BEST ‘NEXT’ PRACTICES

Wade Knudson, Raytheon

2016 Project Management Symposium
DDG 1000 Program: Challenges & Solutions

Wade Knudson
DDG 1000 Program Director
DDG 1000 Launch: 28 Oct 2013
DDG 1000
Key Technologies

Total Ship Computing Environment
MK57 Vertical Launch System
Hull-Mounted Sonar

Electronic Modular Enclosures
Peripheral Vertical Launch System
Why Agile?  
More Effective Model

Waterfall Lifecycle Model

- Activities batched into large stove-piped phases
- "Big Bang" Integration
- Later defect discovery
- Later risk identification & mitigation

Agile Lifecycle Model

- Time Box phases which complete all activities
- Delivers tested, deployable software earlier
- Small Batch integration
- Earlier defect discovery
- Earlier risk identification & mitigation
- Additional measures to track Product and Sprint performance (Release Burndown, Sprint Burnup, Scrum Team Velocity)

"Industry must understand that both Affordability, and schedule, will now become as important as Technical Capability. We are committing ourselves on each Program, to achieve the best-available output by a specific-date."

- Ashton Carter Sep 2010

5/11/16 | 5