A framework for a product-service-system portfolio: managing the early planning

Product-service-systems consist of complex structures and dynamics. They are influenced by hardly predictable impact factors and requirements. Thus, PSS pose a challenge to companies. A PSS-portfolio is suggested to support the early planning during the innovation process. This paper discusses the various dimensions and their requirements which have to be taken into account to manage this challenge. The combination of aspects deriving from product flexibility, systems engineering and product development creates a framework which is the foundation for managing a structured PSS-portfolio.

Stichworte: PSS-portfolio; integrated lifecycle; product spectrum; innovation process; product flexibility