

THE INFLUENCE OF MOTIVATION ON REQUIREMENTS ENGINEERING (RE)

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At a glance



Goal

Obtain a comprehensive understanding of the impact of motivation on requirements engineering (RE)-related activities.



Strategies

- Conduct 21 in-depth interviews of software practitioners predominantly involved in RE-related activities.
- Use Socio-Technical Grounded Theory (STGT) to analyse the data
- Develop a preliminary theoretical framework to describe the impact of motivation on RE.

Key outcomes



A framework to describe the impact of motivation on RE

The preliminary theoretical framework covers motivating/demotivating factors, strategies and consequences that impact the influence of motivation.



Motivating and demotivating factors that impact RE

We identified motivation factors and categorised them as technical, collaborative and human, socio-technical and social.



Strategies to address factors

We developed 17 strategies reinforce positive impacts and overcome negative ones.

Key outcomes



Examples of motivating (+) and demotivating (-) factors included:

- Technical – (+) comprehensive RE, (+/-) requirement changes, (-) unclear requirements
- Individual – (+) job satisfaction, (+/-) language & communication, (-) personal issues
- Team – (+) supportive team members, (+/-) feedback, (-) team conflicts
- Customers – (+) cooperative customers, (-) difficult to handle customers
- Socio-technical – (+) project diversity, (+/-) domain knowledge
- Social – (+) benefit for the society, (+/-) gender biases



The strategies identified to address the factors included exposure to experiments, rebuild collaboration, open and individual discussions and flexible task delegation.



10 positive consequences identified of adopting the strategies above such as effective process, fewer conflicts better product quality and stronger customer engagement.

Learn more

To discover more about this project, contact Dr [Dulaji Hidellaarachchi](#) or scan the QR code.



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