

Seminars

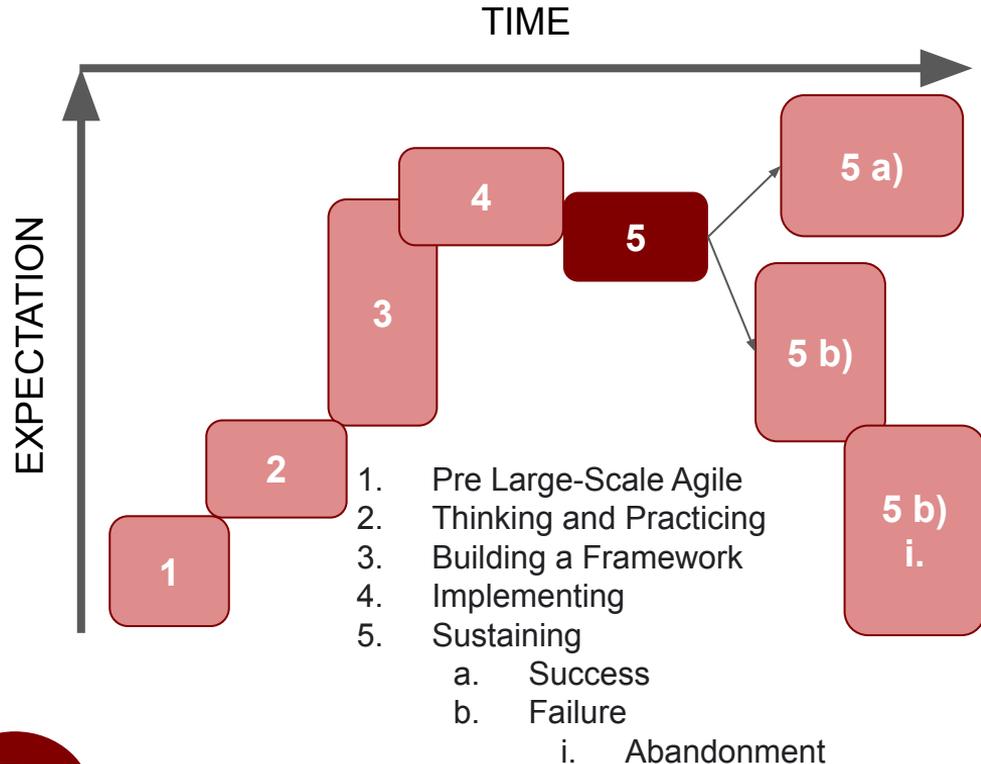
Pedro S C Garcia



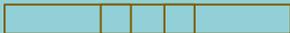
Implementing Large Scale Agile Frameworks Challenges and Recommendations

Conboy and Carroll 2019
Journal Qualis A1

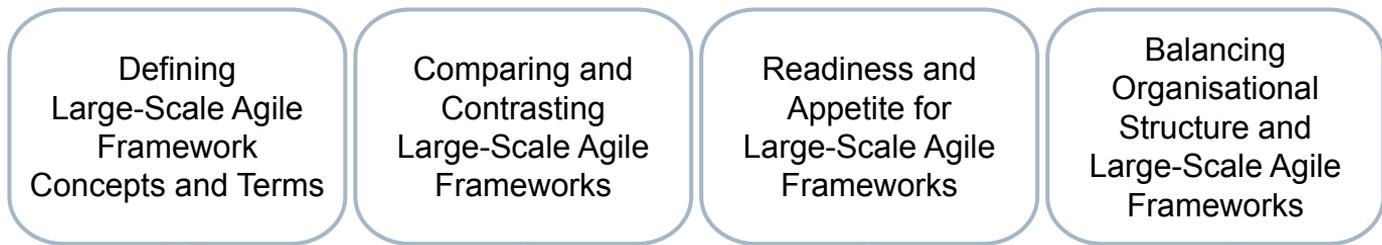
- About 13 tech companies, over 15 years ago.
- Implement an agile management framework.
- Analyze the growth of the development team during Scaling.
- Elaborate a timeline capable of determining the success or failure.
- Describe and teach how to avoid the challenges in this process during the set time period.



What is the research focus area?

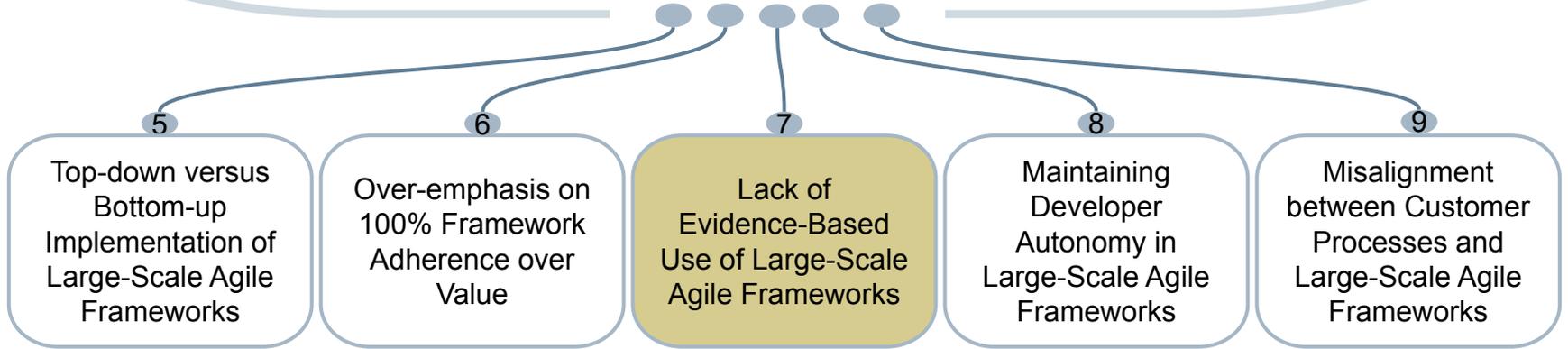


What are the main problems in this area?
What is the chosen problem?



Conboy and Carroll 2019

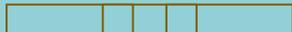
Implementing Large Scale Agile Frameworks Challenges and Recommendations





Others

Contributions on Adaptation in Large-Scale Agile Structures



H. Edison, X. Wang and K. Conboy, "**Comparing Methods** for Large-Scale Agile Software Development: A Systematic Literature Review," in IEEE Transactions on Software Engineering, vol. 48, no. 8, pp. 2709-2731, 1 Aug. 2022, doi: 10.1109/TSE.2021.3069039.

Hussain, Waqar, et al. "How can **human values be addressed** in agile methods? A case study on SAFe." IEEE Transactions on Software Engineering 48.12 (2022): 5158-5175.

Khan, Arif Ali, et al. "Agile trends in Chinese **global software development** industry: Fuzzy AHP based conceptual mapping." Applied Soft Computing 102 (2021): 107090.

Mapping Literature Review: Is it possible apply AI on Agile Software Development?

Conboy and Carroll 2019

Implementing Large Scale Agile Frameworks Challenges and Recommendations

Lack of
Evidence-Based
Use of Large-Scale
Agile Frameworks

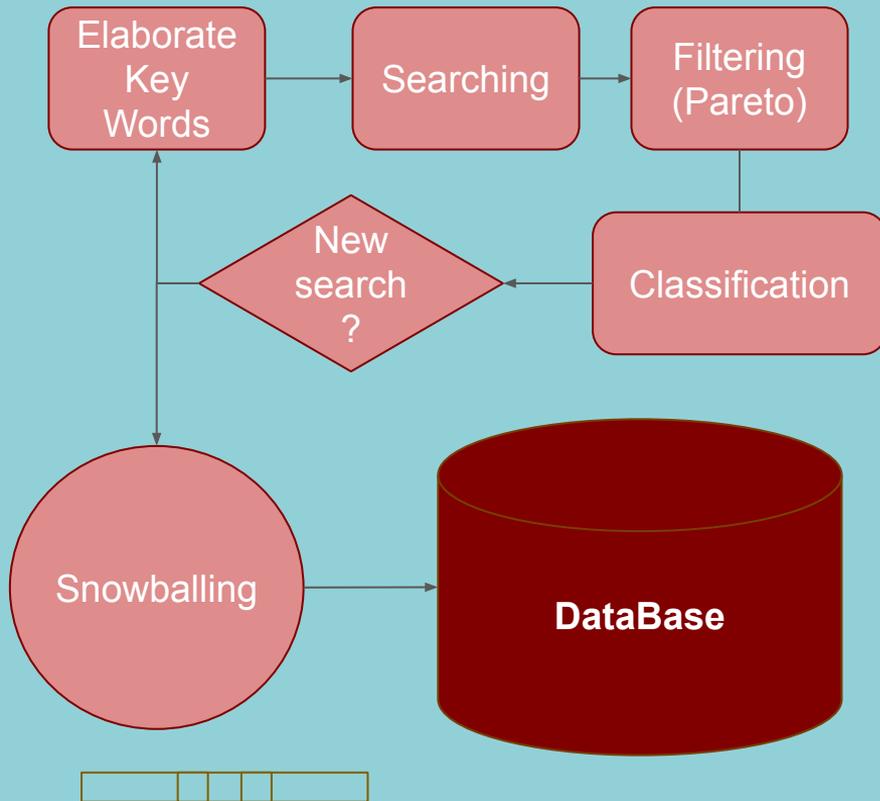
Build evidence (e.g. metrics) to support the use of a particular large-scale agile framework to transform your organisation. [**Jira, Azure, Asana**]

Identify and contextualise issue to offer guidance on agile large-scale transformation and establish best practice. [**Ceremonies and Ritos, ChatBot**]

Regularly test scalability at a more sustainable pace to learn your way through the transformation process, e.g. through transformational “**small wins**”.



Mapping Protocol



IEEE Xplore

- Start research: 1823 Results
- Filter by Date from 2018 to 2022: 1311 Results
- Only Articles from 2018 to 2022: 276 Results

Springer Link

- Start research: 5988 Results
- Filter by Date from 2018 to 2022: 4551 Results
- Only Articles from 2018 to 2022: 330 Results

Science Direct

- Start research: 105 Resultados
- Filter by Date from 2018 to 2022: 68 Results
- Only Articles from 2018 to 2022: 42 Results

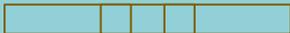
ACM Digital

- Start research: 90 Results
- Filter articles by Date from 2018 to 2022: 68 Results



Next Steps (Some opportunities)

- Complete the mapping to identify a methodology and experiment with it.
- Structure an assessment within UFMG groups.
- Experiment with the "Sala de Aula Invertida" (Flipped Classroom) in an academic context to apply it to companies and enhance adaptation to agile methodologies.
- Focus on quality techniques to align with QA research in LabSoft.
- Apply NLP in the requirement engineering context to enhance designers' capabilities.



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