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THE PROJECT RISK REGISTERS ANALYSIS BASED OF THE PROJECT RISK MANAGEMENT NOTION 'RISK REGISTER'

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Abstract

The project risk register is an important project risk management document. It can be seen that the risk registers vary from 3 to 5 columns and to more than 20 columns in registers. The project management theory does not have generally accepted well-established or logically correct criteria for correctness. The eligibility criteria can be maturity, practical application, compliance with a group of criteria chosen by the authors.

The author of the study believes that all of the listed criteria are not sufficient to evaluate the risk registers. Therefore, in addition to the above-named criteria in the evaluation of risk registers, the results of the concept 'risk register' or similar concept analysis is proposed. Objective of the research is to clarify whether the results of the definition 'risk register' or similar concept analysis can be used to improve recommendations for risk register. The study analysed 23 sources and 30 risk registers.

The research results suggest that the results of qualitative analysis can be used to develop or evaluate a project risk register.

Key words: project, risk, risk register concept, qualitive analysis.

JEL code: M00, M10, M190

Introduction

The project risk register is an important project risk management document. It can be seen that the risk registers vary from 3 to 5 columns and to more than 20 columns in registers. Project management is not a scientific discipline with generally recognised concepts. The author believes that the project management theory does not have generally accepted well-established or logically correct criteria for correctness. Among the he eligibility criteria there may be maturity, practical application, compliance with a group of criteria chosen by the authors.

The current research like the previous research by the author, including the ontological, epistemological and methodological analysis studies, is based on the use of qualitative research methods. Considering the restrictions of the article volume, 23 and 30 sources were selected. However, the author concluded that the conducted research accounts for the confidence that ontological and epistemological analysis is a method in which, together with the methodological analysis, it is possible to perform the analysis of risk management sources aimed at improving risk management, especially for creating the risk register (Uzulans J., 2018). However, the results of the three studies were not enough to develop justified recommendations for the development of risk registers.

The objective of the research is to clarify whether the results of the definition 'risk register' or similar concept analysis can be used to improve recommendations for development or improvement of a risk register.

The tasks of the study are as follows: first, the analysis of the concept 'risk register' or similar concept, second, the analysis of the uses of 'risk register' or similar notions, and, third, the evaluation of the risk registers.

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Research_Methodology

For the research we selected 23 sources, 18 are publicly available on the Internet. Selection criteria are, first, definitions of the notions 'risk register' or similar notions and definition of the notion 'risk' and, second, the use of the notions in the text.

The number of sources used in the study was reduced because the number of applications was small in several sources. We selected the key terms in the definitions and verified how they have been used.

The study is based on the use of qualitative research methods. For the study purposes, the author used the Find and Advanced search function of programme Adobe Acrobat Reader DC 2019. Adobe Acrobat Reader is available online free of charge. The remaining 23 sources were analysed in their original format of Adobe Acrobat Reader DC.

The results of the definition analysis are used to analyse the use of concepts in the source text and then use both results to evaluate the risk registers. The author is aware that the number of analysed sources is not large. The small number of sources is offset by the analysis that include the analysis of definitions, the use of concepts in the source text and evaluation of the risk registers.

Descriptions of the sources

Each of the sources contained a definition of 'risk', the sources were in Adobe Acrobat pdf format. Table 1 summarizes the information about the sources. The sources numbers match to the number in the References section at the end of source.

Table 1

Information about the sources

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No.	Information about source			
1.	The author's book about step-by-step application of project management techniques to managing science,			
	technology and engineering projects.			
	Definitions of the notion 'risk register' and definition of the notion 'risk'. Both definitions in the glossary.			
2.	The author's book about the processes required to start up, define, plan, launch, execute and complete a project			
	successfully.			
	Definitions of the notions 'risk log' and definition of the notion 'risk'. Both in the glossary.			
3.	The author's book based on the Method123® Project Management Methodology (MPMM) by outlining the			
	phases, activities and tasks throughout the project's life.			
	Definition of the notions 'risk register' and definition of the notion 'risk'. 'Risk' in the glossary, 'risk register'			
	in the text.			
4.	Organization's guide from PM4NGOs, international NGO. The book presents project management in the			
	international development sector with activities as for writing project proposals, developing project plans,			
	implementing project activities, monitoring project progress, and evaluating project impact.			
	Definition of the notion 'risk' and description of the 'risk register'. Both in the text.			
5.	Organization's book from APM, Association for Project Management. The book clearly structured with 52			
	areas of knowledge and definitions and explanations.			
	Definitions of the notions 'risk register', 'risk log' and definition of the notion 'risk'. All definitions in the			
	glossary.			
6.	Organization's book from GPM Global, global organization which promotes sustainability in the project			
	management profession. PRiSM TM (Projects integrating Sustainable Methods) is described in the book.			
	PRISM TM is sustainability-based on the project delivery method that is structured project management, which			
	combines sustainability and traditional core project phases. PRiSM establishes a framework of considerations			
	derived from ISO 21500, ISO 14001, ISO 26000, ISO 50001 and ISO 9001.			
	Definition of the notion 'risk register' and definition of the notion 'risk'. Both definitions in the glossary.			
7.	Organization's manual from International Labour Organization, with the policies, rules, procedures, and tools			

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needed to manage extra-budgetary technical cooperation projects divided to the stages of a project and explain II.O's evaluation policy and management. Definition of the notions 'risk register' and definition of the notion 'risk'. 'Risk' in the glossary, 'risk register' in the text. 8. Organization's book from Project Management Institute with description of the project management profession. Definition of the notion 'risk register' and definition of the notion 'risk'. Both definitions in the glossary. 9. State authority manual from State of Queensland to provide guidance on rules and standards for the preparation of cost estimates for all transport infrastructure projects. Definition of the notion 'risk register' and definition of the notion 'risk.' Both definitions in the text. 10. Organization's handbook from the Council of Europe provides step-by-step instructions and guidance for the project team throughout the project lifecycle. Definition of the notion 'risk register' and definition of the notion 'risk.' Both definitions in the glossary. 11. Organization's guide from European Union about the PMF, which is a Project Management Methodology developed by the European Commission in order to facilitate the management of a complete lifecycle of a project. Definition of the notion 'risk register' and definition of the notion 'risk'. Both definitions in the glossary. 12. Organization's guide from The Health Boards Executive with a structured, accessible, user-friendly approach to the key areas of project management. The guide and is based on the Project Management Body of Knowledge. Definition of the notion 'risk log' and definition of the notion 'risk'. Both definitions in the glossary. 13. The City of Winnipeg manual for applying PMBOK project managements 2 (PRINCE2) methodology beging its intain with addition from Projects in Controlled Environments 2 (PRINCE2) methodology trisk management process for all JKR projects, programs, plans and activities based on the Joint Australian/New Zealand Stundar		
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technology to classify, assess and manage different elements of the project.	21.	



8th International Scientific Conference on Project Management in the Baltic Countries April 25-26, 2019, Riga, University of Latvia ISSN 2256-0513, e-ISSN 2501-0263

22.	State authority handbook present scalable approach to managing project risks by knowing, communicating and		
	accepting risks through the phases of project delivery.		
	Definition of the notion 'risk register' and definition of the notion 'risk'. Both definitions in the text.		
23.	State authority guide that represents a guidance and direction for practicing risk management for Capital		
	transportation project development providing direction, outlining the appropriate methods and techniques used		
	for risk management decision making un for risk management.		
	Definition of the notion 'risk register' and definition of the notion 'risk'. Both definitions in the text, also 'risk		
	charter' are used.		

Source: The author's valuation

A specific place between the selected sources belongs to source number 8, A Guide to the Project Management Body of Knowledge, the guide has been mentioned in other sources 15 times, including three sources where the influence is recognized. In the A Guide to the Project Management Body of Knowledge is an important sentence for current research "A common vocabulary is an essential element of a professional discipline" (PMBoK Guide, 2013).

According to the author, the most important thing that affects the risk management, is project life cycle conception, project as a process with phases. It is important to meet the specific needs and requirements of the organization by providing a structured and systematic approach.

Analysis the "risk register" or similar notion definitions

We analyse the "risk register" or similar notion definitions to identify the criteria for risk register analysis. The notions, which are different than the "risk register", start with naming the notion.

The definitions of the "risk register" or similar notions

Table 2

No.	Definitions	Definitions analysis
1.	The document containing the results of the qualitative	Results of the risk management process, risk
	risk analysis, quantitative risk analysis, and risk response	register content, component of a higher-level
	planning. The risk register details all identified risks,	document.
	including description, category, cause, probability of	Criteria for analysis of the risk registers: results
	occurring, impact(s) on objectives, proposed responses,	of qualitative and quantitative risk analysis; risk
	owners, and current status. The risk register is a	response activities; impact(s) on objectives;
	component of the project management plan.	component of the project management plan.
2.	Risk log – sequential listing of all risks identified	Updates throughout the project's life, risk register
	throughout the project's life and information about their	content.
	ranking, probability and management.	Criteria: information about identification that
		identifies a project's life time; information about
_		ranking, probability and management.
3.	The risk register is the log within which all risks are	Used throughout the project's life. Criteria: information about identification that
	registered and tracked through to closure.	identifies project's life time.
4.	Risk register document provides a more formal and more	Formal and more detailed information than the
٦.	detailed identification of risks and the plan for addressing	red flag list.
	them list of significant risk contains information	Criteria: risk analysis and mitigation and current
	about the magnitude of probability and impact of risk	status information; the cost and schedule impacts.
	occurrence. It may also include proposed mitigation	status information, the cost and seneggie impacts.
	responses, "owners" of the risk, and current status of the	
	risk. The risk register can also include information about	
	the cost and schedule impacts of these risks.	
5.	A body of information listing all the risks identified for	Results of the risk management process.
	the project, explaining the nature of each risk and	Criteria: the nature of each risk and information



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	recording information relevant to its assessment, possible	relevant to risk assessment.
	impact and management.	
	Risk log – A document that provides identification,	
	estimation, impact evaluation and countermeasures for all	
	risks to the project.	
6.	A record of identified risks including results of analysis	Results of a risk management process.
	and planned responses.	Criteria: results of analysis and planned
		responses.
7.	A risk register is a risk management tool that acts as a	Risk management tool.
	central repository for all risks levels identified.	Criteria: results of identification, risk
		management tool, risks levels.
8.	A document in which the results of risk analysis and risk	Results of a risk management process.
	response planning are recorded.	Criteria: results of analysis and planned
		responses.
9.	The risk register is the most appropriate record of such	Record for decisions, customer, contractor,
	decisions, regardless of whether the risk is owned by the	project manager as the risk's owners.
	customer, contractor, or the project manager.	Criteria: record for decisions, risk owner.
10.	The list of main risks identified with details of the	Main risks, measures for prevention.
	measures taken to tackle them.	Criteria: measures for prevention.
11.	Risk log – A central repository for all risks identified by	Risk identification.
	the project or organisation.	Criteria: results of identification.
12.	A table for recording project risks is called a risk log.	Risk table.
		Criteria: are not.
13.	The record of risk events identified and assessed, and	Results of a risk management process.
	actions developed to address those risk events.	Criteria: results of analysis and planned
	•	responses.
14.	A record, under formal change control, of all identified	Results of a risk analysis.
	risks, their assessment, treatments and outcomes.	Criteria: results of analysis.
15.	A document that records the results of a risk analysis	Results of a risk analysis.
	process.	Criteria: results of analysis.
16.	A document that provides identification, estimation,	Results of a risk management process.
	impact evaluation and countermeasures for all risks to the	Criteria: results of analysis and planned
	project. It should be created during the start-up of the	responses, reviewed and maintained throughout
	project and be reviewed and maintained throughout the	the life of the project.
	life of the project.	
17.	A living document and should be reviewed and updated	Document that is reviewed and updated regularly.
	regularly, making sure that contingency arrangements are	Criteria: contingency arrangements,
	checked and risk ratings are reassessed where necessary.	reassessment.
18.	Documents and manages known risks in accordance with	Results of a risk management process.
	the Risk Management Plan (may be incorporated within	Criteria: results of analysis and planned
	the PMP). This includes tracking information such as	responses.
	probability, impact, triggers, mitigation plans, and	*
	contingency plans.	
19.	A list of identified risk events that are prioritized based	Results from a risk management process.
17.	on their probability and impact.	Criteria: results of analysis.
		Results from a risk management process.
	created of both opportunities and threats, called a "risk	Criteria: not present.
	register."	Official not present.
21.	Database for risks associated with the project (Also	Risks associated with the project.
۷1.	known as risk database or risk log).	Criteria: are not.
22		
22.	A risk register is a tool that project teams can use to	Tools for the project team.
	address and document project risks throughout the	Criteria: throughout the project life cycle.
22	project life cycle.	D 14 C 11
23.	A document detailing all identified risks, including description, cause, probability of occurrence, impact(s)	Results of a risk management process. Criteria: results of analysis and planned
	l decembre an entre muchability at accumumance immediates	Criteria: results of analysis and planned



8th International Scientific Conference on Project Management in the Baltic Countries April 25-26, 2019, Riga, University of Latvia ISSN 2256-0513, e-ISSN 2501-0263

on objectives, proposed responses, owners, and current	responses, current status.
status.	

Source: The author's valuation

Table 3 summarizes the information about the criteria according to definitions in the Table 2.

Criteria from the "risk register" or similar notions definitions

Table 3

Table 4

No. Criteria **Explanation** Verification Identification step - risk name, risk description or Risk management Column names correspond to the names of the risk similar word for column which contains information process. about risk without analysis. management process steps. Analysis step - results from risk qualitative and quantitative analysis. Risk management planning step - risk response activities, responsibility. Risk management executing step - risk response activities status, risk current status. 2. Detail of the risk Comments for column names Only names or more detailed information. explanation management with process steps. column content. 3. Risk register Risk management Columns or information about risk status, risk response time status throughout borders against project's life activities state, reassessment. the project's life. time. 4. Information about risk register usage to higher level Risk register Comments or explanation documents, component of risk management plan. about risk register usage. usage. Additional 5. Information which facilitates Risk prioritisation, explanation, notes, suggestions, information. the use of the risk register. historical information about previous risk states and similar.

Source: The author's valuation

The "risk register" or similar notion usage

In addition to the criteria from the "risk register" or similar notion definitions, the next step was the analysis of the notions 'risk register' or similar applications in the text of the sources. Table 4 summarizes the information about the usage of the notions.

The usage of the "risk register" or similar notions

	The usage of the Tisk register of shinnar notions			
No.	Information about usage	Summary of usage		
1.	Risk register 16 times	Nothing new against the criteria from the definition of the notion 'risk register'.		
2.	Risk log 58	Part of the project brief document; the owner for every risk.		
3.	Risk register 22, risk form 22	Nothing new compared to the criteria from the definition of the notion 'risk register'.		
4.	Risk register 17	Nothing new compared to criteria from the definition of the notion 'risk register'.		
6.	Risk register 6	Risk register opening time after first risks are identified; ownership; communicates with the ownership through the whole risk management process.		
7.	Risk register 5, risk log 1	Nothing new against criteria from notion 'risk register' definition.		
8.	Risk register 117	Risk register is updated according to scheduling assumptions, risk response costs, impact to the project quality requirements; create the risk register step-by-step according risk management process steps; risk responses are executed		



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		during the life cycle of the project; information for the risk register updates are
9.	Risk register 12, risk	outcomes of risk reassessments, risk audits, and periodic risk reviews. Nothing new against criteria from notion 'risk register' definition.
	registers 1, risk log 5	
10.	Risk register 19	Use risk register to make risk owners fully responsible for their risks; regular risk assessment.
11.	Risk register 2, risk log 31	Used to document and communicate the risks and relevant risk response actions and responsibilities; risk status.
12.	Risk log 19	Multiple entries for responses; regular renewal; date of the last update.
13.	Risk register 26, risk registers 1	Linking risks to at least one of the project objectives (cost, scope, schedule, and quality); systemic risk contingency.
14.	Risk register 34	Monitor and track risky events; updated frequently; involves analysis of project metrics.
15.	Risk register 37	Source of learning for future projects; version control; risk unique identifier; changes in the risk status;
16.	Risk log 10, risk register 1	Responsibility for renewal.
17.	Risk register 16, risk registers 3	Historical risks of the project, contingency or preventative measure(s).
18.	Risk register 67, risk log 8	Updates based on new risk information.
19.	Risk register 11	Nothing new against criteria from notion 'risk register' definition.
20.	Risk register 26	Risk trigger; list of uncertainties; opportunities and threats; risk event.
21.	Risk register 34, risk log 1,	Primary risk and secondary risk.
	risk database 2	
22.	Risk register 93	The risk register conformation and signature; total cost of all risks.
23.	Risk register 13, risk charter 20	The risk register help control cost escalation.

Source: The author's valuation

Based on Table 4. additional criteria table was created.

Table 5 Additional criteria from the "risk register" or similar notions definitions

No.	Criteria	Explanation	Verification
1.	Risk management	Columns names correspond to	For risk management planning step – measures.
	process.	risk management process steps	
		names.	
3.	Risk register status	Risk management time borders	Start un update dates; version controls.
	throughout the	against project's life time.	
	project's life.		
5.	Additional	Information which facilitates the	Information about communications;
	information.	use of the risk register.	information for future projects; risk triggers;
			risk classification.
6.	Information for	Information which are used for	Information from risk reassessments, risk
	update.	the risk register update.	audits, and periodic risk reviews or similar.
7.	Information about	Information which are used for	Information about responsible persons,
	acceptance.	the risk register update.	signatures and similar.

Source: The author's valuation

The author developed a set of criteria when performing the definitions and the notions usage analysis. There are 7 sets of criteria in total, two new (6. and 7.) and three updated (1., 3. and 5.).

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Evaluation of the risk registers

For risk register analysis, the author chose 30 risk registers publicly available on the Internet. The existence or absence of criteria is in Table 6.

The risk registers evaluation

Table 6

	110 11011 10 510 0010 0 7 111 111011			
No.	Criteria	Risk registers		
1.	Risk management process.	11 risk registers contain columns with information on all stages of risk		
		management, 18 risk registers contain columns with information on risk		
		identification, analysis and risk management planning, 1 risk register contain		
		columns with information on risk identification and analysis.		
2.	Detail of the risk management	9 risk registers comments for column names with explanation about column		
	process steps.	content.		
3.	Risk register status	3 risk registers contain date for next review, 3 risk registers last update date,		
	throughout the project's life.	3 risk registers risk status with dates, 1 risk register action status and date, for		
		3 risk register it is not possible to determine whether the date is changed or		
		only one, start date.		
4.	Risk register usage.	7 risk registers is part of the risk management plan, 2 risk registers is part of		
		the project plan.		
5.	Additional information.	7 risk registers contain explanation for completion, 9 risk registers contain		
		the risk categories, 8 risk registers contain other information.		
6.	Information for update.	No record contains the appropriate criteria.		
7.	Information about acceptance.	2 risk registers date of signature or approval date.		

Source: The author's valuation

Practical recommendations and conclusion

Qualitative research methods are suitable for risk register analysis because the registers differ – they may many have unique columns or other elements. None of the selected registers was equal to another register. The selected criteria were applicable to the analysis of the selected risk registers.

The first criterion is compliance of the register with the risk management process, including the risk identification, risk analysis, risk management planning and executing. The project risk management process is described similarly to authoritative sources. The notion 'risk register' is used in the context of the risk management process in the texts of all selected sources.

The differences in the definition of risk register in sources are great. 11 risk registers contain information on all stages of the risk management process, 18 risk registers do not contain risk management execution and 7 risk registers do not contain risk identification. Only 4 definitions contain the names of all stages or other information that can be attributed to the stage. In the source text, when analysing the use of the notion 'risk register', it can be stated that that the notion 'risk register' is used in conjunction with the names of all risk management stages. The origin of the definitions was not analysed in the study.

It may be considered that the risk register should contain information on all stages of risk management. However, this cannot be considered a mandatory condition if the project contains other documents on risk management that feature relevant information on the stages, such as progress reports because there is no definition that a mandatory condition in a risk register is a document that contains all information about the project risk management stages.

The author believes that the risk register is a document that requires knowledge of risk management and risk management experience. Additional information about the risk registry



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column information can be found in 9 registers. Additional information cannot be considered a significant risk register criterion if the project has other risk management documents or the risk register is a part of another risk management document. The 7 risk registers are a part of the risk management plan.

Risk management is an ongoing process in the lifetime of the project, 10 definitions of the register include the renewal of the risk register during the lifetime of the project, it is not possible for 3 registers to unambiguously establish that the date is the date of renewal. Information on the renewal of the risk register during the lifetime of the project is considered to be an important criterion for evaluating the risk register.

As different project participants are involved in the risk management process, the information that facilitates participation in the process is positive. Only 7 registers contain information that facilitates participation in the risk management process. However, as in the criterion of compliance with the content of the risk register at all stages of the process, additional information may be included in other project risk management documents.

There is no information on risk reassessments, risk audits, and periodic risk reviews or similar elements in any risk register. Similarly to the information about updating the risk register during the lifetime of the project, it is considered to be an important criterion for evaluating the risk register, and the information on the information used in the renewal is considered significant.

2 risk registers contain the date of signature or approval date. This criterion can only be assessed as meaningful when the order of circulation of project documents stipulates that the date of signature or approval date should be in the project documents.

The criteria selected may be considered to be applicable in the assessment of risk registers. However, the author did not gain confidence that the number of criteria was sufficient. It is necessary to carry out additional studies to add new criteria, to clarify the existing ones and to establish the relationship among the criteria.

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