

# Cloud Computing & Advanced IT Solutions

demand driven & as a service



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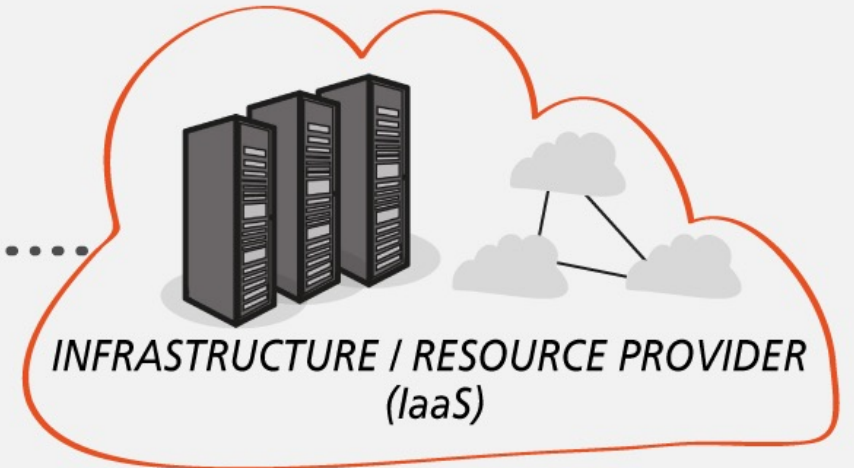
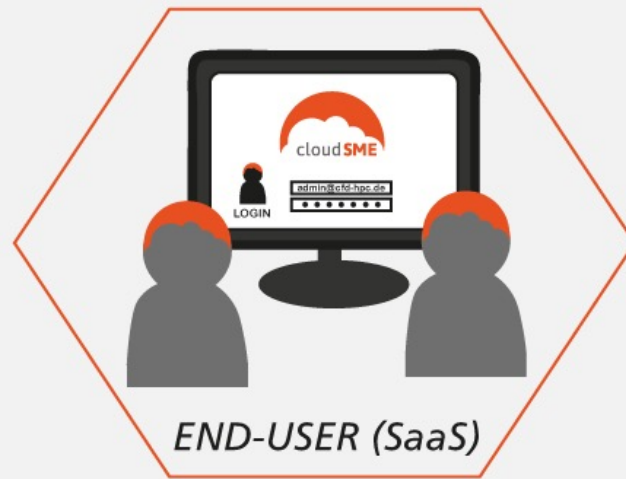
# Journey of cloudSME



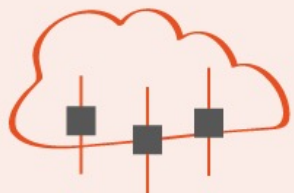
- Company founded 01-2016 out of a former Research Project (cloudSME project, started 2013)
- Company is supported by international **Advisory Board** with leading IT and Simulation experts
- Located in Germany, Duisburg
- Business:
  - Operation and further development of CloudBroker Platform, private portals
  - Software development with focus on “Cloud Native & Scaling Technologies”, fostering the European cloud landscape, SaaS-Solutions
- **I4MS member - European Competence Center for Cloud- and HPC computing / Simulation, associated with the European Network of Digital Innovation Hubs**
- **Current engaged in one HORIZON2020 project (DIGITbrain.eu)**



**Multi-Cloud Platform**  
**Application & Resource Monitoring**  
**Consumption based Billing**



PLATFORM FUNCTIONALITIES



CONFIGURATION



SEAMLESS ACCESS



SERVICE ORIENTED  
ARCHITECTURE



ENCRYPTED



ADMIN



API



VIRTUAL MACHINES

# Interactive Workspace for Manufacturing Engineering



*advanced ICT software, training, consulting, matchmaking & more.*

**Business contact:** cloudSME - Cloud Architects

Outcome of the CloudiFacturing project, finished September 2021



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[blog.emGORA.eu](http://blog.emGORA.eu)

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**ALPHA PHASE will start soon.**

*Thank you! Let's stay in touch.*



Cloud  
Architects

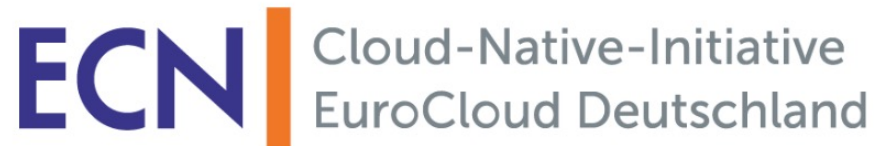
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*We are an European Competence Center for cloud-based HPC Simulation!*





# Cluster on demand portal

**SyMSpace – Software**  
(Application layer)

## **Application Layer**

Created & owned by LCM

Accessed by LCM customers  
(end users): engineers

**Cluster on demand - Portal**  
(Administration of infrastructure, user & user roles  
administration, Software maintenance cycle)

## **Portal Layer**

Created by cloudSME,  
hosted by LCM

accessed by LCM customers & staff

**CloudBroker-Platform**  
(provides base technologies, infrastructure, monitoring)

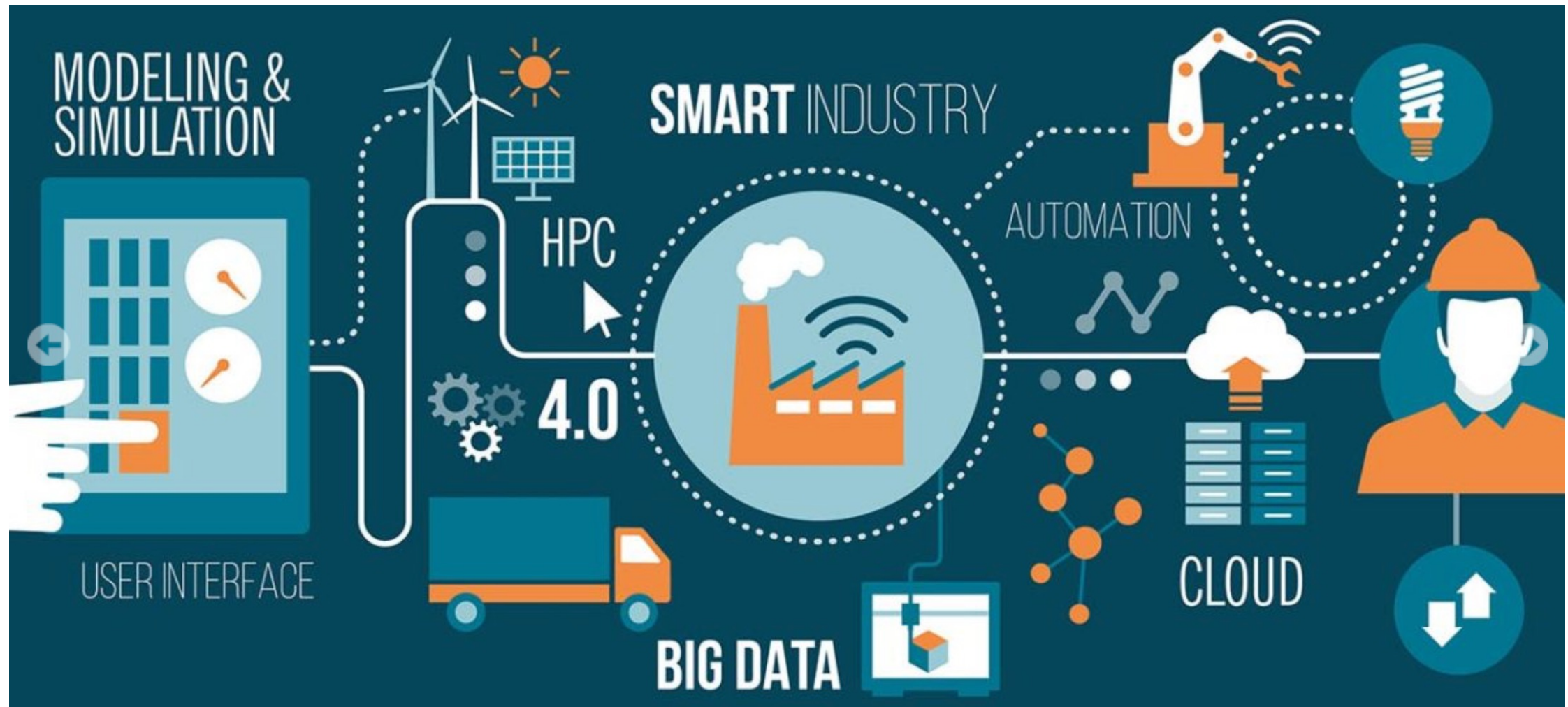
## **PaaS Layer / IaaS Management**

Hosted by cloudSME in Germany

Accessed by LCM & cloudSME staff



# CloudiFacturing Project (H2020)





# CloudiFacturing – Project Profile



- H2020 Project funded under GAN 768892
- Develops CFG Solution / CFG Digital Marketplace which will facilitate the access to cloud / HPC-based modelling and simulation
- Consortium of 33 initial partners, 5 Digital Innovation Hubs (DIHs)
- 2 Open Calls, & 3 waves of experiments implementing 21 application experiments
- Project duration: Oct 2017 - March 2021
- Overall budget: 9.712.983 Euro
- cloudSME is Work Package Leader for Impact & Commercialisation & **Post Operator of the Digital Marketplace**
- Project Coordinator: Prof. Dr.-Ing. Andre Stork, Fraunhofer IGD

