

Divergent Methodology of Decision Harmonization in Project Management of Development

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Abstract: *This work is dedicated to the problems of the project/program subject area planning. The document, which is determining the project/program subject area as the base for the future decision-making about universities development program, was created. This document includes the success estimation criteria of the program (or its parts) finishing.*

Keywords: decision harmonization, divergent methodology, the university development program, estimation criteria of the success project/program finishing.

1. Introduction

1.1 The problem statement

The program subject area planning is the difficulty and multistage process. It contains processes that allow defining all works needed. These works needed for goals and results achievement, and consist of document development that defined program/project the subject area as the future base for making decision harmonization in program management of universities development.

1.2 Objectives of the work

First objective is generalization of gained experience in the integrated information systems implementation. Second objective is theoretical aspect and new approach to development of the subject area planning and timing parameters of the universities development programs. This paper is dedicated to the several problem statements of the project for the programs, which consist of the program substantiation, the project/program main objectives and problems and applying project management methodology for this kind of projects.

2. The Problem Solving

2.1 The problem definition

Creation divergent methodology of decision harmonization in project management of the universities development is documental representation and proofing of the subject area, which contain: reasoning of project/program; main objectives and problems of university development project/program; program/project and its parts success criteria and assessment. The project/program subject area planning is development of the document that defines the subject area of project/program as the basis for future decision-making about this program of university development, including success estimation criteria of program or its parts completion. This document is the basis for agreement between projects team into program and customers, which record objectives of planned results and success estimation criteria of the projects team job. The common problem statement of the topic can be formulated as

shown below

Given:

- description of the results of the university development program;
- set of the documents and information about the approval of the university development program;
- requirements, restrictions and assuming during the university development program implementation.

Required:

- determine the subject area of the program;
- create plan of the project/program subject area management that satisfies conditions of the problem.

2.2 The information is required for topic

The development of the project/program subject area required the following information:

- description of the project/program results. This document describes characteristics of the project/program results – products or services for which this project was started. The results description is clarified and detailed by the degree of the project/program development;
- the formal documents of the project/program approval. Set of the documents which formally approve the project and allows its implementation. These documents usually contain basic information: objectives of the project; description of the project/program main results;
- set of the documents is reason for delegation of authority from company management to project manager with permission to spend company funds for the project/program objectives;
- restrictions, which limit project/program team during implementation. During project implementation, usually limits are financial, labor and material resources, terms and durations, production spaces and technical facilities. Restrictions are also quality requirements of products and services of the university development program, which are creating for technology work, security, ecology and so on. If project is implemented by contract, terms and conditions of the contract are restrictions of project/program;
- assumptions – data that used in planning, considered as

knows, but has a part of uncertainly and risk associated with. Assumption can be described at this stage of project/program implementation or be one of outputs of the stage "risk determination".

2.3 The results are obtained during topic implementation

In development of the subject area of the project/program, it needs to have such input information.

1. Set of the documents, which determine the subject area. These documents contain description of the project/program subject area providing rapport between members during decision-making in various problems. During the project/program development, document that approves the subject area can be changed or corrected and all changes will be mandatory for all project/program members. This set must contains the following documents:

- disclosure of the project/program;
- product of the project/program – brief description of the product;
- results of the project/program – full list of the project/program results, which should be reached till the end of the project/program;
- characteristic of the project/program results – the results of the project/program must have quantitative characteristics: time and funds consumption, quality etc. These characteristics are critical for the project/program succession estimation. Results of the project/program without quantitative description (customer contentment, for example) are risks of the project/program, because in this case the degree of the uncertainty is very high.

2. If any additional information about the project/program subject area arises, it should be described in the simplest way to facilitate it using in other processes of the project management. Additional information always must contain list of all assumptions and restrictions.

3. Plan for the subject area management describes how the subject area of the project/program will be managed and how the changes will be implemented in the project/program. The plan also must contains estimation of the predicted stability of the project/program subject area, i.e. what probability of it changing, how often and how much it can be changed; rules of describing and changing classification of the subject area, it especially hard and necessary.

Plan of the subject area management can be formal or non-formal, detailed or general it depends on the project/program necessary. It is auxiliary document of the consolidated project/program plan.

3. Conclusions

Planning problems of the subject area and time parameters for the projects of a university development were researched. Information needed for the development of the subject area and time parameters of the project/program was defined. Methods and means for determining these components of the project/program were described.

General problem statement of the calendar planning was presented. Problems of the calendar planning were classified. Methods and means for the defining a job list of the project/program were considered. The calendar planning problems resolving were also considered, in particular creation of the optimal job scheduling based on the selected criteria of it estimation (it is the basic problem in the calendar planning).

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Author Profile



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