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Product-Service Systems across Life Cycle

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Engineering of Product Service Systems – how comprehensive research solutions can drive new industrial frameworks

In PSS research various development methodologies exist. Nevertheless, the degree of practical implementation in industry varies tremendously. In this presentation the results of two case studies – renewable energy and material handling industry – discuss the systematic application of an integrated PSS design methodology. Besides positive results critical challenges and opportunities have been identified. For instance, controlling the complexity of interdependent system elements and utilizing lifecycle data for PSS development have been two major aspects in these studies. Therefore, the demand for services based on smart products and smart data will be featured in order to emphasize the prospect of digital transformation in PSS research. Based on the extensive expertise of PSS researcher, regarding the integrated development on a system wide level, the PSS community seems to be optimally situated to address the need of new smart services and business models in the context of Industrie 4.0. Thus new innovative opportunities for PSS domain will be discussed.