

CENTRE FOR PARALLEL COMPUTING RESEARCH PROJECTS

CLOUD-SME: CLOUD-BASED SIMULATION PLATFORM FOR MANUFACTURING AND ENGINEERING

Funding Body:	EU	Programme:	Framework Programme 7
Start Date:	01/07/2013	End Date:	31/12/2015

Partners

- University of Westminster, UK (Coordinator)
- Laboratory of the Parallel and Distributed Systems in the Computer and Automation Research Institute of the Hungarian Academy of Sciences (MTA-SZTAKI), Hungary
- Scaletools AG, Switzerland
- University of Zaragoza, Spain
- Cloudbroker GmbH, Switzerland
- Brunel University, UK
- Cloudsigma AG, Switzerland
- ASCOMP GmbH, Switzerland
- SIMUL8 Corporation, UK
- Ingenieria Y Control Electronico SA, Spain
- 2MoRO Solutions SARL, France
- Podoactiva SL, Spain
- Saker Solutions Ltd, UK
- Eurobios SAS, France
- Charles Robinson (Cutting Tools) Ltd, UK
- Sander-Werbung GmbH, Germany



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Synopsis

Simulation can significantly improve the competitive position of manufacturing and engineering companies by reducing their costs and resulting in more efficient development, production, procurement, logistics or financial processes. However, the take-up of simulation software by SMEs has until now been low due to high barriers of entry that include hardware prices, licensing costs and technical expertise. The CloudSME project will develop a cloud-based, one-stop-shop solution that will significantly lower these barriers, provide a scalable platform for simulations, and enable wider take-up of simulation technologies in manufacturing and engineering. The CloudSME Platform will support end user SME's to utilise customised simulation applications in the form of Software-as-a-Service (SaaS). Simulation service providers and consultants will have access to a Platform-as-a-Service (PaaS) solution enabling them to quickly assemble custom simulation solutions in the cloud for their clients. The CloudSME Simulation Platform will be built on existing and proven technologies provided by the project partners and partially developed in previous European projects. The project consortium includes experienced partners, incorporating 12 SME's, from cloud hardware and platform providers, to simulation software providers, end users and technology integrators.