

## UBIVERTEX - Letter of Intention

Institute/Company

Name: University of Paderborn                      Country: Germany

Activity domain: Scalable Storage and Cloud Computing

Number of employees:         <50         <250        x > 500

Name of the department: Paderborn Center for Parallel Computing PC<sup>2</sup>

Scientific contact

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Challenge descriptions:

Most of the new problem domains faced in IT industry and computer science research are scale-out problems, which cannot be investigated on traditional laptop or desktop computers, but have to be deployed and evaluated on large cluster and grid infrastructures.


The PC<sup>2</sup> is heading the European FP7 MCITN SCALUS network, which focuses on scalable and distributed storage systems. Nearly all of the 16 Ph.D. students enrolled in SCALUS as well as my own Ph.D. students exactly face these scalability problems and have great difficulties to scale out their solutions and therefore to proof the applicability of their results.

UBIVERTEX is filling a huge gap in the European science infrastructure, as it does not only include multiple sites, which help to capture the distributed nature of storage and Cloud environments, but also offer a reasonable amount of virtualized nodes at each site, so that even system research could be deployed. Such an environment will definitely help to strengthen the European system's research position as well as the opportunity to transfer results into industry, as their applicability can be demonstrated.

Type of commitment (internship, Phd grant, engineering staff):

SCALUS funds 16 PhD students, where most of the students would be also involved in UBIVERTEX.

Signature of  
Scientific Contact:



André Brinkmann

Date: 10. September 2011