

Research Goal



The PAG Group's research goal is to describe the interaction between people, technology, information, and organization, and to design sustainable structures on the shop floor. Sustainability is defined by its robustness, adaptability, efficiency, and its ability to enhance economic, environmental, and social performance.

Research Object



Our research focuses on the work system with its inherent processes and socio-technical elements and their interaction within the production network. This includes in particular work organization, workplace and production structure design, internal material provision as well as competence and personnel development in the age of digitalization.

Procedure for Achieving the Research Goal



To achieve our research objective, we first identify and describe the factors that influence the design fields of people, technology, information, and organization at the work system level. The existing interactions between these are then determined.

Decision models are developed based on this information, which provide specific recommendations for selecting existing design measures and researching new ones. Finally, the findings can be used to generate design rules that are generally applicable. These rules can aid in the sustainable design and development of the social, technical, informational, and organizational components of a work system.

Our Research Focus Production Design and Work Organisation

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