

9. Implementation of innovative processes and production systems

- analysing production processes and systems with the aim to identify the areas suitable for the implementation of innovations,
- analysing and procuring expert opinions on the level of inventiveness of production system components,
- modelling of manufacturing and services systems to test and optimise proposed innovations in virtual reality,
- reviewing and evaluating the impact of innovations on the parameters of a production process such as the throughput time, system capacity, productivity and OEE use ratio,
- consulting services on the selection and implementation of Advanced Planning and Scheduling and Manufacturing Execution System in manufacturing systems treated as organisational innovations,
- providing support in a decision making process regarding the implementation of innovations in production processes and systems.

Supporting a company by the implementation of innovations into production systems includes above all seeking areas with the greatest development potential resulting from the changes. It may be achieved by modelling of a manufacturing process in an IT system and performing its simulation in order to observe the changes of the production ratio. Besides, we offer reviews and expert analyses on the innovativeness of production processes and systems.