

AN INTRODUCTION TO
GREEN
PROCESS
MANAGEMENT

Sam Windsor

An Introduction To Green Process Management

**Wil, van der Aalst, Jörg Desel, Andreas
Oberweis**



An Introduction To Green Process Management:

An Introduction to Green Process Management Samuel E. Windsor, 2010-02-08 The intent of this book is to give interested parties an overview of green and its impact on business without spending countless hours researching the subject. It provides information in a manner that can be used to help businesses determine the role green will play in their futures. The book is not intended as a detailed implementation guide but as an aid in understanding the current thinking on what green really is and what an organization can do. The book is presented in three major sections. The first section is intended to give an overall understanding of what is meant by green, a brief history of the environmental movement as it relates to business trends in carbon measuring and reporting and definitions of green. The second section discusses standards, certifications and measurements that relate to green and environmental management. The final section presents methods that may be used to implement and manage green processes within an organization along with tools and a road map that may be used by those companies seeking to become green. The road map utilizes process improvement tools that will be familiar to many organizations.

An Introduction to Green Process Management Samuel E. Windsor, 2010 *Green Business Process Management* Jan vom Brocke, Stefan Seidel, Jan Recker, 2012-06-15 *Green Business Process Management Towards the Sustainable Enterprise* consolidates the global state of the art knowledge about how business processes can be managed and improved in light of sustainability objectives. Business organizations, a dominant part of our society, have always been a major contributor to the degradation of our natural environment through the resource consumption, greenhouse emissions and wastage production associated with their business processes. In order to lessen their impact on the natural environment, organizations must design and implement environmentally sustainable business processes. Finding solutions to this organizational design problem is the key challenge of Green Business Process Management. This book discusses the emerging challenges of designing green business processes, presents tools and methods that organizations can use in order to design and implement environmentally sustainable processes and provides insights from cases where organizations successfully engaged in more sustainable business practices. The book is of relevance to both practitioners and academics who are interested in understanding designing and implementing green business processes. It also constitutes a valuable resource for students and lecturers in the fields of information systems management and sustainable development. Preface by Richard T. Watson.

Green Business Process Management. Usage of Existing and New Tools for Achieving the Ecological Goals Melih Aracli, 2019-11-08 Seminar paper from the year 2018 in the subject Computer Science Commercial Information Technology grade 2/3 University of Münster language English abstract The aim of this work is to find relevant approaches of Green Business Process Management (BPM) and analyse them with regard to their purpose. It was considered whether the approaches are extensions of the traditional BPM concepts adapted to the ecological dimension or if they are newer techniques and tools introduced by the rise of Green Information Systems (IS). In order to achieve this goal, the basic concept

of BPM and its way towards more sustainability is presented at the beginning followed by the explanation of current approaches Afterwards the BPM Lifecycle which serves as a suitable framework to allocate the different tools and techniques is introduced Based on the rough presentation the main part deals more intensively and in more detail with the tools and techniques of Green BPM approaches These tools and techniques were mapped into an adapted Green BPM Lifecycle so that relevant implications could be derived in the discussion section But first the mentioned tools and techniques are classified according their field of acting Finally the discussion part takes place where the major contributions are analysed and interpreted according to the observed results and background knowledge Companies have been looking at sustainability for several decades recognizing that by reducing pollution they can also maximize their profits Thus sustainability in the field of Information Systems IS is becoming increasingly important as topics like Green IS and IT are addressed These deal with the reduction of IT consumption and emissions because of the implementation of more sustainable business activities However this raises the requirement for approaches in the field of Business Process Management Research and practice lacked an appropriate approach to connect these two areas of Green IS and BPM which is why the notion of Green Business Process Management was introduced Experts are developing instruments and techniques whose primary objective is to integrate sustainability into the different phases of the business process Lifecycle so that more ecological processes can be realized Such approaches help organizations in defining their optimal business strategies regarding the four dimensions of time quality flexibility cost and now adding the aspect of environment

Exploring Process Management as a Means for Greening Road Freight Transport Priscilla Navarro, 2019-11-18 Research has proven that we need to reduce our environmental impact Sweden has set a goal to become fossil free by 2045 The increasing amount of transport and the need to reduce its environmental effects has put pressure on the companies of the road freight transport sector Therefore this business sector needs research actions to find tools that will assist in the greening of its services and operations My research is a contribution to these efforts from a managerial point of view Process management is a methodology taken from Total Quality Management TQM that has been used in several business sectors to improve business performance Its process orientation and focus on customers allow companies to identify and satisfy the current and latent needs of their customers Until now TQM has targeted customer needs However it is experiencing a shift towards incorporating societal needs into the equation Environmental sustainability is becoming a societal requirement for companies in all sectors Hence the purpose of my research is to explore the possibilities of using process management to support the greening of small and medium sized companies within the road freight transport sector The frame of reference for my study is based on three well established domains in academia and their intersections These domains are process management road freight transport and environmental sustainability I have used qualitative methods for my research Specifically I performed a case study at two medium sized Swedish companies within the road freight transport business sector The data collection methods involved

document studies observations and interviews at each case company The case study was performed using an action research approach which involved setting up meetings seminars and workshops with each case company Additionally joint workshops were performed which allowed me to observe and obtain results from the interactions between the companies The analysis is presented for each case separately and then for their interactions The results are compared with the existing literature from the three domains I based my research on three research questions The first was intended to identify the principles and tools within process management that may be applied to road freight transport companies interested in implementing this methodology to enhance their environmental sustainability I concluded that these principles were present in the companies and are needed for the implementation of process management The tools included in this methodology can be associated with environmental initiatives performed by the companies in support of their greening The second research question refers to the benefits and challenges that companies in this business sector may face when implementing process management methodology I conclude that most of the expected benefits of process management were confirmed Additionally a new benefit was observed reducing the environmental effect of their services can interest current customers and attract new customers to road freight transport companies The challenges identified during the case study include resistance to change lack of knowledge and resource allocation limitations I also confirmed that a stepwise implementation of process management increases the likelihood of the success of the methodology Hence underdeveloped management systems are also a challenge when this methodology is used in freight transport companies The third and final research question involves the adaptations required for process management to enhance environmental sustainability in companies in this business sector I refer to each of the challenges found and suggest certain requirements for the companies to apply this methodology Clear communication from top management the training of employees and the involvement of all employees are some of these requirements Moreover to incorporate the environmental aspects clearly I suggest environmental efforts for each step in the implementation of process management By including these efforts in the process maturity model I conclude that road freight transport companies could use process management as a means of enhancing environmental sustainability

Forskning har visat att vi måste minska vår miljö påverkan Sverige har som mål att vara fossilfritt 2045 Den kända mängden transporter och behovet av att sänka miljö påverkan har en direkt påverkan på godstransportsföretag Därför behövs forskningsföretag riktade mot dessa för att hitta verktyg som hjälper till att minska miljö påverkan av dess verksamhet och tjänster Min forskning är ett bidrag till dessa ansträngningar ur ett ledningsperspektiv Processledning är en metodik inom Total Quality Management TQM som har använts i flera branscher för att förbättra affärsresultat Processorientering och fokus på kunderna gör att företaget kan identifiera och tillfredsställa aktuella och latenta behov från deras kunder Fram till idag har TQM siktat in sig på kundbehov men just nu pågår en omflyttning inom TQM mot att även inkludera samhällsbehov i ekvationen Miljömedvetenhet hänger på att bli ett samhällsligt krav för företaget inom alla branscher Därför syftar min forskning att utforska

jligheterna av att använda processledning som ett verktyg för att minska miljöpverkan av små och medelstora företag inom godstransportbranschen. Min studie baseras på tre väl etablerade områden inom akademien och deras överlapp. Områdena är processledning, godstransporter och miljömåhållbarhet. Jag har använt kvalitativa metoder för min forskning. Specifikt genomfördes en fallstudie vid två medelstora svenska företag inom godstransportbranschen. Datainsamlingsmetoder som användes var dokumentstudier, observationer samt intervjuer hos båda företagen. Fallstudien genomfördes med en aktionsforskningsapproach. Aktionsforskningen genomfördes som åtta seminarier och workshops hos varje företag. Dessutom genomfördes gemensamma workshops med företagen vilket gjorde det möjligt att observera och följ resultat utifrån samspelen mellan företagen. Analysen presenteras för varje företag separat och därefter utifrån deras samspel. Resultaten jämföras med existerande litteratur ifrån de tre områdena. Min forskning utgår ifrån tre frågeställningar. Syftet med den första var att identifiera principerna och verktygen inom processledning som kan appliceras på godstransportföretag som är intresserade av att implementera metodiken för att öka sin miljömåhållbarhet. Jag drog slutsatsen att principerna för processledning fanns inom företagen och dom behövs för implementeringen av processledningen. Verktygen inom den här metodiken kan associeras med miljöinitiativ utifrån företagen och minska deras miljöpverkan. Den andra frågeställningen avser föreläggarna samt utmaningarna som företag inom det här området möter när de implementerar processledningsmetodiken. Min slutsats är att de flesta av de förväntade föreläggarna med processledning bekräftas samt att ytterligare en ny föreläggare upptäcktes. En minskad miljöpverkan av deras tjänster kan intressera nuvarande kunder och dra till sig nya. De identifierade utmaningarna från fallstudien inkluderar motstånd mot förändring, avsaknad av kunskap samt resursbegränsningar. Jag bekräftade även att en stegvis implementering av processledning kan möjliggöra för att metodiken ska bli framgångsrik. Därför är också underutvecklade ledningssystem en utmaning för att kunna använda den här metodiken inom godstransportföretag. Den tredje och sista frågeställningen berör de anpassningarna av processledning som krävs för att kunna öka miljömåhållbarheten hos företag inom det här området. Jag refererar till var och en av de utmaningar som hittades och föreslår vissa krav för företagen att applicera den här metodiken. Tydlig kommunikation ifrån ledningen, utbildning av anställda och involvering av alla medarbetare är en del av dessa krav. Dessutom är att integrera miljöaspekten tydligt så föreslår jag miljöarbete för varje steg av implementeringen av processledning. Jag drar slutsatsen att godstransportföretag skulle kunna använda processledning som ett sätt att öka miljömåhållbarheten.

Business Process Management Workshops Manfred Reichert, Hajo A. Reijers, 2016-07-25. This book constitutes the refereed proceedings of ten international workshops held in Innsbruck, Austria, in conjunction with the 13th International Conference on Business Process Management (BPM 2015) in September 2015. The seven workshops comprised Adaptive Case Management and other Non-workflow Approaches to BPM, Adaptive CM 2015, Business Process Intelligence (BPI) 2015, Social and Human Aspects of Business Process Management (BPMS2) 2015, Data and Artifact-centric BPM (DAB) 2015, Decision Mining and Modeling for Business Processes (DeMiMoP) 2015, Process Engineering (IWPE) 2015, and Theory and Applications of

Process Visualization TaProViz 2015 The 42 revised papers presented were carefully reviewed and selected from 104 submissions In addition four short papers and one keynote from TAProViz are also included in this book *Applications of Contemporary Management Approaches in Supply Chains* Hakan Tozan,Alper Ertürk,2015-04-15 In today s rapidly changing business environment strong influence of globalization and information technologies drives practitioners and researchers of modern supply chain management who are interested in applying different contemporary management paradigms and approaches to supply chain process This book intends to provide a guide to researchers graduate students and practitioners by incorporating every aspect of management paradigms into overall supply chain functions such as procurement warehousing manufacturing transportation and disposal More specifically this book aims to present recent approaches and ideas including experiences and applications in the field of supply chains which may give a reference point and useful information for new research and to those allied affiliated with and peripheral to the field of supply chains and its management *Business Process Management Forum* Andrea Marrella,Manuel Resinas,Mieke Jans,Michael Rosemann,2024-08-29 This book constitutes the proceedings of the BPM Forum held at the 22nd International Conference on Business Process Management BPM 2024 which took place in Krakow Poland in September 2024 The BPM Forum hosts innovative research which has a high potential of stimulating discussions The papers selected for the forum are expected to showcase fresh ideas from exciting and emerging topics in BPM even if they are not yet as mature as the regular papers at the conference The 21 papers included in this book were carefully reviewed and selected from a total of 144 submissions to the conference The papers were organized in research tracks on foundations engineering and management **Business Process Management** Wil, van der Aalst,Jörg Desel,Andreas Oberweis,2003-07-31 Business processes are among today s hottest topics in the science and practice of information systems Business processes and workflow management systems attract a lot of attention from R D professionals in software engineering information systems business oriented computer science and management sciences The carefully reviewed chapters contributed to this state of the art survey by internationally leading scientists consolidate work presented at various workshops on the topic organized by the editors of the book in the past few years The book spans the whole spectrum of business process management ranging from theoretical aspects conceptual models and application scenarios to implementation issues It will become a valuable source of reference and information for R D professionals active in the fascinating interdisciplinary area of business process management and for ambitious practitioners **Process Management Based on SqEME®** Jos van Oosten,2008-04-24 SqEME is an open standard for developing a processed centred architecture of an enterprise It may be reproduced freely by any organization wishing to use it to develop a governance structure on the quality of their business processes SqEME Process Management is a method that facilitates discussion of the design of the organization in a subtle but unambiguous way Processes have to hold a prominent place in observing organizations how are the different parts of the organization tuned to each other and how

does adequate communication take place SqEME as a methodology views processes from four different perspectives SqEME calls these windows by means of which one seeks for the Constitution Chemistry Correspondence and Construction of the enterprise SqEME is the result of more than twenty years experience with the management of business processes within various organizations SqEME has been applied successfully in industry chemistry automotive construction paper in the business sector IT service healthcare in the non profit sector and in public companies such as the Prosecution Counsel County Councils and local authorities This book is particularly aimed at professionals who are involved in the change process within process driven organizations Anyone wishing to familiarize themselves with process centred thinking will be pleased to find that this book adopts an innovative yet practice proven approach The SqEME Foundation is a platform for discussing the method and its application where insights into the basic assumptions and backgrounds are shared www.sqeme.org

The book delves into An Introduction To Green Process Management. An Introduction To Green Process Management is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into An Introduction To Green Process Management, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
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 6. In chapter 5, this book will draw a conclusion about An Introduction To Green Process Management. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of An Introduction To Green Process Management.

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