

# **Knowledge Management In The Pharmaceutical Industry Enhancing Research Development And Manufacturing Performance**

This study highlights the development of a conceptual framework to improve efficiencies between marketing departments of select pharmaceutical organizations that share similar market dynamics.

This book serves as a complete introduction to the subject of Knowledge Management (KM), and incorporates technical as well as social aspects, concepts as well as practical examples, and traditional KM approaches as well as emerging topics. Knowledge Management: Systems and Processes enhances the conventional exposition of KM with an in-depth discussion of the technologies used to facilitate the management of knowledge in large and small organizations. This includes a complete description of the theory and applications of the various techniques and technologies currently in use to manage organizational knowledge. The discussion of technology is at a level appropriate for the typical business administration graduate student or corporate manager. Special features: \* Includes case studies of actual implementations of KM systems, including details such as system architecture \* Contains numerous vignettes describing practical applications of KM initiatives at leading firms and

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governmental organizations \* Provides a balanced view of knowledge management, while incorporating benefits and controversial issues, and both technology and social aspects \* Extremely current, making extensive use of latest developments in, and examples from, the field of KM \* Written by two proficient and recognized researchers in the field of KM.

'Learning through Knowledge Management' provides an insightful overview of the main issues integrating learning and Knowledge Management. It offers a rich resource of case examples that highlight Knowledge Management in practice. The text explores and defines learning and Knowledge Management concepts, and deals with the elements that play an important part in determining implementation success in the organization. The chapters present a managerially oriented discussion of the following key areas: \* The role of processes in managing knowledge \* The behavioural side of Knowledge Management \* Leadership reflexes for knowledge management success \* The key features of Information Technology required for Knowledge Management \* The future of Knowledge Management as part of organization management. There are many case studies which include: British Airways BP Amoco Ford Hewlett Packard Xerox Swedish Police IBM The case studies encompass a diverse and broad range of sectors, maturity of practice, problems and approaches to Knowledge Management. Innovation is a vital process for any business to remain competitive in this age. This progress must be coherently and optimally managed, allowing for successful

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improvement and future growth. The Handbook of Research on Strategic Innovation Management for Improved Competitive Advantage provides emerging research on the use of information and knowledge to promote development in various business agencies. While covering topics such as design thinking, financial analysis, and policy planning, this publication explores the wide and complex relationships that constitute strategic innovation management principals and processes. This publication is an important resource for students, professors, researchers, managers, and entrepreneurs seeking current research on the methods and tools regarding information and knowledge management for business advancement.

Knowledge management (KM) - or the practice of using information and collaboration technologies and processes to capture organizational learning and thereby improve business performance - is becoming one of the key disciplines in management, especially in large companies. Many books, magazines, conferences, vendors, consultancies, Web sites, online communities and email lists have been formed around this concept. This practical book focuses on the vast offerings of KM solutions—technology, content, and services. The focus is not on technology details, but on how KM and IT practitioners actually use KM tools and techniques. Over twenty case studies describe the real story of choosing and implementing various KM tools and techniques, and experts analyse the trends in the evolution of these technologies and tools, along with opportunities and challenges facing companies harnessing them.

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Lessons from successes and failures are drawn, along with roadmaps for companies beginning or expanding their KM practice. The introductory chapter presents a taxonomy of KM tools, identifies IT implications of KM practices, highlights lessons learned, and provides tips and recommendations for companies using these tools. Relevant literature on KM practices and key findings of market research groups and industry consortia such as IDC, Gartner and APQC, are presented. The majority of the book is devoted to case studies, featuring clients and vendors along the entire spectrum of solutions: hardware (e.g. handheld/wearable devices), software (e.g. analytics, collaboration, document management) and content (e.g. newsfeeds, market research). Each chapter is structured along the "8Cs" framework developed by the author: connectivity, content, community, commerce, community, capacity, culture, cooperation and capital. In other words, each chapter addresses how appropriate KM tools and technologies help a company on specific fronts such as fostering adequate employee access to knowledge bodies, user-friendly work-oriented content, communities of practice, a culture of knowledge, learning capacity, a spirit of cooperation, commercial and other incentives, and carefully measured capital investments and returns. Vendor history, product/service offerings, implementation details, client testimonials, ROI reports, and future trends are highlighted. Experts in the field then provide third-party analysis on trends in KM tools and technique areas, and recommendations for KM practitioners.

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This book is a structured approach to designing a product and its associated manufacturing process. It shows pharmaceutical engineers and scientists involved in product and process development how to utilize QbD practices and applications effectively while complying with government regulations. Material includes discussion of how to utilize design space, models, process control methodology, and cumulative process knowledge to seek improvements in manufacturing, while maintaining and enhancing product performance. Edited by three renowned researchers in the field, this invaluable resource is an essential tool for all pharmaceutical professionals.

The third in the readers series Resources for the Knowledge-Based Economy, Knowledge Management Tools analyzes the use of knowledge management tools in the past, present and future. It helps managers and companies utilize what they know. The selections in this volume were carefully chosen to represent the strengths and weaknesses, and pros and cons of using technology to support knowledge-based activities. They acknowledge that, although tools alone are not the answer to the difficult questions surrounding knowledge management, if utilized effectively tools can open up new realms of innovation and efficiency for today's knowledge-driven businesses.

"This book discusses theory and practice in the design of knowledge management systems, facilitation of knowledge sharing, and creation of practices that encourage organizational learning"--Provided by publisher.

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Many organizations are reluctant to invest in knowledge management (KM) and competitive intelligence (CI) initiatives for their company's use. This book discusses how value-added benefits can be derived from such efforts, with concepts and cases presented.

This book addresses the rapidly emerging field of Knowledge Management in the pharmaceutical, medical devices and medical diagnostics industries. In particular, it explores the role that Knowledge Management can play in ensuring the delivery of safe and effective products to patients. The book also provides good practice examples of how the effective use of an organisation's knowledge assets can provide a path towards business excellence.

An introduction to the field of knowledgemanagement.

This shortform book presents key peer-reviewed research selected by expert series editors and contextualised by new analysis from each author on the subject of knowledge management in industrial history. With contributions on knowledge management, knowledge transfer, knowledge loss, knowledge creation, competition and co-operation in producing skilled employees, and ownership structures and their relation to knowledge management, this volume provides an array of fascinating insights into industrial history. Of interest to business and economic historians, this shortform book also provides analysis

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and illustrative case-studies that will be valuable reading across the social sciences.

Many organizations are now realizing that their competitive edge lies mostly in the brainpower-the intellectual capital-of their employees and management. To stay ahead of the pack, companies must leverage their knowledge, internally and externally. But it is not enough to develop lessons-learned databases. Experts now believe the current savior of organizations is knowledge management-the conceptualization, review, consolidation, and action phases of creating, securing, combining, coordinating, and retrieving knowledge-in short, the process of creating value from an organization's intangible assets. Jay Liebowitz, one of the leading knowledge management and expert systems authorities in the world, brings together over thirty articles contributed by the top researchers and practitioners to produce what seems destined to become the key reference for this emerging field. With it you will find: How to create a knowledge-sharing environment How senior executives can show tangible benefits using methods that value the intellectual capital-especially the "human capital" within the organization How knowledge management is not the same as information management How senior management commitment and involvement are essential to the success of a knowledge management system

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Creating Knowledge Based Healthcare Organizations brings together high quality concepts closely related to how knowledge management can be utilized in healthcare. It includes the methodologies, systems, and approaches needed to create and manage knowledge in various types of healthcare organizations. Furthermore, it has a global flavor, as we discuss knowledge management approaches in healthcare organizations throughout the world. For the first time, many of the concepts, tools, and techniques relevant to knowledge management in healthcare are available, offering the reader an understanding of all the components required to utilize knowledge.

'The New Knowledge Management' is the story of the birth of "second-generation knowledge management," told from the perspective of one its chief architects, Mark W. McElroy. Unlike its first-generation cousin, second-generation Knowledge Management seeks to enhance knowledge production, not just knowledge sharing. As a result, 'The New Knowledge Management' expands the overall reach of knowledge management to include "innovation management" for the very first time. 'The New Knowledge Management' introduces the concept of "second-generation knowledge management" to the business community. Mark W. McElroy has assembled a collection of his own essays, written over the past four years, chronicling the development of related thinking in the field. Unlike first-

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generation KM, mainly focusing on value derived from knowledge sharing, second-generation thinking formally adds knowledge making to the scope of KM. In this way second-generation KM expands the overall reach of KM to include "innovation management" for the very first time. 'The New Knowledge Management' finally begins to bridge the gap between KM and the field of organizational learning, which up until now have been viewed as miles apart. Knowledge Management for Project Excellence defines a methodology, called Projects with Learning Outcomes (ProwLO), for management of knowledge in projects, including a process model. This guide enables organizations to solve many known knowledge management problems as experienced in practice. The process model consists of eight processes, which are in turn made of activities. These processes are aligned with the generic life cycle of projects and programmes. They drive knowledge processes in project environments. ProwLO is a tool to institutionalize knowledge processing and optimize knowledge processes, and thereby provides the infrastructure for the development of learning organizations. This book, as a methodology, provides a lot of contextual information for a better understanding of knowledge management in the context of projects. First of all, it provides an understanding of the essence of knowledge. Second, examples of knowledge needs are provided in the context of two

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PRINCE2 processes and risk management. Third, it provides extensive background information on project management. This book offers a step-by-step guide to executing successful project management in the context of the key processes. It also provides the reader with a decision-making tool, supported by the capture of Cases, a key experience knowledge type. As such, it is an essential tool for any project manager operating in the knowledge economy. Text surveys recent applications and innovations in knowledge management (KM). Demonstrates KM in practice; revealing what has been learned, what works, and what doesn't. DLC: Knowledge management.

The University of Jyvaskyla is proud to welcome the 12th edition of the European Conference in Cyber Warfare to Jyvaskyla. We intend to make this event as enjoyable as possible both on scientific and human aspects. As in previous years, ECCWS will address elements of both theory and practice of all aspects of Information Warfare and Security, and offers an opportunity for academics, practitioners and consultants involved in these areas to come together and exchange ideas. We also wish to attract operational papers dealing with the critical issue that the modern world has to face regarding the evolution of cyberwarfare capabilities development by nation states. The programme for the event promises an extensive range of peer-reviewed papers, networking opportunities and presentations from leaders in the field."

The Pharmaceutical Industry has been undergoing a major transformation since the heady days of 'big pharma' in the 1970s and 80s. Patent expiry, the rise of generics, and the decline

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of the blockbuster drug have all changed the landscape over the last 10-15 years. It's an environment where products can take 10 years or more to come to market, billions are spent on research and development, jobs are being shed in the western pharma homelands and regulators and the public are more demanding than ever. So what part is Knowledge Management playing and going to play in this vital international industry? Knowledge Management (KM) has many facets from providing comprehensive knowledge bases for workers, through the sharing of advice and problem solving, to providing an environment for innovation and change. This book, focusing on research and development, and manufacturing-based companies, explores how a range of techniques and approaches have been applied in the unique environment of the Pharmaceutical Industry, and examine how it can help the industry in the 21st century. Whilst the book is centered on the Pharmaceutical Industry, its objective will be to discuss and demonstrate how Knowledge Management can be applied in a variety of environments, and with a range of cultural issues. KM practitioners, and potential practitioners, both within and outside the Pharmaceutical Industry, will be able to gain valuable guidance and advice from both the examples of good practice and the lessons learned by the authors and contributors.

This text serves as a complete introduction to the subject of knowledge management, incorporating technical, and social aspects of knowledge management, as well as practical examples, traditional approaches, and emerging topics.

This book presents a unique blend of articles which combines both conceptual and practical concerns related to devising and implementing sustainable Knowledge Management systems and solutions in contemporary global organizations. The book's contributors are among the

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leading thinkers and practitioners in this growing field. The seamless synthesis of the human, organizational, and technological dimensions of Knowledge Management makes this book a definitive guide for academics and practising managers alike. Prof. Joseph Davis is the Director of the Language Technologies and Knowledge Management Research Laboratory and of the Information Systems Program at the School of Information Technologies, the University of Sydney in Sydney, Australia. Dr. E. Subrahmanian is a Research Professor at the Institute for Complex Engineered Systems and the Department of Chemical Engineering, Carnegie Mellon University, Pittsburgh, USA. Prof. Art Westerberg is Emeritus University Professor in the Department of Chemical Engineering and the Institute for Complex Engineered Systems, Carnegie Mellon University, Pittsburgh, USA.

In this book Dr. Michael Stankosky, founder of the first doctoral program in knowledge management, sets out to provide a rationale and solid research basis for establishing Knowledge Management (KM) as an academic discipline. While it is widely known that Knowledge is the driver of our knowledge economy, Knowledge Management does not yet have the legitimacy that only rigorous academic research can provide. This book lays out the argument for KM as a separate academic discipline, with its own body of knowledge (theoretical constructs), guiding principles, and professional society. In creating an academic discipline, there has to be a widely accepted theoretical construct, arrived at by undergoing scholarly scientific investigation and accompanying rigor. This construct becomes the basis for an academic curriculum, and proven methodologies for practice. Thus, the chapters in this book bridge theory and practice, providing guiding principles to those embarking on or evaluating the merits of a KM program. As a methodology itself for undertaking the

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development of a body of knowledge, a KM Research Map was developed to guide scholars, researchers, and practitioners. This book presents this map, and showcases cutting-edge scholarship already performed in this nascent field by including the dissertation results of eleven KM scholar/practitioners.

The political economy of research and innovation (R&I) is one of the central issues of the early twenty-first century. 'Science' and 'innovation' are increasingly tasked with driving and reshaping a troubled global economy while also tackling multiple, overlapping global challenges, such as climate change or food security, global pandemics or energy security. But responding to these demands is made more complicated because R&I themselves are changing. Today, new global patterns of R&I are transforming the very structures, institutions and processes of science and innovation, and with it their claims about desirable futures. Our understanding of R&I needs to change accordingly. Responding to this new urgency and uncertainty, this handbook presents a pioneering selection of the growing body of literature that has emerged in recent years at the intersection of science and technology studies and political economy. The central task for this research has been to expose important but consequential misconceptions about the political economy of R&I and to build more insightful approaches. This volume therefore explores the complex interrelations between R&I (both in general and in specific fields) and political economies across a number of key dimensions from health to environment, and universities to the military. The Routledge Handbook of the Political Economy of Science offers a unique collection of texts across a range of issues in this burgeoning and important field from a global selection of top scholars. The handbook is essential reading for students interested in the political economy of science, technology and

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innovation. It also presents succinct and insightful summaries of the state of the art for more advanced scholars.

Knowledge, Groupware, and the Internet details the convergence of modern knowledge management theory and emerging computer technologies, and discusses how they collectively enable business change and enhance an organization's ability to create and share knowledge. This compendium of authoritative articles explains the relationship between knowledge management and two major technologies enabling it: Groupware and the Internet. These critical technologies help an organization evolve from individual to group knowledge, quickly make tacit knowledge explicit, and enable people to use and apply this knowledge. Knowledge, Groupware and the Internet helps readers understand how to unite the people and technologies that define effective knowledge management.

Knowledge: In the realm of knowledge management, information plus wisdom equals knowledge. Organizations have found that the knowledge they contain can be one of their most important competitive weapons Definition: Knowledge management: The ability of an organization to manage, store, value, and distribute knowledge. Some organizations have created the position of Chief Knowledge Manager (CKM) to handle knowledge management responsibilities Many organizations fail to effectively manage and use the most important competitive edge they possess - their knowledge and "intellectual capital." This book covers the entire growing field of knowledge management, with particular emphasis on knowledge-based systems and their use in preserving knowledge in an organization, and integrating it across departments and

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disciplines. This hands-on guide shows how businesses and other organizations can re-engineer their processes using an applied knowledge-based approach. Each chapter introduces a different aspect of the field and demonstrates its application in actual case studies. Examples from industry, education, and government show the wide application of this exciting new field of study. The book also covers promising trends such as learning organizations, intelligent organizations, and enterprise management.

In a rapidly growing global economy, where there is a constant emergence of new business models and dynamic changes to the business ecosystem, there is a need for the integration of traditional, new, and hybrid concepts in the complex structure of supply chain management. Within the fast-paced pharmaceutical industry, product strategy, life cycles, and distribution must maintain the highest level of agility.

Therefore, organizations need strong supply chain capabilities to profitably compete in the marketplace. *Global Supply Chains in the Pharmaceutical Industry* provides innovative insights into the efforts needed to build and maintain a strong supply chain network in order to achieve efficient fulfillment of demand, drive outstanding customer value, enhance organizational responsiveness, and build network resiliency. This publication is designed for supply chain managers, policymakers, researchers, academicians, and students, and covers topics centered on economic cycles, sustainable development, and new forces in the global economy.

This book explores the managerial roles and responsibilities with regard to safety.

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Applying key legal requirements to the workplace, it looks at how workplace facilities are managed and how materials and equipment are used, stored and maintained for optimum effectiveness. It not only aids organisations to achieve success, but to maintain it.

A practical guide to Quality by Design for pharmaceutical product development  
Pharmaceutical Quality by Design: A Practical Approach outlines a new and proven approach to pharmaceutical product development which is now being rolled out across the pharmaceutical industry internationally. Written by experts in the field, the text explores the QbD approach to product development. This innovative approach is based on the application of product and process understanding underpinned by a systematic methodology which can enable pharmaceutical companies to ensure that quality is built into the product. Familiarity with Quality by Design is essential for scientists working in the pharmaceutical industry. The authors take a practical approach and put the focus on the industrial aspects of the new QbD approach to pharmaceutical product development and manufacturing. The text covers quality risk management tools and analysis, applications of QbD to analytical methods, regulatory aspects, quality systems and knowledge management. In addition, the book explores the development and manufacture of drug substance and product, design of experiments, the role of excipients, multivariate analysis, and include several examples of applications of QbD in actual practice. This important resource: Covers the essential information about

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Quality by Design (QbD) that is at the heart of modern pharmaceutical development Puts the focus on the industrial aspects of the new QbD approach Includes several illustrative examples of applications of QbD in practice Offers advanced specialist topics that can be systematically applied to industry Pharmaceutical Quality by Design offers a guide to the principles and application of Quality by Design (QbD), the holistic approach to manufacturing that offers a complete understanding of the manufacturing processes involved, in order to yield consistent and high quality products.

Quality care of patients requires evaluating large amounts of data at the right time and place and in the correct context. With the advent of electronic health records, data warehouses now provide information at the point of care and facilitate a continuous learning environment in which lessons learned can provide updates to clinical, administrative, and financial processes. Given the advancement of the information tools and techniques of today's knowledge economy, utilizing these resources are imperative for effective healthcare. Thus, the principles of Knowledge Management (KM) are now essential for quality healthcare management. The Healthcare Knowledge Management Primer explores and explains essential KM principles in healthcare settings in an introductory and easy to understand fashion. This concise book is ideal for both students and professionals who need to learn more about key aspects of the KM field as it pertains to effecting superior healthcare delivery. It provides readers with an understanding of approaches to KM by examining the purpose and nature of its key

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components and demystifies the KM field by explaining in an accessible manner the key concepts of KM tools, strategies and techniques, and their benefits to contemporary healthcare organizations.

Many pharmacy graduates will eventually be involved in the management of community pharmacies. Within both hospitals and the pharmaceutical industry there is a need for pharmacists to have financial and marketing skills. However, few pharmacy students and pharmacists receive training about management. This book aims to provide the basics of business management specifically relevant to pharmacy.

Knowledge Management in the Pharmaceutical Industry Enhancing Research, Development and Manufacturing Performance Routledge

Annotation The book presents state-of-the-art knowledge about decision-making support systems (DMSS). Its main goals are to provide a compendium of quality chapters on decision-making support systems that help diffuse scarce knowledge about effective methods and strategies for successfully designing, developing, implementing, and evaluating decision-making support systems, and to create an awareness among readers about the relevance of decision-making support systems in the current complex and dynamic management environment.

Knowledge Management (KM) is the technique of using the information and knowledge that is supplied to, generated by and inherent in any organization or institution, to improve its performance. This volume demonstrates how KM can

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be used in education to improve learning.

Knowledge management continues to play an important role in management practice, in private and public organisations, in community informatics and in other groups. Once thought of as a fad it is now clear that knowledge management is an important issue which all organisations face and will continue to face for the foreseeable future. As a result the teaching of knowledge management and the research into its development as a field of study is of considerable importance to business schools, professional organisations, public sector bodies as well as to educators. Case studies can provide a contextual perspective on real world experiences in KM. This book contains 11 case studies chosen by Professor Kenneth Grant and it illustrates many of the important issues of which both students and practitioners need to be aware. These case studies should also prove useful as teaching examples. The case studies provided in this book cover subjects such as KM effectiveness gap analysis, the elicitation of intellectual capital performance, the reconfiguration of knowledge management practices and international strategic alliances. Private sector cases include examples from the pharmaceutical industry, manufacturing and consulting, while the public sector cases include the creation of a judicial environment, patient centred treatment in a general hospital and KM in the

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French Air Force fighter squadrons. The contributors to this book come from Australia, Canada, China, France, Italy, India, Malaysia, Spain, The Netherlands and The United Kingdom.

Annotation The purpose of Creating Knowledge Based Healthcare Organizations is to bring together some high quality concepts closely related to how knowledge management can be utilised in healthcare.

This book explains task management concepts and outlines practical knowledge to help pharmaceutical analytical scientists become productive and enhance their career. •Presents broad topics such as product development process, regulatory requirement, task and project management, innovation mindset, molecular recognition, separation science, degradation chemistry, and statistics. •Provokes thinking through figures, tables, and case studies to help understand how the various functions integrate and how analytical development can work efficiently and effectively by applying science and creativity in their work. •Discusses how to efficiently develop a fit-for-purpose HPLC method without screening dozens of columns, gradients, or mobile phase combinations each time, since the extra effort may not provide enough of a benefit to justify the cost and time in a fast-paced product development environment. This book explains task management concepts and outlines practical knowledge to help pharmaceutical analytical

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scientists become productive and enhance their career. •Presents broad topics such as product development process, regulatory requirement, task and project management, innovation mindset, molecular recognition, separation science, degradation chemistry, and statistics. •Provokes thinking through figures, tables, and case studies to help understand how the various functions integrate and how analytical development can work efficiently and effectively by applying science and creativity in their work. •Discusses how to efficiently develop a fit-for-purpose HPLC method without screening dozens of columns, gradients, or mobile phase combinations each time, since the extra effort may not provide enough of a benefit to justify the cost and time in a fast-paced product development environment.

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