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Author	Nguyen, Dinh Chau Minh(Shirasaka, Seiko) 白坂, 成功			
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Risk Management Process Framework to Capture Project Context and Decision Making Strategy

Nguyen Dinh Chau Minh

(Student ID Number: 81334574)

Supervisor Seiko Shirasaka

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Graduate School of System Design and Management, Keio University Major in System Design and Management Г

SUMMARY OF MASTER'S DISSERTATION

Student Identification Number	81334574	Name	Nguyen Dinh Chau Minh	
Risk Management Process Framework to Capture Project Context and Decision Making Strategy				
Lesson learned is wide used in many projects and organization all over the world.				
Nevertheless, the utilization is not so effective due to three barriers. The first one is there are				
considerable values for future project but too few for the current ones. The second is most of				
Lesson learned database is very complicated and difficult to define applicable items. The last				
one is solutions in many case cannot be applied to other projects due to differences in project				
context (conditions, constraints, organizational environment, etc.). In this research, a risk				
management framework is introduced to overcome these three barriers. The framework				
consists of risk management strategies driven by project context. Results of risk management				
process are presented as outcomes of those strategies. All of this information formed a				
thinking process description in risk management that describe thinking flow of project team				
towards risk management decisions. The framework application can support decision-making				
in risk management as a visualized tool for project team communication. Moreover, a				
systematic approach by using context diagram to analyze and capture project context may				
support to deal with very complicated project with many elements interacting with each other.				
For the shake of Lesson learned, future project member can utilize these strategies and				
corresponding contexts as directions to risk management solutions.				
The proposed framework in this research is verified by applying to a satellite development				
project named MicroDragon (MDG). This is a four years project to develop a 50 Kg satellite.				
The project is run by Vietnamese engineers from Vietnam National Satellite who is taking				
master courses in Japan under instruction of their professors and experts of satellite				
technology. The fra	mework is applied to	each of risk mar	nagement activities in MDG project.	
Verification and validation in this research also includes interviewing activities. Users,				

experts in satellite project and risk management fields are the targets for interviewing.

Key Word: Risk management, strategy, context, thinking process description, MicroDragon (MDG)