SINTEZA 2025

INFORMATION TECHNOLOGY SESSION

THE PROBLEMS AND SOLUTIONS DURING AGILE TEAMS MEETINGS IN IT COMPANIES – A LITERATURE REVIEW

Maja Gaborov^{1*}, [0000-0002-3810-6156]

Nada Ratković Kovačević², [0000-0001-6398-4391]

Dragan Kreculj², [0000-0003-3268-4024]

Mihajlo Mulić³ [0009-0004-7448-0286]

¹University of Novi Sad, Technical Faculty "Mihajlo Pupin", Novi Sad, Serbia

²The Academy of Applied Studies Polytechnic, Belgrade, Serbia

³Alianza, inc, Novi Sad, Serbia

Correspondence:

Maja Gaborov

e-mail: maja.gaborov@tfzr.rs

Abstract:

The paper gives a literature review regarding the problems faced by IT (Information Technologies) companies during meetings of agile teams. The goal of the paper is to identify existing issues and propose potential solutions. Existing problems identified through the literature review were: lack of focus, engagementand transparency; technological difficulties, and conflicts in the team. Lack of focus is often the result of poorly structured meetings without defined goals, and lack of engagement leads to poor communication and unproductive discussions. Technological issues can disrupt the flow of meetings, and a lack of transparency can lead to team confusion. Conflicts in the team negatively affect the atmosphere and productivity.

A literature search was performed using selected academic databases. Abstracts of identified references were reviewed to assess their relevance. Selected studies were analysed to extract data on agile meeting challenges and solutions. Findings from different sources were synthesized to develop a comprehensive overview of issues and corresponding solutions. Suggested solutions include: conducting short, well-structured meetings; encouraging active participation of all team members; using stable technological solutions; regularly establishing open communication channels for conflict resolution. The results obtained indicate the need to improve agile meetings and consequently to enhance the performance of agile teams.

Keywords:

Agile Meetings, Agile Teams, IT (Information Technologies) Companies, Problems, Solutions.

INTRODUCTION

Agile methods have become crucial in software development due to their flexibility and focus on rapid adaptation to changes [1]. Agile teams are self-organized, cross-functional teams that work together to deliver value through iterative development [2]. Agile meetings are regular meetings that allow teams to discuss progress, challenges, and plans [3]. They promote communication and continuous improvement. Agile meetings are important for maintaining team cohesion and productivity.

The goal of this paper is to present the overview of the team problems in agile meetings and to suggest potential solutions relevant for IT companies which were found through a literature review.

Agile meetings often run into problems that can compromise team effectiveness [4]. Agile team meeting issues are extremely important for IT (Information Technologies) companies. Meetings must be effective because they are the basis for coordinating activities in agile teams. Due to the ineffectiveness of the meetings, there may be a loss of time and resources, which can then affect the development of the project [4]. Effective communication is key for teams. Difficult communication and communication problems can lead to misunderstandings, errors in work, and ultimately to a drop in the company's productivity [5]. It is desirable that the team members as well as teams cooperate with each other and support each other. If there are problems in the meetings, it can affect the team dynamics making it bad or disrupting it which can ultimately diminish team motivation [6].

It is necessary for the meetings to be productive, to identify problems and to respond to those problems in a timely manner in order to prevent or alleviate delays in the realization and delivery of the project [7]. Lack of clear guidelines and inconsistency among team members can lead to mistakes that could have been avoided with more efficient planning of meetings [8]. Poor communication in meetings can lead to conflict among team members, which can create a bad atmosphere in the working environment[9].

Effective meetings also assume that clients are timely informed about the progress of the project and that their feedback is taken into account, which would increase their satisfaction. Addressing these issues can improve the performance of agile teams, and thus the overall success of an IT company [10].

2. METHODOLOGY

The aim of this paper is to present team problems, during agile meetings in IT companies. After that, solutions to the problems are also explored and suggested. In order to find problems, and potential adequate solutions, literature search methodology is applied [11].

Based on the research objective, the research questions we defined are:

- RQ1: What are the common problems agile teams face during agile meetings?
- RQ2: What potential solutions can be proposed to solve these identified problems in agile meetings?

A literature search was performed using the following academic databases: Google Scholar, IEEE Xplore, ACM Digital Library, Springer, Wiley Online Libraries. A combination of keywords such as "agile meetings", "agile team questions", "focus on agile meetings", "engagement in agile teams", "technology issues in meetings", "transparency in agile teams" and "team conflicts in agile development" was used. The books, studies and articles published over the last 20 years were included to be investigated further, with an emphasis on those not later than the last 10 years, which deal with problems and solutions in agile teams and meetings. Papers that did not directly engage in the exploration of agile methodologies, or did not provide empirical data or articles that were not peer-reviewed were excluded. The abstracts of identified papers and other sources were reviewed to evaluate relevance. Relevant papers were selected and detailed information on the problems and proposed solutions gathered. Findings from various sources were organized and synthesized in order to include all problems and corresponding solutions in the review paper.

3. IDENTIFICATION AND OVERVIEW OF CHALLENGES IN AGILE TEAMS

Agile meetings are designed as efficient, focused and collaborative events. They are specified by emphasizing dynamic communication and adaptability. In agile teams, it's easy for participants to drift off topic, which can waste valuable time and reduce the overall effectiveness of the meeting. Lack of focus can be result of poorly structured meetings without clear objectives. In order to solve this issue, it is recommended to conduct wellorganized meetings with defined goals and time limits. The approach like this can help ensure that the team remains focused on the task and maximizes the use of meeting time [12], [4].

Lack of team member engagement can lead to ineffective communication and unproductive conversations. When team members are not actively participating, the meeting may not achieve the desired results. It is necessary to foster a way of conduct and an environment in which each team member is encouraged to actively participate. This can be achieved by involving team members more e.g. through questions and by encouraging them to contribute to discussions. In this manner improving overall engagement and productivity would be achieved [13], [14]. Problems such as a poor Internet connection or inadequate video conferencing tools can disrupt the flow of a meeting, in case the hybrid form is chosen, making it difficult for participants to communicate effectively. These disruptions can interfere with a team's ability to collaborate and make decisions. It is important to use reliable video conferencing tools and have options to resolve any technical difficulties that may arise during the meeting [15], [16].

A lack of transparency can lead to confusion and reduced team productivity, as it may not be clear to team members what is expected of them. Sharing information about progress and task priorities can help ensure that all team members are on the same page and understand the current state of the project being developed[17], [18]. Differing opinions and unresolved disputes can create a negative environment, hindering collaboration and effective decision-making. In order to resolve this issue, it is crucial to establish open channels of communication where conflicts can be resolved constructively. Promoting team spirit and encouraging collaboration can also help minimize conflict and maintain a positive and productive meeting environment [19], [20].

Table 1 summed up overview of the essential challenges in agile meetings, and possible adequate solutions.

Related previous work is in [21], [22],[23], [24]: analysis and development of a conceptual framework for dealing with agile meetings' problems [21], and of job satisfaction in scrum teams [22], investigation on IT experts' attitude regarding frequency of agile meetings [23]. Additional communication challenges in agile meetings are elaborated in [24].

4. DISCUSSION

Agile meetings often have several challenges that can impede team productivity and satisfaction. The discussion provided here focuses on identifying the main problems frequently arising during agile meetings, as well as on suggesting potential the solutions to these problems. The authors of the paper agree with the relevance of the problems identified and solutions proposed. The authors also suggest several additional/ alternative solutions:

- Organizing meetings with a clearly defined agenda and goals. This also ensures that the meeting is not delayed and that the meeting is implemented in accordance to the agenda; It may be of importance that the manager is experienced, to pay more attention to these items, because if the team members are dissatisfied with the implementation of the agenda and if the deadline and duration of the meetings is broken, it can lead to many problems and all these can reduce the productivity of the team members;
- 2. Encouraging the active participation of all team members during the meeting; Team members should support each other by finding the right way to collaborate according to the characters of the team members; The manager must be familiar with his team members and their characters; He or she needs to motivate his or her colleagues to attend meetings actively and work efficiently together;

Challenge	Sources	Description	Solution
Lack of Focus	[12], [4]	Lack of focus during agile meetings can significantly reduce their effectiveness. Team members can get off topic, wasting valuable time.	Implementing short, well-structured meetings with clearly defined goals and time limits can help maintain focus.
Lack of Engagement	[13], [14]	A lack of team member engagement during meetings can lead to poorer communication and less productive discussions.	Encouraging the active participation of all team members through asking questions and engaging in discussion can significantly improve engagement.
Technological Challenges	[15], [16]	Technical issues such as poor the internet connectivity or inadequate video conferencing tools can hinder agile meetings.	Using reliable access to internet, stable video conferencing tools and providing backup options to deal with technical difficulties can reduce these problems.
Lack of Transparency	[17], [18]	Lack of clarity regarding tasks and goals can lead to confusion and reduced team productivity.	Regular sharing of information on progress and priorities can improve transparency.
Team Conflicts	[19], [20]	Different opinions and conflicts can negatively affect the atmosphere and productivity during meetings.	Establishing open communication channels to resolve conflicts while fostering team spirit and cooperation can help reduce conflicts.

Table 1. Overview of challenges in agile meetings, and corresponding solutions

- 3. Using reliable technological solutions and tools for communication; Software tools need to be made available to employees so they can also work and collaborate from home, thus, employees will be more engage and motivated to work; and
- 4. Establishment of open channels for communication within the team to resolve conflicts and eliminate doubts; Team members need to be motivated regularly or frequently, which would reduce the chances of conflicts and dissatisfaction within the team; If team members cannot resolve issues and misunderstandings themselves, the manager needs to react in a good way – as a leader rather than a boss.

The proposed solutions aim to improve the effectiveness of agile meetings. However, limitations to these approaches exist. It is of importance that all these should be considered when analysing the problem.

The limitations to the proposed solutions are as follows:

- 1. Not all team members may feel comfortable with active participation and initiatives during meetings;
- 2. Technological problems may still occur despite the use of the available tools;
- 3. Conflict resolution methods may not be guaranteed to be effective in all cases of team dynamics; and
- 4. Although the agile approach is more than 20 years old and certified trainings in agile methodologies exist there is still a need to gain better insight regarding its successful implementations in practice and to conduct further research to provide ways to ensure this.

5. CONCLUSION

Agile meetings are one of the crucial activities in contemporary IT companies, driving efficiency, collaboration and adaptability. Identifying, understanding and resolving the issues that arise in agile meetings is key to improving team productivity. To improve collaboration among team members, to help facilitate communication, and create a more efficient work environment several solutions are proposed in the existing literature and here which all can contribute to achieve better overall results.

Suggestions were added to the existing solutions which are valuable, thus expanding the study. They indicate that further investigation is needed to identify more problems and derive corresponding solutions. By analysing specific meetings in details, teams can effectively implement agile methodologies and improve their project outcomes.

In the future, it is necessary to examine whether there are any additionalchallenges during meetings of agile teams in IT companies, and to find out whether IT experts would suggest some of their personal solutions to eliminate or avoid these problems. All this can help to increase the satisfaction of employees and customers, boost teams' productivity, and the successful implementation of projects in companies.

In IT companies, where rapid development and adaptability are crucial, successful agile meetings can have a vital role to ensure that projects are delivered efficiently and effectively. Essentially agile meetings are designed to promote effective communication, collaboration and continuous improvement, enabling the agile teams to deliver timely solutions of appropriate values.

REFERENCES

- K. Beck, M. Beedle, A. van Bennekum, A. Cockburn, W. Cunningham, M. Fowler, J. Grenning, J. Highsmith, A. Hunt, R. Jeffries, J. Kern, B. Marick, R. C. Martin, S. Mellor, K. Schwaber, J. Sutherland and D. Thomas, *Manifesto for agile software development*. Wasatch mountains, Utah, USA: Agile Alliance, 2001.[Online]. Available: https://agilemanifesto.org/
- [2] A. Cockburn and J. Highsmith, "Agile software development: The people factor,"*Computer*, vol. 34, no. 11, pp. 131-133, Nov. 2001. doi: https://doi.org/10.1109/2.963450.
- [3] J.Sutherland, Scrum: The Art of Doing Twice the Work in Half the Time. 1st ed. New York, New York, USA: Crown Business, 2014.[Online]. Available: https://www.agileleanhouse.com/lib/lib/News/ More_Praise_for_Scrum_The_Art_of_Doing_T. pdf.
- [4] K. Schwaber and J. Sutherland, *The Scrum Guide* - *The Definitive Guide to Scrum: The Rules of the Game*.USA: Ken Schwaber & Jeff Sutherland, Scrumguides.org, 2020.[Online]. Available: https:// scrumguides.org/docs/scrumguide/v2020/2020-Scrum-Guide-US.pdf.
- [5] M. Drury, K. Conboy and K. Power, "Obstacles to decision making in Agile software development teams," *Journal of Systems and Software*, vol. 85, no. 6, pp. 1239-1254, June 2012. doi: https://doi. org/10.1016/j.jss.2012.01.058,[Online]. Available: https://www.sciencedirect.com/science/article/pii/ S0164121212000374.

SINTEZA 2025

- [6] C. de O. Melo, D. S. Cruzes, F. Kon and R. Conradi, "Interpretative case studies on agile team productivity and management,"*Information and Software Technology*, vol. 55, no. 2, pp. 412-427, Feb. 2013. doi: https://doi.org/10.1016/j.infsof.2012.09.004, [Online]. Available:https://www.sciencedirect.com/science/article/pii/S0950584912001875, [Online]. Available:https:// www.ime.usp.br/~kon/papers/IST_Melo_2013.pdf
- P. Serrador and J. K. Pinto, "Does Agile work? A quantitative analysis of agile project success," *International Journal of Project Management*, vol. 33, no. 5, pp. 1040-1051, July 2015.doi: https:// doi.org/10.1016/j.ijproman.2015.01.006,[Online]. Available:https://www.sciencedirect.com/science/ article/abs/pii/S0263786315000071.
- [8] H. Sharp and H. Robinson, "An Ethnographic Study of XP Practice," *Empirical Software Engineering*, vol. 9, pp. 353–375, Dec. 2004. doi: https://doi. org/10.1023/B:EMSE.0000039884.79385.54.
- [9] E. Hossain, M. A. Babar and H. -y. Paik, "Using Scrum in Global Software Development: A Systematic Literature Review," in *Proc. 2009 4th IEEE International Conference on Global Software Engineering*, Limerick, Ireland, July 13-16 2009. pp. 175-184, doi: https://doi.org/10.1109/ICGSE.2009.25.
- [10] S. Sarker, C. Munson, S. Sarker and S. Chakraborty, "Assessing the Relative Contribution of the Facets of Agility to Distubuted ISD Success: An Analytic Hierarchy Process Approach," *European Journal of Information Systems*, vol. 18, no. 4, pp. 285-299, 2009.
- [11] B. Kitchenham and S. Charters, "Guidelines for performing systematic literature reviews in software engineering," Keele University and Durham University Joint Report, Keele and Durham, United Kingdom EBSE Technical Report EBSE-2007-01, 2007.[Online]. Available:https://cs.ecu.edu/gudivada/research/papers/ guidelines-for-se-literature-reviews-summary.pdf
- [12] H. Kniberg and M. Skarin, Kanban and Scrum Making the Most of Both. USA: C4Media, Publisher of InfoQ.com, 2010.[Online]. Available:https:// www.infoq.com/minibooks/kanban-scrum-minibook/, [Online]. Available:https://www.agileleanhouse.com/lib/lib/People/HenrikKniberg/KanbanAndScrumInfoQVersionFINAL.pdf
- [13] E. Gottesdiener, Requirements by Collaboration: Workshops for Defining Needs, Boston, Massachusetts, USA: AddisonWesley, 2002.
- [14] E. Derby and D. Larsen, Agile Retrospectives: Making Good Teams Great, Raleigh, North Carolina and Dallas, Texas, USA: Pragmatic Bookshelf, 2006.
 [Online]. Available:https://agile.2ia.net/Agile%20 Retrospectives.pdf
- [15] A. Stellman and J. Greene, *Learning Agile: Understanding Scrum, XP, Lean, and Kanban*, Sebastopol, California, USA: O'Reilly Media, Inc., 2014.[Online]. Available: https://ecole-management.com/BOOKS/2.pdf
- [16] J. Bablo, B. Marcinkowski and A. Przybylek, "Overcoming Challenges of Virtual Scrum Teams: Lessons Learned Through an Action Research Study,"

In: Stettina, C. J., Garbajosa, J., Kruchten, P. (eds) *Agile Processes in Software Engineering and Extreme Programming*, XP 2023, Lecture Notes in Business Information Processing - LNBIP, Cham, Switzerland: Springer, vol. 475, pp. 34–49, 2023. doi: https://doi.org/10.1007/978-3-031-33976-9_3

- [17] C. Larman, *Agile and Iterative Development: A Manager's Guide*,Boston, Massachusetts, USA: Addison-Wesley, 2004.
- [18] K. S. Rubin, Essential Scrum: A Practical Guide to the Most Popular Agile Process, Upper Saddle River, NJ, Boston, Indianapolis, San Francisco, New York, Toronto, Montreal, London, Munich, Paris, Madrid, Capetown, Sydney, Tokyo, Singapore, Mexico City, USA & International ed.Addison-Wesley& Pearson Education, Inc., 2012.
- [19] L. Adkins, Coaching Agile Teams: A Companion for ScrumMasters, Agile Coaches, and Project Managers in Transition, Upper Saddle River, NJ, Boston, Indianapolis, San Francisco, New York, Toronto, Montreal, London, Munich, Paris, Madrid, Capetown, Sydney, Tokyo, Singapore, Mexico City, USA & International ed.:Addison-Wesley& Pearson Education, Inc., 2010.
- [20] T. DeMarco and T. Lister, *Peopleware: Productive Projects and Teams*,3rd ed., Upper Saddle River, NJ, Boston, Indianapolis, San Francisco, New York, Toronto, Montreal, London, Munich, Paris, Madrid, Capetown, Sydney, Tokyo, Singapore, Mexico City, USA & International ed.: Addison-Wesley & Pearson Education, Inc., 2013.
- [21] M. Gaborov, Ž. Stojanov and S. Popov, "Thematic analysis and development of a conceptual framework for agile meetings' problems," *Journal of Engineering Management and Competitiveness - JEMC*, vol. 13, no. 1, pp. 61–70, June 2023.doi: https:// doi.org/10.5937/JEMC2301061G[Online]. Available: https://scindeks-clanci.ceon.rs/data/pdf/2334-9638/2023/2334-96382301061G.pdf
- [22] M. Gaborov, D. Kovač, N. Tasić, D. Kreculj and N. Ratković Kovačević, "Job Satisfaction in Scrum Teams," in: Proceedings of the 5thVirtual International Conference on Path to a Knowledge Society-Managing Risks and Innovation - PaKSoM 2023, On-line &Niš, Serbia, Oct. 23-24 2023, pp. 335-339.
- [23] M. Gaborov, Z. Stojanov, S. Popov, D. Kovac, I. Vecstejn, G. Jotanovic and G. Jausevac, "Investigating IT Experts' Attitudes Toward the Frequency of Agile Meetings: A Thematic Analysis,"in: Proceedings of the 14thInternational Conference on Applied Internet and Information Technologies - AIIT 2024, Zrenjanin, Serbia, Nov. 8 2024, pp. 200-207. [Online]. Available:http:// www.tfzr.rs/aiit/files/AIIT2024%20Proceedings.pdf
- [24] M. Gaborov, M. Kovačević, N. Tasić, D. Kreculj, N. Ratković Kovačević and D. Kovač, "Communication Challenges in Agile Meetings,"in: Proceedings of the 14thInternational Conference on Applied Internet and Information Technologies - AIIT 2024, Zrenjanin, Serbia, Nov. 8 2024, pp. 334-340. [Online]. Available:http://www.tfzr.rs/aiit/files/ AIIT2024%20Proceedings.pdf