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EVIDENCES OF BENEFITS AND LIMITATIONS OF AGILE SOFTWARE DEVELOPMENT ON BRAZILIAN SOFTWARE COMPANIES

This briefing reports empirical evidence of benefits and limitations found of Agile Software Development of two Brazilian software companies.

FINDINGS

10 MORE COMMONS PERCEPTIONS OF BENEFITS OF AGILE SOFTWARE DEVELOPMENT:

1. Facilitated project monitoring and tracking
2. Facilitated interaction and collaboration
3. Improved communication
4. Improved project understanding
5. Fosters knowledge sharing within the team members
6. Quick/Frequent feedback
7. Facilitated problem-solving
8. Improved quality
9. Problems are discovered/solved earlier
10. Improved software development process

10 MORE COMMONS PERCEPTIONS OF LIMITATIONS OF AGILE SOFTWARE DEVELOPMENT:

1. Difficulty working with User Stories
2. Difficulty working with large teams
3. Increased specialization of team members
4. Interference of Product Owner with technical skills
5. Increased time of activities
6. Difficulty working with a very closed person
7. Difficulty applying/adapting the method/practice

8. Difficulty showing progress in projects that do not have GUI
9. Difficulty working with non-agile people
10. Requires maturity, commitment, and pro-activeness from team members

5 MORE COMMON AGILE SOFTWARE PRACTICES AND METHODS RELATED TO BENEFITS:

1. Sprint Planning
2. Daily Scrum Meetings
3. Pair Programming
4. Task board
5. TDD

5 MORE COMMON AGILE SOFTWARE PRACTICES AND METHODS RELATED TO LIMITATIONS:

1. Sprint Planning
2. Daily Scrum Meetings
3. Shared Goals and Problems
4. Sprint Review
5. TDD
6. Real Customer Involvement

Keywords:

Agile Software Development
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Interviews

Who is this briefing for?

Agile practitioners and Researchers to a better understand which benefits and limitations can be found in specific context of software projects with the use of Agile Software Development.

Where the findings come from?

All findings of this briefing were extracted of qualitative research employed semi-structured interviews conducted by Kamei et al.

What is included in this briefing?

The main findings of the original study.

What is not included in this briefing?

Complete list of benefits and limitations.
Examples of transcript portions that explain of which situation the findings were found.

ORIGINAL STUDY REFERENCE

Link to paper:

Kamei, F. K. et al. On the Benefits/Limitations of Agile Software Development: An Interview Study with Brazilian Companies. EASE '17, 2017.