

Accelerated technological change has become a fact and involves the evaluation, development, implementation and substitution of technologies within enterprises. Strategic and in particular technology management needs to address these issues. The question arises whether current management control systems can adequately cope with complex technology issues in technology-based enterprises? Specific approaches in literature are fragmental. The call from industry in turn, shows the importance of research. Enterprises already pursue technology management control activities, but these are imperfectly structured and most enterprises wish to give the activities more structure, such as through a Technology Management Control System.

This book aims towards closing these gaps. Based on current strategic management control approaches, an appropriate Technology Management Control System is adapted and enhanced with technology issues.

The developed approach is implemented in three multinational, technology-based enterprises. Each solution for this Technology Management Control System is described in detail. The generated solution is discussed and concluded with regard to the holistic view of the enterprises.

This book is oriented towards top management in technology-based enterprises, in particular CTOs, external consultants active in the field of technology and innovation management and researchers, as well as students in this research field.

Hans-Helmuth Jung has an engineering background and he has strengthened his knowledge in management science during his research activities at the ETH Center for Enterprise Science, Technology and Innovation Management, at ETH Zurich. The focus of his research was on strategic management issues in technology-based enterprises.