

# **What communication difficulties does a distributed development team face using Agile, furthermore what methods are there to improve this?**

**COMP150 - Agile Essay**

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Agile methods require constant effective communication of the development team in order to work effectively, there are a wide range of communication methods that are available, such as; video conferencing, telephone and instant messaging. This paper will address which method of communication will be most appropriate for game developers and the problems that occur with using such methods.

## **1 Introduction**

This paper reviews the adoption of the Agile/scrum development method, and the problems it encounters when it is being used with distributed teams.

Agile is a set of principles, which allows for change and constant iteration of software in development. One of the principles of scrum, which is an agile development method, is that it should have daily communication between the team members [1], in the form of a daily stand up meeting. This is where each member tells the scrum master what they will work on that day, what they have been working on and any problems they are encountering.

This method of working has become very popular with game developers, so this paper aims to address how communication between teams that are working in different locations can be improved.

Face to face communication is suggested to be the most effective form of communication [2]. However as this is not possible, this paper will propose alternatives to aid in distributed teams.

## **2 Communication issues and possible solutions**

### **2.1 Communication issues**

One common communication issue with new game developers that are adhering to scrum, is that the developers will tend to act as the product owner and try to “improve” the design without consulting the product owner [3]. This miscommunication can lead to a product that was not desired by the product owner, and the failure of a project.

Story cards and social activity are key to the success of co-located teams [1].

Another issue with scrum is that it can be too cumbersome to follow and keep everyone updated [4]. This can become an issue when teams are using multiple forms of communication, and then developers may have to repeat themselves on multiple communication tools, such as trello, slack and email.

Another very common communication issue is that the daily scrum meetings are unable to happen, for example the developers are located in different locations as in the case of scharffs paper [4]. In this paper they have a team of students located around the world and various communication issues occurred, including team members being absent for most of the scrum meetings.

Here is a list of the main possible communication issues [2]:

1. Culture
2. Language
3. Working Hours
4. Lack of Face-to-Face contact
5. Low quality communication medium
6. Unprepared communication tools
7. Miscommunication of Requirement

Communication with people of different cultures and languages is a big cause of communication issues, and one that is hard to avoid when working in a distributed team [5].

The story cards consist of three parts, *the card, conversation and confirmation* [1], This means when a card gets put up on a communication tool, e.g. trello, the teams should discuss the card to ensure that everyone is in agreement about what it means.

## **2.2 Alternative solutions to help improve communication for distributed teams**

Results show that passive modes of communication are preferred for distributed teams and active forms are preferred for localized teams. [2]

The paper *Agile Communication Model for Distributed Software Development* [6] proposes an agile model that apparently works in a distributed environment efficiently. This method involves intra and inter pair programming among the distributed members. This could be a very effective solution for distributed game developers as typically game development is formed of a few different departments, such as Art, Design, programming etc.. This means that each department would have a Proxy Customer (PC) that would communicate the requirements of the game from the customer/product owner and share the requirements of the product within their own team. 1

Olly Brand talks brings up some interesting points at the Agile-on-the-Beach conference [7] Post it notes are key to the agile process and need to be replaced says

Agreed active and passive forms of communication such as video conferencing (Active) E-Mail (passive) [2]

Social media tools such as Facebook and Slack are good at sharing knowledge to your team [7], and are an effective way to bridge the gap between active and passive forms of communication.

As Mike Cohn and Doris Ford say, “bring as many people as possible together for the first week or two of the project can increase the likelihood of success.” [5] as the first few weeks of a project normally requires the most amount communication, so having face-to-face communication to get across the overall idea and aim of the project will help reduce confusion later in the project.

Establish a routine and stay organized to be productive. [7]

### **3 Conclusion**

conclusion incomplete. . .

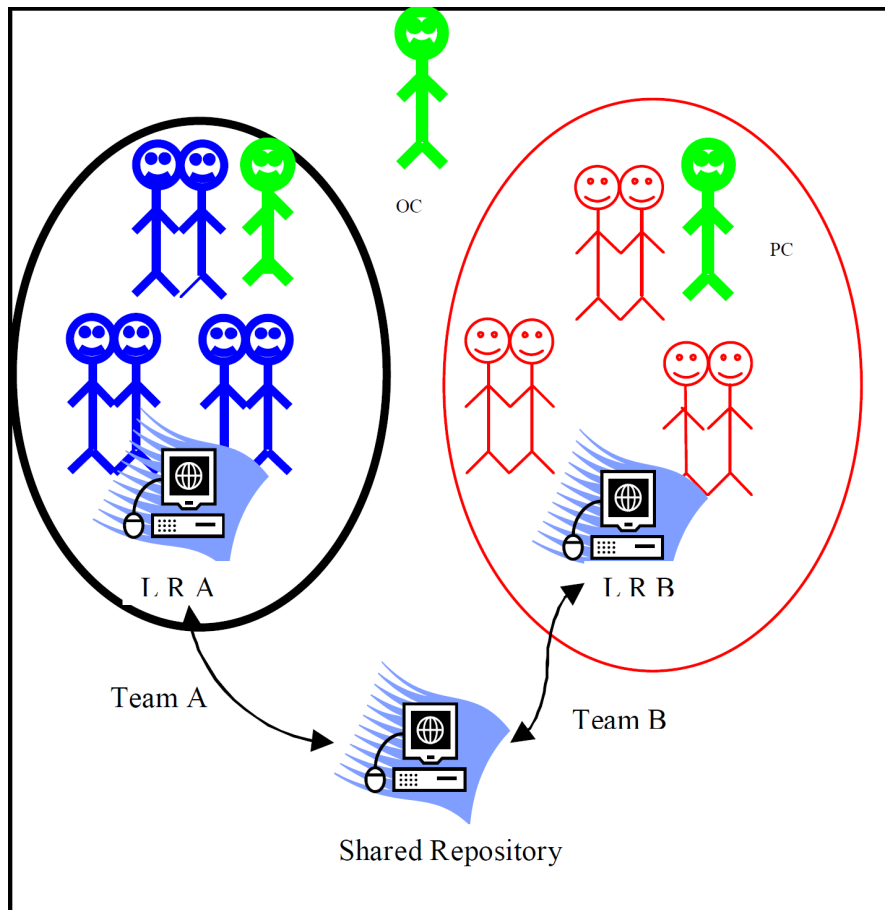


Figure 1: Bhalerao Agile Communication Model [6]

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