_Simulation for manufacturing & engineering_

# CloudSME Project – brings companies closer to simulation

**Enhance your productivity by using simulation!** The EU project CloudSME will lower the traditional burden for small and medium-sized companies from the manufacturing or engineering industry, using simulation. Making the software available on the CloudSME simulation platform (CSSP), simulation is no longer limited to expert users but can be used as a Service (SaaS) by every manufacturer or engineer to solve industrial problems. The platform, which the project aims to establish, will give access to large-scale simulations for users that do not own the required high performance computing (HPC) resources and software licenses and thus lower the entrance barrier to a wide user group.

## Why simulation?

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.

Developing a new business idea for example or investing in new technologies and methods poses a huge challenge to company start-ups and small and middle-sized companies. Simulation enables the pre test of products and technologies before putting them into practice and thus will avoid bad investments.
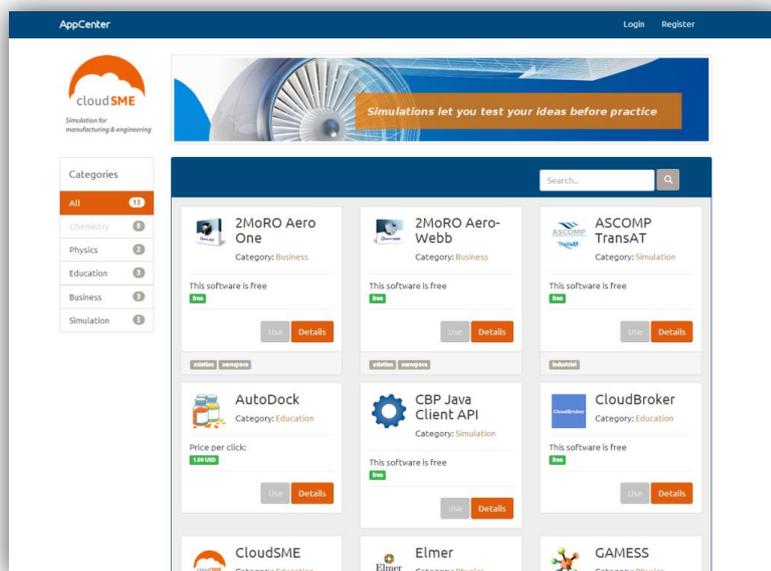


Figure 1: Choose your right software solution on the CloudSME platform

The CloudSME Simulation Platform is especially suitable for many different forms of modeling and simulation, big data analysis and optimization. For example, it is being used to support the HPC requirements of computational fluid dynamics particularly in the prediction of fluid-fluid and/or fluid-solid multiphase flows used in a wide variety of industries. Other current projects being supported by the CSSP include 3D insole modeling, discrete event simulation for manufacturing and supply chain optimisation, capacity management or maintenance planning, and data mining for the optimisation of aircraft maintenance.

## You can benefit equally, applying for CloudSME project!

As an end-user company you can either apply for one of the existing use cases or simply with your special simulation need, to be matched with the right software vendor in the Open Call. In the attached information paper you'll find a detailed report on the already existing use cases.

## Your benefits at a glance

- Simulation will dramatically enhance your productivity and your competitive capability, enabling you to avoid problems in your working processes, before they actually occur.
- Using simulation software will enable you to explore new business models.
- As a manufacturing or engineering company, you can apply with your special simulation need and use the Software-as-a-Service on the CloudSME platform, without the need of technical skills or an own hardware infrastructure (one-stop-shop, pay-per-use).
- Every use case will be supported practical and financial by the project.

## Your application for the Open Call

CloudSME project is funded by the European Commission to support software vendors or manufacturing and engineering companies with cloud-based simulation software. The current project consortium incorporates four academic partners and twelve software and end-user companies. In an Open Call another ten partners from both sides will be found for participating.

If you are interested in participating in the project, please apply for our open Call from May to June. Further information about the Open Call will be available on our website (www.cloudsme.eu) by May 2014.

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