



The

Development Factory

UNLOCKING THE POTENTIAL OF PROCESS INNOVATION

Gary P. Pisano

LESSONS FROM
PHARMACEUTICALS AND
BIOTECHNOLOGY

The Development Factory Unlocking The Potential Of Process Innovation

Gary P. Pisano



The Development Factory Unlocking The Potential Of Process Innovation:

The Development Factory Gary P. Pisano, 1997 When the pharmaceuticals giant Merck reports promising results for a potential blockbuster drug the story makes the evening news Now at a time when new product development has become critical to success in so many industries *The Development Factory* proves that process innovation not just product innovation can be the key to competitive edge In this multiyear study of pharmaceutical and biotechnology firms Gary Pisano explores the dynamics of superior product and process development in a highly competitive industry that lives and dies by its R D and depends heavily on rapid time to market His work reveals that behind the success of many new product introductions lies the development of novel process technologies that provide lower costs higher quality and increased flexibility Pisano challenges the widely held product process life cycle view of competition which suggests that industries tend to emphasize either product innovation or process innovation He also questions the notion that there is a conflict between pursuit of product innovation and pursuit of lower costs arguing that product development and process development capabilities are complementary Extending the lessons to a wide variety of manufacturing industries *The Development Factory* will guide companies toward unlocking the potential of process development and understanding the patterns of organizational behavior and managerial actions that help create and implement new capabilities over time **Development Factory** Gary P.

Pisano, 1997 **Process Understanding** Ian Houson, 2011-06-09 Process Understanding is the underpinning knowledge that allows the manufacture of chemical entities to be carried out routinely robustly and to the required standard of quality This area has gained in importance over the last few years particularly due to the recent impetus from the USA's Food and Drug Administration This book covers the multidisciplinary aspects required for successful process design safety modeling scale up PAT pilot plant implementation plant design as well the rapidly expanding area of outsourcing In discussing what process understanding means to different disciplines and sectors throughout a product's life cycle this handbook and ready reference reveals the factors important to the development and manufacture of chemicals The book focuses on the fundamental scientific understanding necessary for a smoother technical transfer between the disciplines leading to more effective and efficient process development and manufacturing A range of case studies are used to exemplify and illustrate the main issues raised As a result readers will appreciate that process understanding can deliver a real competitive advantage within the pharmaceuticals and fine chemicals industry This book serves as an aid to meeting the stringent regulations required by the relevant authorities through demonstrable understanding of the underlying science

Managing Process Innovation Thomas Lager, 2010 This book will take the reader through a systematic examination of the factors involved in process innovation starting with considerations to be initiated in the boardroom and at group management level and developing into a hands on guide for middle management and professional engineers directly involved in the innovation of process technology The book initially puts process innovation in a corporate perspective providing a

framework for the development of a corporate process innovation strategy Some new methodological tools are also introduced which support targeting and proper roadmapping of improved process capabilities and the progression of customer and end user product demands into raw material specifications in a well managed supply and demand chain Various aspects of the design of a process innovation organisation are reviewed in a later section In the context of development of process technology this book advocates the importance of delineating and clarifying corporate work processes for process innovation Various environments for development work are discussed from initial test work to pilot plant testing and the use of demonstration facilities to achieve lean process innovation The importance of an open collaborative approach is stressed this includes involving external equipment manufacturers at an early stage as well as collaborative development of customers use of the products in their production processes with a view to excellence in future application development Process innovation will not however generate profit or reduce operating costs until the new or improved process technology is operating well in the plant Best practice for start up of new process technology and process plants is then examined starting with a fresh outlook on technology transfer in general This often neglected area of management of process innovation is in fact of an importance equivalent to that of a product launch in the development of new products The final part of the book closes the circle discussing how to implement and measure the strategic intent of process innovation Improving the general performance of corporate process innovation is then covered by going through success factors and key performance indicators and their aggregation on a corporate level

Managing Product Innovation In The Process Industries: From Customer Understanding To Product Launch - Uncover The Intrinsic Nature Of Developing Non-assembled Products Thomas Lager, 2024-04-29

This book puts management of product innovation in a corporate strategic perspective and argues that a company's competitive position is strongly related to an underlying unique and continually renewed product innovation work process which drives innovation and delivery of new or improved products in the marketplace The book will take the reader through a systematic examination of the necessary consecutive steps for companies successful development of non assembled products in the cluster of process industries For readers in search of a seamless easy to use effective formal product innovation work process from customer understanding to product launch this book provides a guiding framework and hands on advice for work process design A novel five phase structural process model of the product innovation work process is initially introduced in order to orchestrate a more dynamic interaction between product and process innovation and the integration of sustainability and product eco design in product design The reader will learn first about the importance of aligning new product ideas with the corporate business model and product innovation strategy during the contextualization phase and then how to transform product ideas into well defined complementary product and process concepts In the movement of product ideas from the conceptualization phase to industrialization the use of pilot planting and production trials for scale up of product and process concepts is further

explored To secure a design for processability a novel industrialization sub process is introduced and the integration of complementary development of product and service offerings is further examined The deployment of application development throughout and after product launch is highlighted for an enhancement of product commercialization and a reduction of time to break even for new products

Managing Innovative Manufacturing Harry Boer,Anders Drejer,2005 This e book is based on papers presented at the conference on Managing Innovative Manufacturing Organised by the Center for Industrial Production the conference took place on 22 23 September 2003 at Aalborg University Denmark Why a conference on managing innovative manufacturing The main ones from a Western perspective are globalisation hypercompetition and an increasingly important role of what are currently low cost countries

Handbook of Quantitative Science and Technology Research Henk F. Moed,Wolfgang Glänzel,Ulrich Schmoch,2006-02-23 This handbook offers a state of the art overview of quantitative science and technology research It focuses on the development and application of indicators derived from data on scientific or scholarly publications and patents It comprises 34 chapters written by leading specialists in the various sub domains These chapters deal with theoretical and methodological issues illustrate applications and highlight their policy context and relevance Authors present a survey of the research topics they address and show their most recent achievements The 34 chapters are arranged into 5 parts Disciplinary Approaches General Methodology The Science System The Technology System and The Science Technology Interface The Editor s Introduction provides a further specification of the handbook s scope and of the main topics addressed in its chapters This handbook aims at four distinct groups of readers practitioners in the field of science and technology studies research students in this field scientists scholars and technicians who are interested in a systematic thorough analysis of their activities policy makers and administrators who wish to be informed about the potentialities and limitations of the various approaches and about their results

Research Handbook on Complex Project Organizing Graham M. Winch, Maude Brunet, Dongping Cao,2023-01-19 This Research Handbook provides a cutting edge review of complex project organizing CPO and suggests fruitful avenues for future research with a focus on grand challenges and a sustainable future

U.S. Industry in 2000 National Research Council,Board on Science, Technology, and Economic Policy,1999-05-11 U S industry faced a gloomy outlook in the late 1980s Then industrial performance improved dramatically through the 1990s and appears pervasively brighter today A look at any group of industries however reveals important differences in the factors behind the resurgence in industry structure and strategy research performance and location of activities as well as similarities in the national policy environment impact of information technology and other factors U S Industry in 2000 examines eleven key manufacturing and service industries and explores how they arrived at the present and what they face in the future It assesses changing practices in research and innovation technology adoption and international operations Industry analyses shed light on how science and technology are applied in the marketplace how workers fare as jobs require greater knowledge and how U S

firms responded to their chief competitors in Europe and Asia The book will be important to a wide range of readers with a stake in U S industrial performance corporate executives investors labor representatives faculty and students in business and economics and public policymakers

Producing Prosperity Gary P. Pisano, Willy C. Shih, 2012-09-25 Manufacturing's central role in global innovation Companies compete on the decisions they make For years even decades in response to intensifying global competition companies decided to outsource their manufacturing operations in order to reduce costs But we are now seeing the alarming long term effect of those choices in many cases once manufacturing capabilities go away so does much of the ability to innovate and compete Manufacturing it turns out really matters in an innovation driven economy In Producing Prosperity Harvard Business School professors Gary Pisano and Willy Shih show the disastrous consequences of years of poor sourcing decisions and underinvestment in manufacturing capabilities They reveal how today's undervalued manufacturing operations often hold the seeds of tomorrow's innovative new products arguing that companies must reinvest in new product and process development in the US industrial sector Only by reviving this industrial commons can the world's largest economy build the expertise and manufacturing muscle to regain competitive advantage America needs a manufacturing renaissance for restoring itself and for the global economy as a whole This will require major changes Pisano and Shih show how company level choices are key to the sustained success of industries and economies and they provide business leaders with a framework for understanding the links between manufacturing and innovation that will enable them to make better outsourcing decisions They also detail how government must change its support of basic and applied scientific research and promote collaboration between business and academia For executives policymakers academics and innovators alike Producing Prosperity provides the clearest and most compelling account yet of how the American economy lost its competitive edge and how to get it back

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