

PRESS RELEASE
Aachen, August 19, 2019

Laboratory for Machine Tools and
Production Engineering (WZL) of
RWTH Aachen University

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Consortium Benchmarking “Model Based System Engineering“

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Successfully designing and implementing MBSE

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In order to support companies in the implementation and application of "Model Based Systems Engineering", the Laboratory for Machine Tools and Production Engineering (WZL) of RWTH Aachen University, together with the Center for Systems Engineering (CSE), the Institute for Machine Elements and System Development (iMSE) and the Chair for Software Engineering (SE), will carry out an internationally oriented consortium benchmarking starting September 30, 2019. The goal of the consortium benchmarking is to determine factors for the successful implementation of a model-based development approach in order to increase efficiency and transparency in the interdisciplinary development of complex products.

Innovative products are characterized by the increasing integration of mechanical, electronic and software components. It is also important to develop new products in even shorter cycles. For this, the efficient design of interdisciplinary development processes is indispensable. More powerful, integrated processes must therefore replace the predominant system development based on document- and geometry-oriented processes. Model-based system development should enable agile and automated product development in an interdisciplinary development environment. The Model Based Systems Engineering (MBSE) approach focuses on combining processes, tools and models to create a holistic digital representation of the product development process over the entire life cycle - from the requirement to the product. By using MBSE, complete transparency and the identification of possible target conflicts in the development process are guaranteed at any time during the development process. In particular, the technological and organizational prerequisites must be created.

As consortium partners, interested companies can determine the focal points of the consortium benchmarking and define the relevant questions that will be answered by other companies within the scope of the study. Your questions will be converted into a questionnaire, which will be sent to the mailing lists of the participating institutes. Our consortium then visits companies that have already successfully implemented a model-based development approach on site to learn about the promising approaches and discuss them with the experts of the companies. From this, we determine factors for a successful implementation of MBSE, which you can use for yourself and your company.

Further information can be found on <https://cse.rwth-campus.com/kbm/>

Laboratory for Machine Tools and Production Engineering (WZL)

The Laboratory for Machine Tools and Production Engineering (WZL) of RWTH Aachen University has stood worldwide for more than 100 years for future-oriented research and successful innovations in the field of production technology.

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Under the leadership of four professors Thomas Bergs, Christian Brecher, Robert Schmitt und Günther Schuh, the WZL is conducting research in six areas - production technology, machine tools, production systems, transmission technology, production metrology and quality management - on the future-oriented design of production in high-wage countries. Together with industry partners from various sectors, the WZL develops solutions for a wide variety of production scenarios in both publicly funded and bilateral projects. These activities are being consolidated on the RWTH Aachen Campus in the Cluster Production Engineering.

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Attachment:



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