

2017 International Conference on Business and Economics (ICBE2017)

University of Finance - Marketing, Ho Chi Minh City, Vietnam

第12回 國際統合學術大會

Theme: Science, Technology and Humanities for Sustainability of Business, Economics and Cultures

EDITED BY:

Lee, Jung Wan - Boston University, United States Pham, Huu Hong Thai - University of Finance and Marketing, Vietnam Youn, Myoung-Kil - Eulji University, Korea



JULY 06 - 08, 2017 UNIVERSITY OF FINANCE - MARKETING HO CHI MINH CITY, VIETNAM

12TH INTERNATIONAL CONFERENCE OF KODISA

The publication is an official program and proceedings book of the 2017 International Conference on Business and Economics (ICBE2017) and the Twelfth International Conference of the Korea Distribution Science Association and Allied Academies.

Publication Date: The publication is printed on July 06, 2017.

© 2017 KODISA. All rights reserved

The articles and individual contributions contained in the Proceedings are protected under copyright by the Korea Distribution Science Association.

Publishing Office:

Hanshin Officetel Suite 1030, 2463-4 Shinheung-Dong Sujeong-Gu, Seongnam-City, Gyeonggi-Do, KOREA (461-720).

TEL: (+82 31) 740-7292, FAX: (+82 31) 740-7361, http://www.kodisajournals.org E-mail: kodisajournals@gmail.com

Production Editing: Dunam Publishing, Seoul, Korea Tel: +82 2 478 2066

Off Printing House: University of Finance - Marketing, HCMC, Vietnam. Tel: +8 3 812 6699

Disclaimer:

The Publisher, Association and Editors cannot be held responsible for errors or any consequences arising from the use of information contained in this Proceedings: the views and opinions expressed do not necessarily reflect those of the Publisher, Association and Editors. The author(s) of each article appearing in this Proceedings is/are solely responsible for the content thereof; the publication of an article shall not constitute or be deemed to constitute any representation by the Editors or the KODISA that the data presented therein are correct or sufficient to support the conclusions reached or that the experiment design or methodology is adequate.

Abeysekera, Indra, Huong, Nguyen Thi Thanh; Cowley, Julie Louise; Nguyen, Thi Kim Loan / 12TH INTERNATIONAL CONFERENCE 43-44 35

CONTENTS

Constructs and Variables in Environmental Research: A Secondary Review Using Canonical Correlation Analysis
Abeysekera, Indra; Huong, Nguyen Thi Thann, Cowiey, Julie Louise, Nguyen, Thi Kim Loan 43
Run and Short-Run Dynamics Relationships between Exchange Rate Fluctuations and Foreign Direct Investment Flows in China
Investment Flows in China Lee, Jung Wan; Brahmasrene, Tantatape ······ 45
Determinants of Online Purchase Intension: A Study on Indian Young-Adult Consumers
Potluri, Lohith Sekhar; Potluri, Rajasekhara Mouly; Vajjhala, Narasimha Rao
- An Exploratory Treatise on Jay Customers Behavior in Indian Banking Industry: A Dyadic Perspective
Potluri, Rajasekhara Mouly; Potluri, Lohith Sekhar
 Monetary Transmission Channels, Sectoral Output and Augmented VAR Analysis
Rao, Doki Tripati; Singh, Sunny Kumar
Economic and Environmental Impacts of Mass Tourism on Regional Tourism Destinations: A Case Study of Ten New 'Bali' in Indonesia
Syah, Ahmad Mujafar; Lee, Jung Wan
Indonesian Youth Shoppers Typology
Halim, Rizal Edy; Iqbal, Egi Widya Nur
• The Basic Directions of the Formation of IT Clusters Based_on Kazakhstan's Technological Platforms
Kireyeva, Anel A.; Nurlanova, Nailya K.; Ruzanov, Rashid M
Methodological Approaches of Evaluation of Economic Potential of the Regions of Kazakhstan
Nurlanova, Nailya K.; Kireyeva, Anel A.; Alzhanova, Farida G
Financial Disclosure and the Cost of Equity Capital: The Empirical Test_of the Largest Listed Companies of Kazakhstan
Baimukhamedova, Aizhan; Baimukhamedova, Gulzada; Aimurzinov, Murat; Luchaninova, Albina
The Integration of Science, Education and Business: Application in Al-Farabi Kazakh National University
Mutanov, Galym M.; Ramazanov, Tlekkabul S.; Akhmetova, Aigul B.;
Togambayeva, Altynay K.; Karagulanova, Ardak S
The Relationship of Mid II.
The Relationship of Middle Income Trap and Employment in Kazakhstan
Jumambayev, Seisembay 77

 International Experience in the Integration of Science, Education and Business: Perspectives for Application in Kazakhstan
Mutanov, Galym M.; Ramazanov, Tlekkabul S.; Togambayeva, Altynay K.; Akhmetova, Aigul B.
Administrativa, Algui B. 8
Phenomenon of Hallyu: An Outside Perspective Kazakhstani Viewpoint
Toganbayeva, Karlygash; Mirzoyeva, Leila Y.; Timberiake, Alan H
A Structural Compandium on Application of Mah 2.0 Technologies in Small and Madium Enterprises in India
A Structural Compendium on Application of Web 3.0 Technologies in Small and Medium Enterprises in India
Vajjhala, Narasimha Rao; Potluri, Rajasekhara Mouly; Potluri, Lohith Sekhar
• Exploring Consumer Cosmopolitanism and Ethnocentrism Effects in the Purchase Intentions towards the Products
of a Foreign Country Sousa, Ana F. Antunes; Nobre, Helena M.; Farhangmehr, Minoo
Sousa, Ana F. Antunes; Nobre, Helena M.; Farhangmehr, Minoo
• Financial Economics of Innovation: Policies and Mechanisms for Enhancing Innovative Entrepreneurship
Wonglimpiyarat, Jarunee ····· 95
Building Bridges on the Silk Road: A Strategy for Vietnam
Greiman, Virginia A
Research on the Environmental Issues in China's Sustainable Economic Development
Zhao, Yue99
Effective Model of Social and Labor Relations: Approaches to Regulation
Chulanova, Zaure K. 10
a State Regulation of Regional Extragonautric in the Market Features & Oracle of Kennel 1.
State Regulation of Regional Entrepreneurship in the Market Economy: A Case of Kazakhstan
Mukhtarova, K. S.; Myłtykbayeva, A. T.; Mukhtar, E. S 8
The Prospects of Development of Green Economy_in the Republic of Kazakhstan
Sansyzbayeva, Gallia N.····· 10
Management of Innovative Activity of the Enterprises of Small and Medium-sized Business in the Competitive
Environment
Zhaxylykova, Ayan ····· 109
• The Economic Diagnostics of Competitiveness of Companies_in the Republic of Kazakhstan
Zhunissova, Gulnar E 113
Management of High-Tech Project Risks in the Condition of Economic Crisis
Mukhtarova, Karlygash S.; Kozhakhmetova, Assel 117

Abeysekera, h	ndra: Huong, Nguyen Thi Thanh; Cowley, Julie Louise; Nguyen, Thi Kim Loan / 12 TH INTERNATIONAL CONFERENCE 43-44
Fficiel	ncy of Development of Transport Infrastructure_in the Multi-Purged Regions of Kazakhstan
* Economic Emere	Sharapiyeva, Madina
The Ways of Con	nmercialization of Scientific Developments of Foreign Countries
	Usmanov, Ali
Supportable Fo	ormat for Attribute Based Encryption_in Cloud Computing
	George, Salu
Analysis of Devel	opment of Project Management in the Republic_of Kazakhstan
Chine and An	Mukhtarova, Karlygash S.; Yesmurzayeva, Aknur
A Comparative A	nalysis of Corporate Governance Guidelines: Bangladesh Perspective
	Rahman, Md. Musfiqur; Khatun, Naima
Ones Agricultural	Production Contribute to Poverty Reduction in Cameroon?
· DOES Agricultural	Ofeh, Moses A.; Dinictri, Soh Wenda Boris; Fon, Dorothy A.
• A Model to Predic Exchange	ct Corporate Failure in the Developing Eonomies: A Case of Listed Companies on the Ghana Stock
	Oduro, Richard; Aseidu, Michael Amoh 1
- Estimating Total F	Factor Productivity and Its components - Evidence from Manufacturing Sector of Tamilnadu, India
	Kumar, T. Sampath; Pradeep, V 1
• Trends in the Dev	elopment of Fiscal Authorities of Kazakhstan
	Ilimzhanova, Zaida A.; Bumasheva, Venera R.; Gussenov, Barkhudar S 1
• A Qualitative Stud Barrier to Trade_ir	dy of the Effects of a Government-Mandated Online Transaction Standard Acting as a Technical n South Korea
	Callinan, Nigel ······ 1
Opterminants of C	Commercial Banks' Efficiency in Bangladesh: Does Crisis Matter?
	Banna, Hasanul; Ahmad, Rubi; Koh, Eric H.Y 1
Banking Lending E	Behavior towards SME Businesses during Global Financial Crisis 2008: Evidence from Malaysia
	Shammo, Anisul Mannan; Mahbub, Meshkat; Yahya, Abdul Aziz
Thailand's Efficien	t Trade Agreement and Its Impacts_on Poverty and Income Inequality
	Durongkaveroj, Wannaphong ·····
The impact of Prov	perty Management Services on Tenants' Satisfaction_with Industrial Buildings
	Seetharaman, Arumugam; Saravanan, A. S.; Patwa, Nitin; Bey, Jiann Ming
	The second state of the se

.

	ent Attraction in Vietnamese Industrial Parks and Economic Zones in the Process of
International Econor	
	Nguyen, Tien Dzung; Nguyen, Anh Tuan; Do, Phu Tran Tinh
Food Security among	st Small Grains and Long Grains Smallholder Farmers of Masvingo Province in Zimbabwe
	Mapfumo, Alexander 157
The Determinants of	Current Account in the Southeast Asian Countries
	Dang, Thi Ngoc Lan
Ownership Structure	and Dividend Policy of Vietnamese Enterprises after the Global Financial Crisis
1	Pham, Quoc Viet; Luong, Quoc Trong Vinh; Tran, Bao Vy·····
The Determinants of	Dynamic Debt Maturity Structure: Evidence from Vietnam
	Nguyen, Thanh Nha; Tran, Thi Thuy Linh······ 167
	etitive Advantages_through Supplier Development
	Nguyen, Phi Hoang ······ 171
	king Website Quality in Vietnam: A Decision Tree Approach
ł	Pham, Thi Thanh Xuan; Nguyen, Tien Nhat 175
	accessful Deployment of Enterprise Resource Planning for Organizations in Vietnam
r	Iguyen, Xuan Hiep; Nguyen, Thi Cam Loan ····· 179
	rocedures Reform to Business Environment in Vietnam: Achievements and Further Reforms
L	e, Xuan Truong ······ 183
Role of Corporate So	cial Responsibility in Managing Customer Loyalty: An Empirical Study in Vietnam Retailing
Industry	
ł	loang, Phuong Dung ····································
	of Formal Economic Institutions and Growth_in Vietnam
E	Bui, Thanh Trung; Diep, Gia Luat ······ 191
	pact of Enterprise Resource Planning (ERP) System on Accountants' Work Performance
F	han, Thi Bao Quyen; Nguyen, Phuoc Bao An 195
Determinants of Vietn	am's Outward Direct Investment: In Cambodia Case
1	o, Thu Thanh; Le, Quang Huy ······ 199
1	-,
Convergence Strategy	VAS with IAS/IFRS to Fit International Business and Economy
F	ham, Thi Lai

Management of High-Tech Project Risks in the Condition of Economic Crisis

Mukhtarova, Kariygash S.¹; Kozhakhmetova, Assel²

Abstract¹

In this paper considered possible risks of high-tech projects and analyzed the impact of the economical crisis to risk management of Kazakhstan projects. In the current study analyzed the significant dependence of project success on risk factors which appear during crisis. The study found that good management of these factors and using new methods and technologies can help to achieve high efficiency in risk management. The manager of the high-tech project must continuously monitor (control) the situation at each stage, responding in a timely manner to the "weak signals" of the likely risk despite all the methods and techniques used to reduce the risk. If we miss the beginning of the development of a risky event, then, despite the subsequent correct actions, the losses will be much higher than if anticipating the impending danger. This is the "golden rule" of anticrisis management. The manager should remember that risks can cause losses not only to the organization, but also to him through showing the level of efficiency of his work.

Keywords: High-tech Project, Project Risk Management, Crisis Management, Kazakhstan.

1. Introduction

Every project inevitably carries risks of failure. Even the most experienced and qualified project manager will not be able to eliminate them. No matter how sophisticated in planning there will always be the possibility of occurrence of accidental and undesirable risky events. Many authors have investigated project risks, their consequences and risk management practices (Fabricius & Buttgen, 2015; Mentis, 2015; FathiZahraci, 2015).

They decided that risk is the likelihood of an unwanted event and all its possible consequences in the context of project management. It is impossible to foresee the development of the project in all the details. Risks are always present and increase if:

- the project is long-term;
- the project team is inexperienced, has not faced in the past with projects of this type;
- there is a large time interval between the completion of planning and the beginning of the project;
- the project is innovative and based on new technologies (2016, http://studme.org).

It isimpossible to imagine a project which completely devoid of Projet risks. Another thing is that some risks from the projects which most characteristic for a certain type can be envisaged and take

measures to minimize damage in case of their occurrence. However, there is always the possibility of manifesting risks that belong to the class of emergency circumstances and are not susceptible to foresight and accountability in project planning. Fortunately, most project risks can be foreseen and provide for measures to overcome the consequences of undesirable events.

2. Research Method

The data shown in the following table helps for full understanding of high-tech projects risks (Chernjak, Jeriashvili, & Barikaev, 2015).

<table 1=""> Risk factors in various</table>	phases of the high-tech project
--	---------------------------------

Phase of project	Risk factors
Determination	The origin of the idea of the project is unclear. The project arose as a result of a spontaneous decision not a weighted reflection. The feasibility of the project was not sufficiently studied. The experience of implementing similar projects by other organizations was not taken into account. A comparative analysis of costs and results was no carried out.
Planning	Project limitations are not defined or defined unclear. Planners do not have experience working in similar projects. The parts of the plan are missed, additional work is required for planning The executors did not take any part in the development of plans for the execution of the project. Stakeholders who are not familiar with the plan are constantly in doubt. The project management was not formed on the team principles of work and is not aimed at fulfilling the tasks of the project. Procedures for conflict resolution have not been developed
Implementation	The project uses new; unverified methods of performing works. The work descriptions are not detailed enough. The project involves new or untrained personnel. Changed the needs of the customer. Inaccurate and contradictory reports on the execution of works. Contractors do not cope with their obligations. There have been changes in the project stakeholders. Prices for materials and services have changed.
Concluding	There are no methods for assessing the planned results. The customer does not accept certain types of work of the project. Administrative bodies are delayed with the issuance of permits. Project personnel are dismissed until completion of the project
At all phases	The management of the organization is not very interested in the project. The resources allocated for the completion of the phase are not enough. The project goes on to the next phase without completing the previous one. The project requires a large number of scarce specialists.

Department of Management and Marketing, Higher School of Economics and Buiness, Al-Farabi Kazakh National University, Kazakhstan

e-mail. kmukhtarova@inbox.ru

Department of Management and Marketing, Higher School of Economics and Business, Al-Farabi Kazakh National University, Kazakhstan E-muil: aselekdream(a)gmail.com

Mukhtarova, Karhygash S.; Kozhakhmetova, Assel / 12TH INTERNATIONAL CONFERENCE 117-119

It is very important to take into account these risk factors and know how to manage them. For this we considered one of the Kazakhstan's high-tech projects. This project is called "Innovative lithium-ion sulfur batteries" and aimed to produce "green" batteries which will be much cheaper in comparison with existing analogues. In comparison with other existing batteries, they are smaller by volume. They can be used even in electric vehicles, even for storing energy from renewable sources and so on. The project team consisting of scientists is working on improving the technology and creating a prototype battery, the theoretical capacity and operating time of which is 10-15 times higher than that of the current analogues.



<Figure 1> Innovative lithium-ion sulfur batteries

The first batteries will be used in electronics, electric transport, renewable energy. And lithium-ion-water batteries will mainly be used in renewable energy for large-scale storage systems (Bakenov, 2016). The main focus will be on batteries for renewable energy, more specifically a storage system for solar, wind energy. The first type of battery has a very high capacity, so they will work very long - theoretically 10 times longer than existing batteries. A lithium-ion-water batteries - they are safe and eco-friendly, there are no heavy metals and aggressive solvents, and they are not flammable". The current lithium-ion batteries in phones and laptops are expensive, toxic and dangerous. You know, probably, the case with Boeing (Delays and cancellations of Boeing 787 Dreamliner flights due to battery fires - Author's note). This was due to the fact that used organic electrolytes and they were smoking. Our batteries will not lead to such consequences, because there simply is not anything to burn inside.

It is worth noting that the consequences of the economic crisis can significantly affect the fate of the project. As in any country, the economic crisis in Kazakhstan brought its own order and made appropriate adjustments. It had a negative impact on the economy. There was an increase in interbank loan rates, capital began to flow out of the country, which served as the basis for weakening the national currency. Thus, you can list the following risks of this project:

 The currency risk. There is a danger of currency losses associated with the change in the exchange rate of the USA dollar against the national currency in the conduct of foreign economic, credit and other foreign exchange operations. Since we know that at the moment the tenge is not stable against the USA dollar. This can affect the progress of the project, as the particles for the manufacture of batteries are imported in foreign currency. The growth of the USA dollar against the tenge may increase the cost of production. Because raw materials imported from other countries and bought in USA dollars. Commercial risk. This type of risk may be associated, in particular, with the unpredictability of changes in the purchase price of raw materials, increased costs of handling, losses and damage to raw materials, materials and equipment during storage and transportation. Elementarily new batteries may not be accepted by buyers or can't withstand competition.

Investment risk. Everyone knows that innovative and high-tech projects are at greater risk than traditional projects, Because it is difficult to manage them Products may not fully pay off or under the influence of other causes and risks do not justify investments.

- Production risk. This risk may arise in the production of a defective product. This is likely, since the project is hightech and specialists can make a mistake. Also, this risk can be correlated with the risk associated with the lack of highly qualified specialists in the development of new batteries.
- Economic risk. The success of the project can be affected by various economic factors, such as the level of solvency of the population, a change in the level of demand and so on. Deteriorating indicators of these factors can significantly reduce the profit from the project.
- Systemic risks. These risks can appear in the path of any project. For example, a sudden war, inflation or the economic downturn in Kazakhstan. This point directly connected with economic crisis.

3. Discussion

We suggest the following methods and techniques to manage risks: 1) insurance, 2) hedging; 3) diversification; 4) option; 5) futures; 6) formation of a reserve. In detail:

- Insurance is the most common and quite effective method of risk reduction. There are many types of insurance. The insurance can be subjected not only to the project itself or its individual stages, but also to the intellectual property objects included in the project.
- You can also use the hedging method this is the distribution of risk between the project participants, the transfer of a part of the risk to co-executors, partners. Since the development of new batteries is a complex high-tech project, it is possible to share risks and responsibilities. This can be counter commercial, credit and other claims and liabilities. Almost all transactions are hedged in one way or another: they are insured by mutual obligations.
- We can use the option method after the development of lithium batteries. This is a stock exchange transaction for the sale of goods at a fixed price during a certain (contractual) period. You can find such buyers, let's say domestic partners, consumers like "Kazatomprom", "Samruk-Energo". There are such companies as "Astana Solar", "Kainar AKB" - a battery factory. We can use their capabilities to test batteries, also as well as use in their devices. Option contracts must be concluded with suppliers of raw materials, components, materials, with other organizations (for example, transport) that provide innovative production.
- Futures a contract with a deferred period of performance under unchanged conditions. Futures contracts even more than options, reduce the risks of supply and

collateral in business. Both options and futures contracts can be subject to sale (on stock exchanges).

The formation of a reserve of resources is a traditional operation to prepare for possible negative consequences of risks. Programs are developed to manage inventory in a particular industry. For radical innovative products, this prediction of the required reserves presents special difficulties. As a rule, expert methods are used here to determine the required reserves-the size of the reserve of resources.

4. Conclusion

The manager of the high-tech project must continuously monitor (control) the situation at each stage, responding in a timely manner to the "weak signals" of the likely risk despite all the methods and techniques used to reduce the risk. If we miss the beginning of the development of a risky event, then, despite the subsequent correct actions, the losses will be much higher than if anticipating the impending danger. This is the "golden rule" of anti-crisis management. The manager should remember that risks can cause losses not only to the organization, but also to him through showing the level of efficiency of his work.

References

- Fabricius, G., & Büttgen, M. (2015). Project managers' overconfidence: how is risk reflected in anticipated project success?. Business Research, 8(2), 239-263.
- Mentis, M. (2015). Managing project risks and uncertainties. Forest Ecosystems. 2(1), 1-14.
- FathiZahraei, M., Marthandan, G., & Raman, M. (2015). Reducing risks in crisis management by GIS adoption. Natural Hazards. 76(1), 83-98.
- Ivanov, S. (2016). Upravlenie proektami v uslovijah neopredelennosti i riska. Retrieved from http://studme.org.
- Chernjak, V., Jeriashvili, N., & Barikaev, E. (2015). Upravlenie predprinimatel'skimi riskami v sisteme jekonomicheskoj bezopasnosti. JuNITI-DANA; Zakon i pravo.
- Bakenov, M. (2016). Bolee moshhnye akkumuljatory razrabatyvajut v Nazarbaey Universitete. Retrieved from https://tengrinews.kz/progress.
- Dautaliev, D. (2016). V Kazahstane izobreteny innovacionnye akkumuljatory. Kazinform: International information agency.