The role of knowledge management in agile software development

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A software engineering project depends significantly on team performance, software is created by people for people involving human cooperation. In the last years, the tradicional software development approaches are changing and agile methods have received considerable appreciation. Among other attributes, the agilists claim that knowledge sharing is one of the keys to response to common problems and challenges of software development today. The agile principles and values have emphasized the importance of collaboration and interaction in the software development and, by other hand, creative work commonly involves collaboration in some form and it can be understood as an interaction between an individual and a sociocultural context. Agile methods had attained worldwide fame for its ability to increase the productivity of software teams by several magnitudes through empowering individuals, fostering a team-oriented environment, and focusing on project transparency and results. Particularly relevant are the team structure (creative and agile roles) and its functioning (creative techniques used). © Springer-Verlag Berlin Heidelberg 2013.

Agile Development

Creative teams

Creativity

Knowledge Management

Software Engineering

Human computer interaction

Knowledge management

Software design

Software engineering

Agile development

Agile software development

Creative teams

Creativity

Problems and challenges

Sociocultural context

Software development approach

Software engineering projects

Human resource management