



Release Planning in Agile

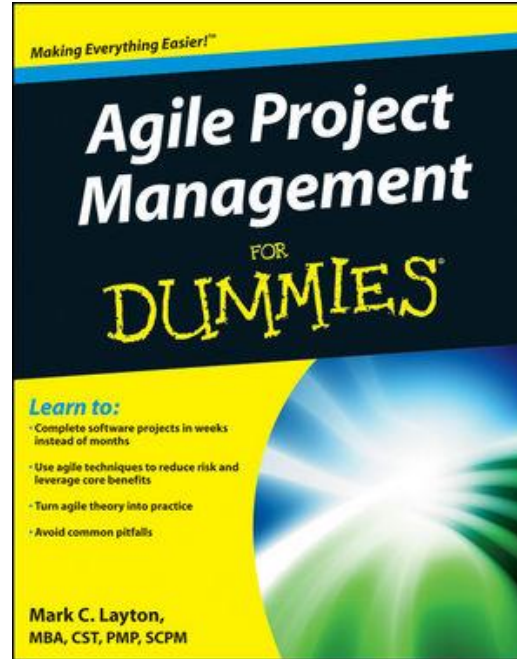
- Prof K G Krishna

Text/Reference Books

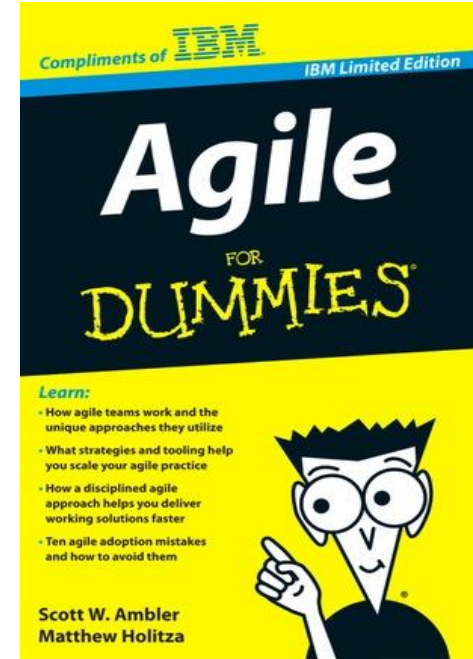
T1



T2



Compliments
of IBM



→ As this field is evolutionary, the student is advised to stay tuned to the current and emerging practices by referring to their own organization's documentation as well as Net sources

Topics

Release Planning in Agile Methods

- Characteristics of Agile Planning
- Stages of Agile Planning
- Release Planning

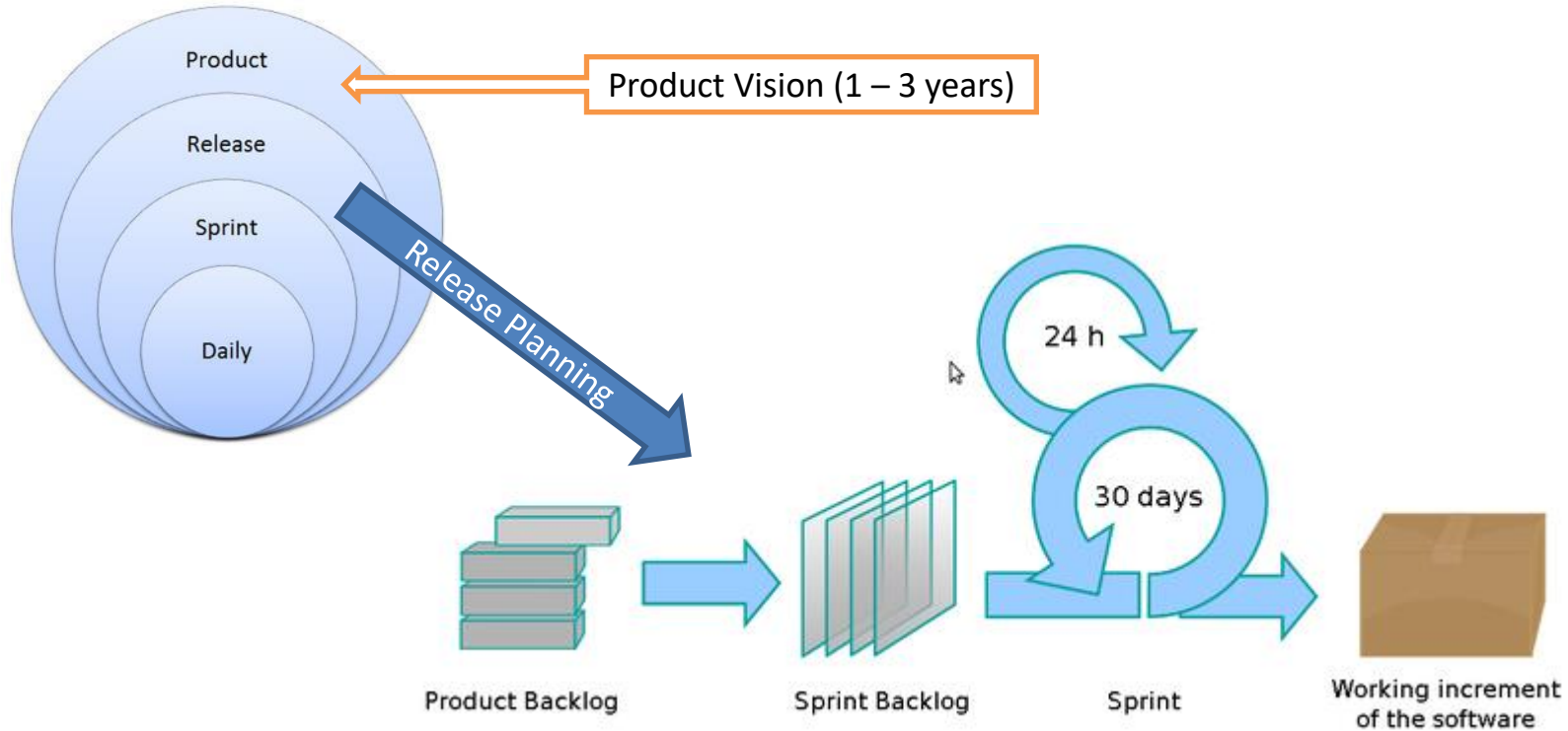
Planning is *Continuous*!

(Deming's Continuous Improvement Cycle)

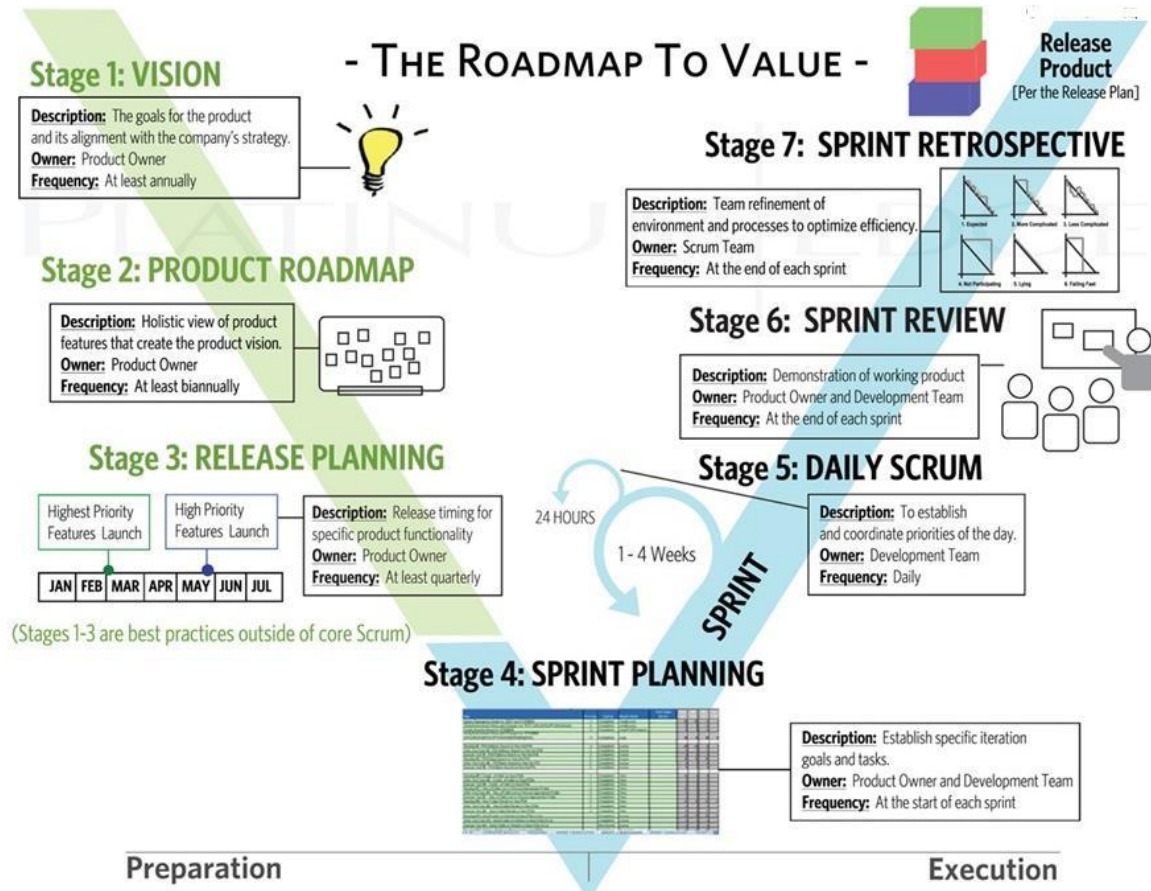
- Planning is NOT a One-time Activity at the Beginning of a Project
- Part of PDCA (Deming's Cycle of Continuous Improvement)
- PDCA vs. "Plan-the-Work, Work-the-Plan" (Waterfall Model)
- Agile Planning
 - Just-In-Time Planning / "Situational Planning"
 - Agile Planning is Continuous throughout the Project



Levels of Planning in Agile



Planning at *Every* Stage in Agile (SCRUM)



Source: (T2)

Key Characteristics of Agile Planning

- Planning occurs at every Stage
- Planning, like Development is Iterative
- Just-enough and Just-in-Time Planning at every Stage
- Progressive Detailing - start with a broad plan and narrow it progressively
- Prioritizing Value at every Stage: Add High-value Requirements first
- Adapt the Plan after Feedback at every Stage

Plan-Do-Inspect-Adapt

Agile Release Planning Stages in Detail



Stage-1: Defining Product Vision

- The Vision Statement (Summary) communicating Product Strategy
 - Product Goals aligned with Strategy
 - Owned by the Product Owner
 - Frequency: annually (minimum)
- Developing the Vision Statement
 - Develop the Product Objective
 - Draft the Vision Statement
 - Validate the Statement with Stakeholders and Revise after Feedback
 - Finalize the Vision Statement
- The Vision Statement must be:
 - Clear with Simple language
 - Non-technical (everyone can understand)
 - Brief (in one or two lines)
 - Internally focused (at development, not a sales pitch)

Vision Statement for Product:

For: _____ (Target Customer)
who: _____ (needs)
the: _____ (product name)
is a: _____ (product category)
that: _____ (product benefit, reason to buy)
Unlike: _____ (competitors)
our product: _____ (differentiation/value proposition)

Stage-2: Holistic Product Roadmap

- Derived from Project Vision
 - Identify Requirements that Define Product Roadmap
 - Arrange Requirements into Logical Groups
 - Estimate Effort and Prioritize Requirements
 - Set High-level Time-frame for each Group of Requirements
 - Beginning of the Creation of Product-Backlog
- ➔ Update the Product Roadmap throughout the Project (unlike Project Vision)

Common activities		Reduction in call volume	
Authentication and access to my accounts.	Pay bills.	Order checks.	Order a copy of a statement.
View balance.	Transfer money between accounts.	Put a stop on a check or range of checks.	Open an account.
View pending transactions.	View a statement.	Change password.	
View bills.			
Find a branch/ATM machine.	Call customer service.		

Stage-3: Release Planning

- Elaboration of Project Roadmap into Details
- A Release is a *Minimum* set of Marketable Requirements
- Requirements Breakdown Structure (WBS) by granular Decomposition
- “Epic-story ..→ User-stories”
- User-story: Simple Description of Requirements (user-walkthrough or benefit statement)
- Create *Personas* for each Class of Users
- Identify each Story by ID and set a Value (in terms of benefits or priority)
- Estimate Effort for each Story (“story points”)
- Document on Index-cards or Post-it Notes
- Product Owner manages the Stories
- Break Stories further into detailed Features/Tasks for Sprint Planning,

Title	Transfer money between accounts	
As	Carol,	
I want to	review fund levels in my accounts and transfer funds between accounts	
so that	I can complete the transfer and see the new balances in the relevant accounts.	
<u>Value</u>	<u>Jennifer</u> Author	<u>Estimate</u>

Stage-4: Sprint Planning

- A Sprint is a consistent (fixed-length ~ 1-4weeks) Iteration of Time in which Product takes Demonstrable Shape
- Sprint Backlog: List of User-stories (prioritized) with detailed WBS and Time-estimates
- Each Task to be completed in 1-2 days max (no over-committing, reduce Scope if necessary)
- Task Done → Developed, Integrated, Tested and Documented
- Development Team work only on one Requirement (Story/Tasks) at a time
- Only the Development Team can modify the Sprint Backlog
- Each Sprint includes:
 - Sprint Planning (max. 2 hours at the beginning of every week)
 - Daily Scrum Meeting (standup meeting for 15-20mins)
 - Development (bulk of the effort in Sprint)
 - Sprint Review
 - Sprint Retrospective

Stage-5: Daily Scrum

- Each Day can be a Planning/Replanning Day (Daily Scrum meeting)
- Daily Scrum Meeting to be Brief (~15-20mins Standup)
- Scrum Master to facilitate the meeting (review progress, roadblocks,...)
- Participants: Product Owner, Development Team and Scrum Master
- Focus of Meeting: Coordinate/Prioritize (Not to solve Problems)
- Update Sprint Backlog Daily (at the end of the meeting) and make it visible to everyone in the team

To Do		In Progress	Verify	Done
Code the... 9	Test the... 8	Code the... DC 4	Test the... 6	Code the... Test the... Test the... Test the... SC 6
Code the... 2	Code the... 8	Test the... SC 8		
Test the... 8	Test the... 4			

Stage-6: Sprint Review

- Sprint Review Meeting at the end of each Sprint to review and demonstrate User-stories that were completed during the Sprint
- Entire Team (Product Owner, Development Team, Stakeholders and Scrum Master) participates
- Product Owner confirms Status of Completion of Sprint (ready for Release of partial-working product)
- Invites Feedback from all Stakeholders
- Scrum Master to update Product-backlog for the next Sprint Planning

Stage-7: Sprint Retrospective

- Post Sprint Meeting (Scrum Master, Development Team and Product Owner) to discuss *the experience* of the Sprint – What went right and what went wrong
- Focus is on Continuous Improvement of the *Process* to improve *Efficiency* and *Velocity* of throughput
- Adapt Scrum Processes to improve morale of Team and their Work-life balance
- Lasting for ~45mins maximum for every week of the Sprint
- Opportunity to *Inspect and Adapt* (Plan-Do-Inspect-Adapt) Scrum Process

Preparing for Release

- End of every Sprint to be *Working and Demonstrable* Product
- A Sprint outcome can be a Release Sprint meant for Customers
- Sprint-backlog Items in a Release Sprint might include:
 - Creating User Documentation for the just finished Release
 - Testing of Key Non-Functional Requirements (Performance, Security, Load balancing,...)
 - Compliance with mandatory Organizational or Regulatory Procedures
 - Integrating with existing Organization's Enterprise Systems
 - Preparing Deployment Package (Installation scripts, etc)
 - Preparing a Release Note
- Note that Development for Regular Sprint is different that of Release Sprint
- Sprint Review meeting for Release to include Customer and Key Stakeholders from Marketing and Operations as well

Summary: Release Planning

- Planning is Continuous in Agile – at every Stage in the Scrum Process (Release Planning, Daily Scrum, Sprint Review)
- Each Release may span one or more Sprints
- Agile Planning is planning for a pre-determined number of Releases to Customers
- Planning for Release involves more Tasks (Sprint-backlog) than for regular Sprint
- Sprint Retrospective Meeting identifies Opportunities for Improvement in the Scrum Process and implements them before the next Sprint cycle

**More Meetings, More Sharing of Information/Feedback,
Near-Real-Time Visibility into the Product, and finally
'Unsurprising' and Acceptable Product Release(s)!**

Thank You

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