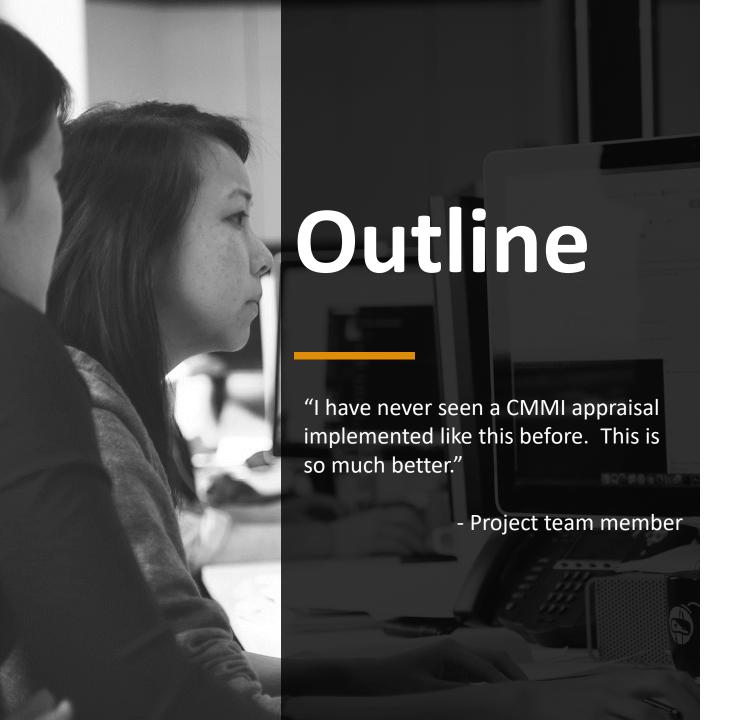


Value-driven CMMI:

An Agile-based Approach to CMMI

Implement and appraise CMMI using agile practices to produce frequent delivery of intended organizational value while removing waste and overhead



Introductions Introductions and setting the stage

- Overview

 Overview of CMMI, its intentions, and applicable history
- Shared Interest
 Show how CMMI aligns with agile
- Share a value-driven agile-based approach to CMMI implementation as well as appraisal preparation describing agile mindset, practices, and tools
- Q&A

 Questions and audience-driven discussion

Learning Objectives

- CMMI is a valuable model when implemented in a valuable way
- Understand the commonality between Agile and CMMI
- Hear key changes in the CMMI v2.0 model and supporting appraisal method
- Know that a value-driven agile approach can be used to implement CMMI and facilitate appraisal preparation, and understand why it is so beneficial to do so

Who We Are



Tara Lemieux

- 25+ years working within National Level, Military Intelligence, and Commercial industries to ensure compliance with applicable laws, methodologies and standards
- Lead Auditor for ISO 9001, 27001, 20000-1, CSM, and CMMI Early Adopter
- Author of the book, "So, You're Planning an Appraisal: The Complete Guide to CMMI Appraisal Management"
- Lead Innovator, seeking opportunities to encourage value while building internal capabilities



John Hughes

- Organizational Coach, Lead Sevatec's Business Agility practice
- 21 years Federal IT delivery
- Participated on both sides of the table over 4 CMMI appraisals in the early 2000s
- On the organization's side for a current CMMI appraisal

How We Came to Be



A New Perspective

Major Frustrations:

- Not creating value for the organization
- Overhead and waste to "check a box"
- Long stages of effort to implement and prepare before any feedback or potential benefit

Proposed Solution:

- Effect a shift in perspective; move away from an artifacts-driven approach to a value-driven approach
- Develop a method that places the needs of the organization over that of the external standard
- Focus on evolving internal capabilities

Major Frustrations:

- Appraisal preparation cycles were often long and very costly
- Too focused on artifacts, too little about value
- Method encouraged stove-piping of organizational efforts, subsequently diminishing ROI

Typical Impediments



ownership in the right place

Organizations struggle to realize benefit to their investment

beneficially engage Traditional command-andimprovement efforts control approach causes perception of overhead and burden, does not create

organizations as a checkthe-box activity so that they may compete for work requiring CMMI credentials

traditional beliefs, working in traditional ways

What is the CMMI?

"The Capability Maturity Model Integration (CMMI) is a globally recognized set of best practices that enable organizations to improve performance, key capabilities, and critical business processes."

Source: CMMI Institute

More importantly, the best practices provided present a succinct means by which organizations may expand their existing capabilities, resulting in:

- Reduction in re-work and re-planning efforts;
- Improved efficiencies across business units;
- Improved program insight, control and tracking; and
- Higher customer satisfaction.



Look, We All Want The Same Things

CMMI intent...

- A flexible, integrated means of helping organizations build and measure capabilities in order to improve performance and align operations to business goals
- CMMI helps organizations understand their current level of capability and performance and offers a guide to optimize business results

Don't agilists want these same things?

- A goal-oriented, data-driven approach to continuous improvement and delivery maturity
- Consistent ability to delivery highest quality business value

Value-driven Approach

Alignment to Value

- Establish and communicate purpose and intended value
- Prioritize Implementation backlog by organization's greatest needs
- Focus on those things that bring the greatest maturity, soonest

Enabling Org Structure

- Enable the right behaviors and ownership
- Delivery programs own CMMI success, not the SEPG
- SEPG "just another team" with a role to perform

The Right Mindset

- Mindset of partnership and value, not centralized command and checking boxes
- Fast feedback for continuous improvement
- · Creating a culture of learning



The Right Team

- Cross-functional team of implementation leads to scale across the org
- Internal change team/SEPG to partner with organization and programs

Tools and Visual Radiators

- Enable effective tracking and management, communication, and shared awareness
- Efficient collaboration
- Connect all the dots, aggregate the experience
- Tell the story, not just the list of practices and artifacts

Measure Value Delivered / Continuous Improvement

- Sprint Reviews, Retrospectives, Burn charts
- Measure value delivered
- Continuously improve to seek ever greater value
- Build continuously more confidence over time

Lean Agile Implementation

- Remove waste and overhead; Lean out traditional practices that added little-to-no value
- Focus on the intended benefit, not an indirect measures
- Leverage modern tools to "document" and share awareness
- Limit WIP
- Scrum-based approach for frequent delivery of value
- Collaborative Workshops similar to Pair Programming
- Update Wikis each Sprint to tell each program's "story"
 - No More PIID!!!

Updates to the CMMI model and Appraisal method

 ISACA realized the need to change in order to create greater benefit to organizations

 Feedback indicated that appraisals were too cumbersome and costly

 lacked ability to inform more modern practices used by many organizations

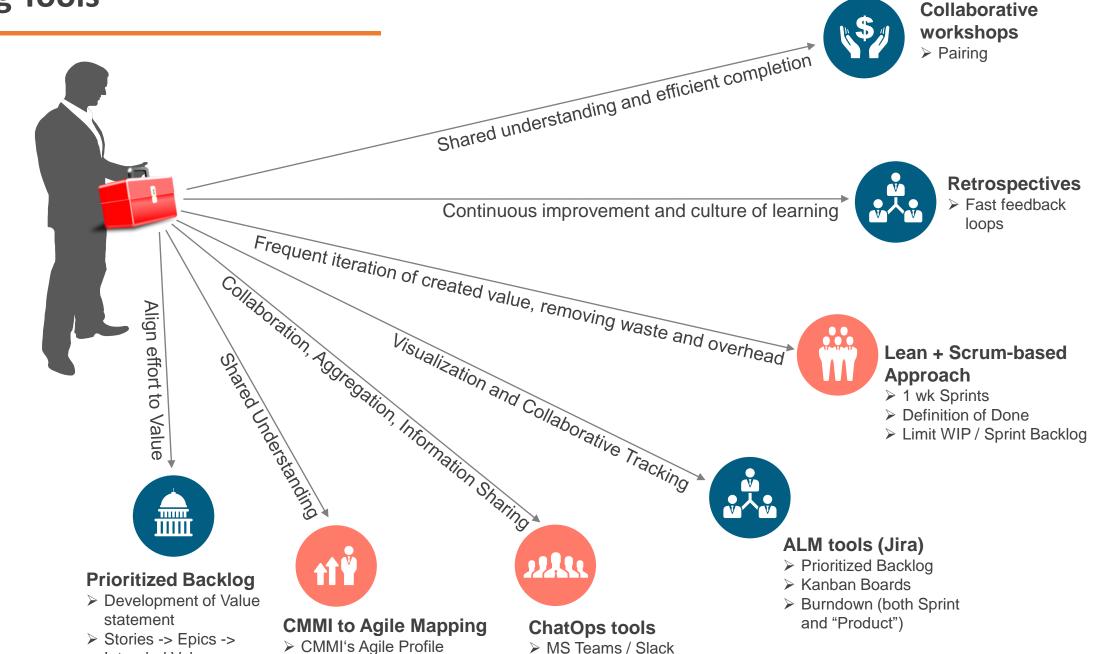
 Realized the need to relax expectations related to artifacts generation

 Adopted a performance-oriented appraisal method to improve the reliability and consistency of benchmarking while reducing preparation time and lifecycle costs



Enabling Tools

Intended Value



Benefits of This Approach

- Organization and participants much happier and appreciative
- Greater value created sooner
- Ownership of delivery maturity / quality transferred to the delivery programs
- Reduced risk and allowed quick increases in confidence
- More consistent, higher quality practices and deliverables
- Approach accommodates numerous benchmarking methods and standards
 - Enterprise approach rooted in agile used for ISO audits as well as CMMI appraisal



Resources

• CMMI and Agile: https://cmmiinstitute.com/special-pages/agile

- "CMMI, the Agile Way": https://cmmiinstitute.com/resource-files/public/marketing/document/cmmi-the-agile-way
- "Agile Comes with Maturity": https://cmmiinstitute.com/resource-files/public/marketing/article/agility-comes-with-maturity-(1)

Agile with Scrum and CMMI® Working Together to Create True
 Organizational Agility (Webinar):
 https://www.youtube.com/watch?v=TqqugPYedmY&feature=youtu.be

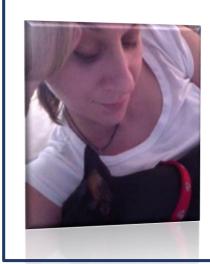




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