

Earned Value Challenges in An Agile Acquisition Paradigm

2015 EVM World

27 May 2015

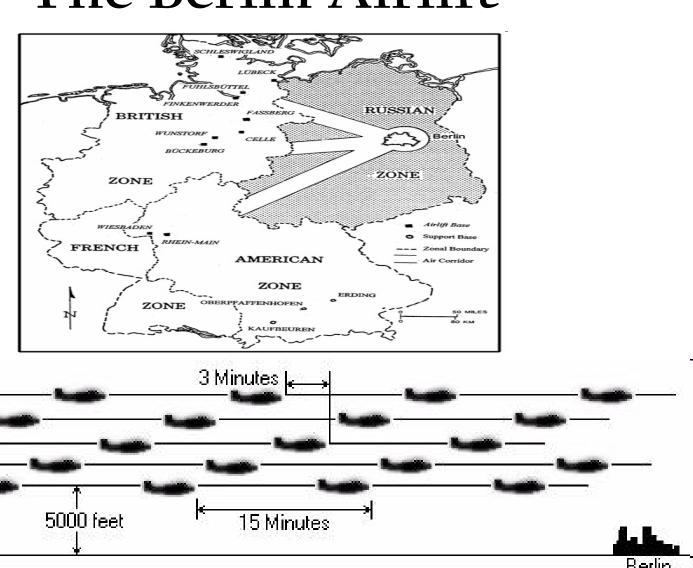
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500 feet 1

Rhein-Main

The Berlin Airlift



Cross-sectional view of flight into Berlin as of Sep. 1948. This arrangement allowed for landing at the rate of one plane every 3 minutes. Later, two levels were used with spacing that allowed for landing at the same rate.

1



Structuring an Agile Program

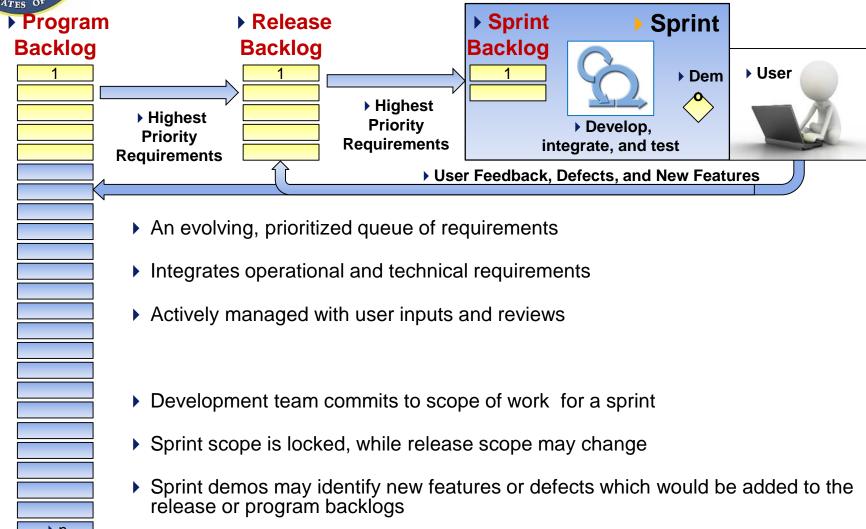
Time Boxed Release

January	February	March	April	May	June	
Sprint 1	Sprint 2	Sprint 3	Sprint 4	Sprint 5		
Develop o Integrate Test Delivery	Feedback	Develop Integrate Testing, Op	Develop Integrate Test Test erational Assess	Develop Integrate Test	Final Release Test and Cert	Deployment Decision

- ▶ Notional: 6 Month Release with 4-Week Sprints
 - Continual development, integration, and testing
 - Monthly demonstration of capabilities to users
- ▶ Gov't testers, certifiers, and users involved early and often
 - Minimizes work and surprises at the end of the release
 - Release Length Based on Program, Ops, and Technical Risk



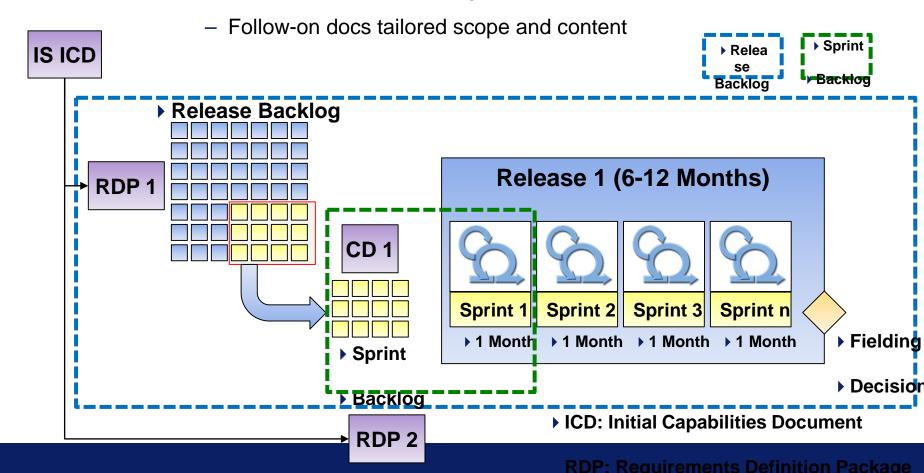
Agile Requirements Backlog





JCIDS IT Box Model

- Streamlined requirements process for software >\$15M
- ▶ JROC approves IS-ICD delegates approvals of follow-on docs



Central Question for EV in Agile: How to correctly *VALUE* content shifted?

- ▶ This is not a "new" problem; it has always been faced when addressing changes in target price when partially completed CLINs are cancelled
 - That does not mean that there have not been problems . . .
- ▶ PARCA's position is clear:

STATES OF

- ""(iv) Analysis of Proposals that include termination of any contract scope should use earned value budget values and should not use earned value estimated values as part of their estimation/proposal process. In no instance should a credit (reduction) in contract value exceed the amount of value that was originally placed on contract. (reference FAR Table 15-2 (III)(B) Change Orders, Modifications, and Claims)."
- ▶ The same principles would apply to an Agile project



Conclusion: What are the implications for EV practice on Agile-managed projects?

- Agile projects require, if anything, more attention to baseline establishment
 - Project must anticipate what are the elements of content that are likely to be in the pool to be shifted; this is often easier than it seems
 - These elements should be baselined separately, with budget
- In execution, the Sprints are not what are EV tracked, but their content
 - We expect content elements to shift; as they do their respective ACWP and BCWP are transferred in and out of the "Release Backlog"
 - Program metrics will then reflect the content in the current program
- ▶ There will, inevitably, be content shifts proposed that are not anticipated; a best effort must be made to create a "fair" division of ACWP and BCWP.