

BASIC TRAINING

ORGANIZED BY: [Bundeswehr University Munich](#) & [Fraunhofer Society for the Promotion of Applied Research](#) & [Cluster Mechatronics & Automation management gGmbH](#)

Digital twins, connectivity, big data and human-machine-collaboration is on everyone's lips. Simple factories become smart factories and components will be printed instead of casted or forged. "Industrie 4.0" is the core challenge of companies now. Organizations face both technological and business challenges to make their processes and working models fit for the future and seize new revenue potentials.

To support Bavarian SMEs in implementing "Industrie 4.0" the pilot basic training took place at the Bundeswehr University in Munich on November 19th/20th. 16 participants with technical or business background have attended the training in Munich.



On the first day, Patrick Zimmermann and Martin Zäpfel from the Fraunhofer Institution for Casting, Composite and Processing Technology IGCV introduced this course and dived deeper into the technology-related topics. The questions "What is "Industrie 4.0"?", "which "Industrie 4.0"-related examples do you know from your everyday life?", and "what are recent advanced manufacturing-challenges?" were discussed with the participants. In the afternoon, a closer look was taken into the technological concepts like "cyber-physical systems", "interfaces", "industrial internet of things", "digital twin" and "assistance systems".

On the second day, Dr. Martin Rost from the University of Stuttgart discussed "HR & Organization" in the morning and Dr. Björn Schäfer from the Catholic University of Eichstätt-Ingolstadt talked about "Business Models" in the afternoon. HRM and the organization itself must become more flexible in times of "Industrie 4.0". In comparison, customer value and customer centricity are the core principles of new, digital business models.

On both days, the single topics were supplemented by teaching cases and research studies.

Overall, the pilot basic training was a great success. But still, there is some room for improvement, like starting the training sessions later, making the training even more interactive or reducing content.

