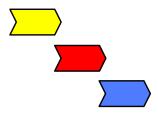
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USING AGILE METHODOLOGY IN ERP-SYSTEM IMPLEMENTATION PROJECTS

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1. Introduction



1. Cascade

Implementation models

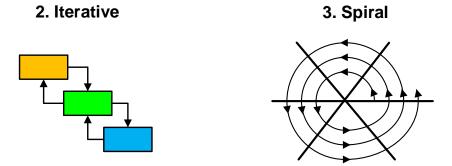


Fig. 1. Classical implementation models

2. Problem statement

The purpose of study is analyzing Agile based methods can be used in ERP-system implementations to reduce project costs, man-days and duration. Following tasks will be performed to achieve the goal:

- considering differences between corporate information systems and other applications;
- exploring incremental and spiral implementation approaches;
- mapping Agile principals with ERP-system implementations.

3.1. Overview of ERP-systems

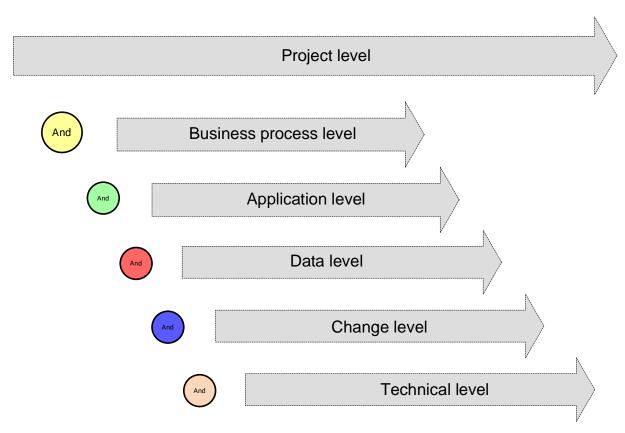


Fig. 2. Levels of implementation ERP-system

3.2. Overview of Agile methodology

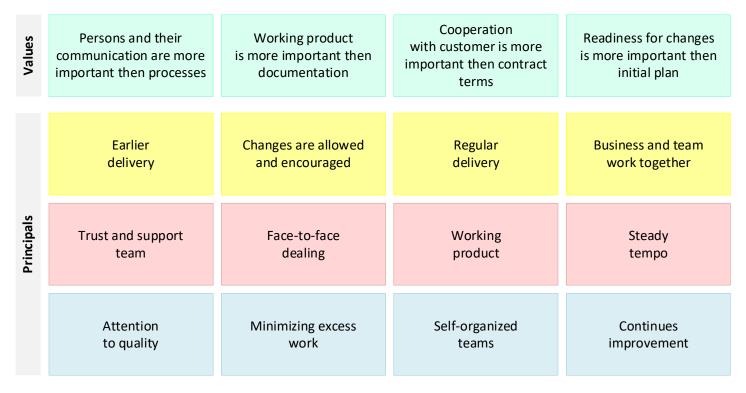


Fig. 2. Agile values and principals

4.1. Implementation of Agile principals in ERP-projects: earlier, regular delivery and working program

Statement 1. Earlier, regular and workable delivery principals of Agile methodology are not relevant for rollout and from the scratch ERP-projects. However, it can be applied in evolution ERP-projects, where core system has already been deployed and fine-tune modification needed. In this case Agile can drive fast and flexible solution delivery.

4.2. Implementation of Agile principals in ERP-projects: continues face-to-face demonstration

Statement 2. Due to restricted number of business objects used for ERP-system developing and limited variations how requirements can be customized, continues demonstration of product will not bring much value for any type of ERP-project.

4.3. Implementation of Agile principals in ERP-projects: changes are allowed and encouraged

Statement 3. Changes in requirements are not encouraged in ERP-projects from the scratch and rollouts. Due to ERP is a core system, to make it run only obligatory requirements will be realized.

5.1. Using one and multi-pass models in ERP-projects

TABLE 1. PERCENT OF USING ONE AND MULTI-PASS MODELS

ERP project	Number	One-	Multi-
type	of projects	pass	pass
From the	2	3	
scratch	3	(100%)	
Rollout	5	5	
Konout	3	(100%)	
Explution	2	2	1
Evolution	3	(66%)	(34%)

5.2. Evaluation

Statement 4. Agile methodology can be widely used in ERP-projects only if it's adopted for rollout and from the scratch projects. Currently it's too expensive to drive rollout and ERP-projects from nothing based on waterfall implementation model, then transform team for evolution projects, where Agile is used nowadays.

6. Conclusions

- In this paper we have considered Agile methodology and its usage in ERP-system implementation projects. Key differences between ERP-system and other applications were discussed.
- A brief review of multi-pass methods was done to underline its strong points. Key Agile principals were mapped with ERP projects to understand if multi-pass model was applicable.
- It was shown the original idea of Agile was far away from complex ERP-system implementation. As a result, about 10% of ERP implementation projects are driven by Agile-based methods, mostly for modification of already existing system.

Thank you!

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