



# PANACEA, proactive autonomic management comes true

**A Consortium of seven leading academic and industry organisations, to provide the tools for proactive autonomic management of cloud resources, achieving improvements of at least 20% in service applications availability**

**Tenerife, June 20, 2015.** Evolution experienced by cloud computing in the last years has far exceeded all expectations, and expert's forecasts for the near future, follow the same trend. Indeed, according to Gartner<sup>1</sup>, the worldwide cloud computing market will grow at a **36% compound annual growth rate (CAGR)** through 2016, reaching a market size of **\$19.5B** by **2016**.

However, these numbers could be even bigger without some of the problems generally associated with cloud computing like the lack of availability and performance. Initiatives like **PANACEA**, which proposes innovative solutions for **proactive autonomic management of cloud services** based on machine learning techniques, work towards solving these problems.

**PANACEA** is a three-year research and development project co-founded by the European Commission, under the FP7 Programme / Objective "Cloud Computing, Internet of Services and Advanced Software Engineering" that aims to provide Proactive Autonomic Management of Cloud Resources (servers, software, database and storage devices) **as a remedy** to the exponentially growing complexity of the cloud environment.

The consortium consists in a highly skilled team composed of specialists from industry and academia who are applying their experience in software development and cutting edge technologies to propose innovative solutions which can **predict the failure** time of software or user applications running on Virtual Machines (VM) and the violation of expected response time of services.

**PANACEA** brings together renowned universities and research institutes (Imperial College London, Universidad Complutense de Madrid, CNRS and IRIANC) along with powerful multinationals (Atos and IBM) and SMEs (like QoS Design). This well balanced mix of R&D specialists with cloud market leaders becomes the perfect combination to ensure the success of the project.

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<sup>1</sup> <http://www.forbes.com/sites/louiscolumbus/2013/09/04/predicting-enterprise-cloud-computing-growth/>



# Press release

The benefits provided by PANACEA and its better management of failing resources, will allow cloud providers to supply more reliable cloud infrastructures. This will translate into lower costs and better performance for users, which in the long term will help to reduce one of the biggest barriers for the adoption of cloud computing, with consequent benefits cloud market and the European Economy in general.

The PANACEA lifecycle has recently overpassed its halfway and although the first outcomes are becoming visible now, the project will continue until **March 2016**. All enquires seeking for information and progress upon the project should visit our Website <http://panacea-cloud.eu> or our Twitter [http://twitter.com/PANACEA\\_EU](http://twitter.com/PANACEA_EU) for subsequent press releases.

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