## Disciplined Agile Delivery (DAD) and CLM: The Foundation for Agility@Scale

Cherifa Mansoura WW Offerings Lead-Rational Education cherifamans@ca.ibm.com



The Premier Event for Software and Systems Innovation



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## Agenda





## An ALM solution powered by Jazz

**Rational solution for Collaborative Lifecycle Management** 

### **CREATE SOFTWARE**

Real-time Planning, Lifecycle Traceability, Team Collaboration, Development Intelligence, Continuous Process Improvement





## Criteria for effective lifecycle management: ALM imperatives





## Agenda





## What is Disciplined Agile Deliver (DAD)?

The Disciplined Agile Delivery (DAD) process
 framework is a people-first, learning-oriented hybrid
 agile approach to IT solution delivery. It has a risk-value
 lifecycle, is goal-driven, is scalable, and is enterprise
 aware.





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## What does it mean to be agile?

Disciplined agile teams:

- 1. Value: Produce a consumable solution on a <u>regular basis</u> which provides value to stakeholders.
- 2. Validation: Do <u>continuous</u> regression testing, and better yet take a Test-Driven Development (TDD) approach.
- 3. Stakeholders: Work <u>closely</u> with their stakeholders, or a stakeholder proxy, ideally on a daily basis.
- 4. Self organization: Are self organizing and work within an <u>appropriate</u> governance framework.
- 5. Improvement: <u>Regularly</u> reflect on, and <u>measure</u>, how they work together and then act to improve on their findings in a <u>timely</u> manner.

#### Survey says:

- Value: 94%
- Validation: 87%
- Stakeholders: 95%
- Self organization: 56%
- Improvement: 88%
- All 5: 53%
- Everything but self organization: 72%

Source: 2010 How Agile Are You Survey, www.ambysoft.com/surveys/



## Agenda



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## The Scrum construction lifecycle: A good start







## The Disciplined Agile Delivery (DAD) life cycle



The Disciplined Agile Delivery (DAD) process framework is a people-first, learning-oriented hybrid agile approach to IT solution delivery. It has a riskvalue lifecycle, is goal-driven, is scaleable, and is enterprise aware.



## Disciplined Agile Delivery (DAD): A Hybrid Framework



DAD is a hybrid process framework.

DAD adopt best practices and philosophies from several methodologies.





# The Agile 3C rhythm

 The coordinate-collaborate-conclude rhythm occurs at several scales on a disciplined agile delivery (DAD) project:



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## Goals Throughout the DAD Lifecycle

Goals for the Inception Phase	Goals for Construction Phase Iterations	Goals for the Transition Phase
<ul> <li>Identify the vision for the project</li> <li>Bring stakeholders to agreement around the vision</li> <li>Align with enterprise direction</li> <li>Identify initial technical strategy, initial requirements, and project plan</li> <li>Form initial team</li> <li>Secure funding</li> <li>Identify risks</li> </ul>	<ul> <li>Produce a potentially consumable solution</li> <li>Address changing stakeholder needs</li> <li>Move closer to deployable release</li> <li>Maintain or improve upon existing levels of quality</li> <li>Address highest risk(s)</li> </ul>	<ul> <li>Ensure the solution is production ready</li> <li>Ensure the stakeholders are prepared to receive the solution</li> <li>Deploy the solution into production</li> </ul>
Ongoing Goals		
<ul> <li>Fulfill the project mission</li> <li>Grow team members skills</li> <li>Enhance existing infrastructure</li> </ul>	<ul> <li>Improve team process and environme</li> <li>Leverage existing infrastructure</li> </ul>	nt





## People First: Potential roles on disciplined agile teams

- Primary roles:
  - Stakeholder
  - Team Lead
  - Product Owner
  - Agile Team Member
  - Architecture Owner
- Secondary/optional roles:
  - Domain Expert
  - Technical Expert
  - Independent Tester
  - Integrator
  - Specialist



## People's rights and responsibilities

Everyone's right

- Be treated with respect
- Receive and create quality work products
- Estimate your own activities
- Contribute to continuous improvement of your organization's software processes

#### Everyone's responsibility

- Meet stakeholder needs within the resources that they are willing to invest.
- Be transparent by sharing all information, including "work in progress"
- Attend coordination meetings in person or remotely, if not colocated
- Proactively improve individual and team's performance
- Avoid accepting work currently outside the current iteration



**Build Quality In** 



**Focus on Learning** 

**Respect People** 





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# Scaling Agile is to deliver end-to-end visibility across teams, tools and projects?





## Agile Scaling Model (ASM)



### **Core Agile Development**

Focus is on construction

 Goal is to develop a high-quality system in an evolutionary, collaborative, and self-organizing manner

Value-driven lifecycle with regular production of working software

Small, co-located team developing straightforward software

#### **Disciplined Agile Delivery**

- Extends agile development to address full system lifecycle
- Risk and value-driven lifecycle
- Self organization within an appropriate governance framework
- Small, co-located team delivering a straightforward solution

#### **Agility at Scale**

Disciplined agile delivery and one or more scaling factors applies



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## Agile scaling factors





## Disciplined Agile Delivery (DAD) teams are enterprise aware

- DAD teams recognize teams work in an organizational ecosystem
- They try to leverage and enhance that ecosystem as much as possible
- DAD teams:
  - Work closely with enterprise professionals
  - Leverage existing assets
  - Evolve existing assets
  - Follow enterprise conventions, such as coding guidelines, data guidelines, and user interface standards
- Teams must be enterprise aware if they're to follow lean's advice of optimizing the whole





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### Work closely with enterprise groups

### General

- Work collaboratively and iteratively
- Trust and respect crucial
- Command and control strategies are ineffective

### Enterprise architects (EA)

- Should provide technical guidance
- > An EA may act in the role of your architecture owner for critical projects

### Data management

- > Data professionals can and should work in an agile manner
- > Too many data professionals still cling to outmoded, traditional strategies
- See www.agiledata.org

### Process group

- > Agile teams improve their process throughout the project
- > Agile teams should work with process groups to share their learning





## Agenda





# Scaling Agile is to deliver end-to-end visibility across teams, tools and projects?





## Mapping practices to CLM components



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## DAD directly maps to imperatives of ALM

ALM Imperatives Real-time Planning Lifecycle Traceability In-Context Collaboration Development Intelligence Continuous Improvement DAD Essentials Agile Goal Driven Team / People First Enterprise Aware Scalable

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## How CLM helps a DAD Team be Agile

- Automation supports DAD process and agile practices.
- Measurement/continual improvement is facilitated by a good automation
- Producing a working solution on a regular basis which provides value to stakeholders.
- Support self-organization and the whole team collaboration
- Producing high quality solution





# How CLM helps a DAD Team be Goal driven : CLM supports agile 3C rhythm



Release rhythm	Inception	Construction	Transition
	Coordinate	Collaborate	Conclude
Iteration rhythm	Iteration Planning	Development	Stabilize
	Coordinate	Collaborate	Conclude
Daily rhythm	Coordination Meeting	Daily work	Stabilize
	Coordinate	Collaborate	Conclude
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# How CLM helps a DAD Team be Goal driven : The Inception Phase



<u>Support a Milestone Driven framework,</u> <u>Regularly</u> reflect on, and <u>measure</u>, how they work together and then act to improve on their findings in a <u>timely</u> manner.



# How CLM helps a DAD Team be Goal driven : The Construction Phase



<u>Regularly</u> reflect on, and <u>measure</u>, how they work together and then act to improve on their findings in a <u>timely</u> manner (on a daily basis and during each iteration)



# How CLM helps a DAD Team be Goal driven : The Transition phase



<u>Support a Milestone Driven framework,</u> <u>Regularly</u> reflect on, and <u>measure</u>, how they work together and then act to improve on their findings in a <u>timely</u> manner.



## How CLM helps a DAD Team to Collaborate

- Team Organization
  - RTC represents your projects and teams as Project Areas optionally containing a hierarchy of Team Areas.
- Process and Team Awareness
  - Each Project Area defines its own process, which the teams within the project can customize to fit their needs
- Who is who
  - With CLM project administration, You can define the set of roles, permissions that are available within a project or team area and all across the three tools
- How you organize your work
  - Each project area contains a hierarchy of iterations that define the heartbeat of your project, these distinct iteration schedules can be represented as multiple timelines.







## How CLM helps a DAD Team be Scalable and Enterprise Aware

- Is deployed for distributed and larger teams
- Support other Scaling Factors
- > Allows Enterprise Deployment
- Support Enterprise Assets reuse
- > Allows access to enterprise stakeholders





### Disciplined Agile Delivery (DAD) offerings

### DAD training (PMI approved, registered under provider number 1107)

- Introduction to disciplined agile delivery: Self-paced virtual class (16 PDUs)
- Advanced disciplined agile delivery: 3 days (21 PDUs)

### **Related Training**

- Applying DAD with User Stories (RV037)
- Applying DAD with Use Cases (RV036)
- For more info, visit the Rational Agile Training Page at www.ibm.com/jct03001c/services/learning/ites.wss/us/en?pageType=page&c=Z34 0950B41583X73

### **DAD Services**

- DAD with RTC quick start
- IBM Rational Rapid Deployment for Agile Delivery
- Collaborative Lifecycle Management (CLM) for IT

### **DAD Products**

The DAD process template for Rational Team Concert (RTC)



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#### scott\_ambler [at] ca.ibm.com

#### twitter.com/scottwambler

#### www.ibm.com/developerworks/mydeveloperworks/blogs/ambler/

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# Backup slides



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## Tower of Babel: Agile terminology

Disciplined Agile	ХР	Scrum	Other
Team lead	Coach	Scrum master	Project manager
Iteration	Iteration	Sprint	Timebox
Daily stand up meeting	Daily stand up	Scrum Meeting	Coordination meeting
Retrospective	Retrospective	Sprint retrospective	Reflection meeting
Product owner	Customer	Product owner	Stakeholder representative
Team Member	Extreme programmer	Team member	Developer
Iteration review	-	Sprint review	-

Important: Each agile method has its own terminology. It is highly unlikely that the industry will ever standardize the terminology.



# With CLM, DAD Team Collaborate to detail User Stories with Rational Requirements Composer





# With CLM , DAD Team Collaborate on Product Backlogs and Iteration Plans





## With CLM DAD Team Collaborate throughout an Iteration





### DAD Team Adopt Agile Development with Rational Team Concert





## With CLM, DAD Team Build Quality in

