





Towards Understanding Technical Responses to Requirements Changes in Agile Teams

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Introduction

- Agile software development aims to improve the customer's competitive advantage by implementing the principle 'welcome changing requirements, even late in development' [1].
- Requirements engineering (RE) practices are performed in every iteration using agile RE techniques that aim to preserve the agile value 'responding to change over following a plan' [1].
- We wonder how agile practitioners **respond to requirements changes** in the real world?
- As a part of an extensive study on exploring the most appropriate techniques to handle requirements changes in agile development, we conducted a **pilot study** to understand how agile teams respond to requirements changes.
- Our pilot study identified that agile teams perform various practices and techniques which we call "technical responses" at three stages, when receiving, developing, and delivering) requirements changes. These responses are technical activities as opposed to social activities the team perform to try and incorporate the changes.

This Poster Answers:

How do agile teams *technically* respond when receiving requirements changes?

Our Approach

Grounded Theory (GT) is used in studies where social interactions and human behaviors are studied [2]. Our focus was to understand how agile teams respond to requirements changes, we determined that GT(Fig. 1) was appropriate to conduct our research.

- Participants: 10 agile practitioners (n=8 Nz; n=2 Au)
- Participant recruitment via: LinkedIn, Twitter, Meetups, Facebook
- Data collection: 50-60 min. semi-structured interviews (n=7 face-to-face; n=3 Skype and Zoom) + pre-interview questionnaire
- Data analysis: Open coding →Constant Comparison →Theory

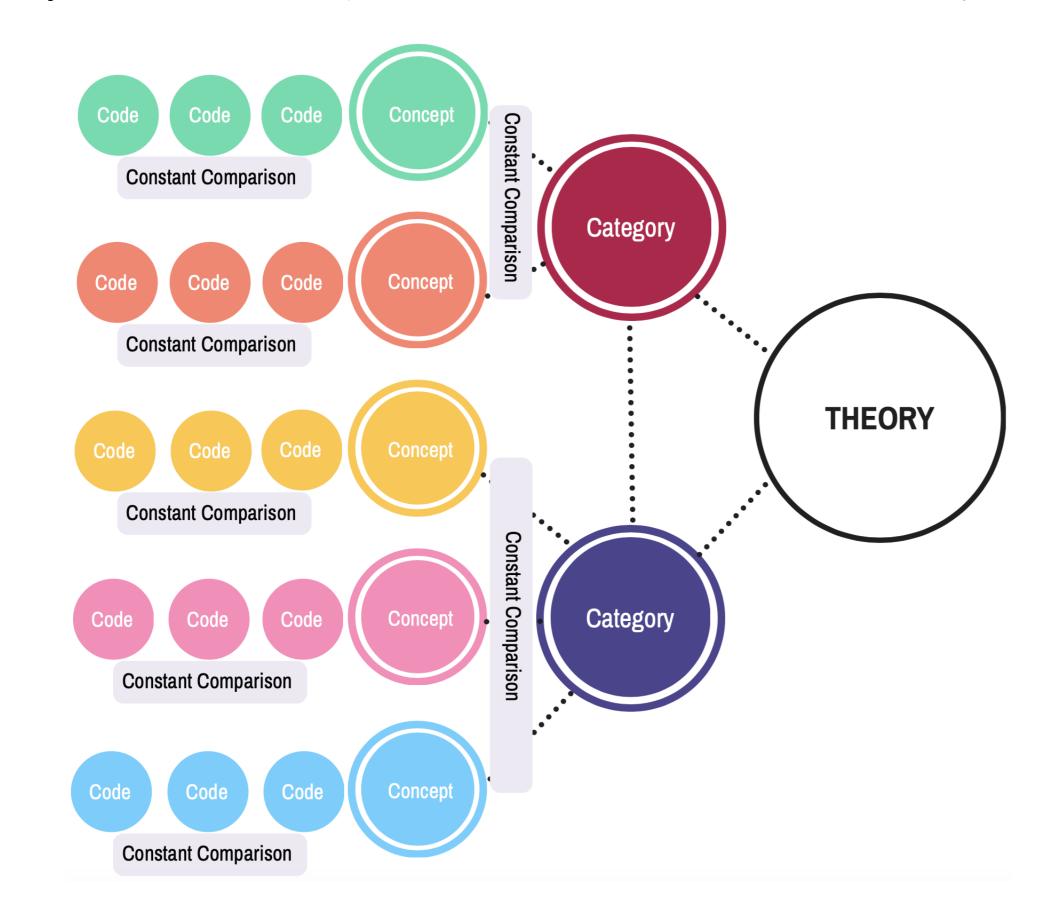


Figure 1:Grounded Theory

Our Findings

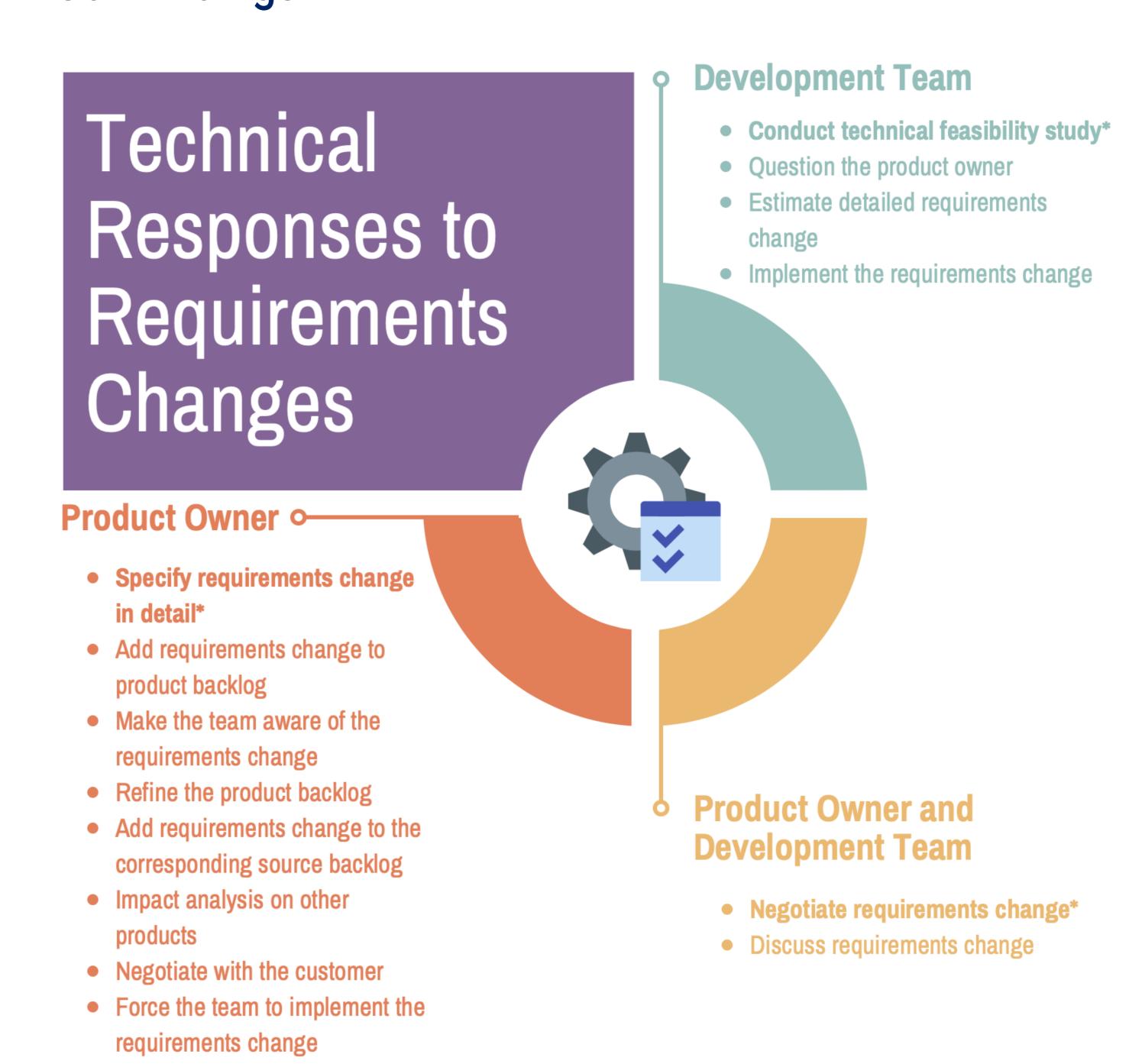


Figure 2:Technical Responses by Agile Roles when Receiving Requirements Changes (*: most common technical response)

Future Work

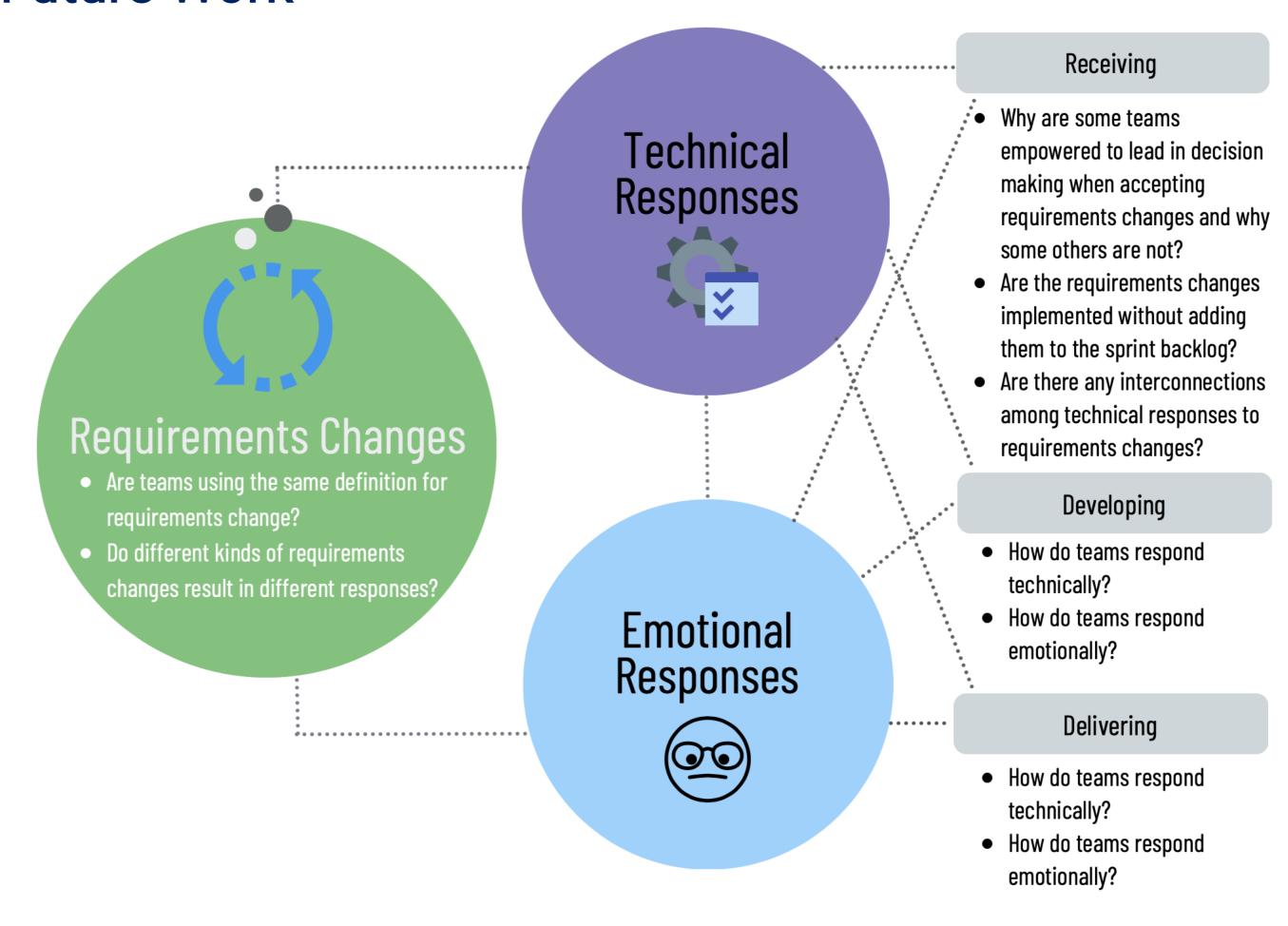


Figure 3:Future Work

References

- [1] Beck et al. Manifesto for Agile Software Development, 2001. URL: https://agilemanifesto.org/.
- [2] Barney Glaser and Anslem Strauss. Grounded Theory: The Discovery of Grounded Theory. 1967.

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