



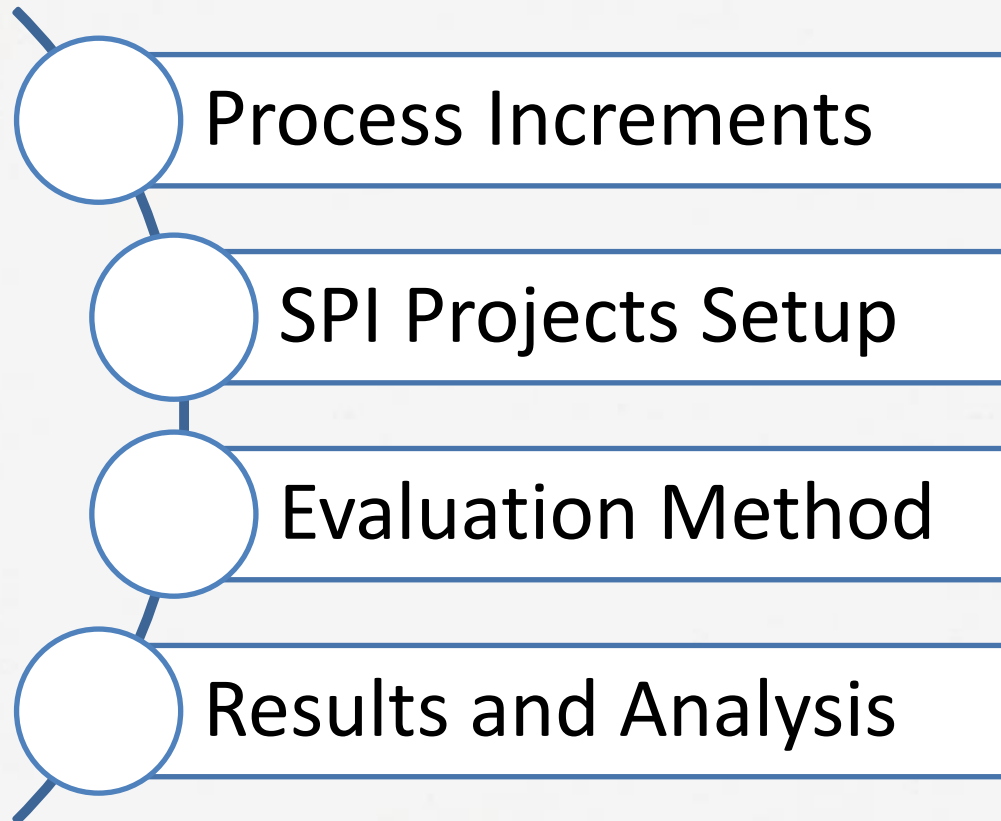
AGILE2015 AUG 3-7
WASHINGTON, D.C.

Lean CMMI: An Iterative and Incremental Approach to CMMI-Based Process Improvement

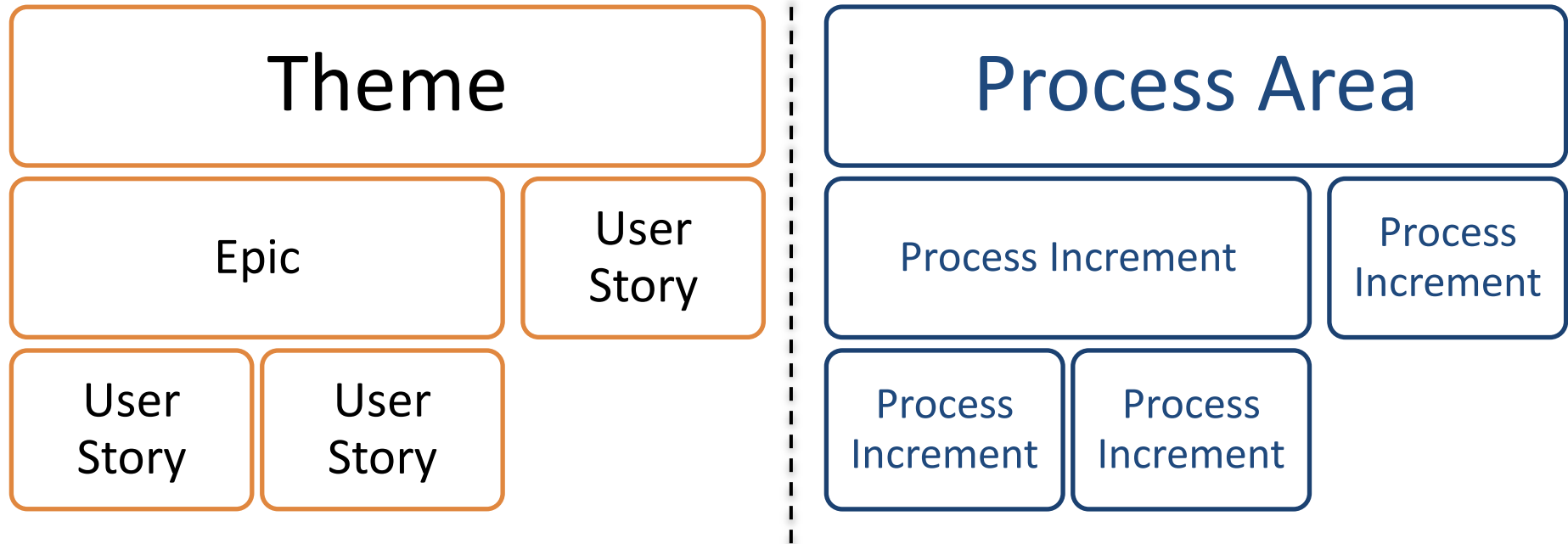
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Agile Academy

Agile 2015, Washington D.C.
August 2015

Agenda



Process Increments



- A *process increment* is a process improvement chunk which can be implemented in a relatively **small** time (1-2 weeks) and still provide **value** for the organization

Daily Standups

2

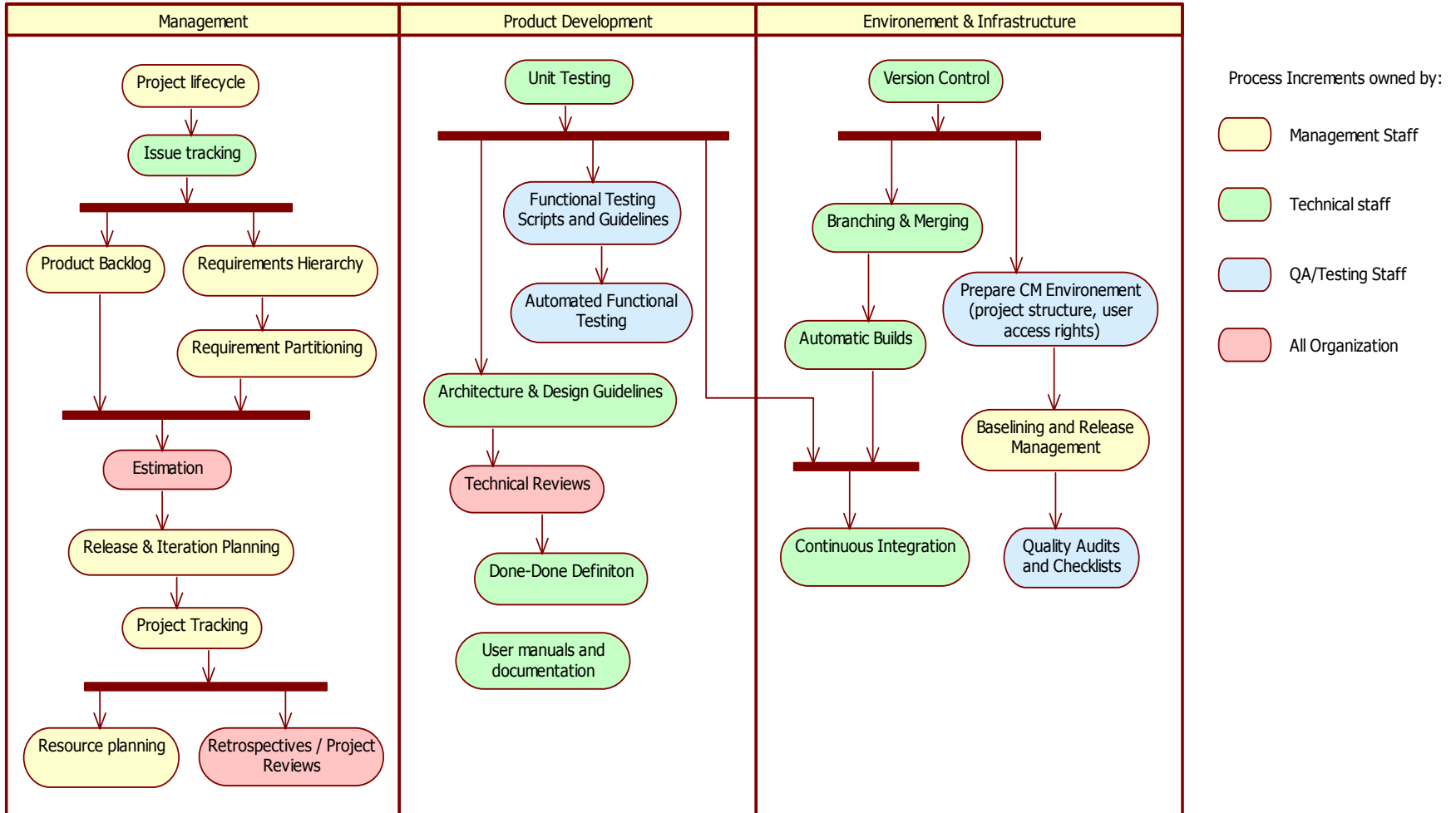
- Verify that the daily standup meetings are conducted daily in a consistent manner considering:
 - A timeboxed duration (15 mins max)
 - All team members attend including the ScrumMaster and PM (if any)
 - Daily progress is reported and impediments highlighted only not discussed
 - Sprint burn-down chart updated before the meeting

Version Control

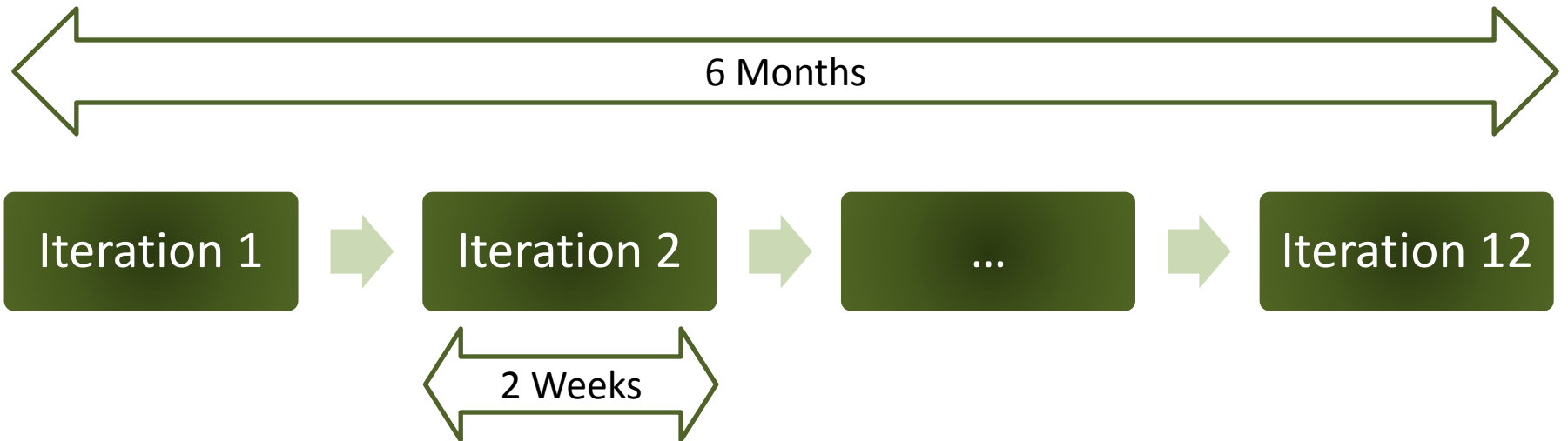
8

- Verify that a VC tool is installed and configured
- Verify that VC tool is integrated with IDE and Issue Tracking tool
- Verify that a repository structure is defined and used
- Verify that Naming Conventions are defined for different file types
- Verify that a check in/out procedure is defined and implemented

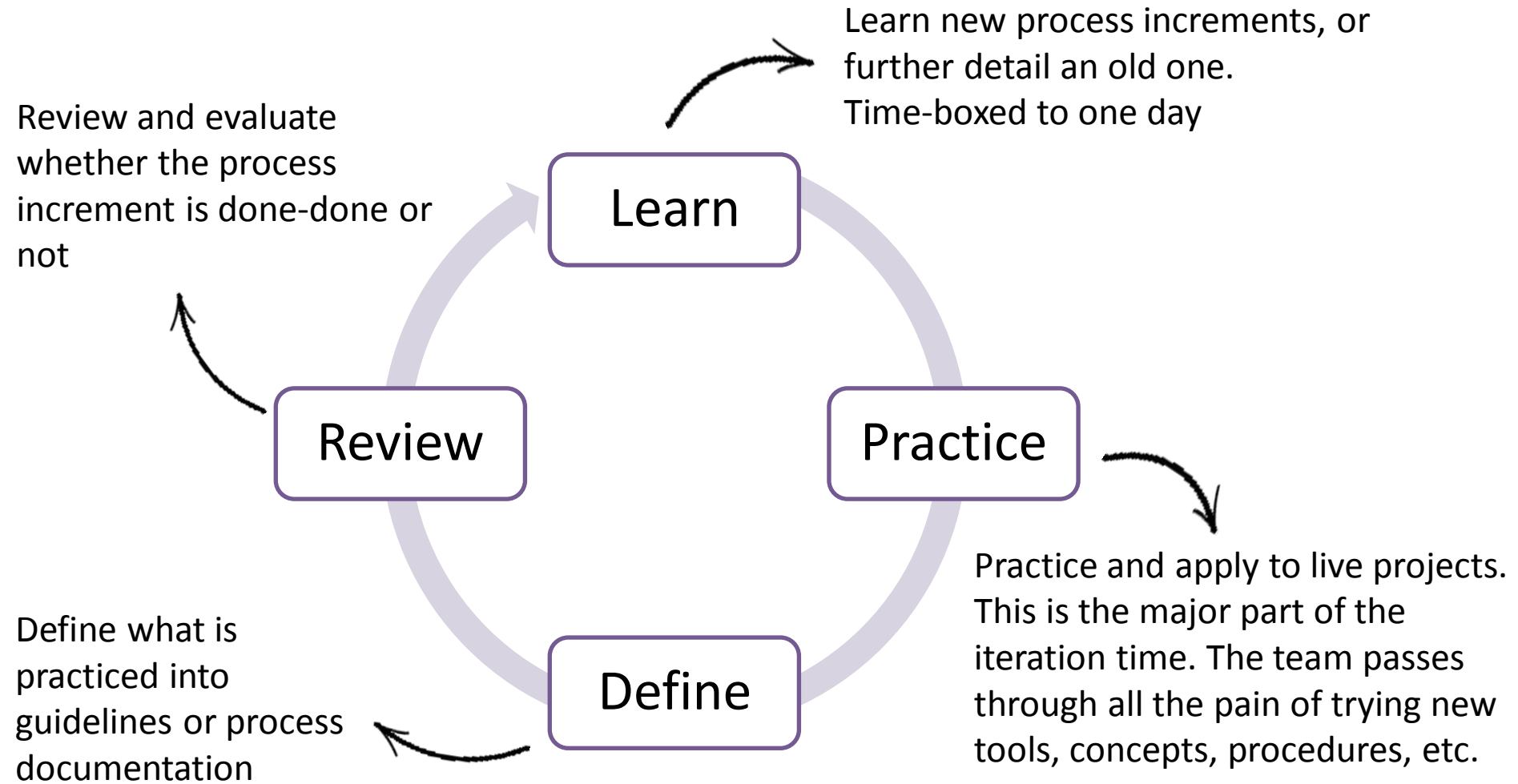
The Project Scope



SPI Projects are Typical Agile Project



Inside an Iteration



Improvement Velocity Readings

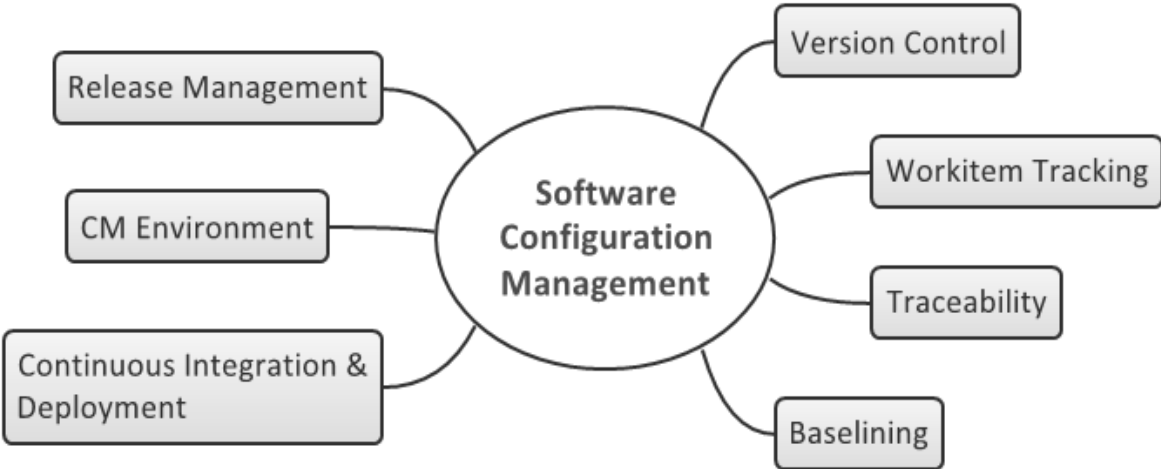
Company	Total Scope (points)	Total Completed (points)	Accomplished	Average Velocity (points/iteration)
1	251	182	72.5%	18.2
2	301	231	76.7%	23.1
3	283	278	98.2%	25.3
4	297	268	90.2%	24.4
5	230	222	96.5%	20.2

CMMI Goals and Practices for SCM

SG 1	Baselines of identified work products are established
SP1.1	Identify the configuration items, components, and related work products that will be placed under configuration management.
SP1.2	Establish and maintain a configuration management and change management system for controlling work products.
SP1.3	Create or release baselines for internal use and for delivery to the customer.
SG 2	Changes to the work products under configuration management are tracked and controlled
SP2.1	Changes to the work products under configuration management are tracked and controlled.
SP2.2	Control changes to the configuration items.
SG 3	Integrity of baselines is established and maintained.
SP3.1	Establish and maintain records describing configuration items.
SP3.2	Perform configuration audits to maintain integrity of the configuration baselines.



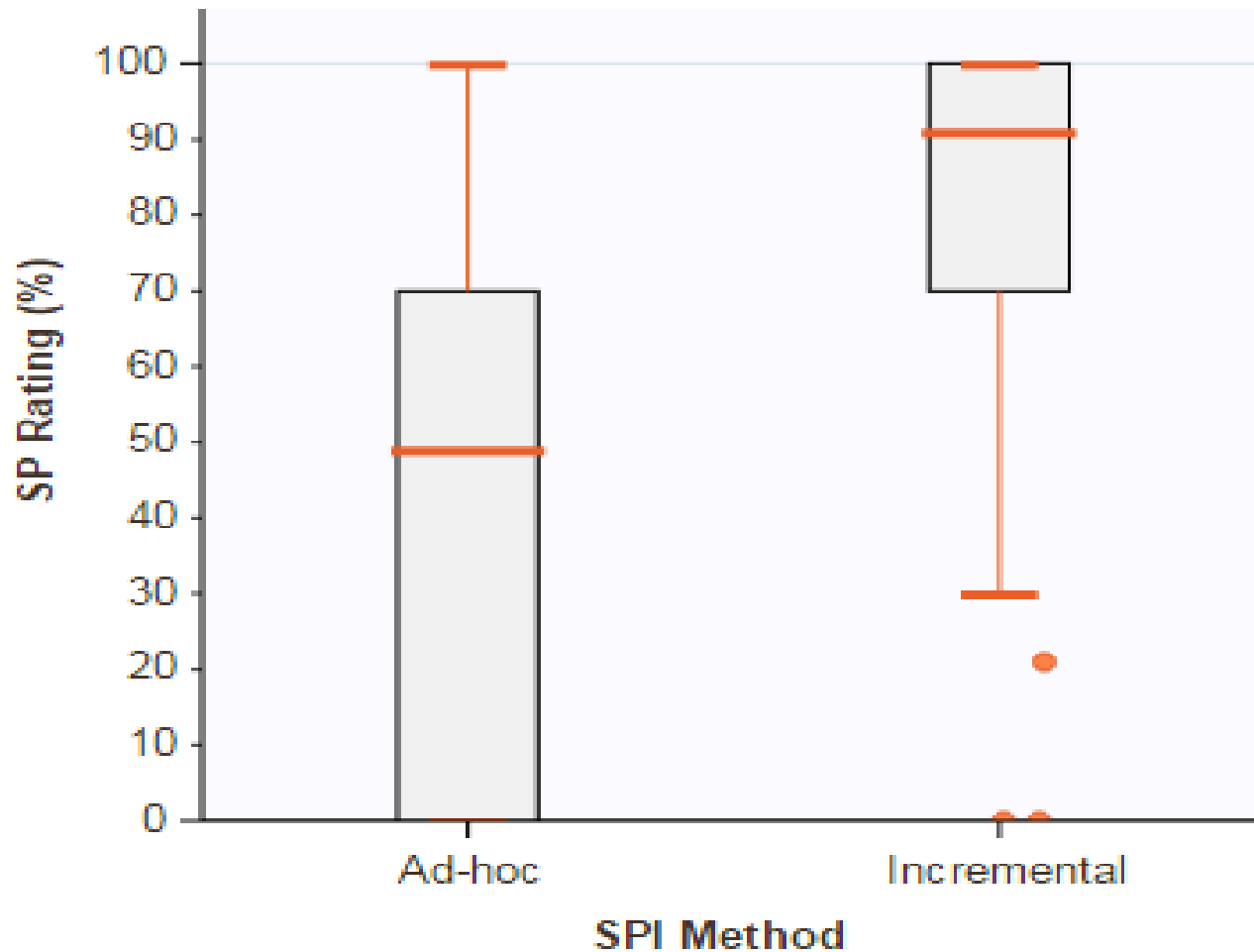
Process Increments for SCM



Evaluation Method: SCAMPI Method

- CMMI Specific Practices are evaluated in two dimensions:
 - **Process Definition:** Amounts for **30%** of SP rating
 - **Process Implementation:** Amounts for **70%** of SP rating
- Process definition and implementation are given one of the four scores:
 - Fully Implemented (FI) score: 100%
 - Largely Implemented (LI) score: 70%
 - Partially Implemented (PI) score: 40%
 - Not Implemented (NI) score: 0%

Comparing Results



Tracking Process Increments

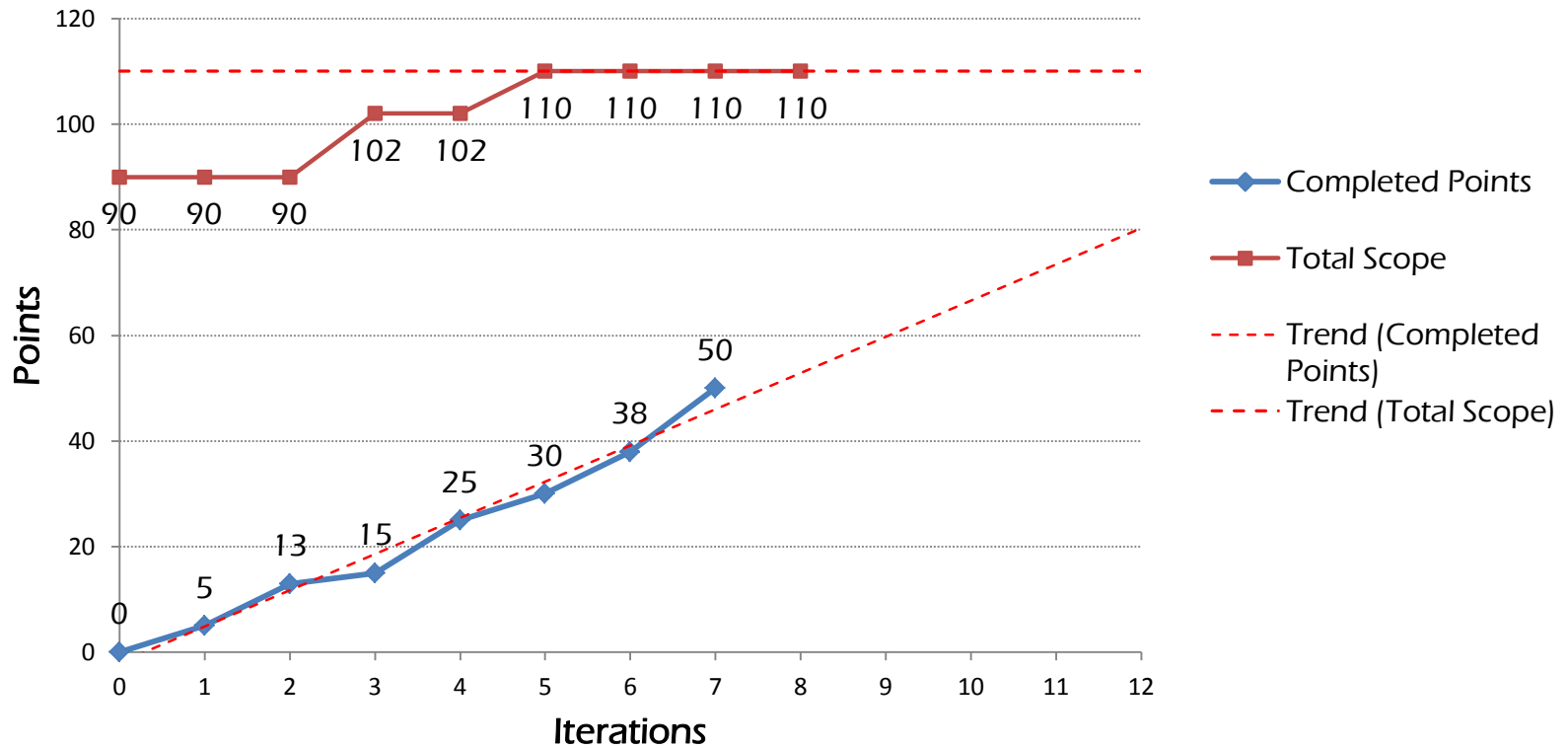
“Burn charts have become a favorite way to give visibility into a project’s progress. They are extremely simple and astonishingly powerful”

-- Alistair Cockburn

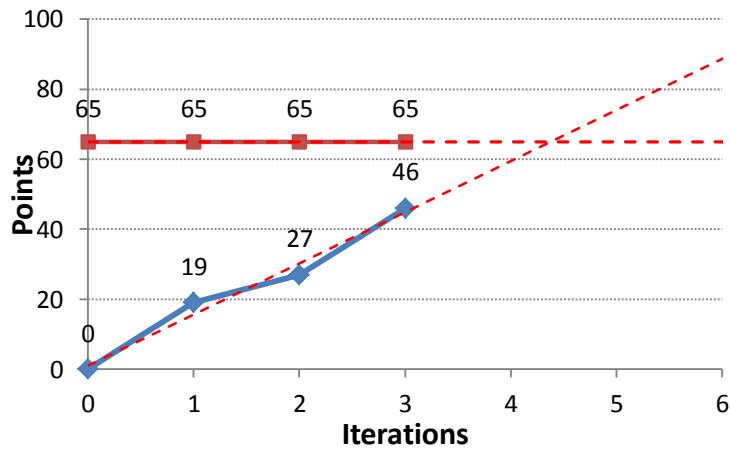
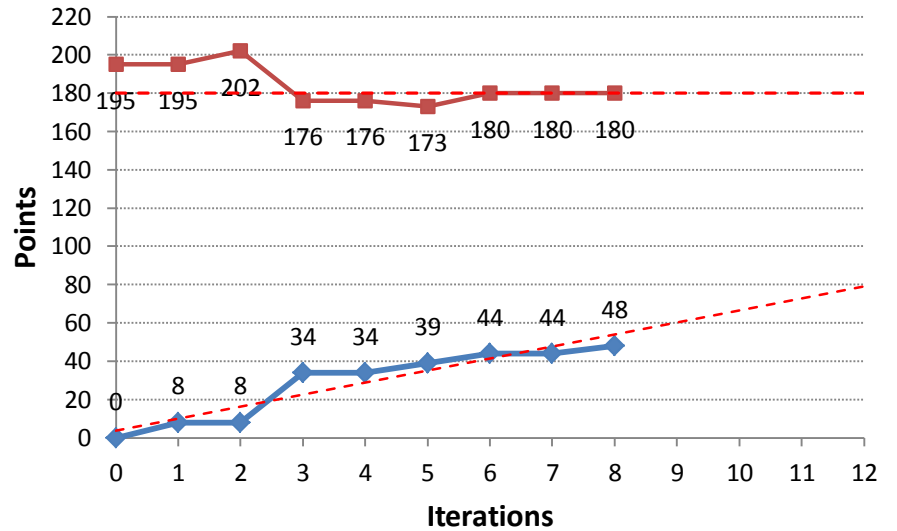
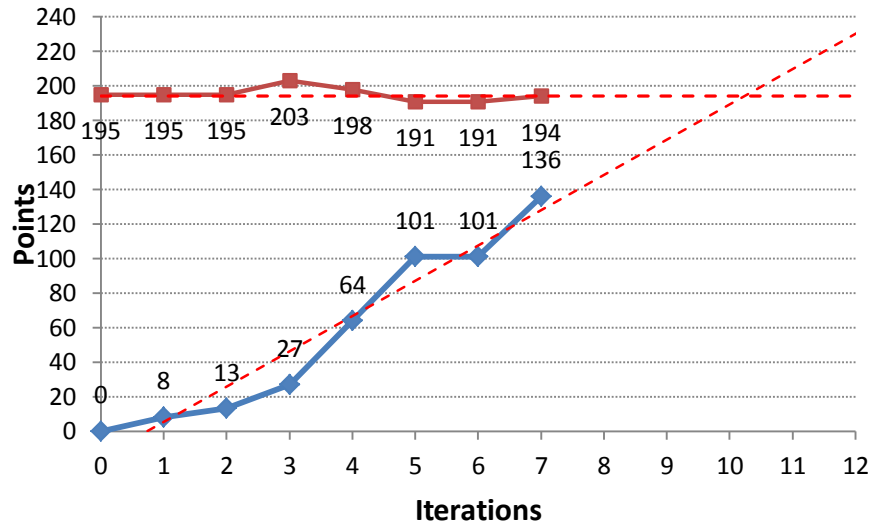


Tracking Process Increments

Project Burn-up Chart



Tracking Process Increments



Sample burn-charts from previous projects

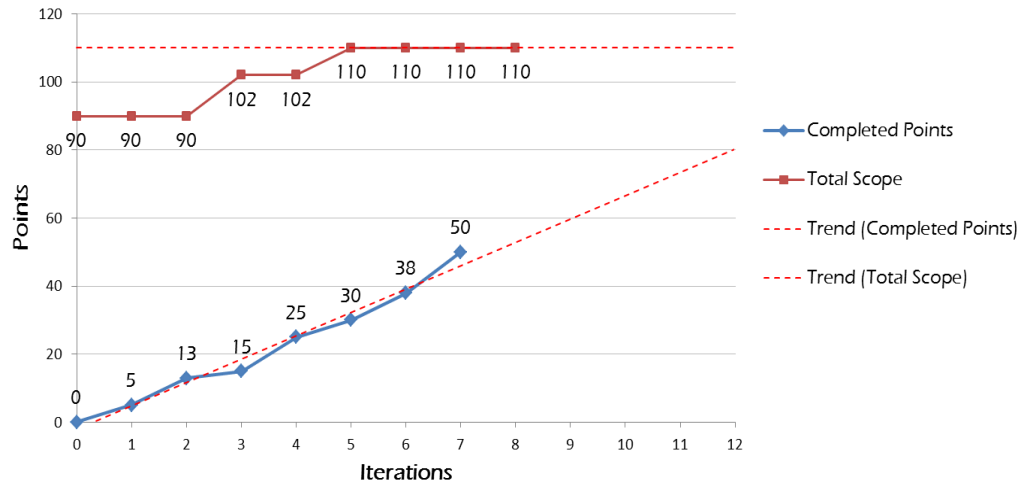
Name other types of project which has:

- High Risks
- Poor Visibility



- Divide your work into small valuable pieces
- Work on cadence to enable ongoing status reporting

Project Burn-up Chart



Questions ?

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