Indian Health Service

Driving Project Success with Agile Methodologies

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Agenda

- Objective
- Agile Introduction
- Agile Manifesto
- Traditional Project Management Methodologies
- Agile Project Management Methodology
- Why Agile Project Management is Preferred
- Key Principles of Agile Project Management
- Agile Frameworks
- Agile Scrum Framework Process
- DDMA Project Intake and Execution Process
- Benefits of Agile Project Management
- Challenges of Agile
- Conclusion
- Questions

Objective

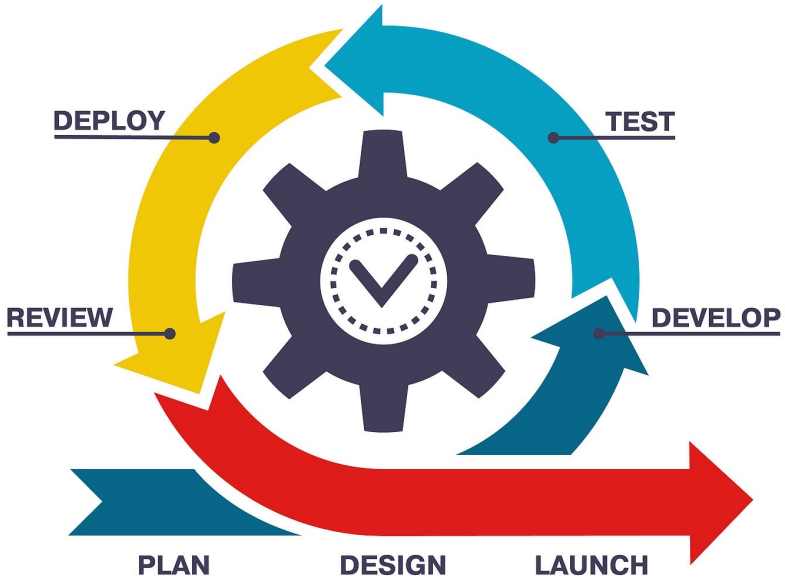
Provide a Comprehensive Understand of Agile

Examine the Core Principles of Agile

Explore Popular Agile Frameworks

Benefits of Adopting Agile Practices

AGILE



Agile Manifesto

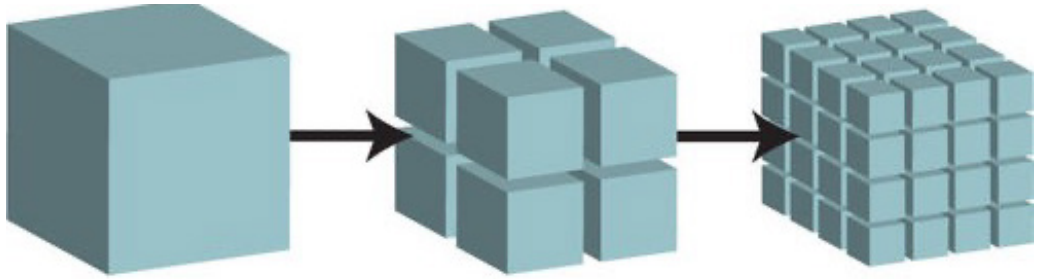
- ✓ **Customer is the highest priority**
- ✓ Changing and evolving requirements are welcome
- ✓ Delivering software frequently
- ✓ Face to face conversation
- ✓ Working software
- ✓ Technical excellence
- ✓ Simplicity
- ✓ Reflection

Traditional Project Management Methodologies

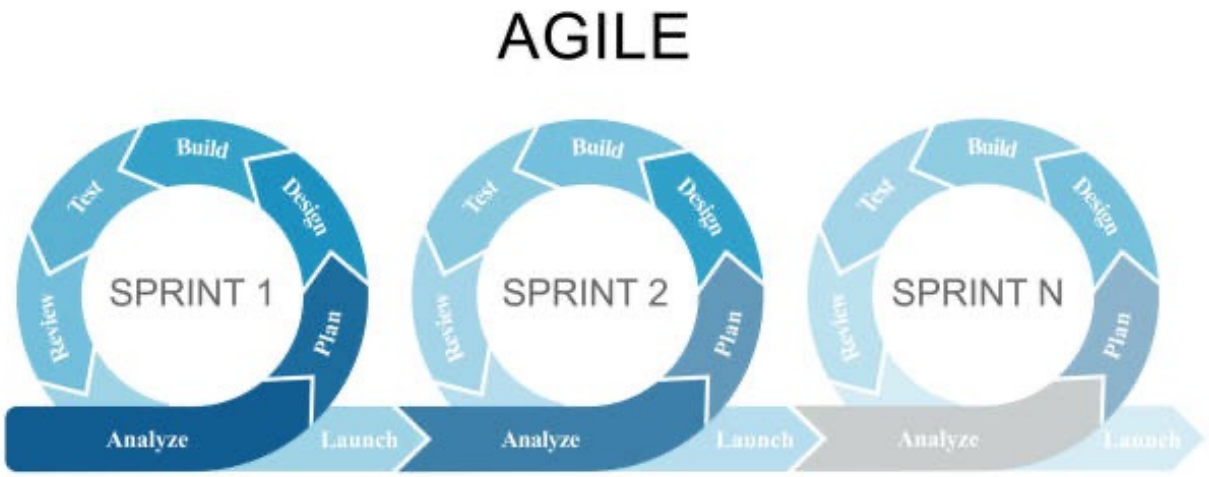
- Linear, predictable sequence
- Delays
- Cost overruns
- Unmet customer expectations

Agile Project Management Methodology

- Divides projects into smaller, manageable parts
- Allows for incremental delivery



Agile Project Management Methodology



- Iterative
- Time Boxed
- Incremental Releases

Why Agile Project Management is a Preferred Methodology

- **Customer-Centric Approach:**
  - Agile places the customer at the center of decision-making, ensuring that the project delivers what the customer truly needs.
- **Iterative Development:**
  - Agile projects are divided into short development cycles called sprints or iterations. Teams work on small portions of the project, allowing for regular reviews and adjustments.
- **Cross-Functional Teams:**
  - Agile encourages cross-functional teams with diverse skills to work together, fostering collaboration and reducing dependencies.
- **Adaptability:**
  - Agile embraces change and welcomes feedback, making it easier to adapt to evolving requirements and market conditions.

Key Principles of Agile Project Management

Individuals and interactions over processes and tools

Working software over comprehensive documentation

Customer collaboration

Responding to change over following a plan

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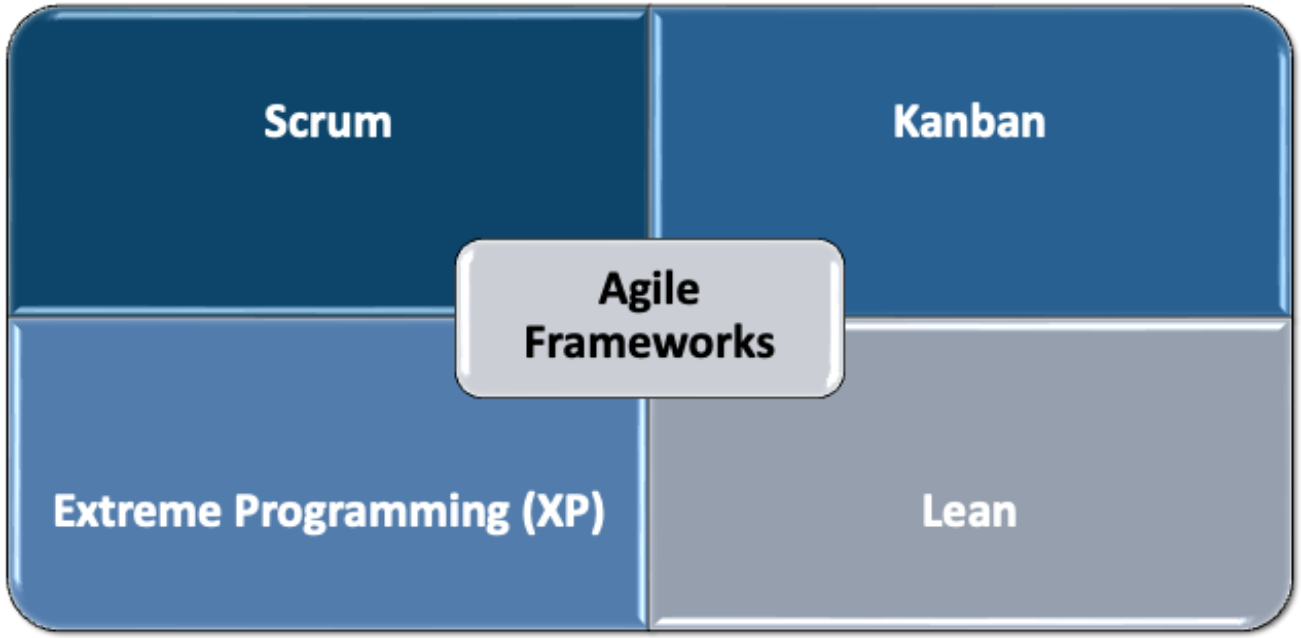
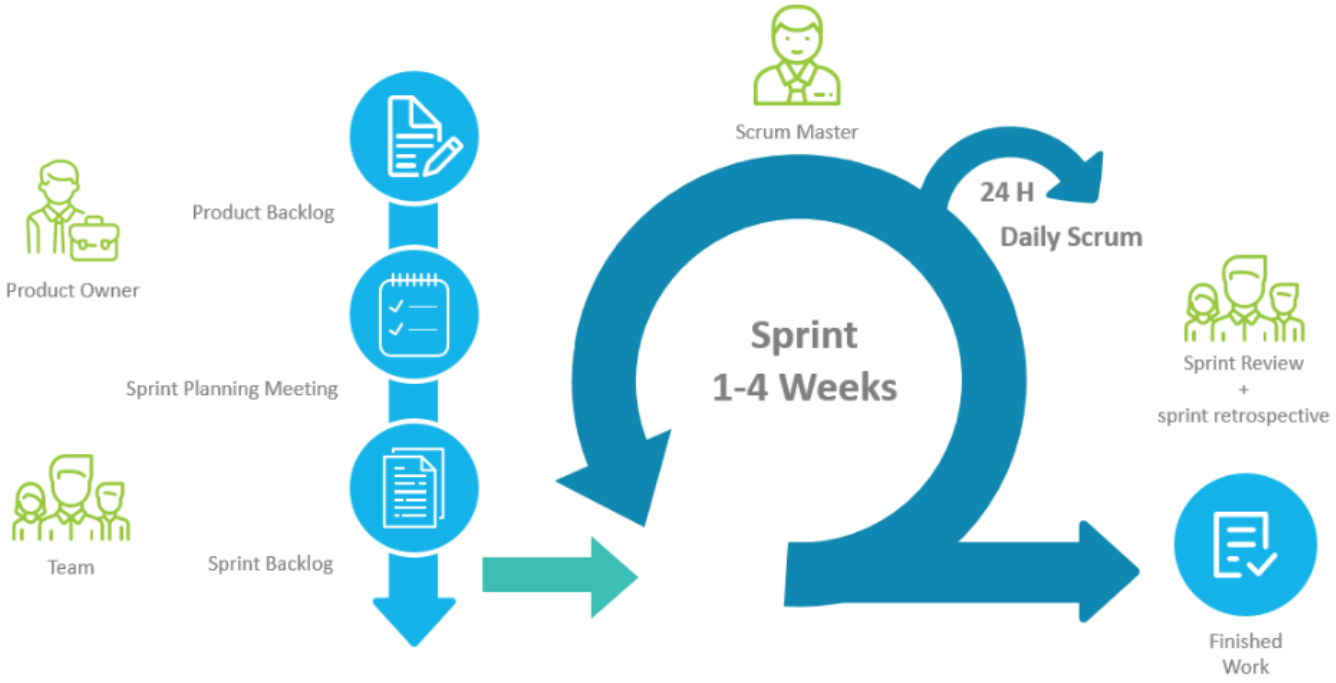
Agile Frameworks

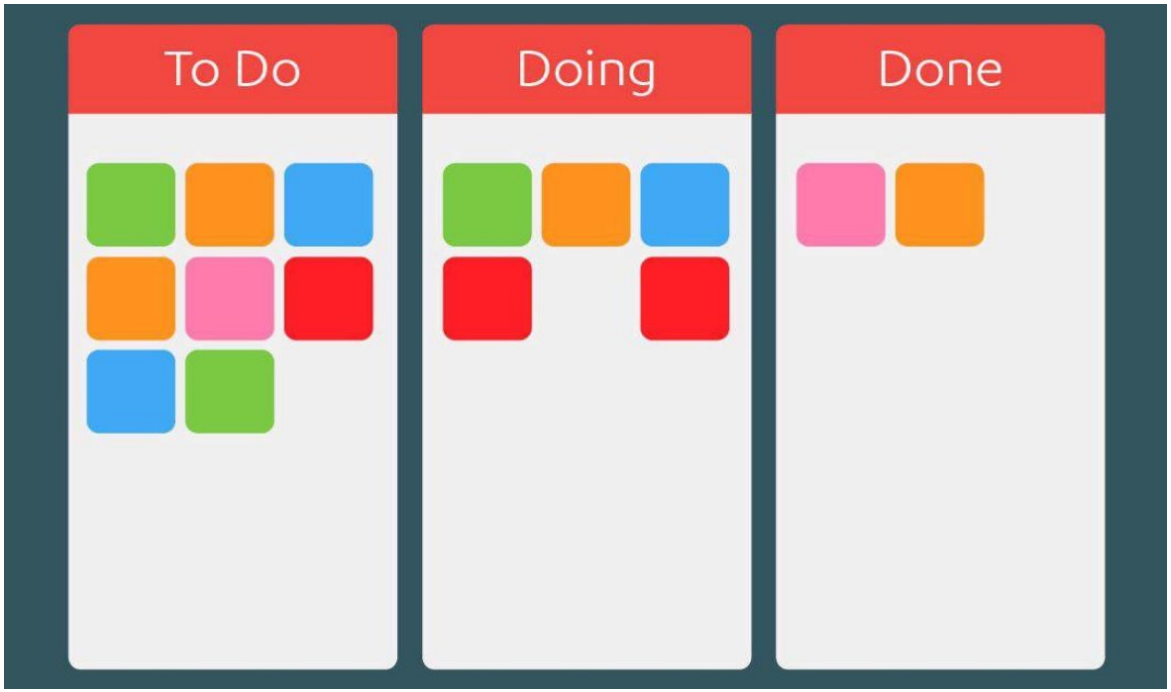


Scrum Framework

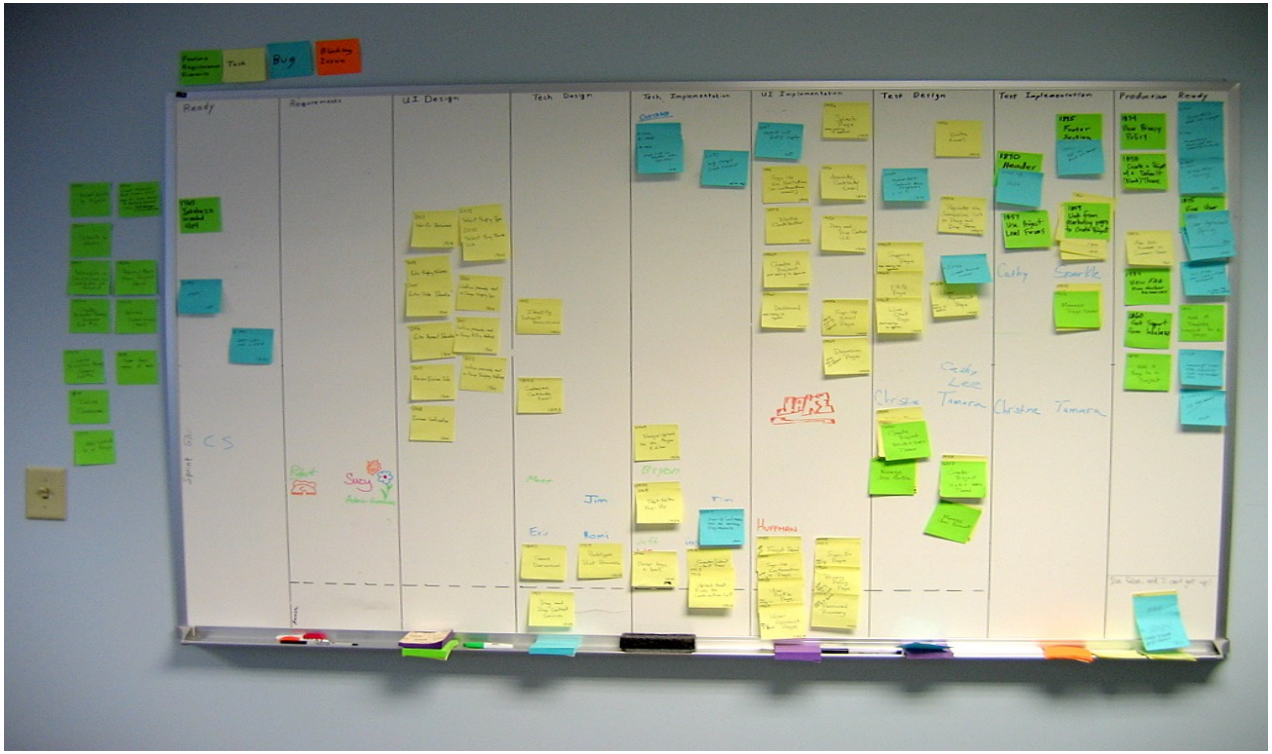


Kanban Framework

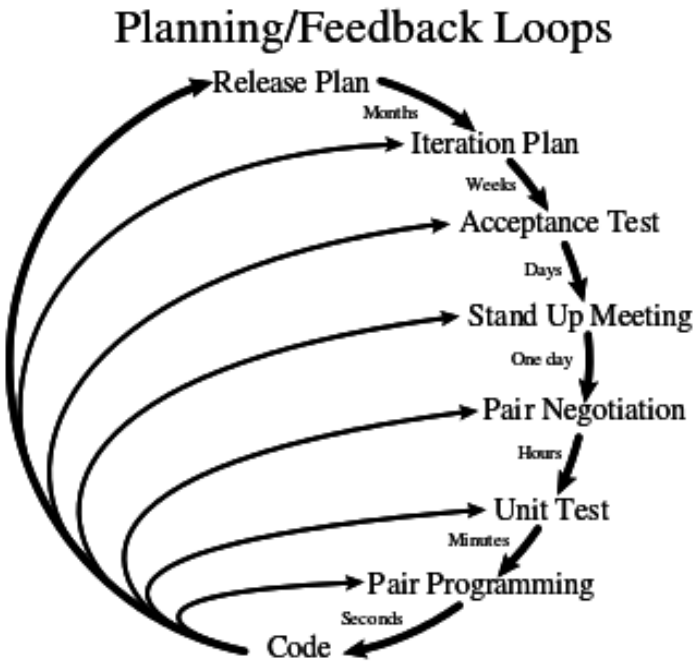
- Visual Management Tool
- Limits the work in progress
- Manages flow for continuous delivery



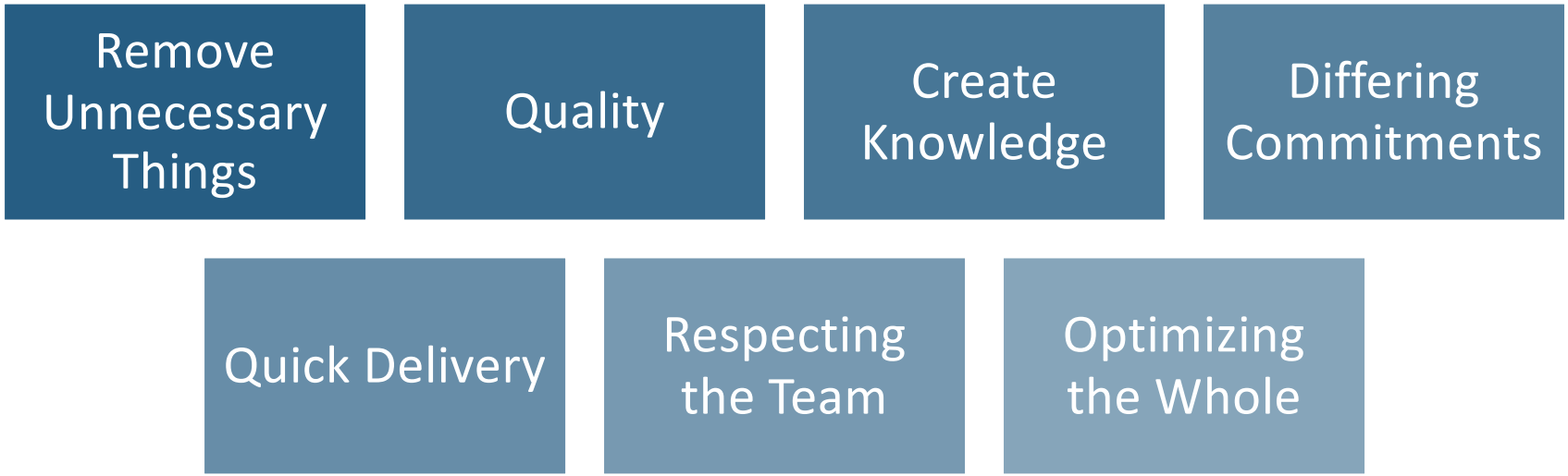
Kanban Framework



Extreme Programming (XP) Framework



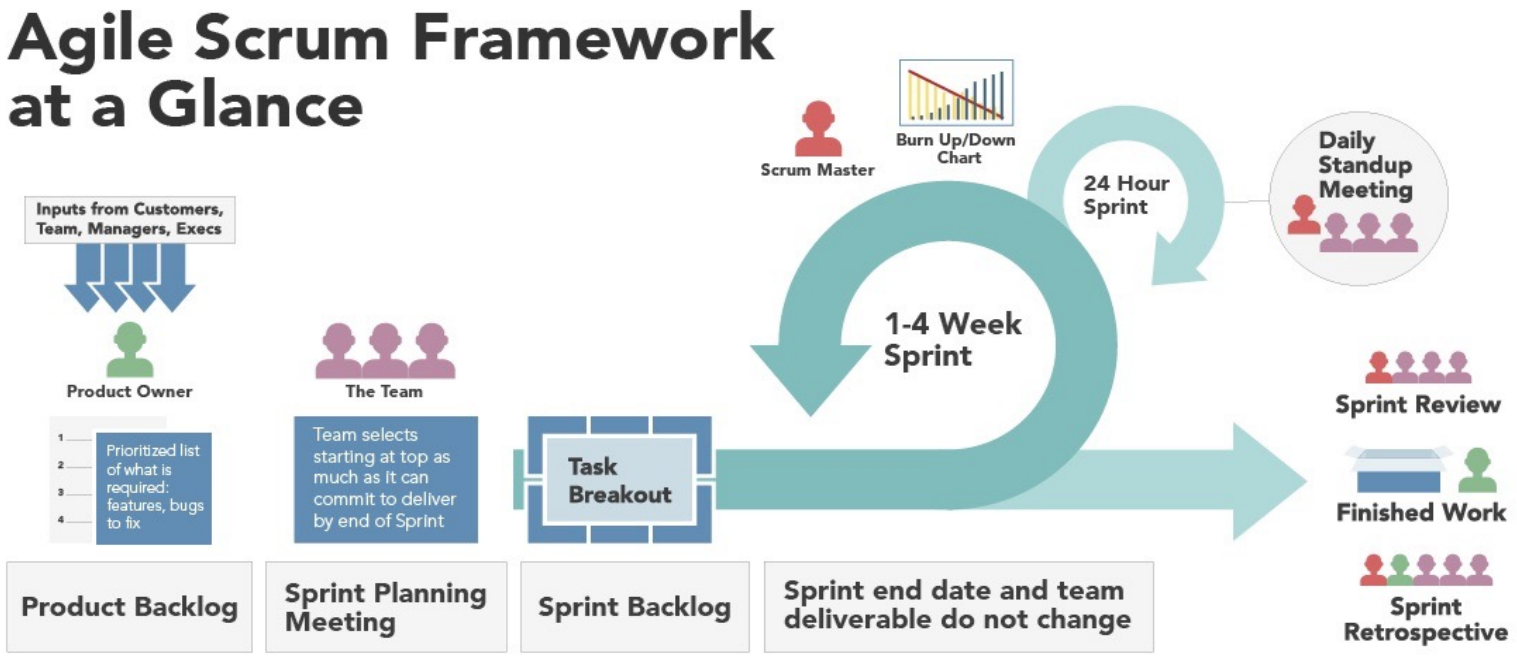
Lean Framework



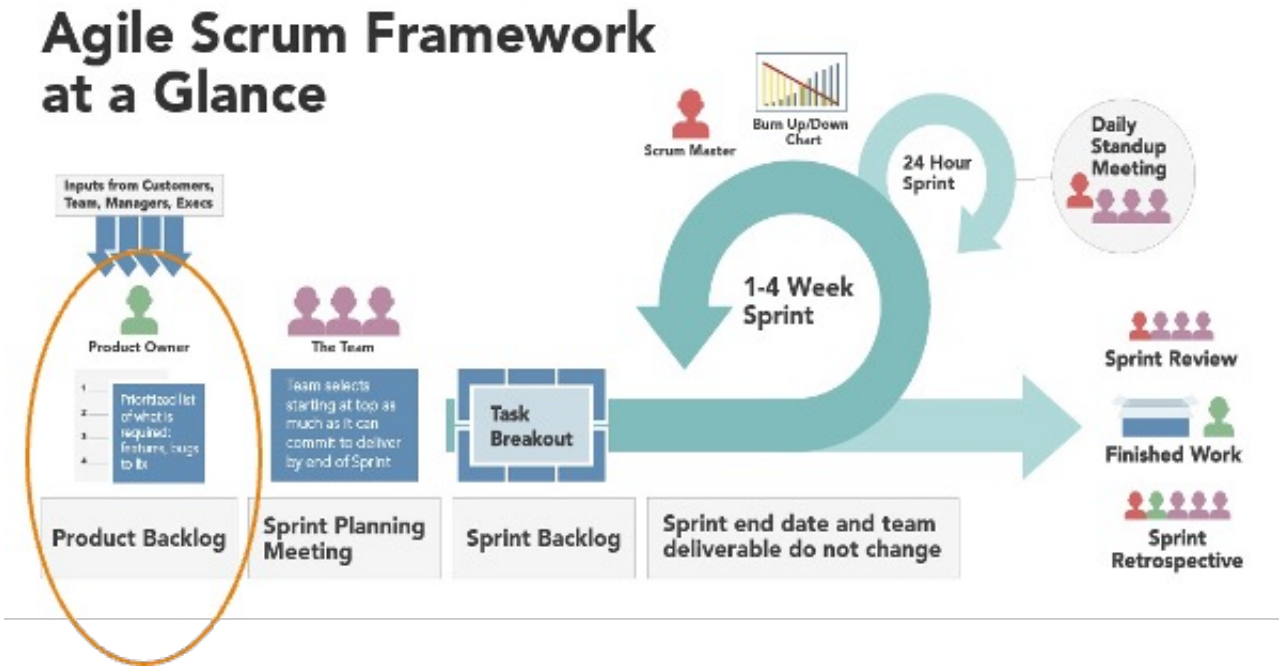
Agile Frameworks Comparison

Agile Frameworks Comparison				
	Scrum	**Kanban**	**XP**	**Lean**
Emphasis	Team collaboration, Iterative development, Continuous Improvement	Flow, continuous delivery, minimizing work in progress	Technical excellence, customer involvement, rapid feedback	Elimination of waste, value stream mapping, continuous improvement
Best For	Projects with well-defined requirements and predictable development process	Teams working on complex projects with changing requirements and unpredictable workflows.	Projects with rapidly changing requirements and a focus on quality	Projects with a focus on efficiency and reducing waste
Structure	Highly structured, with clear roles, events, and artifacts	Visual framework with a focus on visualization and limiting work in progress	Emphasizes software engineering practices such as pair programming, continuous integration, and test-driven development	Emphasizes a customer-centric approach and the creation of value through elimination of non-value-added activities

Scrum Framework Process

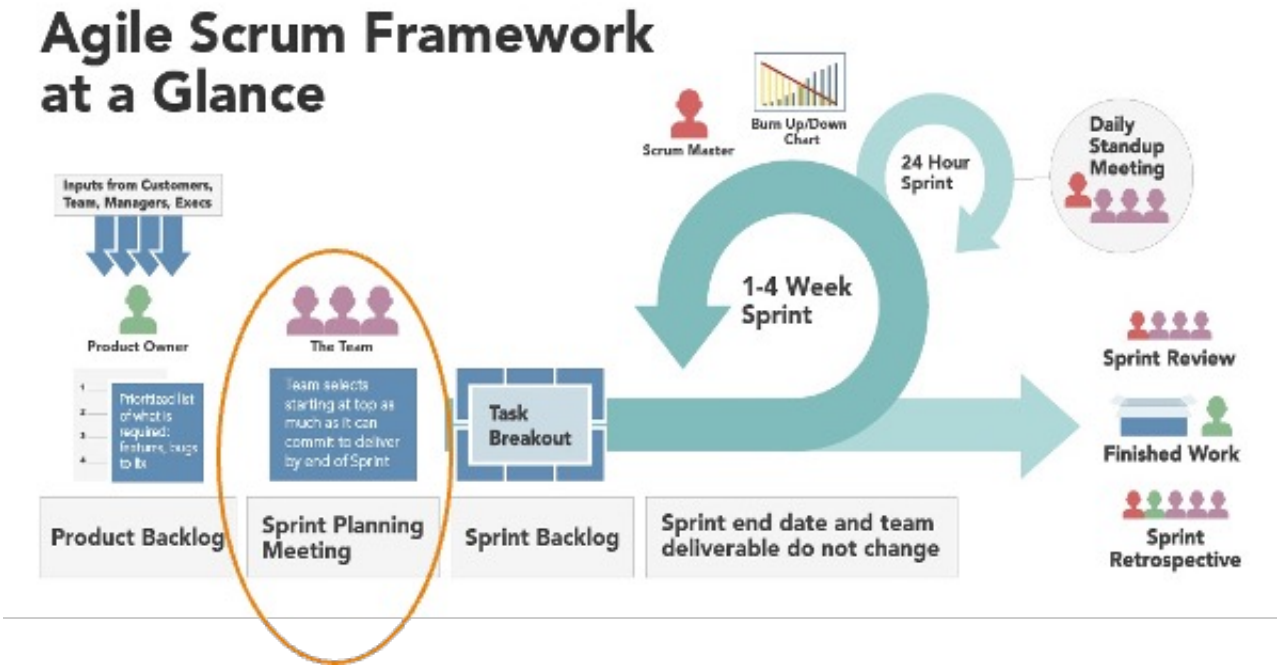


Product Backlog



- Owned by the product owner
- Prioritized list of features
- Continuously refined

Sprint Planning

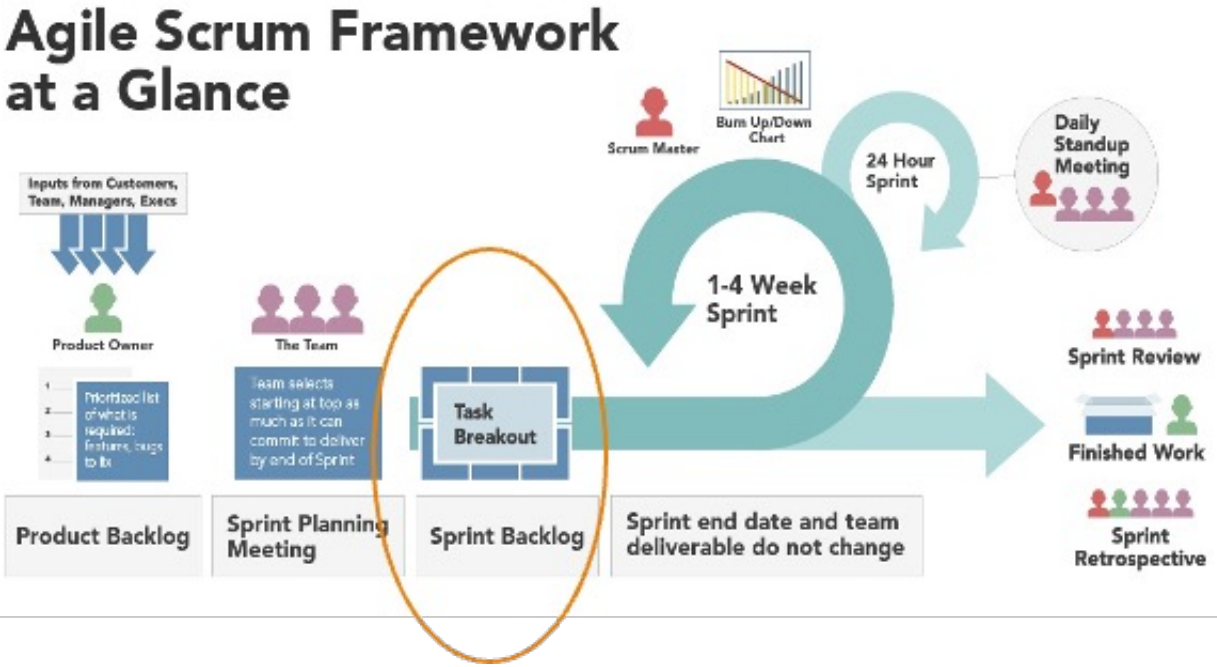


Owned by team

Sprint goal established

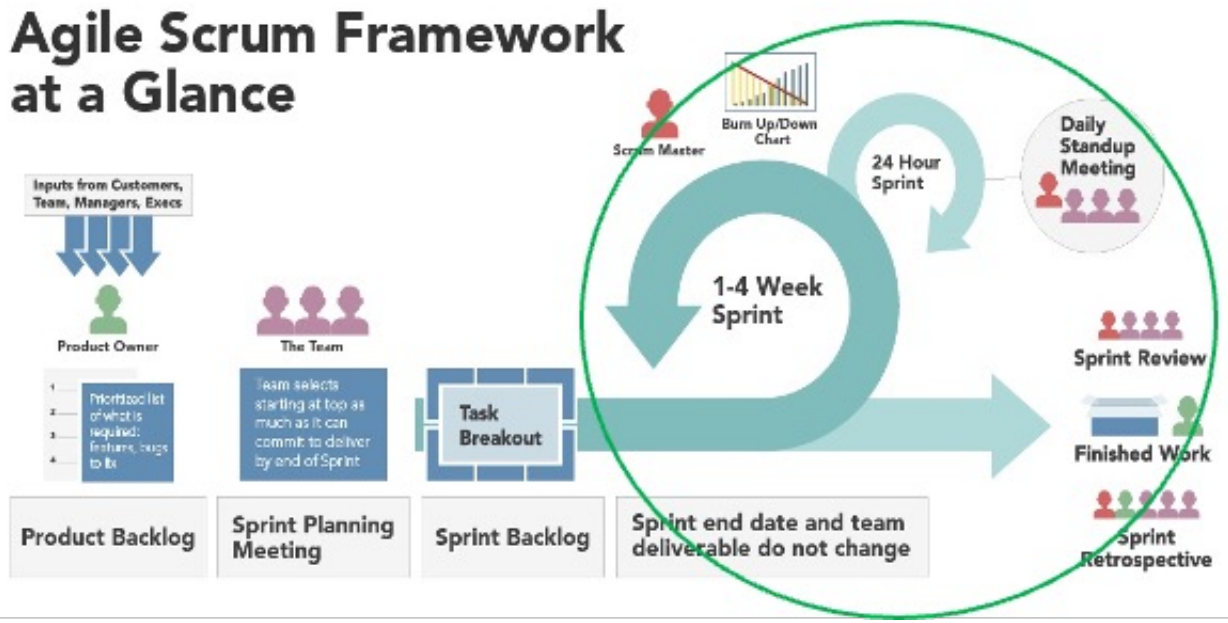
Plan to complete the work

Sprint Planning



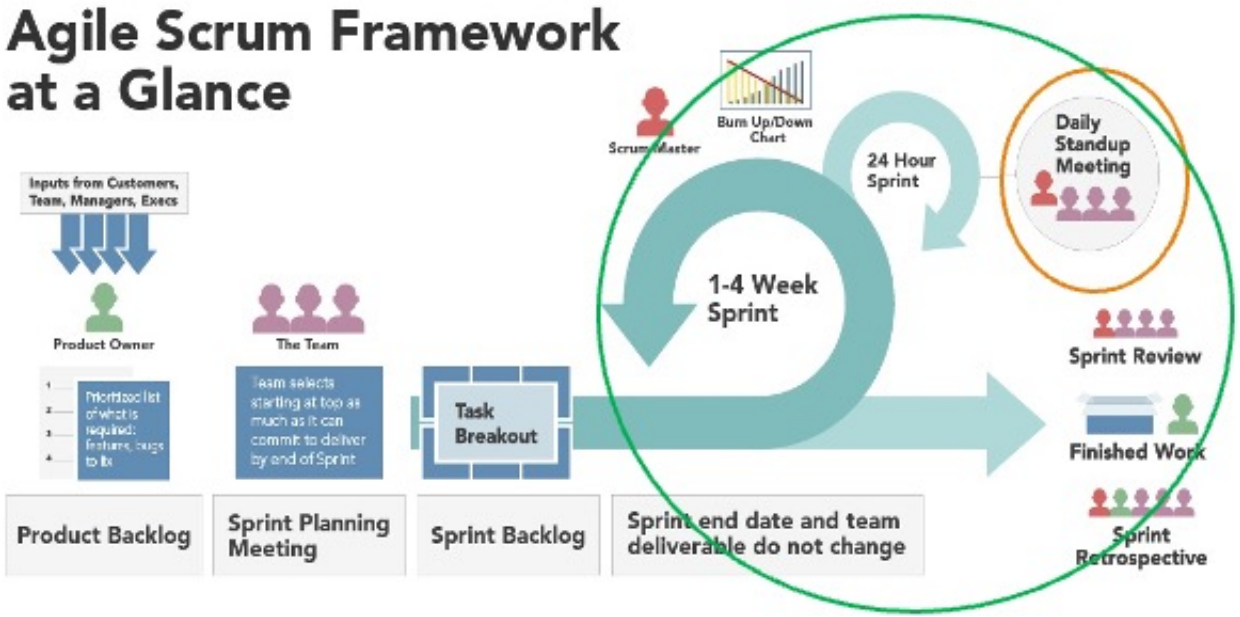
- Owned by developers
- List of features
- Sprint timeline established

Sprint Work



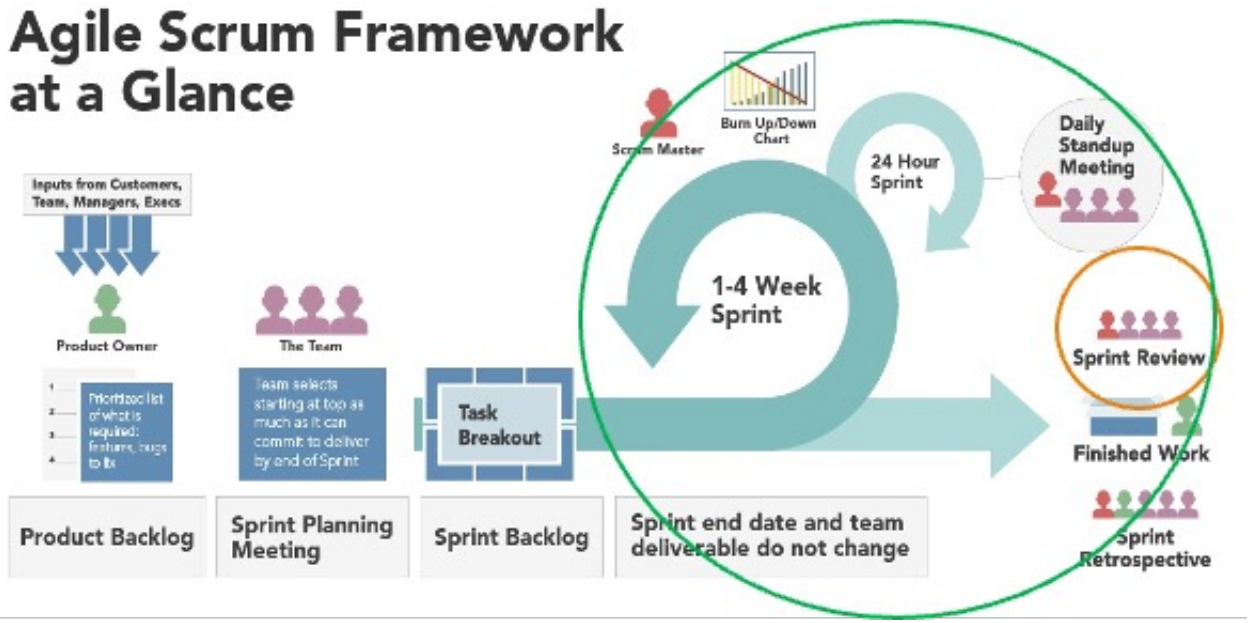
- 1-4 Week sprint cycle begins

Daily Standup Meeting



- Owned by scrum master
- Includes the team
- Inspects progress towards sprint goal

Sprint Review

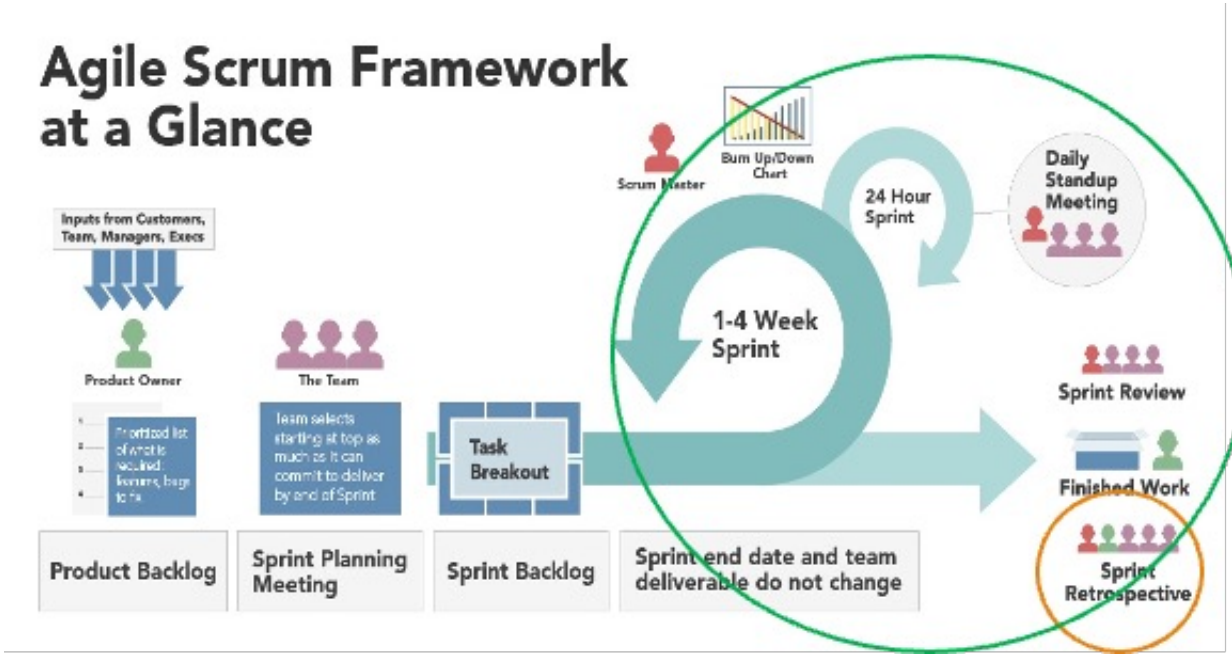


Owned by the team

Customer participation

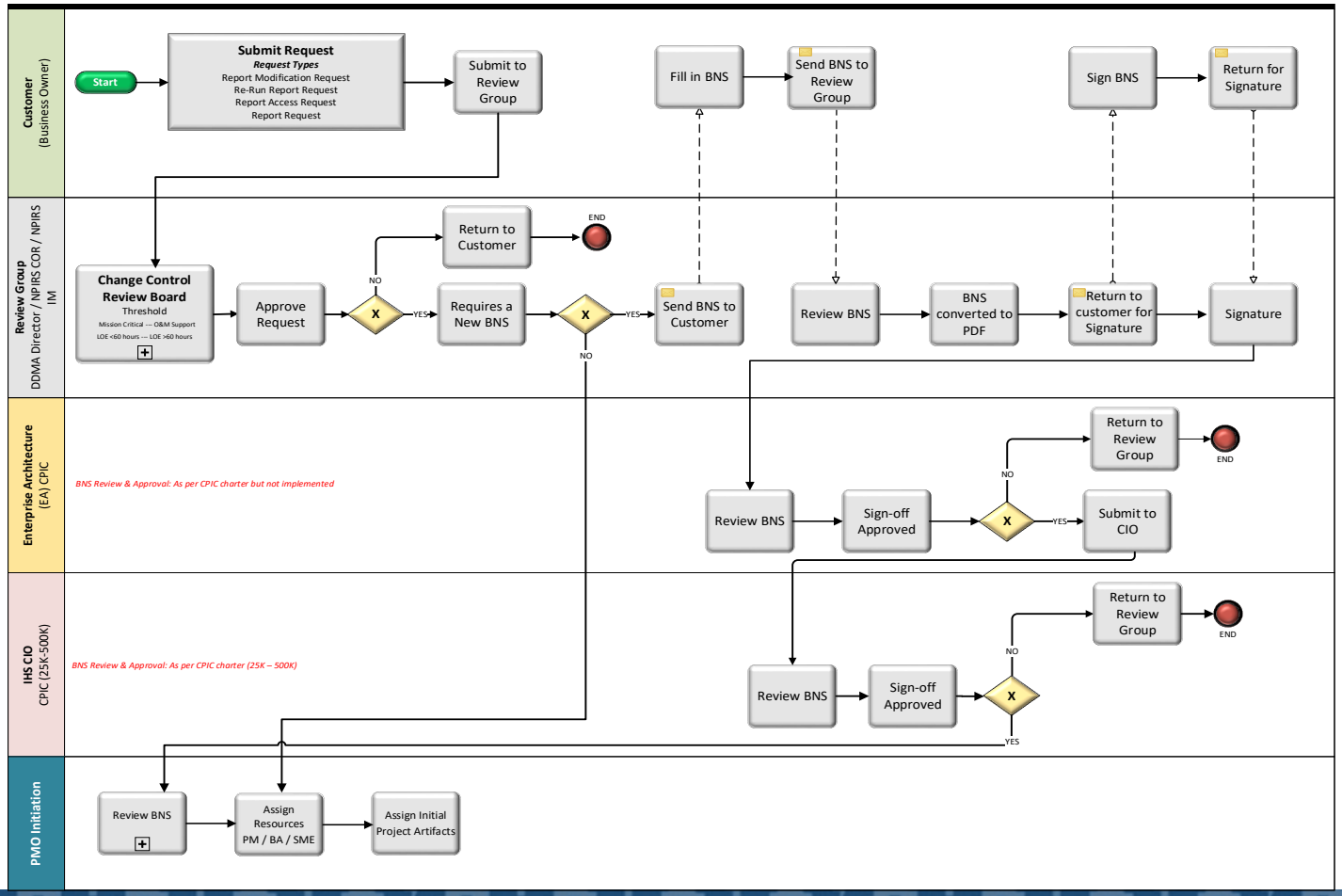
Future adaptations

Sprint Retrospective

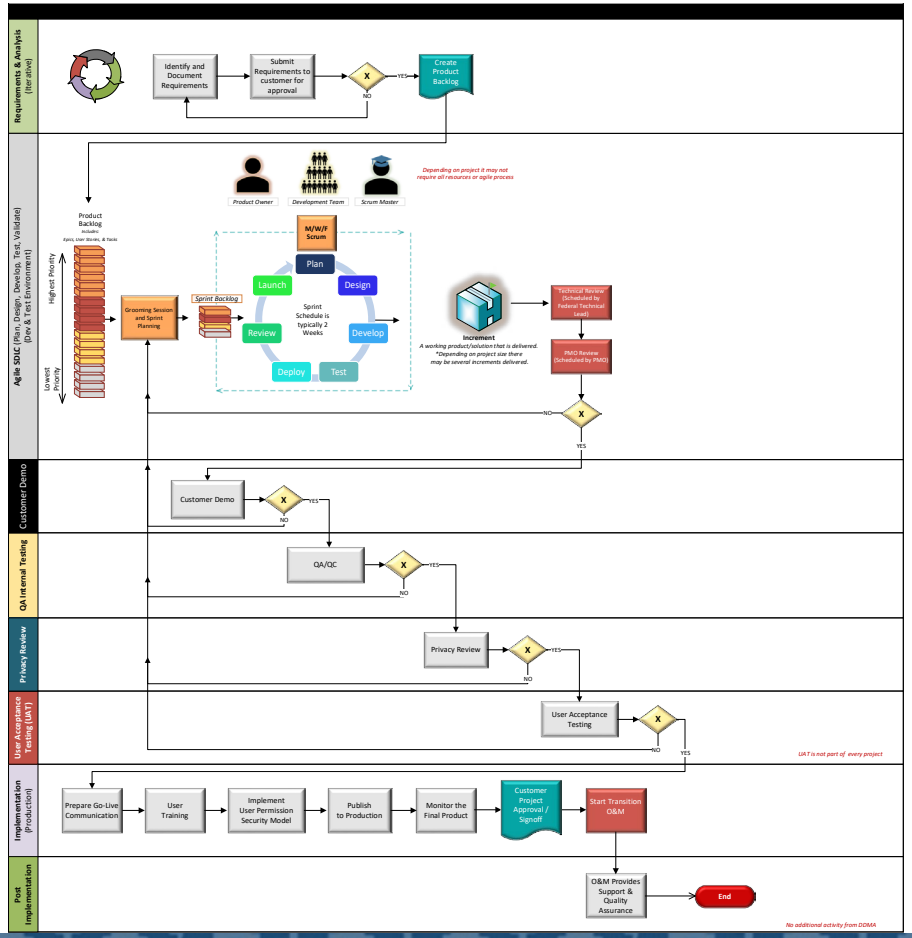


- Owned by the team
- Process improvements Identified

DDMA Project Intake Process



DDMA Project Execution Process



Benefits of Agile Project Management

FLEXABILITY AND
ADAPTABILITY

Benefits of Agile Project Management

ENHANCED COLLABORATION AND COMMUNICATION

Benefits of Agile Project Management

INCREASED CUSTOMER SATISFACTION

Benefits of Agile Project Management

IMPROVED QUALITY

Benefits of Agile Project Management

RISK MANAGEMENT

Benefits of Agile Project Management

FASTER TIME TO MARKET

Challenges of Agile

Conclusion

- Agile Empowers teams to navigate complex projects
- Prioritizes customer needs
- Focuses on collaboration and adaptability
- Accelerates time-to-market
- Enhances product quality
- Ensures customer satisfaction

QUESTIONS

Thank You!

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