Can We Get Some Agile Here?

The Application of Agile Project Management Principles for Library IT

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Presented For: Agile Methodology in Libraries,
Innovation in library projects and management,
IFLA Satellite Conference, 18 August 2023
Erasmus University, Rotterdam, Netherlands
Agile Project Management, What is it?

Agile Possesses

Principles
Methodologies
Tools
Software
Histories
Definitions
Origins
Project Management and Agile Techniques

Agile Principles Should Be Grounded or Used in Concert with Project Management Methodologies

PMP Work Breakdown Structures

IT Project Management

Agile Project Management

Increasing Chances of Project Success
On time, In Scope, On Budget

The Synergistic Use of Methodologies Maximizes the highest potential for success

Agile: Kanban Board
<table>
<thead>
<tr>
<th>Principles  Agile IT Project Management</th>
<th>Rearticulated for Libraries</th>
</tr>
</thead>
<tbody>
<tr>
<td>User/Patron Satisfaction</td>
<td>Delivering Library IT Products that meets patrons needs</td>
</tr>
<tr>
<td>Embracing Change</td>
<td>Responding to change in Library requirements, priorities, and administrative conditions</td>
</tr>
<tr>
<td>Incremental Delivery</td>
<td>Delivering working software and technology in small, incremental releases</td>
</tr>
<tr>
<td>Self-Organizing Teams</td>
<td>Library Teams that have the authority and responsibility to organize themselves and make decisions</td>
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# Agile Library Project Management

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<th>Principles Agile IT Project Management</th>
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<tr>
<td>Continuous Improvement</td>
<td>Fostering a culture of continuous library learning and improvement</td>
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<tr>
<td>Agile Planning</td>
<td>Emphasizing library IT flexibility and responsiveness in Library IT planning and prioritization</td>
</tr>
<tr>
<td>Early and Continuous IT Product Delivery</td>
<td>Delivering working library software as early and frequently as possible</td>
</tr>
<tr>
<td>Working Products/Software</td>
<td>Emphasizing the importance of delivering working library software that meets user needs</td>
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</table>
Based on twelve principles and earlier Project Management Principles

1. Customer satisfaction by early and continuous delivery of valuable software.
2. Welcome changing requirements, even in late development.
3. Deliver working software frequently (weeks rather than months).
4. Close, daily cooperation between business people and developers.
5. Projects are built around motivated individuals, who should be trusted.
6. Face-to-face conversation is the best form of communication (co-location).
7. Working software is the primary measure of progress.
8. Sustainable development, able to maintain a constant pace.
9. Continuous attention to technical excellence and good design.
10. Simplicity—the art of maximizing the amount of work not done—is essential.
11. Best architectures, requirements, and designs emerge from self-organizing teams.
12. Regularly, the team reflects on how to become more effective, and adjusts accordingly.

1990 -2001
Tools: Kanban Board

kan  to look at closely
ban  wooden board
Kanban Board

Kanban Simplified Board

Trello: Kanban Board
Atlassian Software/Trello

Combining Techniques
Kanban and Sprint and Scrum
Important Agile Principles

Kaizen, small incremental change, iteration

Kaizen: Correction of Errors, the change for the better (the good), TQM,
Agile History: Toyota (Post World War II Japan, Reconstruction, American Efficiency Experts, Japanese Zen Philosophy, https://www.youtube.com/watch?v=F5vtCRFRAK0
Agile: From Principles to Working Methodologies: Sprints and Scrum

**Sprint**
- Time boxed period (1-4 weeks)
- Set tasks
- MVP (Minimum Viable Product)
- Review, Rinse, Repeat

**Scrum: Agile Team Framework (Rugby Term, HBR)**
- Self organizing teams
- Continuous delivery
- Iterative Development
- Moving Ball Forward, Realigning

**Outcomes**
- Quick response to change
- Identify roadblocks
- Higher quality product
Agile Software Development Model
VIREO: Library
Electronic, Dissertation and Theses Software

Iterative Design Principles: Versioning Sprints and Scrums
The Business Case for a Good Agile IT Project Managers: Separation of Project Management and Technologies

Project Management Formalization

Agile Project Managers Using Sprints and Kanban to Simplify Workflow Complexity through Collaboration Work Tools

Collaboration Work Tools Create Communication Channels, Many New Software Possibilities: Atlassian Jira/Trello, Monday.com, Basecamp
The Importance of Agile Software and the Circulation of Documents and Media

Basecamp Communication & Collaboration Tools

Agile Communication & PMP Assignment Matrix Techniques
Communication and Social Media Design Plans
Agile Product Development Cycle
<table>
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<th>Agile Principles</th>
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<tr>
<td>Iterative Development</td>
<td>Continuous improvement through frequent cycles of planning, development, and testing</td>
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<tr>
<td>User Involvement</td>
<td>Collaboration and feedback from end-users throughout the development process</td>
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<tr>
<td>Empowered Cross-Functional Teams</td>
<td>Multi-disciplinary teams with shared accountability and flexible roles</td>
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<tr>
<td>Adaptive Planning</td>
<td>Flexibility and responsiveness to changing requirements and priorities</td>
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<tr>
<td>Time-Boxed Delivery</td>
<td>Fixed periods of development with deliverables at the end of each cycle</td>
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<tr>
<td>Continuous Integration</td>
<td>Continuous integration of code changes and automated testing</td>
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<tr>
<td>Prioritization</td>
<td>Prioritization of features and tasks based on value and user needs</td>
</tr>
<tr>
<td>Collaboration</td>
<td>Collaboration and communication between team members and stakeholders</td>
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The Future

As we get into complex Library AI Projects, we need agile efficiencies more than ever.

Kaizen, Kanban, Sprints and Scrums
Simplicity, Clarity, Small Good Changes
Any sufficiently advanced technology is indistinguishable from magic.

Arthur C. Clarke
Future Visions, 1953
References and Software:
Principles, Project Management and Agile


• Bloomberg Originals. (2018). Agile History: How Toyota Changed the Way We Make Things. Youtube Video: https://www.youtube.com/watch?v=F5vtCRFRAK0
References Continued


