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TITLE OF DIPLOMA THESIS:

Analysis and Implementation of Agile Processes in Construction

AUTHOR: Mitrakaki Anastasia

ABSTRACT

The management of project's processes, through a completely technocratic and already proven view, whereas only technological constraints and critical paths, rather than restrictions and barriers in project, they suffer enormous complexity by which they are characterized today, and also others problems that might be caused by the human factor e.g. different cultures, human conflicts and thus poor critical partnerships, is outdated and does not always lead to the goal. For example ensuring that the project is executed and delivered as expected, taking into account the defined limitations, while optimizing all parameters affecting - finally - the execution. In this thesis, the effort to implement new alternative methods for managing the project, starting from the adoption of a new principle as regards the objectives of this through the transition from the traditional perception of its purpose, as compliance schedules designed from the beginning till the end, the gradual establishment of stock prioritized requirements and step-by-step implementation of the project with the ultimate purpose of delivering value to the customer, as jointly determined by the cooperation with the client. The Agile Project Management, whose application to engineering projects is investigated, tested already in computing, seems unsuited for use in construction. This is not exactly a lie. The construction in practice, being more than a linear process, and possessing characteristics of a highly complex system, like most systems, moreover, around us, claiming a more flexible administration but while these same characteristics make such an application, unworkable for this in many cases. The Agile Project Management, evolving from several older methods and research, comes to be adjusted in an appropriate manner for construction, more as philosophy than as a method in cases where conventional methods fail to implement efficiently, causing problems in projects. So Agile Project Management in construction comes to fill the gap for management where existing procedures are unable to cope, due to special conditions or construction requirements and not to replace them. It maybe even comes to give a more human dimension to project management, with individual applications even amid conservative procedures, enriching it with more sensitive parameters, and taking as examples of forms of cooperation within the broader societies of our environment, such as ants, bees or flock of birds.

KEYWORDS

Agile, Construction, Project Manager, Human Dimension, Cooperation

