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Different Agaile Approaches and their comparive Analysis:

Agaile: In software Engineering, Agile refers to a development methodology based on iterative and incremental process that emphasize flexibility Collaboration and customers centric approaches 1) Soum:

Framework: Soum organizes work into fixed-Longth itercations catted 'sprints' (usually 2-4 weeks)

Key Roles.

scrum Masferr: Ensures the team adheries to scrum principles.

Product owners Hanages the product backley and preioritizes tasks.

Application:

- 1. Ideal for teams working on projects with evolving requirements.
- 2. swited for small to medium-sized projects where collaboration and quick adjustments are crucial.

Effectiveness:

cost: High efficiency reduces waste

Time: frequent delivercables ensure rapid value deliverry.

Risks: Early detection of issues minimize long term risks.

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Karban:

· Framework: focuses on visualization workflow using a varchan board with columns representing different work adjustace col motualina

Key principles:

Limit work in progress (wtp) Manage flow by identifying bottlenecks continuously improve processes.

Hexibility:

· No fixed itercations

· tasks move across the board as completed

Effectiveness:

cost: Low implementation cost

Time: Optimized task flow improves productivity.

Risks: Transparent workflow aids in early problem identification.

Extreme Programming (XP)
framework; focuses on engineering practices
to improve software quality and responsiveness.

Cone Practices:

Test drainen development (TDD)

paitr ptrogreamming continous integreation and frequent releases simple design.

Application:

- 1. Effective for high risk projects trequiting frequent changes.
- 2. Ideal for small teams with close customers.

Effectiveness:

- cost: Automation of testing: treduces long term costs.
- Time: friequent releases ensure faster value delivery.

Learn Development: 1) Framework: Derives from learn monufacturing focusing on eliminating waste, amplifying learning and delivering Value.

Principles:

Optimize whole process
Build quality

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Application:

1. suitable for organizations seeking efficiency in resource utilization.

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2. Works well for teams.

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