environment enabling the user-driven “composition” of virtual facilities in the form of hydro-meteorological forecasting chains, composed by different HMR resources (models, post-processing tools, decision support system models and data).
- The establishment of HMR e-Science support centres and corresponding training activities to attract a broad end-user audience comprising of scientists and non-specialists including relevant European Strategy Forum on Research Infrastructures (ESFRI) communities, and citizen scientists.

DRIHM Project Director: Antonio Parodi, CIMA Research Foundation (email: antonio.parodi@cimafoundation.org)