



## **[EISAC.it](http://EISAC.it): a first node of the European Infrastructure Simulation and Analysis Centre. Technologies, services and perspectives**

The start of the "EISAC initiative" is one of the major achievements of the EU FP7 project CIPRNet (*Critical Infrastructure Preparedness and Resilience Research Network*, [www.ciprnet.eu](http://www.ciprnet.eu)).

The first action of such initiative has been the establishment of an international Association (2EISAC, a *Verein* under the German Law) which will coordinate the national EISAC initiatives in the different EU countries and all technological efforts devoted to implement new technologies in the CIP/CIR domain.

By leveraging on a number of technological applications developed in CIPRNet and in other EU projects on CIP, the EISAC initiative aims at capitalizing all previous efforts and providing them a durable exploitation form through the creation of national Competence Centres (the EISAC.xx nodes) able to support the activities of Operators and Public Authorities in CIP.

[EISAC.it](http://EISAC.it) is the prototype of such nodes: it will provide several technologies which will be deployed in favor of end-users committed in CIP/CIR. A major [EISAC.it](http://EISAC.it) technological asset is constituted by a Decision Support System (DSS) called CIPCast which provides an operational (24/7) tool for risk forecast on large areas containing sets of interconnected Critical Infrastructures. CIPCast also contains several modules enabling the prediction of impacts on CI due to earthquakes and flooding, with particular emphasis on impact estimate in large and populated metropolitan areas.

CipCast has been developed by using data from the metropolitan area of Rome and will be described as a first "real scale" DSS working on real urban data.

### **Presenter**

Vittorio Rosato Ph.D.

Head, Laboratory for the Analysis and Protection of Critical Infrastructures  
ENEA Casaccia Research Centre

and

Managing Director, [EISAC.it](http://EISAC.it)

Roma (Italy)