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↓ openlab – the public-private partnership between  
 ↓, leading IT companies and research institutes –  
 y released a White Paper [PDF] on future IT challenges in  
 scientific research.

Some 96% of our universe is still unknown and the challenges ahead for the scientific community are striking. More than ever, computing is playing a critical role in helping to uncover the mysteries of our universe. In recent years there has been a dramatic rise in the amount and rate of production of data collected by instruments, detectors and sensors for scientific research. The detectors on the Large Hadron Collider (LHC) at CERN produce a staggering one petabyte of data per second, a figure that will increase during the next LHC run starting in 2015. New international research infrastructures are being deployed and are expected to produce comparable – or even greater – amounts of data in various scientific domains,

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neurology, radio astronomy or genetics, and with  
 nts as diverse as Earth observation satellites, high-  
 nce genomic sequencers, neutron diffractometers or X-  
 nas. More than ever, collaboration will play a vital role  
 ng discoveries.

ntext, CERN openlab together with a number  
 ean laboratories, such as EMBL-EBI, ESA, ESRF, ILL, and  
 ers from the Human Brain Project, as well as input from  
 T companies, have published a White Paper defining the  
 s challenges covering the most crucial needs of IT  
 tures in domains such as data acquisition, computing  
 s, data storage architectures, compute provisioning and  
 ment, networks and communication, and data analytics.  
 r of use cases in different scientific and technological  
 described for each of the six major areas of  
 tion.

Continuous collaboration between the research infrastructures  
 and IT companies is more critical than ever to make  
 sure scientific objectives and technological roadmaps are  
 aligned. In the current CERN openlab phase, Huawei, Intel,  
 Oracle, Siemens are openlab partners, while Rackspace is a  
 contributor and Yandex an associate. This White Paper, which  
 results from six months of reflection among IT experts and  
 scientists, represents an exciting context for the CERN openlab  
 public-private partnership in the years to come. It sets the goals,  
 the technical expertise and identifies  
 educational programs required, providing opportunities for  
 future collaboration among CERN, other European laboratories,  
 international scientific projects and leading IT companies to  
 push the limits even further in support of many more years of  
 outstanding scientific discoveries.

*Read the White Paper [PDF]*

Source: <http://home.web.cern.ch/about/updates/2014/05/cern-openlab-future-it-challenges-scientific-research>

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By swissforextrading | June 17th, 2015 | Categories: CERN | Tags:  
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