

management of innovation

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Submission date: 17-Jul-2020 11:38PM (UTC+0700)

Submission ID: 1358678302

File name: 2014-11-13_Sept-Mgnt_of_Inovation-Supply_Chain-TRIPLE_HELIX.pdf (1.84M)

Word count: 4762

Character count: 28102

TRIPLE HELIX ASSOCIATION

TOMSK STATE UNIVERSITY
OF CONTROL SYSTEMS AND RADIOELECTRONICS

NATIONAL RESEARCH TOMSK STATE UNIVERSITY

ASSOCIATION OF ENTREPRENEURIAL UNIVERSITIES

RUSSIAN VENTURE FOUNDATION

TRIPLE HELIX XII
INTERNATIONAL CONFERENCE

**«THE TRIPLE HELIX
AND INNOVATION-BASED
ECONOMIC GROWTH:
NEW FRONTIERS
AND SOLUTIONS»**

TOMSK, RUSSIA


SEPTEMBER 11-13
2014

PROCEEDINGS




TRIPLE
HELIX
INTERNATIONAL
CONFERENCE XII

TOMSK
PUBLISHING OFFICE OF TOMSK STATE UNIVERSITY OF CONTROL SYSTEMS
AND RADIOELECTRONICS

 Triple Helix Association
Tomsk State University of Control Systems and Radioelectronics
National Research Tomsk State University
Association of Entrepreneurial Universities
Russian Venture Foundation

Triple Helix XII
International Conference
«The Triple Helix and Innovation-Based
Economic Growth: New Frontiers and
Solutions»

Tomsk, Russia, September 11-13, 2014
Proceedings

 Tomsk
Publishing Office of Tomsk State University of Control Systems
and Radioelectronics
2014

Universal Decimal Classification 005.591.6:330.35

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Typesetting: Camera-ready by author.

ISBN 978-5-86889-684-2

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Henry Etzkowitz

President of the Triple Helix Association

- The future is everyone's to share. No single country or region holds the monopoly over innovation. Breakthrough innovations develop in many countries around the world, enhanced by interaction among government, industry and universities.

Today the university is the key factor giving momentum to development. A place with a great number of highly educated people is where the double helices of University-Industry and Government-University meet and create the Triple Helix of innovation-driven entrepreneurship.

For over 20 years the Triple Helix Association has been focusing the efforts of the academic community on study of the interaction between research institutions, industrial enterprises and government agencies. If built wisely, the resulting synergy drives technological innovation and economic growth of the region.

The main goal of the Triple Helix Association is to promote scientific knowledge and practical achievements associated with all aspects of interaction among academia, business and government to advance research, innovation and competitiveness.

The events organized and managed by the Triple Helix Association include scientific conferences, symposia, networking events for academic and research institutions and other participants in the Triple Helix process. Our goals are: to promote the Triple Helix model through publications, academic journals and mutually beneficial projects; support application of academic models in practice, foster international academic mobility and training of students, researchers and experts.

Before Tomsk, Amsterdam, New York, Rio de Janeiro, Copenhagen/Lund, Turin, Singapore, Glasgow, Madrid, Stanford, Bandung and London hosted the International Conference of the Triple Helix Association. I am happy to see Russia joining this global innovation club. I believe that the Triple Helix model will be key to recovering from the crisis, ensuring sustainable innovation-driven development. Home to several major Russian universities, Tomsk is the perfect place for universities developing their entrepreneurial profile, for new high-tech companies and for modern government to thrive.



Alexander Uvarov

Chairman of the Russian Chapter of the Triple Helix Association, Ambassador of the Association to Russia, Vice Rector of TUSUR University

– In 2014 Russia will for the first time host the International Triple Helix Conference. The conference is a unique venue where international policy makers, researchers and experts can discuss the future of the innovations sector in the post-crisis world.

Among the topics to be discussed are the new role of entrepreneurial universities in enabling sustainable economic growth, the behavior of business which is the fastest player to react to economic uncertainty, and the best practices of cooperation between government, universities and industry in formation of the innovation sector of economy.

TUSUR University joined the Triple Helix Association in 2010 when it presented the Russian edition of Henry Etzkowitz's book "The Triple Helix: University-Industry-Government Innovation in Action" in Moscow and Tomsk. In 2010 TUSUR University acted as a co-organizer of the Triple Helix Conference in Stanford.

TUSUR University is one of the leading and most dynamic engineering universities in Russia. We are working towards developing as an entrepreneurial university with training of new-generation of innovation-minded professionals and expert entrepreneurs as its main priority. We lay emphasis on focusing our research on addressing the future needs of the economy and society.

TUSUR University brings the ideas of the Triple Helix into practice through our Education, Research and Innovation Network of enterprises founded by our alumni, through the IT and Electronics Cluster of Tomsk Region created together with the regional government, through project-based learning in the heart of our academic process. We hope that our experience will become a valuable contribution to the research process of the Triple Helix model. We also expect our development as an entrepreneurial university to benefit from this unique global networking opportunity.

Bringing together over 300 researchers and experts from 50 countries every year, the conference will drive us forward in our main endeavor – transition to innovation-driven economy.



Eduard Galazhinsky

Rector of National Research Tomsk State University

Founded in 1878, Tomsk State University is what helped Tomsk transform from a small merchant town into a major center of education, science and culture for the vast territory of the Northern Eurasia. Becoming home to the first university in Siberia has changed the profile of the whole region, created the unique environment, stimulating and favorable to scientific thinking. That is why today Tomsk is known around the globe not for its exhaustible gas and oil resources, but for its human resources which are potentially limitless.

Tomsk State University has always been among the best universities of this country, and in 2013 it was included in the state-funded Global Competitiveness of Leading Russian Universities Program. Our goal is to transform the classical university where the academic process has always been based on results of fundamental and applied research, into a modern, world-class research university. It is impossible to create an efficient university management system, to bring in talented students and faculty, concentrate resources unless in some aspects we develop as an entrepreneurial university as described by the Triple Helix concept.

Russia devotes significant financial resources to support of innovation-driven entrepreneurship: creates new business incubators, encourages entrepreneurial associations, commits to the cluster approach. Our goal is to make these investments as efficient as possible – and it would be extremely difficult to achieve without proper methodology, without systematic work, without cooperation among those who develop innovations and those who bring them into practice.

Our cooperation in the Triple Helix Association offers us an excellent opportunity to join the global effort to develop the methods and models which will become the foundation for universities of the future. This work will help create a training system for the innovation sector of the economy where apart from professional knowledge, graduates will have all the knowledge and skills necessary for entrepreneurship – the ability to take risks and act in situations of uncertainty, commitment and responsibility to themselves and their companies. The more there are people like that, the higher is the standard and quality of living in our society.

Establishment of Tomsk State University 136 years ago was what drove transformation of this region from a trade hub into a center of culture, science and education. Today Tomsk Region has impressive experience in interaction among government, universities and business.

Today our research and technology drive the emergence of new production methods and bring the region to the forefront of high-tech entrepreneurship. The conference of the Triple Helix Association in Tomsk is an important element of this process.

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**MANAGEMENT OF INNOVATION FOR REGIONAL ECONOMIC DEVELOPMENT: LESSON
LEARNED OF SUPPLY CHAIN MANAGEMENT STRATEGY FOR ENHANCING CORRIDOR
ECONOMY IN EASTERN INDONESIA**

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Key words: *corridor, innovation, interaction, regional, supply-chain*

One form of innovation regional economic development is supply chain management (SCM) strategy in a region. The effectiveness implementation of this strategy link with interaction actors (academic, industry, and government), link to formulate communicative space, and determine for the level of attainment of regional economic growth. This article explains the strengthening of role of eastern part of the territory of Indonesia as a region producing seaweed products, while strengthening its position in the value chain from upstream to downstream industries. Industry cluster approach related to global market becomes an important and key indicator to economic growth in the region, particularly the economic corridors in eastern Indonesia. This article based on part of the action research that explains importance of the role of interaction in development of economic corridors area, that be designated on supply chain of raw material and value chain of seaweed industry in Eastern Indonesia.

New Economic Corridor Papua – Maluku, as eastern of Indonesia potential to thrive in value chain of manufacturing-based economy. One of main economic activities in Papua – Maluku Economic Corridor is seaweed, an industry that accounts for significant economies of both gross domestic product and labor supply. Therefore, two aspects of supply chain performance must be achieved, namely the market needs and the efficiency of logistics. Logistics activities that are part of the supply chain to attention of the international trade. The competitive price of seaweed products can not be separated from the logistics costs incurred and impact on competitiveness. The low competitiveness of products one of which is due to high logistics costs. In addition to cost of logistics, emerging issues related to logistics is length of time post. This is partly because there are still logistical infrastructure conventional and not building connectivity between one location to another location that connects the centers of production with market or consumption centers.

Logistics consists of five activities that mutually affect customer response, inventory planning and management, supply, transportation and warehousing. Supply chain logistics is flow of material, information and money between firms. Supply chain is a network

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of facilities that starts from supplier to customer as for logistics is what happens on supply chain. Fluctuations in global economy and sustainable local industry has increased pressure on. Supply chain operations are challenged to provide best, lean or efficient, cost effective and timely delivery. Product life cycles are becoming increasingly shorter; market , supply and operations become increasingly progressive. Seaweed processing industry become one of national priority industries are still prospective for development. From aspect of market shows that the development of seaweed market in global trade shows fairly high upside, along with increasing need for industrial raw materials both for food grade, industrial grade and pharmaceutical. The question is how to develop economy of region based on of innovation supply chain to manage innovation effectively in order to achieve needs of market and logistical efficiency. Regional economic development be determined by capability and inclusiveness of actors (AIG) in order to accelerate innovation SCM and to increases productivity and economic growth in region, so that it is strategic management of innovation SCM and key success factor for economic development corridor in eastern Indonesia.

This study is a descriptive analysis to provide a complete picture of the performance of supply chain and logistics costs to be incurred by seaweed industry, both upstream or downstream. This studied used a quantitative that is further supported by a qualitative approach. Research done by conducting a survey on farmers, wholesalers , exporters and seaweed industry. The technique of collecting data using surveys, interviews and focus group discussions (FGD), using research instruments, using Porter's Generic strategies analysis and cluster analysis.

Finding

The results found that innovation of SCM must consider factors inhibiting the supply chain , logistics cost structure , an analysis of the efficiency of the supply chain , and design optimal connectivity. Supply chain is one part of requirements of innovation management in corridor area, so that the proper handling of SCM will be able to move the economy can grow and develop and expanding rapidly economic corridors. The results of study became basis to formulate strategies for improving performance of the supply chain, in order to gain control of the domestic market as well as the strengthening of the position of the industry in the value chain upstream and downstream which is a dominant issue in the framework of region-based economic development corridor. The study also found that the interaction between regions of space for regional economic development is strongly correlated with the performance of supply chain management innovation. The interaction between AIG for SCM innovation role as a key performance regional economic development.

Conclusion

Formulation of supply chain development strategy includes the performance of product and aquaculture production, marketing situation , finance , partnerships , strengthen

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of facilities that starts from supplier to customer as for logistics is what happens on supply chain. Fluctuations in global economy and sustainable local industry has increased pressure on. Supply chain operations are challenged to provide best, lean or efficient, cost effective and timely delivery. Product life cycles are becoming increasingly shorter; market , supply and operations become increasingly progressive. Seaweed processing industry become one of national priority industries are still prospective for development. From aspect of market shows that the development of seaweed market in global trade shows fairly high upside, along with increasing need for industrial raw materials both for food grade, industrial grade and pharmaceutical. The question is how to develop economy of region based on of innovation supply chain to manage innovation effectively in order to achieve needs of market and logistical efficiency. Regional economic development be determined by capability and inclusiveness of actors (AIG) in order to accelerate innovation SCM and to increases productivity and economic growth in region, so that it is strategic management of innovation SCM and key success factor for economic development corridor in eastern Indonesia.

This study is a descriptive analysis to provide a complete picture of the performance of supply chain and logistics costs to be incurred by seaweed industry, both upstream or downstream. This studied used a quantitative that is further supported by a qualitative approach. Research done by conducting a survey on farmers, wholesalers , exporters and seaweed industry. The technique of collecting data using surveys, interviews and focus group discussions (FGD), using research instruments, using Porter's Generic strategies analysis and cluster analysis.

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**MANAGEMENT OF INNOVATION FOR REGIONAL ECONOMIC DEVELOPMENT:
LESSON LEARNED OF SUPPLY CHAIN MANAGEMENT STRATEGY FOR ENHANCING
CORRIDOR ECONOMY IN EASTERN INDONESIA**

research pasokan. The study found that type of chain role as a regional producer of seaweed products in the Maluku province of eastern Indonesia economic corridor, while strengthening the position its location in the value chain for development seaweed industry, so that the network infrastructure to support the production and transportation accessibility for the supply becomes a key factor in the development of supply chain strategies. Governments have a major role and importance of adequate infrastructure realizing for the smooth supply chain. Supply chain management innovation involving academia, industry and government become a key instrument for economic development based on corridor economic.

Provision of adequate infrastructure for the development of a corridor leading commodity in the economy is a fundamental requirement for economic growth in the region. Plan for long-term infrastructure investments and medium-term master plan for the acceleration and expansion of economic corridors shall be realized, especially in the area supply chains of commodity with global market potential industrial scale. Smart interaction between AIG should be a basic needs and essential requirement for development of economic corridors in developing a regional commodity.

Further research aimed to identify methods of production that faced the seaweed industry, identify the value-added of the provision of services, and identify the need for infrastructure and connectivity are directly related to the leverage of supply chain development strategy for the economic development of the region.

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