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Vol 8, No 2 (2019)

International Journal of Supply Chain Management (IJSCM)

Table of Contents

Articles

The Effect of HR Relational Strategy and Transactional Strategy on Supply Chain Performance: The Moderating Role of Environment Orientation	PDF
Djoko Roespinoedji, Adam Faritzal, Asep Sudrajat, Umair Ahmed, Sari Dewi Oktari	1 - 10
The Effect of Green Supply Chain Management on Customer Effectiveness in the Presence of Environment Orientation and Supply Chain Orientation	PDF
Mohd Haizam Mohd Saudi, Iwan Ridwansyah, Nugraha Saefudin, Rd. Herman Sofiandi Mohd, Shahril Bin Ahmad Razimi	11 - 21
Working Capital Management: An Antecedent of Successful Supply Chain Management	PDF
Djoko Roespinoedji, Siti Komariah, Tita Borshalina, Meryem Fati, Budiman .	22 - 31
Financial Risks in Supply Chain Management: Causes and Consequences	PDF
Obsatar Sinaga, Wahdiaman Wahdiaman, Fitriah Rumaisa, Zalina Zainudin	32 - 40
Determination of Supply Chain Performance and Market Performance: Impact of Supply Chain Activities in Indonesian Crude Palm Oil Industry	PDF
Djoko Roespinoedji, Sriyani Violina, Viddi Mardiansyah, Setijadi Setijadi, Azizan Mohamed Isa	41 - 51
Involvement of Grower, Supplier and Product Innovation in Determining the Business Performance of Malaysian Poultry Industry: Moderating Role of Management Skills	PDF
Obsatar Sinaga, Robertus Novianto, Apriwandi Apriwandi, Khairul Shaleh, Azizan Mohamed Isa	52 - 64
The Effect of Supply Chain Management on Indonesian Pharmaceutical Industry	PDF
Djoko Roespinoedji, Niki Hadian, Saadah Saadah, Veronika Listi Ferdini Damopolii, Azizan Mohamed Isa	65 - 75
Green Supply Chain Management Organizational Performance	PDF
Obsatar Sinaga, Yati Mulyati, Anni Darrini, Dulcenombre Madrid Galdeano, Arus Reka Prasetya	76 - 85
Impact of Supply Chain Integration on Competitive Advantage	PDF
Obsatar Sinaga, Suskim Riantani, Yana Hendayana, Mohd Haizam Mohd Saudi, Zalina Zainudin	86 - 94
The Role of HR Practices in Enhancing Firm Supply Chain Performance	PDF
Obsatar Sinaga, Anne Nurfarina, Asep Deni Iskandar, Soleman Mozammel, Ai Rosita	95 - 104
Supply Chain Governance, Corporate Governance and Firm Supply Performance: A Paradox of Prediction	PDF
Mohd Haizam Mohd Saudi, Hari Supriadi, Sunjana ., Mohd Shahril Ahmad Razimi	105 - 113
A Combine Effect of Firm Characteristics and Corporate Social Responsibility on Supply Chain Performance	PDF
Mohd Haizam Mohd Saudi, Aida Wijaya, Dini Arwaty, Dr. Fazluz Zaman, Dyah Purnamasari	114 - 123
How the Relationship between Corporate Governance and Foreign Portfolio Investment Expediate Supply Chain Growth in Indonesia?	PDF
Obsatar Sinaga, Eriana Kartadjumena, Fitri Sukmawati, Muhamad Alan Jayaatmaja, Mohd Shahril Bin Ahmad Razimi	124 - 133
Supply Chain Governance, Corporate Governance and Supply Chain Capabilities: An Unexplored Nexus	PDF
	134 - 141

Sunardi Brahmana, Hendar Hendar, Iin Muâ€™minah, Mohd Shahril Bin Ahmad Razimi	
Adopting Supply Chain Financial Solutions for the Risk Associated with Supply Chain Financial Flows	PDF 142 - 150
Hero Gunawan, Anne Nurfarina, Lia Amaliawiati, Omar Alaeddin	
Supply Chain Financing as an Antecedent of Supply Chain Success: An Indonesian Perspective	PDF 151 - 158
Sri Juniati, Asep Deni Iskandar, Ai Rosita, Omar Alaeddin	
Supply Chain Management Practices and Operational Performance: The Mediating Role of Process Control and Improvement	PDF 159 - 167
Roeshartono Roespinoedji, Annisa Iisdayanti, Sasmi Farida, Azizan Mohamed Isa	
Role of Supply Chain-e Collaboration on Supply Chain Performance of Indonesian Service Sector	PDF 168 - 176
Afghan Prawira, Uning Kuraesin, Dede Hertina, Zalina Zainudin	
Ensuring Supply Chain Sustainability from the Perspective of Environmental and Social Performance	PDF 177 - 188
Roeshartono Roespinoedji, Sunjana Sunjana, Irwan Shah Zainal Abidin, Thitinan Chankoson	
The Effect of Green Supply Chain Practices on Indonesian Manufacturing Small and Medium Enterprises (SMEs)	PDF 189 - 197
Roeshartono Roespinoedji, Ferry Mulyawan, Afghan Prawira, Irwan Shah Zainal Abidin, Thitinan Chankoson	
Data Warehouse Success Lead towards Supply Chain Efficiency	PDF 198 - 210
Djoko Roespinoedji, M. Kohar Mudzakar, R. Ferry Mulyawan, Sendi Gusnandar, Morni Hayati Jaafar Sidik	
Customer Relationship Management (CRM) and Logistic Customer Satisfaction	PDF 211 - 221
Thitinant Warewanich, Khunanan Sukpasjaroen, Thitinan Chankoson, Nattapat Ruaengmaneeya, Nipont Raviyan	
Role of Enterprise Resource Planning and Total Quality Management in Supply Chain Organizational Performance	PDF 222 - 231
Antonius Setyadi	
Sustainable Supply Chain Governance Mechanisms: Strategic Approaches to Corporate Sustainability	PDF 232 - 240
Rajindra Rajindra, Burhanuddin Burhanuddin, Rukhayati Rukhayati, Ismail Suardi Wekke	
Integration between Management Capability and Relationship Capability to Boost Supply Chain Project Performance	PDF 241 - 252
Boy Yuliadi, Andi Nugroho	
Establishing Relationship between Barriers and Facilitators of Supply Chain Integration: A Supply Chain Governance Model	PDF 253 - 262
Siswanto Siswanto, Meiryani Meiryani, Armanu Thoyib, Irwan Shah Zainal Abidin	
Economic Factors and Settings for Market Transformation in Asia	PDF 263 - 267
Tlektes I. Espolov, Aidos T. Espolov, Berick S. Ospanov, Sailaukhan G. Raiymbekov, Kairat K. Aituganov, Zhenisbek Zh. Suleimenov	
Innovative Development of Telecommunications and Supply Chain Management in Kazakhstan	PDF 268 - 276
Arman K. Maralov, Kasiya A. Kirdasinova, Nurlan Kurmanov, Gulmira Kabdullina, Mafura Uandykova	
An Efficient Portfolio Management for Trading Under Uncertain Environment	PDF 277 - 283
Kocherlakota Satya Pritam, Trilok Mathur, Shivi Agarwal	
A Study on Interdisciplinary Conceptual Integration of Supply Chain Management and Talent Management	PDF 284 - 289
Kolachina Srinivas, K Bhavana Raj	
Impact of Robustness of Supply Chain on its Performance - An Empirical Study	PDF 290 - 296
K Bhavana Raj, Kolachina Srinivas	
An Aerospace Business Case on Additive Layer Manufacturing Technologies in	PDF

Aerospace and Defense Supply Chain Narsimlu Kemsaram, Kishore Kumar Maley	297 - 303
Influence of Supply Chain Management on Universities Development: An Outward Glance Niyaz K Gabdrakhmanov, Albert V Abilov, Olga A Vershinina, Aida Z Novenkova, Marina Yu Medvedeva	PDF 304 - 308
Social and Economic Impacts of Supply Chain Performance Measurement and Productivity with Particular Reference to Iraq Hind Ghanim Al-Mehannah, Fatin Ayid Jasim, Hanan Abdulkhudhir Hashim Al-Mousawi	PDF 309 - 316
Impact of Operations and Information Management in a Banking Service Provider Azhar Nema Abu Ghneim	PDF 317 - 322
Investigation of the Supply Chain Management Effects on the Foreign Trade Development of Iran in the Context of Other Countries of Southwest Asia Morteza Ramezani Galeshi	PDF 323 - 330
Determining the Optimum Level of Production in Carpet Production Workshops of Iran Carpet Co Based on the Global Supply Chain Mohammadreza Sharifikheirabadi, Amin Sharifikheirabadi, Mehdi Sharifikheirabadi	PDF 331 - 339
The Role of Judicial Audit in Reducing Tax Evasion Methods by Implementation of Supply Chain Management: A Field Study in the Iraqi Environment Firas Khudair Abbas Al-Zubaidi, Ali Abdulhussein Raji, Dheyaa zamil khudhair	PDF 340 - 351
Magnetic Marketing Success Factors and Their Impact on Purchasing Decision Making Exploration Research in a Sample of Private Banks in Baghdad Maha Arif Braism, Adil Dawood Salman, Ahmed Mohammed Ibrahim	PDF 352 - 360
Impact of the Accounting Environment on the Preparation of Financial Reports in Commercial Banks Adheem Naeem Bachi, Arshed Makki Rashid, Shaymaa Yas Khudhair	PDF 361 - 372
Measuring the Costs of Value Stream by using the Supply Chain Management and its Role in Cost Management Ali Abdul-Hussein Hani Al-Zameli, Maytham Badr Bawie Al-Sfan, Hassnain Kadhim Ojah	PDF 373 - 388
The Mediating Effects of Switching Costs on the Relationship between Service Quality, Customer Satisfaction and Customer Loyalty: A Study in Retail Banking Industry in Vietnam Vu Minh Ngo, Quyen Phu Thi Phan, Ninh Van Nguyen, Hieu Minh Vu	PDF 389 - 393
Modeling the Distribution of Organic Coffee Supply Chain from JunĀn Region, Peru Edgar D. Ramos, Ron Mesia, Carlos Cavero, Brenda Vera, Zilin Wu	PDF 394 - 403
Supply Chain Management & RFID: an Analysis of Research Productivity Divya Prakash Shrivastava, Anil Kumar	PDF 404 - 413
Supply Chain Management in the Age of Digitalization: Revealing the Trends of SCM 4.0 Petronela Pirvulescu, Peter Enevoldsen	PDF 414 - 428
Modelling Intention to Use ERP Systems among Higher Education Institutions in Egypt: UTAUT Perspective Mohamed Soliman Mohamed Soliman, Noorliza Karia, Soroush Moeinzadeh	PDF 429 - 440
Barriers to Information Sharing among Humanitarian NGOs; A Case of Jordan Raeda Jamal Saada, Yara Abu Taleb, Nabil Nimer	PDF 441 - 449
Emerging Techniques for Enhancing the Performance of Humanitarian Logistics Jungghan Bae, Muhammad Khan, Heeyoung Lee	PDF 450 - 459
SAP ERP Analysis as the Key of the Company's Procurement Process in the Use of Social Media Dedy Ricardo Serumena, Alb Joko Santoso, B. Kristyanto	PDF 460 - 467
Proposal Decision Support Process for Urban Goods Delivery Mouna Atik El Ftouh, Abdellah Azmani, Mohamed Fourka	PDF 468 - 482

Conceptual Architecture for Agent-Based Modelling of Supplier Selection Conducted by a Supply Chain Dyad Firdaous Zair, Maryam Nejma, Mohamed Fourka, Abdelghani Cherkaoui	PDF 483 - 492
The Conceptual Framework of Information Technology Adoption Decision-making in a Closed-loop Supply Chain Shu-San Gan	PDF 493 - 497
A Supplier Strategy to Control the Bullwhip Effect Akram Amine El-Tannir	PDF 498 - 504
An Analysis of the Garment sector of Pakistan within a Global Value Chain Framework Kashif Malik, Syed Turab Hussain, Adeel Faheem, Usman Khan	PDF 505 - 522
The Role of Accounting Knowledge in Supply Chain Risks Mitigation and Efficiency Improvement Mohammed Nadem Dabaghia	PDF 523 - 530
The Effect of Corporate Social Responsibility in Achieving Competitive Advantage at Jordanian Supply Chain Ahmad Yousef Areiqat, Tawfiq Saleh Abdelhadi, Ayman Ahmad Abu Rumman, Sakher abdrabuh Al-Bazaiah	PDF 531 - 540
The Rule of Distinct Services of Transport Companies in Customers Satisfaction: A Case Study from Royal Jordanian Airlines Ahmad Yousef Areiqat, Jamal Ahmed Al-Doori, Abdulsada Mutlaq Alsaleem, May Mousa Ahmad	PDF 541 - 548
A Systematic Review of Performance Enhancement of Humanitarian Logistics through Transparency: Current Status and Perspectives Junghan Bae, Muhammad Khan, Hee Young Lee	PDF 549 - 568
The Global Expansion of UBER in ASIAN Markets Roderick Caballero Bugador	PDF 569 - 575
A Study on Inventory Management in Al Ain Hospital Ayman Al Armoti, Amal Salem Alkabi	PDF 576 - 584
Internal Performance of an Integrated Supply Chain: Does Flexibility Matter? Aida Wijaya, Ivan Gumilar, Arief Rahmana, Nadeem Khalid	PDF 585 - 593
Operational Performance of an Agile Supply Chain: A Cash to Cash Approach Afghan Prawira, Syafdinal ., Asep Anwar, Omar Alaeddin	PDF 594 - 602
Fostering Indonesian SMEs Performance: The Role of Supply Chain Networks and Supply Chain Flexibility Suskim Riantani, Eriana Kartadjumena, Muhamad Alan Jayaatmaja, Morni Hayati Jaafar Sidik	PDF 603 - 611
Influence of Internal and External factors on Supply Chain Information System Risk Management Implementation Chaleeya Yang-Ngam, Thitinan Chankoson, Pornpimon Aodton	PDF 612 - 623
Coal Supply Chain Management and Economic Efficiency of using High-Ash Coking Coal in Ferroalloy Manufacturing Bura Akhmetzhanov, Kashamida Tazhibekova, Aigerim Shametova, Abay Urazbekov	PDF 624 - 632
Investigation of the Profitability of the Methods of Selecting for Predicting the Risk of Stock Price Fall in the supply chain of Companies Listed in Tehran Stock Exchange Hassan Mohammadi, Alireza Zarei Soudani	PDF 633 - 642
Impact of Job Loyalty, Management Performance, Rewards and Recognition and Firm Size on Profitability in Supply Chain of Bank: Empirical Study on Islamic Banks in Iraq Wesam ali Husien, Aziz Mohammed Aziz, Ahmed Abdulkareem Jasim	PDF 643 - 648
The Relationship between Entrepreneurial Orientation and Business Performance: Exploring the Moderating Role of Supply Chain Management in SME Sector of Iraq Liqaa Miri habeeb, Batool Abd aii ghali, Thaer Hasan kadhim alharguse	PDF 649 - 653
The Relationship between Product Nature and Supply Chain Strategy: An empirical evidence	PDF 654 - 658

Muhammad Salman Shabbir, Muzaffar Asad, Muhammad Faisal, Rabia Salman	
A Comprehensive Model for Resistance Economy Based on the Operations and Information Management in Iran	PDF 659 - 678
Mohammad Ali Mousapour Gorji, Hasan Zareimatin, Hamid Reza Yazdani	
Investigation of the Supply Chain Management and Cash Balances Impact on Planning	PDF 679 - 684
Mohanad Hamad Obaid, Murtada Rashid Salih, Mohammed Frayyeh Hassan	
The Effect of Application of Planned Budget and Supply Chain Management on the Implementation of Applied Studies	PDF 685 - 690
Oday Takleef Lafta, Ali Bayan Talib, Hayfa Akadhim Ismael	
The Role of Supply Chain Management in External Indebtedness and Its Problems in Iraq Economy	PDF 691 - 701
Hind Ghanim Mohammed Al-Mehannah	
Investigating the Impact of Supply Chain Management on Bank Performance and Bankruptcy prediction using the cumulative density function model (Case Study: Iraqi banks)	PDF 702 - 714
Bushra Mohammed Sami Hassan Al-Asadi, Marwah Abdulkareem Zuhaira, Abdulamir Abid Kadhum Zwen	
The Investigation of the Relationship between Financial Leverage and Return on Supply Chain Management	PDF 715 - 725
Hassan Mohammadzadeh Moghadam, Mehdi Faghani, Mostafa Heydari	
Stock Assessment using a Cash Equivalent Based on Sourcing Management	PDF 726 - 734
Shatha Abdul Hussein Jebur, Haidar Hamza Jody Al-Duleimy	
Identifying the Dimensions and Sustainable Supply Chain Operations for Knowledge-Based Decision Making in Iran's Tax Affairs Organization	PDF 735 - 743
Hamidreza Shahidi Bonjar, Sanjar Salajegheh, Masoud Pourkiani, Saeed Sayadi	
Role of State and Foreign Ownership and Dividend Policy: Supply Chain Strategies in Emerging Market Perspective	PDF 744 - 749
Haidar Hamza Jody Al-Dulemy	
Electronic Supply Chain Management Role in Marxism Economy in Russia	PDF 750 - 758
Lapteva Elena Vasilievna, Ostroumov Vladimir Vladislavovich, Gorohovairina Venediktovna	
Supply Chain Management Strategies in Project and Absorptive Capacity to Implementation Partnership Strategy in New Product Development	PDF 759 - 770
Reza Gheshmi, Hugo Zarco, Frederic Marimon	
Role of Time-Driven Resource-Consumption Accounting in Strategic Cost Reduction and Support of Supply Chain Management	PDF 771 - 783
Ebrahim Mohammed Al-Matari, Adeb Abdulwahab Al-Hibari	
Investigating the Role of Accounting Information in Investment Decisions and Supply Chain Management	PDF 784 - 788
Ali Bayan Talib, Oday Takleef Lafta	
Effects of Supply Chain Management on Tourism Development by using Smart Security Methods: A Case Study of Shanghai	PDF 789 - 810
Maryam Abili, Yan Zhao	
Identifying of Entrepreneurship Behaviors: Case of Country in Transition Economy	PDF 811 - 824
Alireza Khorakian, Mahmood Monfared, Ali Shirazi, Yaghub Maharati	
Relationship between the Competitive Strategies and Supply Chain Management of Financial Companies for Securities	PDF 825 - 835
Raheem Abed Mohammad, Baqer Ali Balchat, Rifaatibrahimkhudhair Shujairi	
The Role of KM Tactical Factors in Supply Chain Management for Gaining Competitive Advantage	PDF 836 - 851
Sara Behzadi, Rooghayeh Sadat Koochakzadeh	
The Impact of the Supply Chain Strategy on Accounting Social Responsibility to Assess Financial Performance in Iraq	PDF 862 - 867
Abid Kalaf Abid Aljanabi, Muqdad Ahmed Nouri	

Organizational-Economic Directions of the Effective Use of Supply Chain Strategy in Rural Territories of Kazakhstan	PDF 868 - 873
Gani A. Kaliyev, Alla I. Sabirova, Galiya U. Akimbekova, Lyudmila A. Glushan, Aizhan N. Zhildikbaeva	
Key Components of Sustainable Supply Chain Development of the Agricultural Sector of Ukraine	PDF 874 - 884
O. Varchenko, D. Utechenko, L. Khakhula, O. Slobodeniuk, V. Byba, M. Portyan, T. Shepel	
Using Supply Chain Management Strategy for Regional Economic Clusterization in Kazakhstan's Chemical Industry	PDF 885 - 895
S. A. Issakova, L. A. Kudabayeva, A. Ye. Naurzybekova, G. K. Mussaeva, G. T. Tuleyeva, A. M. Zhantayeva, I. K. Suleimenova	
Labor Migration of The Population and Evaluation of Supply Chain on the Labor Market	PDF 896 - 907
Kalandar Khodzhaevich Abdurakhmanov, Erkin Madorbekovich Mukhitdinov, Viktor Ivanovich Grishin, Gulnora Kalandarovna Abdurakhmanova, Gaybullo Faizullaevich Kuchkarov	
Supply Chain Strategy of Charge for Technological Connection to Electricity Networks in Electric Industry	PDF 908 - 915
Valentin Ya. Afanassyev, Natalia G. Lyubimova, Vladimir F. Ukolov, Alina S. Flaksman	
A Hybrid Multi-Filter Wrapper Feature Selection Method for Software Defect Predictors	PDF 916 - 922
Abdullateef Oluwagbemiga Balogun, Basri Shuib, Said Jadid Abdulkadir, Ahmad Sobri Hashim	
Application and Implementation of E-Procurement Technologies in Malaysian Manufacturing Firm	PDF 923 - 929
Shiau Wei Chan, Suman Tiwari Suresh Tiwari, M.F. Ahmad, Izzuddin Zaman	
The Relationship between Technological Capability and Manufacturing Performance	PDF 930 - 938
Nurazwa Ahmad, Halim Mad Lazim, Alina Shamsuddin, Eta Wahab, Noor Aslinda Abu Seman	
Factors and Barriers Influencing Lean Production System Adoption in Manufacturing Industries	PDF 939 - 946
Shiau Wei Chan, Fadillah Ismail, M.F. Ahmad, Izzuddin Zaman, Hui Qing Lim	
A Case Study to Explore IoT Readiness in Outbound Logistics	PDF 947 - 953
Mohd Hilmi Hasan, Aimi Amirah Khairuddin, Emelia Akashah Patah Akhir	
The Key Factors of Evaluating Agile Approaches: A Systematic Literature Review	PDF 954 - 964
Hamzah Alaidaros, Mazni Omar, Rohaida Romli	
Data Governance Practice for Outbound Supply Chain Management (SCM): A Case Study of Malaysian Textile Industry	PDF 965 - 970
Fizreen Farra Mukhrizal, Noshakirah AB Aziz, Emelia Akashah Patah Akhir	
The Influence of Transformational Leadership on Organization Innovation in Malaysian Manufacturing Industry	PDF 971 - 976
Shiau Wei Chan, Sye Fang Ang, Naima Andleeb, M.F. Ahmad, Izzuddin Zaman	
Lean Production Determinant Factors in Malaysia Paper Manufacturer Industry	PDF 977 - 982
Irwan Ibrahim, Zaimy Johanna Johan, Norina Ahmad Jamil, Siti Masithah Mohd Tarli, Afizan Amer	
Brand Love Co-Creation in a Digitalized Supply Chain Management: A Study on Framework Development and Research Implications	PDF 983 - 992
Irwan Ibrahim, Afizan Amer, Mustafa Kamal Mat, Mohd Azlan Abdul Majid, Siti Hajar Md. Jani	
Sustainability Performance Approach in Malaysia's SMEs for Improving Green Supply Chain Management (GSCM); An Application of Quality Function Deployment (QFD)	PDF 993 - 998
Norlinda Mohd Rozar, Muhammad Ashlyzan Razik, Mohd Nazri Zakaria	
Performance of Fresh Water Fish Contract Farming in Malaysia: Innovative Supply Chain Integration Outlook	PDF 999 - 1003
Mohd Azwan Zainol, Zakaria Abas, Ahmad Shabudin Ariffin	

Achieving Logistics Performance in Military Environmental Dynamism: The Role of Organizational Capabilities	PDF
Abdul Rahim Abdul Rahman, Noor Raihan Ab. Hamid	1004 - 1017
A Literature Review of Innovation Capabilities and Business Performance of Third-Party Logistics (3PL) Service Providers in Malaysia	PDF
Siti Nur Atikah Zulkiffli, Maisarah Sebadak, Siti Falindah Padlee, Juhaizi Mohd Yusoff	1018 - 1023
Development of Disruptive Factors for Livestock Supply Chain	PDF
Nur Amlia Abd Majid, Noraidah Sahari@Ashaari, Nur Fazidah Elias, Hazura Mohamed	1024 - 1027
The Role of Firm Size and Customer Orientation on Halal Transportation Adoption	PDF
Yusrizal Sufardi Mohd Yunan, Mohd Helmi Ali, Syed Shah Alam	1028 - 1034
Safety Indicator for Taxi Users In Urban Area	PDF
Rohana Sham, Siti Norida Wahab, Marhani Mohamed Anuar, Tong Wei Hong, Yap Jor Tan	1035 - 1041
Digitalization and Leap Frogging Strategy Among the Supply Chain Member: Facing GIG Economy and Why Should Logistics Players Care?	PDF
Nor Aida Abdul Rahman, Jailani Muda, Mohammad Fakhruhnizam Mohammad, Md Fauzi Ahmad, Suzari Abdul Rahim, Fernando Mayor-Vitoria	1042 - 1048
Meritorious Abilities of Supply Chain Management in Production Environment	PDF
Valliappan Raju, Siew Poh Phung, Norhaniza Abdul Latiff	1049 - 1054
Logistics in Yemen: Identifying Demerits on Lack of Railways in Yemen	PDF
Hisham Najeed, Valliappan Raju, Shafiqur Rahman	1055 - 1061
Factors Determining Managerial Role in Supply Chain Management: Study on Administrative Traits' effects on Production	PDF
Siew Phung Poh, Valliappan Raju, Sara Ravan Ramzani	1062 - 1070
Fundamentals of Green Supply Chain Management: Organizational Measures on Implementation	PDF
Valliappan Raju, Siew Phung Poh, Ramanathan Kalimuthu	1071 - 1078
Strategies to Enhance Supply Chain Management Practices: Identifying the Performance Orientation	PDF
Valliappan Raju, Siew Phung Poh	1079 - 1084
Sustainability in Performance Management through Supply Chain Management	PDF
Valliappan Raju, Siew Phung Poh	1085 - 1089
Framework Assimilation in Supply Chain Management: Exploratory Study based on Investigation	PDF
Siew Phung Poh, Valliappan Raju	1090 - 1094
Role of Decision Making in Supply Chain Management in Accordance with Information and Communication Technologies	PDF
Siew Phung Poh, Valliappan Raju	1095 - 1099
Determinants of Environmental Factors on Green Supply Chain Management (GSCM)	PDF
Siew Phung Poh, Valliappan Raju	1100 - 1108
Adaptation of the Enterprises of the Real Economy Sector to Supply Chain Management and Digitalization in the Conditions of the Development of Virtual Relations	PDF
Vladimir F. Ukolov, Vitaly V. Cherkasov, Anna A. Ostrovskaya	1109 - 1116
The Time Change of the Consumer Price Index Response to the Supply Chain Management in the Supply of Money in the Iraqi Economy	PDF
Burhan Othman hussein	1117 - 1122
Risk Mitigation Techniques in Agile Development Processes	PDF
Muhammad Akil Rafeek, Adila Firdaus Arbain, Endah Sudarmila	1123 - 1129
The Relationship of Transformational Leadership Towards Employees' Innovation with Mediating Effect of Employees' Empowerment in UAE Manufacturing Companies	PDF
Md Fauzi Ahmad, Jumaa Mohammed Jumaa Alhosani, Mohd Nasrun Mohd Nawi	1130 - 1141

The Relationship of Leadership Styles Towards Employees' Creativity: Mediating Effect of Employees' Empowerment in UAE Manufacturing Companies	PDF
Md Fauzi Ahmad, Jumaa Mohammed Jumaa Alhosani, Mohd Nasrun Mohd Nawi	1142 - 1156
Palm Oil Land Litigations in Indonesia: Cases Involving Malaysian MNE Sime Darby Plantation Berhad	PDF
Nuarrual Hilal Md Dahlan, Yusramizza Md Isa Yusuff, Al-Hanisham Mohd Khalid	1157 - 1169
Monitoring Variability in Complex Manufacturing Process: Data Analysis Viewpoint with Application	PDF
Maman Abdurachman Djauhari, Norhaidah Mohd Asrah, Irianto Irianto, Noor Akma Ibrahim	1170 - 1177
An Explorative Study on Educational Knowledge Management in Supply and Chain	PDF
Mohd Faiz Mohd Yaakob, Mat Rahimi Yusof, Akhmad Habibi, Amirul Mukminin, Mohd Afifi Baharuddin Setambah	1178 - 1185
Developing the Dynamic of Job Creation Augmented Model for Malaysian Manufacturing Sectors	PDF
Selamah Binti Maamor, Aznita Samsi, Siti Nur Fatimah Samsuddin, Norehan Abdullah, Hussin Abdullah, Sabri Nayan	1186 - 1190
Halal Supply Chain: Assessing the Islamic Values of the Poultry Industry	PDF
Emi Normalina Omar, Harlina Suzana Jaafar, Muhamad Rahimi Osman	1191 - 1199
Logistics in Yemen: Addressing the Weakness of Purchasing Power to Satisfy Needs: In Context of Supply Chain Design Optimization (Case of Yemen)	PDF
Hisham Najeeb, Valliappan Raju, Shafiqur Rahman	1200 - 1204

SAP ERP Analysis as the Key of the Company's Procurement Process in the Use of Social Media

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Abstract— Information technology plays a role in developing a modern business strategy in a fishing company in Maluku (Indonesia). Understanding the product life cycle must be improved even though they understand the supply chain strategy, with the fact that in the past few years the amount and value of production are not always stable. The results of this approach provide almost 90% of the information data needed by utilizing Social media as a key alternative in the procurement of raw materials that support SAP ERP Enterprise Core as a key system in developing the company's business. ERP implementation and solution package integrated with SAP Business Suite includes SAP CRM (Customer Relationship Management), SAP SCM (Supply Chain Management), SAP SRM (Supplier Relationship Management) and SAP PLM (Product Life Cycle Management). SCM, PLM in their supply chain strategy and CRM, SRM as an integrated information system network technique through the rapid development of social media. The impact is not only for the company, but it also has a big influence on the welfare of the local communities (fishermen) in producing qualified raw materials.

Keywords: *Decision Making Analysis, SAP ERP, Social media, Procurement Process.*

1. Introduction.

At least 26 fish companies are registered to operate in the water areas of AMBON (capital city of Maluku Province) east of Indonesia, with marine and fishery resources with marine and fishery

Resources that are very diverse and may never be finished. Technology information in the world has become one of the important roles in human life, with various developments and innovations in the company that most can full fill every desire, which is expected, but on the other hand, the impact off loss can also occur. References [1] the digital world is analyzed through numbers that indicate Social media tools play a Very important role for a company and their

customers. Economic strength is reflected in the amount of researches that are published in marketing journals [2]. Assessing how traditional media communications affect satisfaction in a business relationship [3], [4] Explains how Key Performance Indicators are used to monitor and manage social digital technology applications, how companies effectively utilize social media as a marketing channel [5]. References [6] the key to a successful Communication strategy is to match target customers and reach engagement with them. system implementation, transition to CRM usage for SCRM [7]. Application of SCRM system using social media platform that control public opinion will measure the efficiency of activities and help companies to identify, which social media solutions benefit from supporting their business [8]. Companies need a multidisciplinary, coordinated, and knowledgeable expertise category to apply Enterprise Planning (S-ERP) systems [9]. Enterprise resource planning systems (ERP) are increasingly regarded as a technical platform for many business process changes and future improvement projects [10]. References [11] Post-implementation changes tend to degrade the quality of ERP systems and data that they use, and have a negative impact on company performance. Utilizing the capabilities of a hybrid ERP system, it combines the functionality of a traditional (formal) ERP installation with Enterprise Social Software (ESS) capabilities [12]. ERP becomes one of the most important enterprise applications and enables standard business processes with integrated databases and change management considered one of the most important factors for successful ERP implementation [13]. The fact that most of today's ERP systems include CRM modules and applications [14]. ERP the supply chain has become a fundamental strategy for companies that aim to protect their competitive advantage. References Defining how to integrate corporate strategy throughout the supply chain, coordinating material, information and financial flows to full fill end-customer demand [15], [16]. Require companies

to focus on improving efficiency in their way of matching supply and demand [17]. The challenge for companies is to identify and exploit opportunities through factors in it, including familiarity, behavioral care, information sharing and trust, all affecting the company's cognitive outlook regarding SCRM technology implementation [18]. Corporate strategy must respond promptly to every business opportunity, Decision-making to determine the quality of raw materials and reliable workforce requires a systematic performance appraisal [19]. In this case, efficient and effective decision-making is to select suppliers [20]. Experienced companies believe that choosing suppliers is counted as the most important activity of an organization. ERP for the process of supplier company segmentation. References so that the process of supplier selection by the company can be done effectively and efficiently resulting in an objective decision [21].

2. Methodology.

Companies should be aware of the needs of business processes with partners, Creating business competition had shifted from a traditional enterprise basis to a modern basis [22]. Supply chain strategy was one part of the overall business strategy that was designed based on hierarchical structure calculations with well-defined companies (innovation, low cost, service, quality) [23]. ERP had the ability to facilitate the achievement of corporate goals. It would focus on revenue growth, reducing operating costs, working capital and capital efficiency while maximizing corporate value in understanding indicator factors through social media. This research consisted of the following steps. First, the theoretical basis of applying the system was reviewed of the form a research framework. Second, this study proposed a conceptual model. Third, the research data set was built by collecting manuscripts and searching journals with electronic databases.

2.1. SAP ERP System.

Theoretical research of this study was the first step that was focused on the process of selection of ERP solutions, which were really in need of the company. The reason was because the researchers believed that to obtain maximum results was the right strategy composition of the target in determining the integrated strategy for them. The complete solution in the SAP ERP strategy was SCM in this case the management of current resource between the origin and destination. References [15, 16, 17] Developing companies must have the ability to build supply, distribution and

alliance networks to create supply chains. Because supply chain management was defined as managing process and control. Common thread between actions were taken to achieve the goals, it created in streamlining the integration of suppliers, manufacturers, storage. Product Life Cycle Management (PLM) could support the whole process of raw material product development. References [33, 34] Developing a corporate conceptual model was to mitigate and route PLM systems in every process of strategy with the process of management, coordination, or to gain complete business risk control. They involved full transparency and thoroughness in the quality management process and impeccable product monitoring [24].

2.2. Social Media (S-CRM) and knowledge management

CRM was the design of an organizational structure for two-sided relations with the customer. An important aspect of the company's operations was to acquire and maintain supplier in a more modern way [25]. References [26] over the past 20 years, CRM had continued to grow until now as Social SCRM. The emergence of social media now forced companies to rethink their business strategy [27]. This would make cooperation with customers in a comprehensive increasingly manner, References [28], [29], [30] SRM was a partial intervention variable between supplier and firm performance. References [31] Product life cycle management suggested an overall approach to the integration of business knowledge and techniques throughout the entire product life cycle. The proposed life cycle approach analyzed the multi-criteria decisions that were developed to characterize and identify environmental profiles and supplier points for five different raw material products [32].

3. Research Model.

Companies generally have the same goal that is the profit in business, to get maximum results. This company must be supported with qualified raw materials and a reliable workforce. The researcher analyses the most prominent constraints of corporate strategy to overcome the limitations of their supply of raw materials with suppliers or communities (fishermen). Based on researchers' analysis, 30% of the 90% of businesses that occur between the companies with suppliers or the communities (fishermen) have a very significant effect for them, then the researchers think that this can be minimized

by the implementation of SAP ERP enterprise core model, because this strategy can be divided into two parts: SCM and PLM, which are aimed to supply chain process and SCM and SRM are modeled for strategy of applying relation between them. By the growing alternative social media development in the modern business market, these results can be used to enhance the value of the company, in their gradual decision-making.

3.1. Research Data Models

The ERP system handles the corporate functions of their basic business, such as financial, human resources, material management, sales and distribution. The most popular application support in nowadays business market is SAP. With ERP as the solution package supporting supply chain in SCM strategy with PLM, they have criteria as in the following table.

3.2. ERP system and SCM performance

When organizations are facing increasing global competition, organizations have no choice apart to become more effective. Enterprise Resource Planning (ERP) system provides a single solution to provide a better understanding of the management and transparency of their business operations become a mainstay of virtually every organization. Therefore, it is important for IS programs to consider ERP in their offering. Many companies have integration issues and require absolute software solutions that can integrate various functional areas, and at the same time on functional areas to share a single and central database without any data. Analyze the multi-criteria decision was developed to characterize and identify environmental profile and suppliers' point to five different products Raw materials.

Davenport and Brooks (2004) recorded an impact ERP systems to SCM help the companies to share information with other partners. After receiving orders from their customers, their suppliers will soon replenish raw materials based on the information they receive. To monitor and gather information in the supply chain, ERP system is required with addition external functions and SCM tools and manufacturing execution systems. The main philosophy of SCM is to have the right product in the right place, at the right price, at the right time and in the right conditions. Therefore, companies not only need to circulate information within the company but also they need to share the right information with the right supply chain partners at the right time. To achieve this goal, organizations need information systems, such as ERP

systems, to facilitate synchronization of the entire supply chain and to give information to all supply chain partners to aid their decision-making and ultimately achieve customer satisfaction. ERP systems are generally understood as an important precursor to the performance of SCM and a very useful tool to improve.

Table 1: Criteria Company

No	3 Corporate identification structures		
	Continue	Quality.	Cost.
1.	Financial status	Pattern recognition raw materials	Prices of products or raw materials
2.	Reports	Reliability	Fee (money Pocket)
3.	Experiences	Timely delivery of	The cost of shipping and distribution
4.	Relationship or proximity	Capacity supply	Fees Qualities
5.	Complaints Supplier	Personality Innovative	Rates and customs
6.	Structure Geographic	Qualities spot Transportation	Late fee
7.		Ease of communication	
8.		Climatic conditions	

Source: data Pt. Perikanan Nusantara Ambon. 2017.

3.3. Social media

Customer Relationship Management (CRM) is an important concept in modern marketing, it has a very large number of suppliers, but it is so hard to keep it for long period. The researchers first analyze their strategy and then expand to a higher level with the benefits of social media, first presenting sectors that are related to standard CRM. Meanwhile, in the second point the researchers observe SCRM potential services that can be used to improve each sector of CRM before. For example, the sales sector within a company can be upgraded by the recommendation products for its customers, which can increase purchases and revenues. In addition, buying predictions can help companies to avoid products lost by communities in certain seasons. The deployment of the company's deal can help the sale, which can easily happen to send the right information through mutual identification. Similarly, other SCRM services can help CRM in different ways.

Employee involvement, lack of management chairman support, cultural incompatibility issues, and ineffective use of ERP systems will lead to failure of the ERP system, then cause the entire company to go bankrupt. This result will prevent the company's manufacturing to implement the ERP system. The ERP system has become a prerequisite in the business market and the backbone for e-business.

Research questions.

1. Relationship between integration and performance of SCM.
2. The relationship between logistics management and SCM performance.
3. Relationship between production planning and SCM performance.
4. Relationship between controlling and SCM performance.
5. Relationship between workflow management and SCM performance.

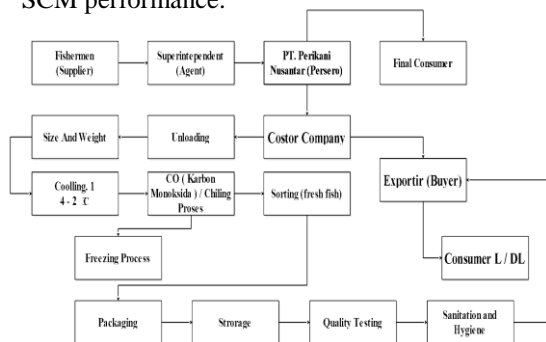


Figure. 1. Concepts of Company SCM Structure

3.4. ERP Logistics

Each supplier has an obligation to ensure the quality of raw materials for the company, sometimes due to lack of supply chain management, basically the quality will disrupt any business profits. So the researchers analyse and compare their performance with the assessment criteria in the following table.

References [33] Developed the conceptual model that develops the company's ability to mitigate and routing the PLM system in every process of the strategy (called "the system's ability PLM") with process management, coordination, and the ability of absorption. To get the business risk control and a perfect performance they involve full transparency and rigor in the process of quality management and monitoring products impeccably [34]. Impact of supplier-customer relationship to innovation companies include transaction cost economics, resource dependency theory, and the theory of incomplete contracts SCRM a client placement strategies as the main process in each company actuaries [35]. Social customer as soon as possible to learn about the company. However, social media ahead of activities that produce competitive advantage for these companies if implemented socially [36].

Therefore, software vendors built ERP systems in the mid-1990s to solve integrated problems, created effective business solutions, and provided the company with all IT requirements under one software system [37].

The relationship between structural, cognitive, and relational dimensions in social capital.

1. A higher level of structural capital of an organization is associated with higher levels of organizational cognitive capital.
2. A higher level of structural capital of an organization is associated with higher levels of relational capital of the organization.
3. The higher level of cognitive capital of an organization is associated with higher levels of relational capital of the organization.

Social capital and knowledge management.

Establish a communication channel in promoting the exchange, creation, and combination of knowledge among individuals, business groups, and business partners.

1. The higher level of structural capital of an organization is associated with a higher level of organizational emphasis on knowledge management.
2. The higher level of cognitive capital of an organization is associated with higher levels of organizational emphasis on knowledge management.
3. The higher level of relational capital of an organization is associated with higher levels of organizational emphasis on knowledge management.

Table 2: Comparison of Company supplier performance assessment Criteria.

no	Location supplier	Performance management supplier	Frequency evaluation
1	TLH	Excellent 70%	from March to July 2017
2	HTM	Enough 60%	February 2017
3	LTH	Excellent 80%	May - August 2017
4	HT	Fair 50%	May 2017
5	P.JAYA	Very satisfied 90%	from January to August 2017
6	THR	Very satisfied 80%	from March to August 2017

Source: data Pt. Perikanan Nusantara Ambon, 2017

Table 3: Supply Chain Challenge

Challenges and Weaknesses	Description of supply chain challenges and weaknesses
External	Increased fuel costs, Addressing oil price volatility, Supplying chain risk, Operating structure as a result of global recession.
Competition	Balancing in serving customers who deal with suppliers, Effecting globalization on supply chains, Increasing volume of globalization and market convergence, Individualization, Acceleration of modification and diversification of product quality, Pressuring innovation enhances intense competition between producers who generate more mergers or acquisitions.
Customer	Cost reduction and service improvement, Economic weakness rate, Creating lean supply chain, efficient planning, competitive production cost and pressuring on OEM to reduce cost
Industry	Inadequate infrastructure, operating with low levels of collaboration and not responding to market changes

Source: data Pt. Perikanan Nusantara Ambon. 2017

4. Results and Analysis.

Supply Chain Management is one of the company's greatest assets. However, it can also be the biggest burden for companies. The researchers analyse and apply ERP with SAP application with an integrated solution package for supply chain strategy from supplier to company with the concept of approach that gives good relation with communities (fishermen) concept, which will be applied in the following figure.

Table 5. Comparison of Supplier Company

Continue	Tlh	Ht m	Lt h	Ht	Jp	Thr	C
Financial	yes	yes	yes	yes	yes	yes	6
Reputation			yes		yes	yes	3
experience	yes		yes	yes	yes	yes	5
Relationsp			yes		yes	yes	3
Complaints					yes	yes	2
Geographic	yes	yes	yes	yes	yes	yes	6
Quality	TLH	HTM	LTH	HITU	J.P	THR	C
Raw	yes	yes	yes	yes	yes	yes	5
Reliability			yes		yes	yes	3
Time	yes	yes	yes	yes	yes	yes	6
Capacity	yes	yes	yes		yes	yes	5
Innovation	yes	yes	yes		yes	yes	5
Transportation	yes	yes	yes	yes	yes	yes	6
Communications			yes		yes	yes	3
Climate Condition							0

Cost	TL H	HT M	LT H	HT	JP	THR	C
Price BB	yes	yes	yes	yes	yes	yes	6
Cost (pocket)					yes	yes	2
Distribution costs					yes	yes	2
Cost quality	yes	yes	yes	yes	yes	yes	6
Customs					yes	yes	2
Cost of delay							0

Source: data Pt. Perikanan Nusantara Ambon. 2017

Table 4: Result of analysis for ERP

Item Statistics			
	Mean	Std. Deviation	N
THL	1.5000	.51299	20
HTL	1.5500	.51042	20
LTH	1.3500	.48936	20
HITU	1.4000	.50262	20
P.JAYA	1.1000	.30779	20
THR	1.1000	.30779	20
Financial	3.8000	2.04167	20
Reputation	3.8000	2.04167	20
experience	4.0000	2.05196	20
Relationship	4.0000	2.05196	20
Complaints	3.8000	2.04167	20
Str. Geographic	3.9000	2.04939	20

Source: data. Perikanan Nusantara Ambon. 2017

Item-Total Statistics				
	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
HTL	29.8000	9.537	.100	-1.907 ^a
HTM	29.7500	9.461	.126	-1.931 ^a
LTH	29.9500	10.366	-.155	-1.669 ^a
HITU	29.9000	8.832	.345	-2.148 ^a
J PELITA	30.2000	9.642	.198	-1.893 ^a
THR	30.2000	9.642	.198	-1.893 ^a
Financial	27.5000	18.474	-.714	-.220 ^a
Reputation	27.5000	6.789	-.079	-2.491 ^a
experience	27.3000	10.221	-.329	-1.281 ^a
Relationship	27.3000	16.432	-.633	-.381 ^a
Complaints	27.5000	7.947	-.174	-1.968 ^a
Geographic	27.4000	10.147	-.324	-1.299 ^a

Source: data Pt. Perikanan Nusantara Ambon. 2017

Scale Statistics

Mean	Variance	Std. Deviation	N of Items
31.3000	10.116	3.18053	12

Table 6. Result of analysis for ERP

Item Statistics			
	Mean	Std. Deviation	N
THL	1.5000	.51299	20
HTL	1.5500	.51042	20
LTH	1.3500	.48936	20
HITU	1.4000	.50262	20
P.JAYA	1.1000	.30779	20
THR	1.1000	.30779	20
Financial	3.8000	2.04167	20
Reputation	3.8000	2.04167	20
experience	4.0000	2.05196	20
Relationship	4.0000	2.05196	20
Complaints	3.8000	2.04167	20
Str. Geographic	3.9000	2.04939	20

Source: data. Perikanan Nusantara Ambon. 2017

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Source: data Pt. Perikanan Nusantara Ambon. 2017

Scale Statistics

Mean	Variance	Std. Deviation	N of Items
31.3000	10.116	3.18053	12

Perspective of Media Social

These findings prove that the customer basis is concentrated by reflecting strong supplier-customer relations and high switching costs, motivating suppliers to invest more in R & D and becoming more innovative [35]. However, the evidence also shows that a strong customer bargaining power creates problems and forces suppliers to invest less in innovation.

The results are above average for social media implementation techniques, media as a source of sophisticated indicators that control the situation and affect the business partnership on corporate innovation.

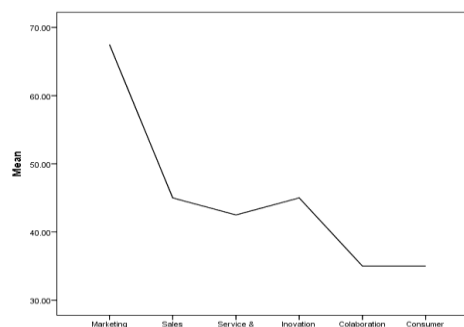


Figure. 2. CRM to S-CRM Company reports

Marketing					
		Freq.	%	Valid %	Cum %
Valid	30.00	1	25.0	25.0	25.0
	70.00	1	25.0	25.0	50.0
	80.00	1	25.0	25.0	75.0
	90.00	1	25.0	25.0	100.0
	Total	4	100.0	100.0	
Sales					
		Frequency	Percent	Valid %	Cum %
Valid	.00	1	25.0	25.0	25.0
	50.00	1	25.0	25.0	50.0
	60.00	1	25.0	25.0	75.0
	70.00	1	25.0	25.0	100.0
	Total	4	100.0	100.0	
Innovation					
		Frequency	Percent	Valid %	Cum %
Valid	.00	1	25.0	25.0	25.0
	50.00	2	50.0	50.0	75.0
	80.00	1	25.0	25.0	100.0
	Total	4	100.0	100.0	

Service & Support					
		Frequency	Percent	Valid %	Cum%
Valid	10.00	2	50.0	50.0	50.0
	70.00	1	25.0	25.0	75.0
	80.00	1	25.0	25.0	100.0
	Total	4	100.0	100.0	
Collaboration					
		Frequency	Percent	Valid %	Cum %
Valid	.00	2	50.0	50.0	50.0
	70.00	2	50.0	50.0	100.0
	Total	4	100.0	100.0	
Consumer					
		Frequency	Percent	Valid %	Cum%
Valid	.00	2	50.0	50.0	50.0
	50.00	1	25.0	25.0	75.0
	90.00	1	25.0	25.0	100.0
	Total	4	100.0	100.0	

The CRM system plays an important role in supporting this view by integrating data between the sales and marketing teams and providing appropriate reporting capabilities. CRM systems are typically regarded as Enterprise Systems (ES) types, with many CRM solutions that build themselves in the marketplace, such as Sales-force, Sugar CRM, Hub-spot and other providers [14]. The CRM market reaches 26.2 Billion USD by 2015, and Sales-force is the current market leader and holds a 19.7% market share.

5. Conclusion

In this study, we developed a theoretical framework to investigate the effects of risk management on the performance of the company's supply chain that has developed into e-Supply Chain with a corporate information system strategy that had considerations in the company's decision making in order to compete in the business market, We took this step because we saw that HR was unable to be aligned with natural resources so that many of these companies did not find opportunities to compete with others. The tangible results were that the three combinations of Risk Management strategy, e-SCM and company information flow were able to minimize the company's business failures and show that this strategy of almost 80% had a positive impact, because the results in 2017 found a significant increase in their companies, ranging from the information system by HRD to the implementation of the supply chain strategy for each of their suppliers.

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