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The Role of Feedback within Scrum for Engineering Department Operations

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The Role of Feedback within Scrum for Engineering Department Operations

Massood Towhidnejad, Omar Ochoa, James Pembridge, Radu Babiceanu

OVERVIEW

OPPORTUNITIES FOR FEEDBACK

The Scrum framework is built on the principles of inspection and adaptation. Feedback drives the inspection process, and the team adapts based on that feedback to optimize its performance and outcomes. Within engineering departments, Scrum requires departments to examine how and when feedback is obtained to ensure that the department is remaining agile. This poster illustrates the role of feedback within two Scrum teams, one focused on student success and the other focused on faculty rewards and incentives. The two cases emphasize the need for continuous introspection at team and department levels.

Product Backlog Refinement: The product backlog, a prioritized list of features and requirements, is constantly refined and updated. Feedback from stakeholders and team members is used to prioritize and adjust items in the backlog.

Daily Standup Meetings: Daily standup meetings, or daily scrums, are held to provide a platform for team members to share their progress, challenges, and impediments. This daily feedback loop ensures that issues are identified and addressed promptly, helping the team adapt and make necessary adjustments.

Sprint Review Meetings: Scrum teams conduct regular sprint review meetings at the end of each sprint, where they showcase the completed work to stakeholders. This feedback session allows stakeholders to provide input, ask questions, and suggest changes.

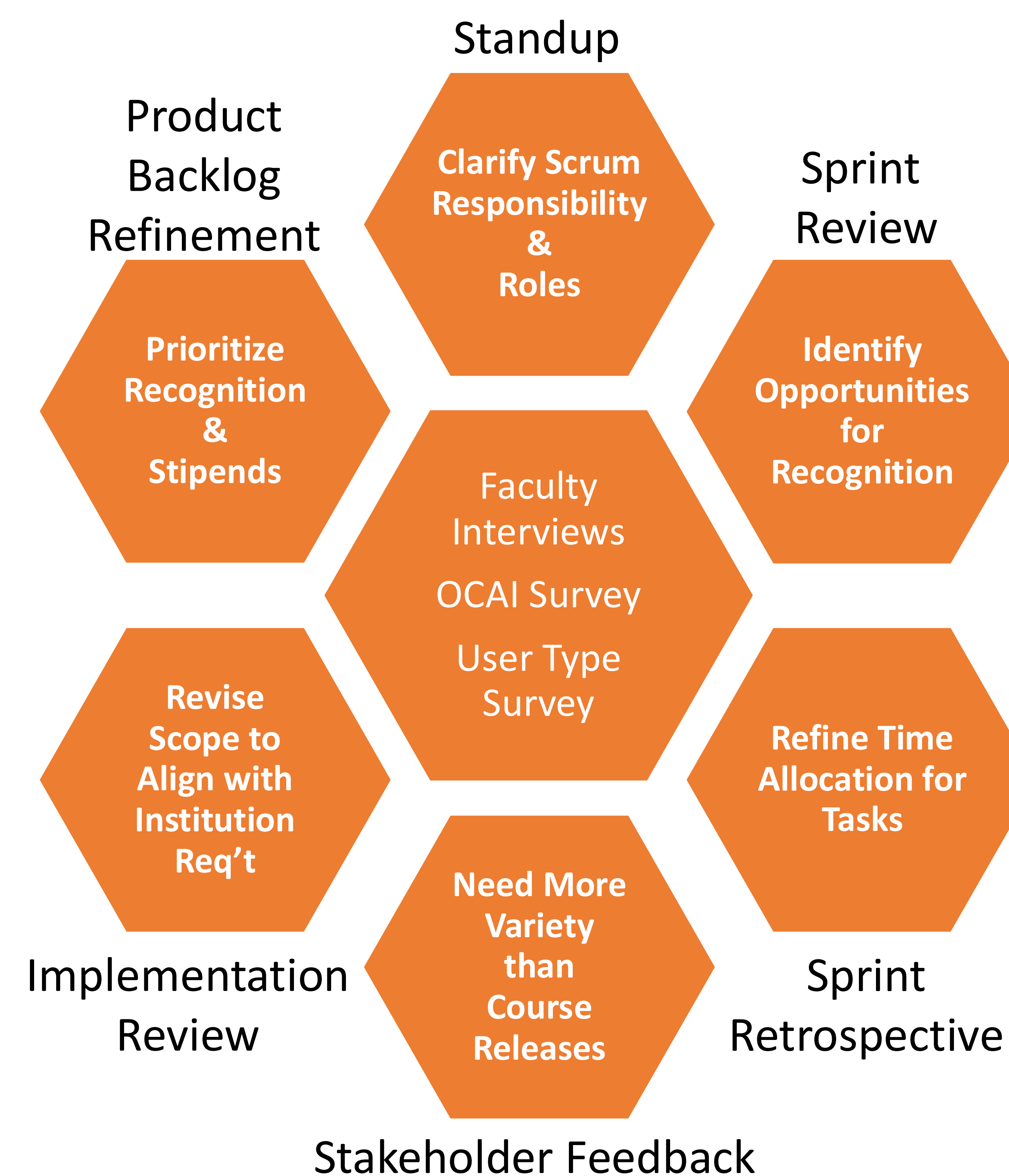
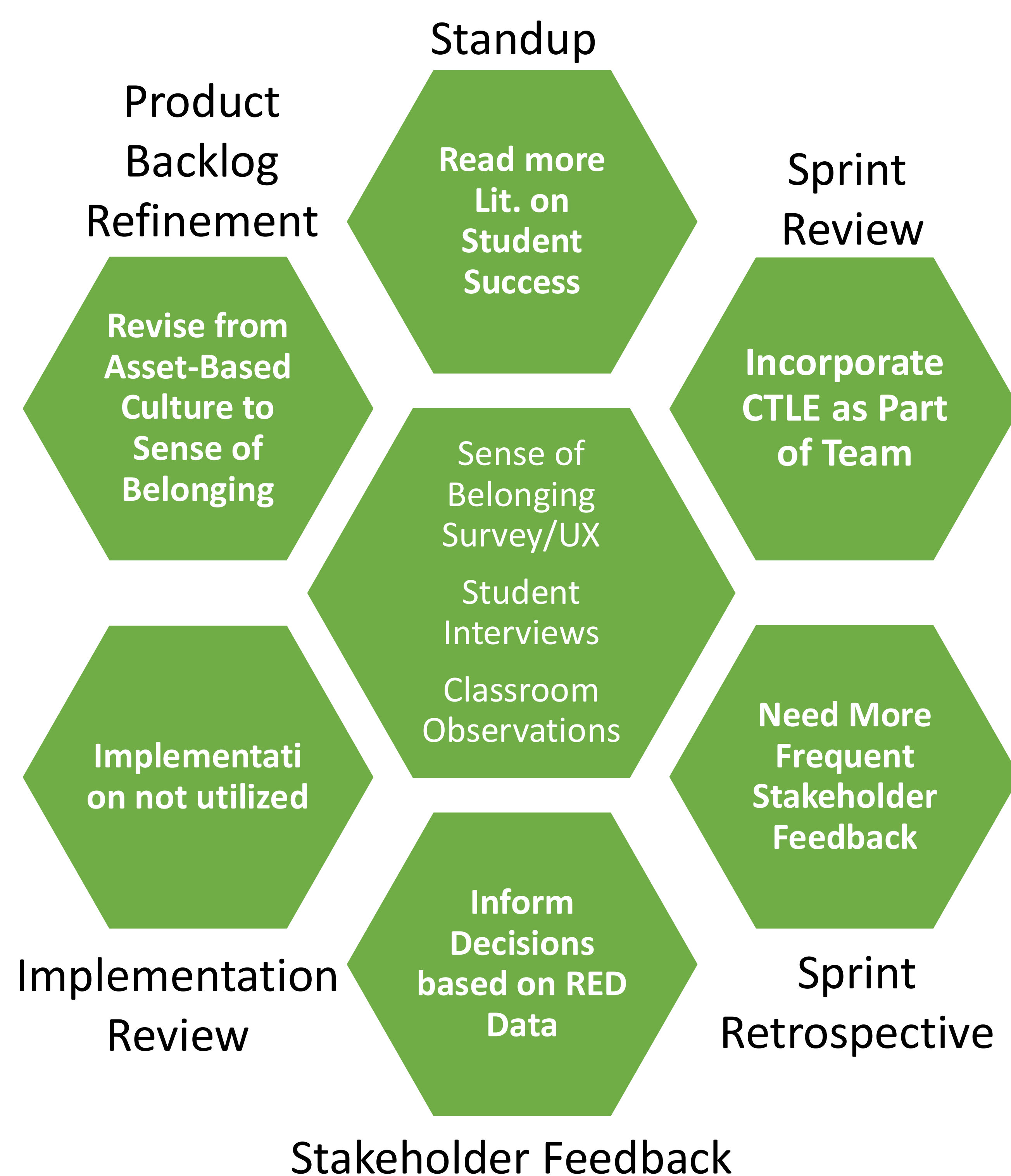
Sprint Retrospectives: At the end of each sprint, Scrum teams hold sprint retrospectives. During these meetings, team members reflect on what went well, what didn't, and how to improve their processes. This feedback is essential for making continuous improvements and optimizing the team's agility.

Stakeholder Feedback: Scrum emphasizes stakeholder collaboration and feedback. Regularly engaging stakeholders and end-users ensures that the department remains aligned with their needs and preferences. This feedback is invaluable for making informed decisions and adjusting the product or project direction.

Implementation Review: Scrum embraces change, and feedback is instrumental in adapting plans and priorities as new information becomes available. Teams continuously assess the product and project landscape and make adjustments accordingly to remain agile.

STUDENT SUCCESS

FACULTY REWARDS & INCENTIVES



REFERENCES

ACKNOWLEDGEMENT

- [1] Lárusdóttir, M., Cajander, Å., & Gulliksen, J. (2014). Informal feedback rather than performance measurements—user-centred evaluation in Scrum projects. *Behaviour & Information Technology*, 33(11), 1118-1135.
- [2] McKenna, D., & McKenna, D. (2016). *The scrum framework. The Art of Scrum: How Scrum Masters Bind Dev Teams and Unleash Agility*, 27-34.

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