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## Quo Vadis, industrial production? Factories in the global environment

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Production infrastructure is built for decades; however the requirements change with increasing time. During the next 20 years, the world will change as much as it has changed in the past 100 years. This development will change the production and the factory of the future. From market perspective, the needs of society have been fundamentally changed. What we find today is a Maslow's hierarchy which has been turned around during the last decade. New trends influence peoples' life style. Several new trends lead to a marginalization of the production sector. The importance of production competence is decreasing and the effect of commoditization and marginalization of production will increase in the future. The ability to generate profits in production is in danger. In order to escape from the vicious circle, the factory and production planning has to be revolutionized. A new factory framework is required and a new, agile engineering process is needed to strengthen the future production. To answer the question: "What does our production signify?" a clear and comprehensive vision of the factory of the future is required. To face all these challenges, a disruptive approach has been developed and implemented during the last years and will be shown by several examples.

### Biography

Peter Burggräf studied Mechanical Engineering at the RWTH Aachen University with focus on Production Engineering. Furthermore, he studied at the Imperial College in London. From 2007 until 2011, he was a Research Assistant at the Chair for Production Engineering of the Laboratory for Machine Tools and Production Engineering (WZL) of RWTH Aachen University. His research focus includes factory planning, organizational design and the digital factory. Consultancy topics include business processes and ERP systems, development and implementation of production systems, factory planning as well as overall Lean advisory and Lean trainings. Since 2011, he has been Head of the Production Management department.

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