# Global Electronic Manufacturing And Services

This compilation of 22 firm-specific case studies is an important contribution to the discussion of 'servicification' trends in manufacturing. 'Services have increased in importance and value in many manufacturing value chains, making companies that produce physical products look more like service enterprises. What services do global value chains use in their operations, how important are they and how do economic policies shape firms' configurations, operations, and location of global value chains? This book addresses these questions and more. The interviewed firms, based in 12 APEC economies, come from different sectors ranging from multinational automotive, construction equipment, and electrical appliance manufacturers to small and medium manufacturers of watches or chemical for water treatment. The book analyses what specific services are important in different stages of the value chain, and whether they are typically provided in-house or outsourced. Contents:Manufacturing-Related Services (Patrick Low and Gloria O Pasadilla)Manufacturing of Aircraft Control Systems in the Philippines (Andre Wirjo and Gloria O Pasadilla)Industrial Welding Services in Thailand (William Haines)Manufacturing of Mining and Construction Equipment (David Sit and Patrick Low)Manufacturing of Computer Servers (Yuhua Zhang)Wastewater Treatment Services (Arian Hassani and Andre Wirjo)Manufacturing of Automotive Components in the ASEAN Region (Denise Cheung)Manufacturing of Oil and Gas Industry Equipment in Singapore (Andre Wirjo and Gloria O Pasadilla)Car Manufacturing in the Philippines (Sherry Stephenson)Manufacturing of Thermal Power Generation Equipment (Gloria O Pasadilla)Production of Precision Die and Machine Parts in Thailand (Denise Cheung and Andre Wirjo)Manufacturing of Refrigerators (David Sit)Watch Manufacturing (Deborah Elms)Manufacturing of Automotive Components in Mexico: Perspectives from Three Firms (Andre Wirjo, Gloria O Pasadilla and Joel G Bassig)Manufacturing of Telecommunications Equipment (Huani Zhu and Gloria O Pasadilla)Manufacturing of Printed Circuit Boards in Canada (Ben Shepherd)Wine Industry in Chile (Karina Fernandez-Stark and Penny Bamber)Integrated Logistics Solutions Provider in Mexico (Andre Wirjo and Gloria O Pasadilla)Remanufacturing Services in the Construction Machinery Value Chain (Katherine Tait and Gary Gereffi)Manufacturing of Consumer Electronic Appliances in Indonesia (Emmanuel A San Andres)Fresh Cherry Industry in Chile (Penny Bamber and Karina Fernandez-Stark) Readership: Researchers, students and academics who are interested in international trade; trade economists; policymakers and general public who are interested in manufacturing related topics.
Computing and information and communications technology (ICT) has dramatically changed how we work and live, has had profound effects on nearly every sector of society, has transformed whole industries, and is a key component of U.S. global leadership. A fundamental driver of advances in computing and ICT has been the fact that the single-processor performance has, until recently, been steadily and dramatically increasing year over years, based on a combination of architectural techniques, semiconductor advances, and software improvements. Users, developers, and innovators were able to depend on those increases, translating that performance into numerous technological innovations and creating successive generations of ever more rich and diverse products, software services, and applications that had profound effects across all sectors of society. However, we can no longer depend on those extraordinary advances in single-processor performance continuing. This slowdown in the growth of single-processor computing performance has its roots in fundamental physics and engineering constraints--multiple technological barriers have converged to pose deep research challenges, and the consequences of this shift are deep and profound for computing and for the sectors of the economy that depend on and assume, implicitly or explicitly, ever-increasing performance. From a technology standpoint, these challenges have led to heterogeneous multicore chips and a shift to alternate innovation axes that include, but are not limited to, improving chip performance, mobile devices, and cloud services. As these technical shifts reshape the computing industry, with global consequences, the United States must be prepared to exploit new opportunities and to deal with technical challenges. The New Global Ecosystem in Advanced Computing: Implications for U.S. Competitiveness and National Security outlines the technical challenges, describe the global research landscape, and explore implications for competition and national security.
The processes and techniques of manufacturing have changed substantially over the decades and that evolution continues today. In order to examine the potential impacts of these changes, the Department of Commerce asked the NRC to design a workshop to focus on issues central to the changing nature of manufacturing. The workshop brought together a number of experts to present papers about and to discuss the current state of manufacturing in the United States and the challenges it faces. This report presents the results of that workshop. Key challenges that emerged from the workshop and that are discussed include understanding manufacturing trends; manufacturing globalization; information technology opportunities; maintaining innovation; strengthening small and medium-sized enterprises; workforce education; and rising infrastructure costs.
In Strategic Coupling, Henry Wai-chung Yeung examines economic development and state-firm relations in East Asia, focusing in particular on South Korea, Taiwan, and Singapore. As a result of the massive changes of the last twenty-five years, new explanations must be found for the economic success and industrial transformation in the region. State-assisted startups and incubator firms in East Asia have become major players in the manufacture of products with a global reach: Taiwan's Hon Hai Precision has assembled more than 500 million iPhones, for instance, and South Korea’s Samsung provides the iPhone’s semiconductor chips and retina displays. Drawing on extensive interviews with top executives and senior government officials, Yeung argues that since the late 1980s, many East Asian firms have outgrown their home states, and are no longer dependent on state support; as a result the developmental state has lost much of its capacity to steer and direct industrialization. We cannot read the performance of national firms as a direct outcome of state action. Yeung calls for a thorough renovation of the still-dominant view that states are the primary engine of industrial transformation. He stresses action by national firms and traces various global production networks to incorporate both firm-specific activities and the international political economy. He identifies two sets of dynamics in these national-global articulations known as strategic coupling: coevolution in the confluence of state, firm, and global production networks, and the various strategies pursued by East Asian firms to attain competitive positions in the global marketplace.
Global Electronic Manufacturing ServicesGlobal Electronic Manufacturing ServicesHandbook of Electronics Manufacturing EngineeringSpringer Science & Business Media
The growth of the electronics industry has been phenomenal worldwide since the 1970s and its future in India seems to be brighter in China and India where an explosive growth in this industry. One reason for this phenomenal growth is that the prices keep
While many business schools are teaching Global Operations Strategy with self-made teaching materials, there are no such textbooks. Combining practical approaches with detailed

theoretical underpinnings, this book provides theories, tools, frameworks, and techniques for global operations strategy, and brings real world perspectives to students and managers. Each chapter includes definition of key terms, introduction of fundamental theories, several short case examples, one long new case to explain the associated theories, and recommended further reading.

Market research guide to the wireless access and cellular telecommunications industry

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Examines upgradation and innovation by firms in GVCs through case studies of China, India, South Korea, the Philippines and Sri Lanka.

This reference book is a complete guide to the trends and leading companies in the engineering, research, design, innovation and development business fields: those firms that are dominant in engineering-based design and development, as well leaders in technology-based research and development. We have included companies that are making significant investments in research and development via as many disciplines as possible, whether that research is being funded by internal investment, by fees received from clients or by fees collected from government agencies. In this carefully-researched volume, you'll get all of the data you need on the American Engineering & Research Industry, including: engineering market analysis, complete industry basics, trends, research trends, patents, intellectual property, funding, research and development data, growth companies, investments, emerging technologies, CAD, CAE, CAM, and more. The book also contains major statistical tables covering everything from total U.S. R&D expenditures to the total number of scientists working in various disciplines, to amount of U.S. government grants for research. In addition, you'll get expertly written profiles of nearly 400 top Engineering and Research firms - the largest, most successful corporations in all facets of Engineering and Research, all cross-indexed by location, size and type of business. These corporate profiles include contact names, addresses, Internet addresses, fax numbers, toll-free numbers, plus growth and hiring plans, finances, research, marketing, technology, acquisitions and much more. This book will put the entire Engineering and Research industry in your hands. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled.

Global value chains (GVCs) are fraught with the phenomenon of fragmentation and dispersion of production across the world. India presents a unique example with its high potential in manufacturing capability but low integration in GVCs. This book examines the reasons why India has failed to integrate within GVCs so far and looks at key examples to understand the impediments in this process. The chapters bring together case studies from across the manufacturing industry – labour-intensive (garment, paper and diamond), capital-intensive (automobile and petrochemical), and knowledge-intensive (semi-conductor microchip, chemical and pharmaceutical) sectors. Together, they present stories of successful integration of some firms in GVCs as well as the difficulties faced by them. The volume also highlights the importance of GVCs in the context of developing countries in terms of benefits such as income and value generation, knowledge and technology collaborations, and advances in systems and processes. This book will interest scholars and researchers in economics, international trade studies, development economics and business management as well as to practitioners, policymakers, government officials, and those in the corporate sector.

This insightful book explores why implementation of environmental law is too often ineffective in achieving effective environmental governance. It provides careful analysis and innovative proposals to help improve the practical effectiveness of legal i

A guide to the trends and leading companies in the engineering, research, design, innovation and development business fields: those firms that are dominant in engineering-based design and development, as well leaders in technology-based research and development.

Going "green" is becoming a major component of the mission for electronics manufacturers worldwide. While this goal seems simplistic, it poses daunting dilemmas. Yet, to compete effectively in the global economy, manufacturers must take the initiative to drive this crucial movement. Green Electronics Manufacturing: Creating Environmental Sensible P

The International Association for Management of Technology (IAMOT) is one of the largest scientific associations dedicated to advance the education, research and application of management of technology. The annual IAMOT conference assembles the most prominent scientists and experts in the field. The 17th conference held in 2008 included over 300 papers by experts from various countries. This volume is a collection of the best, high quality papers presented at the conference, covering topics and issues related to the knowledge economy, commercialization of knowledge, green technologies, and sustainable development.

In the early 1980’s, Jiang Zemin, then Minister of Electronics Ministry of China, assessed the IT industry as ‘the strategic high ground in international competition.’ He "perceived the discrepancy between China’s level and the world's advanced level was so great that we had to do our utmost to catch up." Since then through numerous articles and frequent speeches he has drawn up a detailed technological and policy roadmap for doing exactly that. This volume collects over 25 pieces written over more than 20 years. It demonstrates the former president of China’s authority and insight into the development of China’s IT industry since the introduction of reforms, and the cutting-edge issues experienced throughout the global IT industry. Jiang’s ambitious goal is the transformation of China into a leader in the global IT industry by 2020. This volume offers IT industry analysts, China watchers, policy makers and advisors, IT researchers, and investors a singular and authoritative view on how China should get there. Establishes key measurements for the development of China’s IT industry Sets forth the priorities for government and industry Identifies opportunities for interrelating military and civilian R&D and applications Reveals key obstacles to progress and directives for overcoming them Sets out an R&D agenda for industry Names the core industry sectors for government and industry investment Identifies opportunities and the necessity for international collaboration Establishes the need to develop China’s own IPR and to respect and protect others’ IPR

This book examines industrial upgrading in China’s Pearl River Delta (PRD), with a specific focus on how strategic coupling impacts industrial upgrading from the perspective of relational economic geography. It shows that firms in the PRD have been struggling after serving as low-tier suppliers and subcontractors for transnational corporations for two

decades, since the 1980s opening reform in China. Indigenous innovation and direct state support have fostered the success of a few firms, but not the majority. In response, many local firms are now taking advantage of the opportunities to be found in global production networks, which link the PRD with the global economy. This book elaborates on how these opportunities are embedded and identified in global production networks with regard to different types of strategic coupling. It not only renews the theory of strategic coupling in economic geography, but also demonstrates potential strategies that latecomer firms can pursue, and which can have major implications for many developing countries and regions.

Knowledge and Technology Integration in Production and Services presents novel application scenarios for balanced distributed and integrated systems based on knowledge and up-to-date technology and provides a great opportunity for discussion of concepts, models, methodologies, technological developments, case studies, new research ideas, and other results among specialists. It comprises the proceedings of the Fifth International Conference on Information Technology for BALANCED AUTOMATION SYSTEMS in Manufacturing and Services (BASYS'02), which was sponsored by the International Federation for Information Processing (IFIP) and held in September 2002 in Cancun, Mexico.

Electronic business, the integration of IT and the Internet into business processes, has begun to completely revolutionize business and the economy. The aim of this book is to point out the challenges and opportunities Europe and its companies are faced with in electronic business. The material is based upon the authors joint experience of years of research into the use of IT in business, industry, and government, as well as their management experience as President and CEO of leading technology organizations.

For several decades, fast-growing East Asia has been the envy of the developing world. Not only has East Asia outperformed all other regions of the world, but it also recovered surprisingly swiftly from the 1997–98 Asian financial crisis and the 2008–09 global financial crisis. Nevertheless, investment in the region remains subdued relative to pre-Asian crisis levels. Are current investment rates too low and, given greater investment, could the region grow even more rapidly? This book brings together a rich array of papers analyzing the determinants of, and impediments to, investment and growth. It discusses a range of issues bearing on investment and development. The chapters cover domestic and international economic, institutional and political factors, including the role of foreign direct investment, and the importance of public infrastructure, fiscal policy and export-oriented growth strategies. Trade and trade policy, in particular, are emphasized, with contributions ranging from an analysis of global production networks in electronics manufacturing, to the effects and implications of economic integration in the Mekong states. The chapters provide a healthy blend of theoretical and empirical analysis and offer a range of useful policy proposals. This book will be of interest to policy-makers, students and scholars of Asian economics and development economics alike.

An authoritative guide to optimizing design for manufacturability and reliability from a team of experts Design for Excellence in Electronics Manufacturing is a comprehensive, state-of-the-art book that covers design and reliability of electronics. The authors—noted experts on the topic—explain how using the DfX concepts of design for reliability, design for manufacturability, design for environment, design for testability, and more, reduce research and development costs and decrease time to market and allow companies to confidently issue warranty coverage. By employing the concepts outlined in Design for Excellence in Electronics Manufacturing, engineers and managers can increase customer satisfaction, market share, and long-term profits. In addition, the authors describe the best practices regarding product design and show how the practices can be adapted for different manufacturing processes, suppliers, use environments, and reliability expectations. This important book: Contains a comprehensive review of the design and reliability of electronics Covers a range of topics: establishing a reliability program, design for the use environment, design for manufacturability, and more Includes technical information on electronic packaging, discrete components, and assembly processes Shows how aspects of electronics can fail under different environmental stresses Written for reliability engineers, electronics engineers, design engineers, component engineers, and others, Design for Excellence in Electronics Manufacturing is a comprehensive book that reveals how to get product design right the first time.

Global networks, which are the primary pillars of the modern manufacturing industry and supply chains, can only cope with the new challenges, requirements and demands when supported by new computing and Internet-based technologies. Cloud Manufacturing: Distributed Computing Technologies for Global and Sustainable Manufacturing introduces a new paradigm for scalable service-oriented sustainable and globally distributed manufacturing systems. The eleven chapters in this book provide an updated overview of the latest technological development and applications in relevant research areas. Following an introduction to the essential features of Cloud Computing, chapters cover a range of methods and applications such as the factors that actually affect adoption of the Cloud Computing technology in manufacturing companies and new geometrical simplification method to stream 3-Dimensional design and manufacturing data via the Internet. This is further supported case studies and real life data for Waste Electrical and Electronic Equipment (WEEE) remanufacturing. This compilation of up to date research and literature can be used as a textbook or reference for mechanical, manufacturing, and computer engineering graduate students and researchers for efficient utilization, deployment and development of distributed and Cloud manufacturing systems, services and applications.

Accelerating processes of economic globalization have fundamentally reshaped the organization of the global economy towards much greater integration and functional interdependence through cross-border economic activity. In this interconnected world system, a new form of economic organization has emerged: Global Production Networks (GPNs). This brings together a wide array of economic actors, most notably capitalist firms, state institutions, labour unions, consumers and non-government organizations, in the transnational production of economic value. National and sub-national economic development in this highly interdependent global economy can no longer be conceived of, and understood within, the distinct territorial boundaries of individual countries and regions. Instead, global production networks are organizational platforms through which actors in

these different national or regional economies compete and cooperate for a larger share of the creation, transformation, and capture of value through transnational economic activity. They are also vehicles for transferring the value captured between different places. This book ultimately aims to develop a theory of global production networks that explains economic development in the interconnected global economy. While primarily theoretical in nature, it is well grounded in cutting-edge empirical work in the parallel and highly impactful strands of social science literature on the changing organization of the global economy relating to global commodity chains (GCC), global value chains (GVC), and global production networks (GPN).

There are few industries, if any untouched by global competitive forces. Firms and countries long accustomed to dominance in their respective international markets must now reckon with aggressive and innovative competitors from all corners of the world. As the cross-border flow of people, knowledge, ideas, products, services and management practices accelerates, the notion of home-based advantage is becoming weaker. Unlike their domestic counterparts, firms competing across borders must deal with differences in political, legal, financial, cultural, governance and macroeconomic contexts. These contextual differences shape competition in international strategy and make the study of international strategy more than just a simple extension of classic strategic analysis. Global Strategy deals with the question of how firms can compete in a global environment. Andrew Inkpen and Kannan Ramaswamy examine the issues considered central to the study of strategic management in a global context, such as the nature of global advantage, strategic alliances, competing in emerging markets, international corporate governance, global knowledge management and ethical issues in international business. Much as been written about the relevance of global, regional and domestic strategies to counter competition from overseas and as a means to enter foreign markets. However, lobal Strategy takes a broader view, organizing itself around a set of strategic management issues that arise specifically because a firm is international. While there is obviously some overlap between domestic strategic management and global strategic management, it is Inkpen and Ramaswamy's contention that the differences between domestic and global strategy warrant specific attention. By integrating academic research with practical examples and case studies, they inform students and managers of global business about a diverse set of important strategic issues.

To be competitive and quick-to-market in today's global marketplace, Electronic Manufacturing Service (EMS) providers should focus on their core competencies, partnership relationships and continuous improvements. As Original Equipment Manufacturers (OEMs) Customers shift their focus on marketing and product development, EMS providers have been assuming the leading role to develop creative manufacturing solutions based on the core competencies in their supply chains. A tightly-coupled and synergistic relationship with OEM customers and key components suppliers is critical to EMS providers' success. This thesis focuses on applying system dynamics approach to supplier partnership management at FSJC, a top player in EMS industry, with the aim of gain deeper understanding on dynamics within FSJC's supply chain network and between suppliers and FSJC. We find out that to maintain its market position, FSJC must concentrate on small number of qualified suppliers and put effort to build strong partnership with these suppliers. This requires a better understanding of the impact of key parameters of partnership and manufacturing process of both suppliers and FSJC. Developing this sort of understanding can help FSJC continue to provide worldwide responsiveness to its customers by improving time-to-market, scalability and manufacturing efficiency and foster long-term partnership with both customers and suppliers by improving communications both upstream and downstream in the supply chain.

Through over 20 extraordinary executive interviews, Coates captures the essence of sourcing and manufacturing in China.

The convenience of online shopping has driven consumers to turn to the internet to purchase everything from clothing to housewares and even groceries. The ubiquity of online retail stores and availability of hard-to-find products in the digital marketplace has been a catalyst for a heighted interest in research on the best methods, techniques, and strategies for remaining competitive in the era of e-commerce. The Encyclopedia of E-Commerce Development, Implementation, and Management is an authoritative reference source highlighting crucial topics relating to effective business models, managerial strategies, promotional initiatives, development methodologies, and end-user considerations in the online commerce sphere. Emphasizing emerging research on up-and-coming topics such as social commerce, the Internet of Things, online gaming, digital products, and mobile services, this multi-volume encyclopedia is an essential addition to the reference collection of both academic and corporate libraries and caters to the research needs of graduate-level students, researchers, IT developers, and business professionals. .

This single source reference offers a pragmatic and accessible approach to the basic methods and procedures used in the manufacturing and design of modern electronic products. Providing a stategic yet simplified layout, this handbook is set up with an eye toward maximizing productivity in each phase of the eletronics manufacturing process. Not only does this handbook inform the reader on vital issues concerning electronics manufacturing and design, it also provides practical insight and will be of essential use to manufacturing and process engineers in electronics and aerospace manufacturing. In addition, electronics packaging engineers and electronics manufacturing managers and supervisors will gain a wealth of knowledge.

"This book presents emerging research-based trends in the area of global quality lean six sigma networks and analysis through an interdisciplinary approach focusing on research, cases, and emerging technologies"--Provided by publisher.

India, a leading exporter of information-technology services, faces a fundamental puzzle. Its electronics industry is struggling despite a huge and growing domestic market and pockets of world-class capabilities. Drawing on survey questionnaires and interviews with key private and public industry players and multinationals, this study examines how

restrictive regulations and a largely dysfunctional implementation of past support policies have constrained investment in plants and equipment and technology absorption and innovation. Electronics manufacturing remains disconnected from India's chip-design capabilities which are integrated, instead, into global networks of innovation and production. India's growing domestic demand for electronic products results in rising imports of final products and high import-dependence for key components. Bold action is required to change the anemic growth of electronics manufacturing just when the global electronics industry is rapidly ending historical strategies for growth. To achieve its potential, electronics manufacturing in India must move beyond "high-volume, low-cost" activities, towards a greater focus on "low-volume, high-value" production and on frugal innovation for the domestic market. The government's National Policy on Electronics is a first step on this path, but it needs to be complemented by reforms relating to taxation, customs, compliance, and inspections. Equally important are efforts to enhance the strategic use of technical standards and smart approaches to international trade diplomacy.

Leads job seekers to the 500 most successful companies that are hiring in America. This work includes information, such as benefit plans, stock plans, salaries, hiring and recruiting plans, training and corporate culture, growth, facilities, research and development, fax numbers, toll-free numbers and Internet addresses.

Taiwan's electronics industry, especially the semiconductor and information products sectors, is characterized by rapid growth and high potential. This book investigates the past performance, current status, and future development of this industry, providing engineers with important data. Corporate business planners and electronics managers will find helpful information for decision making regarding joint ventures and alliances with Taiwanese manufacturers.

An edgy, racy, action-packed business / financial / technology thriller, about the global industry that manufactures and brings us all our smart phones, laptop computers cloud servers - and virtually any other electronics products you can think of. Think this is boring stuff? In a US$500 billion dollar global market - with careers and THAT much money at stake? Think again... A primer on an industry that most people don't know exists? A cautionary tale for those people who do?

The development of international trade is driven by international logistics and management and the provision of the global supply chain. The ultimate objective of global supply chain management is to link the market place, distribution network, manufacturing/processing/assembly process, and procurement activity in such a way that customers are serviced at a higher level yet lower cost. Overall this has introduced a new breed of management in a computer literate environment operating in a global infrastructure. Addressing this complex topic, Alan Branch's new book fulfills two clear objectives: to provide a concise, standard work on the subject, written in lucid language that embraces all the ingredients of a notoriously complex subject with a strategic focus to extol best practices and focus on all areas of the industrial and consumer sectors and their interface with changing international market needs. Until now, no book dedicated to international logistics and supply chain management was available. Practically-oriented, this book features numerous case studies and diagrams from logistic operators. An ideal resource for management students, academics and managers who need a succinct treatment of global operations, Branch's book skillfully illustrates his ideas in practice. It is a book which should be on the shelf of every practitioner and student of the subject. Also available from Routledge: Elements of Shipping, Eighth Edition, Alan E. Branch. (978-0-415-36286-3) Maritime Economics: Management and Marketing, Alan E. Branch. (978-0-748-73986-8)

Examination Thesis from the year 2010 in the subject Business economics - Business Management, Corporate Governance, grade: 78/100, The University of Surrey (Business School), course: MBA - Global Strategic Management - Microsoft global outsourcing strategy, language: English, abstract: In today's global market, competition has become a race to acquire skills and competencies as well as a battle for market position especially in the domestic electronics industry where companies increasingly compete on responsiveness and flexibility, placing a premium on rst-mover advantages.(Bryce et al., 1998) According to Slack, strategic decisions and tactics aimed at maintaining profitability and growth are derived from a firm's capabilities, resources and processes. (Slack et al., 2009b). Improving those performance drivers leads to competitive advantages that are significant in winning and maintaining customers, while gaining more business to the firm. (Slack et al., 2009a). Porter believes that a firm can outperform its rivals if it can establish a difference that it can preserve. This could be through delivering greater value to its customers or creating value at a lower cost, or both. Such differentiation arises from the choice of strategic objectives and how activities are performed better than rivals across the value chain. (Porter, 1996a) Each company decides on which performance building blocks (Figure 1) they wish to excel at to deliver a unique mix of value, and how to configure their value chain for best fit (Neely, 2008). This is done either through focusing on core competencies inside the firm itself, or leveraging external capabilities through outsourcing and partnerships. The goal of this paper is to discuss the main strategic reasons behind outsourcing, its importance to the domestic electronics industry and whether it can provide a sustainable competitive advantage to that sector. Furthermore, this paper will highlight the rationale behind outsourcing dec