

Optimization of selected processes of project management in Doosan Škoda Power s.r.o.



Bc. Martin Kunca; 2024
Department of Management Studies

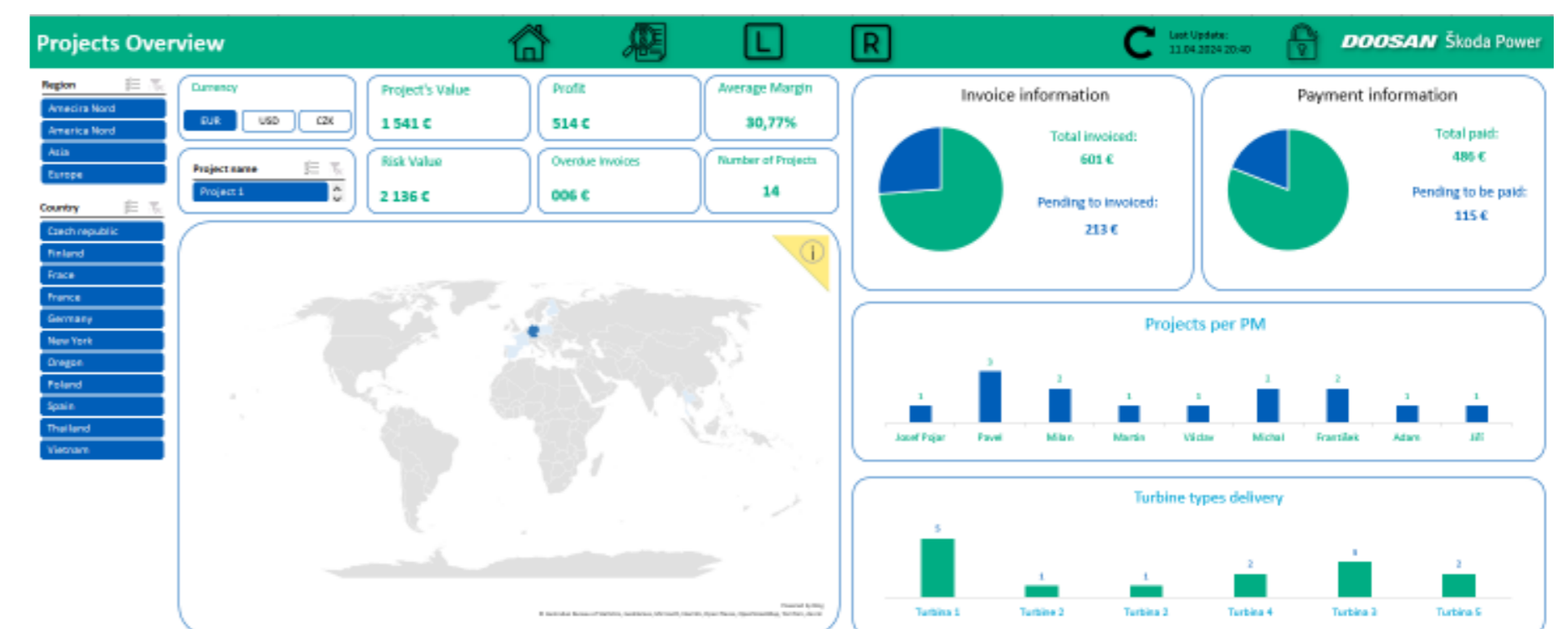
ABSTRACT

This thesis aimed to increase the time efficiency of information acquirement of the project management process in selected companies. DMAIC method of Lean Six Sigma methodology was used for this process optimization. The process was defined, measured, and analyzed according to this method. Quality methods were used for process analysis, particularly the Ishikawa diagram and 5 Why. Both methods were used via brainstorming. The root cause of the problem was discovered thanks to these methods. The main root cause of the analyzed problem was the absence of a summary file of needed information. MS Excel database containing the required information needed for process improvement was created in the practical part of the thesis. The database uses information about projects that are created by project managers. Recommendations for database implementation, change of process and incorporation of new information to the project log, which are supposed to increase the search effectiveness of databases, were stated in the thesis.

INTRODUCTION

This thesis focused on project management process that showed possibilities for improvement. Process was defined and analyzed. The primary root cause of the identified deficiencies was discovered through the analysis of the process. The main issue was ineffective acquisition of information. There was no other option how to obtain certain information other than asking colleagues. To eliminate this problem an MS Excel database was created, containing data about project, its risk, and lessons learned that are documented. A dynamic dashboard that utilizes data from the database was also created. The purpose of this dashboard is to provide information, and it prominently displays key project details.

RESULTS



Interactive Dashboard

Project No.	Project name	Client DSPW	Client final	Country	Region	Contract effective date	Turbine type	TA / Supervision / Turn-key delivery	Date of registration	Category of the issue
P100264	Project 1	Client 1	Client 1	Germany	Europe	28.02.2050	Turbina 1	Other, please specify!	16.06.2023	Commercial

Lessons learned database

Project No.	Project name	Client DSPW	Client final	Country	Region	Contract effective date	Turbine type	Site activities	Standards	Project manager	HIP
P100264	Project 1	Client 1	Client 1	Germany	Europe	28.02.2050	Turbina 1	Other, please specify!	EN	Pavel	Daniel
P100264	Project 2	Client 2	Client 2	Poland	Europe	28.02.2050	Turbina 1	Other, please specify!	EN	Milan	Frantisek
P100275	Project 3	Client 3	Client 3	France	Europe	28.02.2050	Turbina 2	Other, please specify!	EN	Martin	Vit
P100280	Project 5	Client 5	Client 5	Czech republic	Europe	28.02.2050	Turbina 2	Other, please specify!	EN	Václav	Dominik
P100285	Project 4	Client 4	Client 4	France	Europe	28.02.2050	Turbina 1	Other, please specify!	EN	Michal	David
P100292	Project 6	Client 6	Client 6	Germany	Europe	28.02.2050	Turbina 1	Other, please specify!	EN	Michal	David
P100293	Project 7	Client 7	Client 7	Spain	Europe	28.02.2050	Turbina 4	Other, please specify!	EN	Frantisek	Petr
P100298	Project 8	Client 8	Client 8	Finland	Europe	28.02.2050	Turbina 3	Other, please specify!	EN	Frantisek	Tomáš
P100299	Project 9	Client 9	Client 9	USA	America Nord	28.02.2050	Turbina 4	Other, please specify!	EN	Milan	Ivan
P100300	Project 11	Client 11	Client 11	Chile	America Latin	28.02.2050	Turbina 3	Other, please specify!	EN	Pavel	Daniel
P100302	Project 12	Client 12	Client 12	Vietnam	Asia	28.02.2050	Turbina 1	Other, please specify!	EN	Pavel	Tomáš
P100303	Project 13	Client 13	Client 13	Germany	Europe	28.02.2050	Turbina 5	Other, please specify!	EN	Ivan	Ondřej
P100305	Project 14	Client 14	Client 14	Thailand	Asia	28.02.2050	Turbina 5	Other, please specify!	EN	Adam	Jakub
P100307	Project 15	Client 15	Client 15	Germany	Europe	28.02.2050	Turbina 3	Other, please specify!	EN	Jiří	Jan

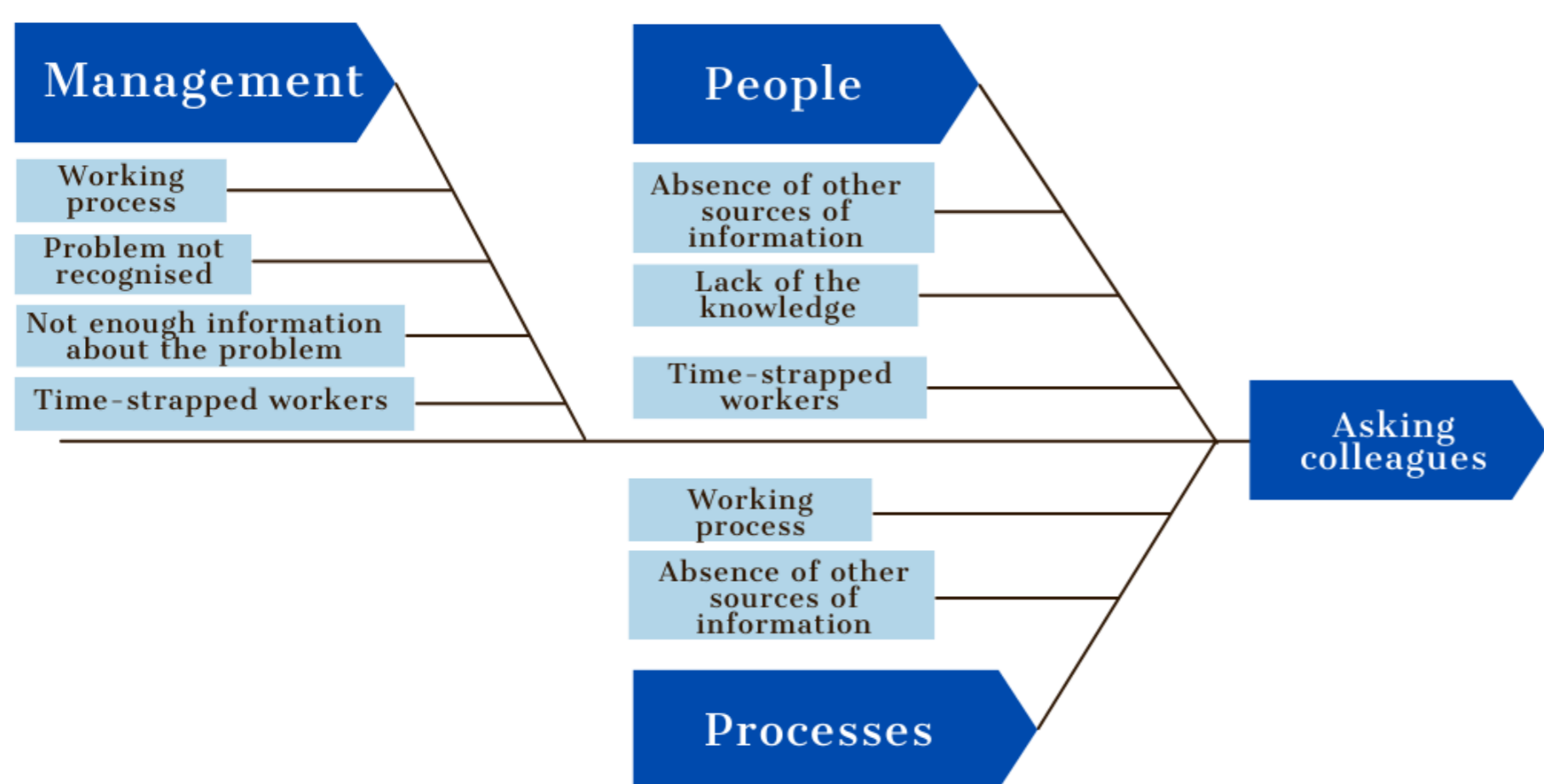
Data of projects

METHODS

DMAIC method from Six Sigma methodology was used for process optimization. The Ishikawa diagram and the 5 Why were utilized as tools within DMAIC. Process was firstly defined and then analyzed with the mentioned tools. During definition phase, the exact goal was set. The primary root cause of the problem was identified in analysis phase. An MS Excel database was created as a tool to achieve the defined goal.



DMAIC method



Ishikawa diagram

CONCLUSION

Dynamic dashboard and database of lessons learned and risk logs were created in the practical part of this theses. Recommendations about the implementation of the database, modification of the documentation of lessons learned, and a proposal of process change were stated at the end of this thesis. The tools created aim to decrease the time needed to acquire certain information in the selected department.