IBM Software Innovate2012 The Premier Event for Software and Systems Innovation Next Now!



Welcome

Charles Lupton

Business Unit Executive, UKI Rational



IBM Software

Innovate2012

The Premier Event for Software and Systems Innovation



FIRE INSTRUCTIONS

IF YOU DISCOVER A FIRE

- 1. Immediately operate the nearest fire alarm call point
- Try to put out the fire if possible with the appliances provided but without taking personal risks

ON HEARING THE FIRE ALARM

- The alarm will sound for a short time and then go off. If it does not sound again, it was a practice or a false alarm
- If the alarm sounds again and remains on, then evacuate as quickly and calmly as possible through the nearest fire exit
- 3. The duty manager or receptionist will call the fire brigade immediately
- All persons who leave the building should report to the conference organizer for the day. This person should then inform the manager in charge at the assembly point that everyone is present.
- 5. The assembly point is: GODLIMAN STREET
- The manager or deputy will take charge of any evacuation and ensure that no-one is left in the building

PLEASE REMEMBER

- Use the nearest available exit
- Do NOT use the lift
- Do NOT stop to collect personal belongings
- Do NOT re-enter the building until you are told it is safe to do so



The Grange St Paul's Important Information – Applicable to all meeting and conference rooms







AGENDA

09:00	09:30	Registration						
09:30	09:35	Welcome: Charles Lupton - Rational Business Unit Executive for UKI						
09:35	10:30	Michael O'Rourke - VP Strategy and Product Delivery and Dibbe Edwards - VP of Software Development - Rational Strategy & Delivery Management						
		Rational Strategy & Delivery Management						
10:30	11:00	Diego Lo Giudice, Forrester - Vice President, Principal Analyst serving Application Development & Delivery						
		Systems of Engagement need Agility: Key App Dev trends to get there.						
11:00	11:30	Break						
		Application Lifecycle	Design, Development and	Complex & Embedded	Mobile Application	Strategic Business		
		Management	Deployment	Systems	Development	Planning for IT		
		Extending the Jazz Platform	Agile Development using Visual	Rational Systems Future	Mobile Application	Risk-Aware Business Cases		
			Requirement Definition &	Forward	Development Track			
			Management in Rational		·			
44.00	40.40		Requirements Composer 4.0					
11:30	12:10							
		Stephanie L. Trunzo	Jared Pulham, IBM	Andy Gurd, IBM	Leigh Williamson, IBM	Murray Cantor, IBM		
		Jazz Lifecycle Management	Senior Product Manager	Engineering Lifecycle	Distinguished Engineer	Distinguished Engineer		
		Capabilities		Management				
		A case for OSLC - a business	Effective Collaboration for Better	Testing is Dead, Long Live	Advancing Enterprise	Powering the PMO at Bank of		
		perspective.	Design with Rational Software	Quality.	Capabilities with Worklight	America		
12:20			Architect Design Manager v4.					
	13:00	Sean Kennedy, OSLC						
	10.00	Community Development Leader						
		Andreas Keis, Manager Software	The state of the s	Bart Vrenegoor, Sogeti	Paul Collins, Ascendant	Sarah Nunn, Analyst		
		Engineering, EADS Innovation	Technical Specialist		Technologies	Bank of America		
		Works UK						
13:00	14:00	Lunch						



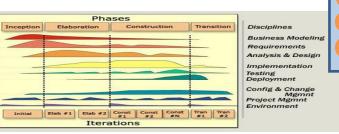


AGENDA (cont.)

14:00	14:40	organisation-wide adoption. Carson Holmes, Fourth Medium	Extending the Agile Development Discipline to Deployment. Dan Berg, IBM SmartCloud Continuous Delivery (DevOps)	BTC Embedded Systems AG: Model-Based Development and Testing of Safety Related Software. Dr. Udo Brockmeyer	Mobile Testing Solution for your Enterprise: Best Practices and Case Study.	Using Crowdsourcing to Help Make Strategic Planning Decisions. Giles Hearn and Jamie Knowles, Corso	
14:50	15:30	with Rational Team Concert. Robert J. Errington & Dave Ingram, Accenture	From Waterfall to Agile: A One Year Retrospective of IBM CICS. Nigel Hopper, IBM, Application & Integration Middleware - CICS Platform Leader	Managing Complex Systems Engineering - A Nuclear Perspective. Paul Fechtelkotter & Pachanee Petprayoon of IBM Rational	Mobile Applications with IBM Worklight Studio Jon Walton, Client Technical Professional for Rational	Competitive Intelligence - A Strategic Business Driver Mark Cooper, Market Intelligence Co-ordinator Laminar Medica Ltd.	
15:30	15:50	Break					
15:50		is everywhere. What does it really mean? How does it improve the way that we work? What are the pitfalls?	Creating Value Through Infrastructure Service Delivery at Aetna. Dan Berg IBM SmartCloud Continuous Delivery (DevOps)	and processes. A multi-speaker session	Banking and Insurance Industries with Mobile Keynote. Richard Field IBM Financial Services Market Manager	Delivering Value whilst Balancing Cost, Time and Innovation on a Globally Outsourced Telco Programme Tony Grout, IBM Solutions Executive & Rajan Kumar Jha, Programme Manager at Infosys	
16:45	17:30	Guest Speaker, Kriss Akabusi MBE					
17:30	18:00	Drinks					

Cope with Inconsistent Tool Usage Levels

As a project progresses, the emphasis on disciplines and therefore tools changes over time



Token Pool

And the more waterfall and long term your projects you are, the more exacerbated the change in tool needs becomes as a project progresses

Verification

Maintenance

Wikipedia

The token pool addresses this problem directly, in that the pool is not tied to any one particular product

BENEFIT: As your project progresses, so can your tool usage without a large investment in different practitioner tools and leaving a trail of disused ones. Tokens effectively break down the individual tool license silos

BUSINESS PARTNERS























software









RATIONAL USER GROUP UKI





Julian Holmes

UKI Lead & Worldwide User Council

Rational Champion



Carson Holmes
Worldwide User Council

Monthly 'Lunch & Learn' webinars – next one 16th November



FEEDBACK FORM - PRIZE DRAW

Please complete your feedback form & return it by 5PM

Prize Draw by Kriss Akabusi

Thanks to sponsors NMQA





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VP of Offerings Strategy and Delivery, IBM Rational

Dibbe Edwards

VP of Development, IBM Rational

Innovate2012

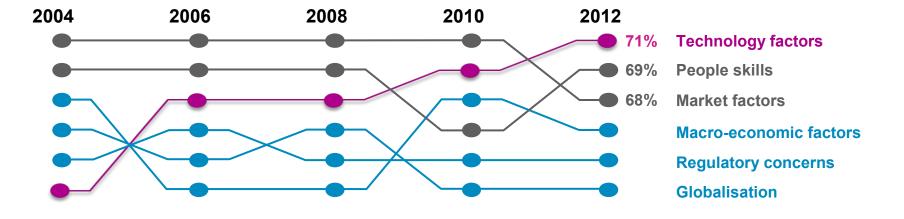
Next NOW!

The Premier Event for Software and Systems Innovation



Technology has never been more important to business

For the first time, CEOs identify technology as the most important external force impacting their organizations







Market trends

Software sourcing is shifting rapidly towards non-traditional models

 Enterprises are rapidly increasing their use of multi-source options for software and systems delivery strategy

 Enabling technologies provide a dynamic way to manage the process across a continuum of options

- -Growing market
 - +7.4% CAGR to \$361B by 2015
 - Increasing to >50% of overall spend

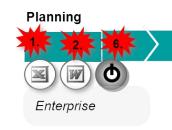




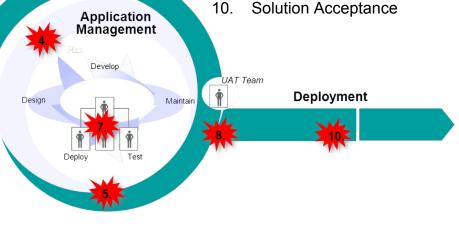


SW supply chain- Key pain points impacting business outcomes 1. Multi-source Decision Planning

- 2. Requirements Management
- 3. Contracts and Compliance
- 4. Financial Management
- 5. Resource Management



- 6. Capacity Planning
- Project Visibility & Governance
- **Project Management** 8.
- **IP Management**
- 10. Solution Acceptance



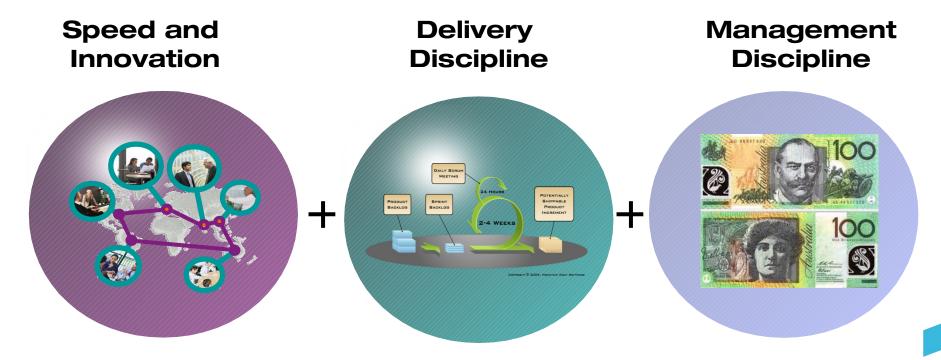
Supplier Community Captive Open Crowd Outsource Centers Source Source





Hypothesis:

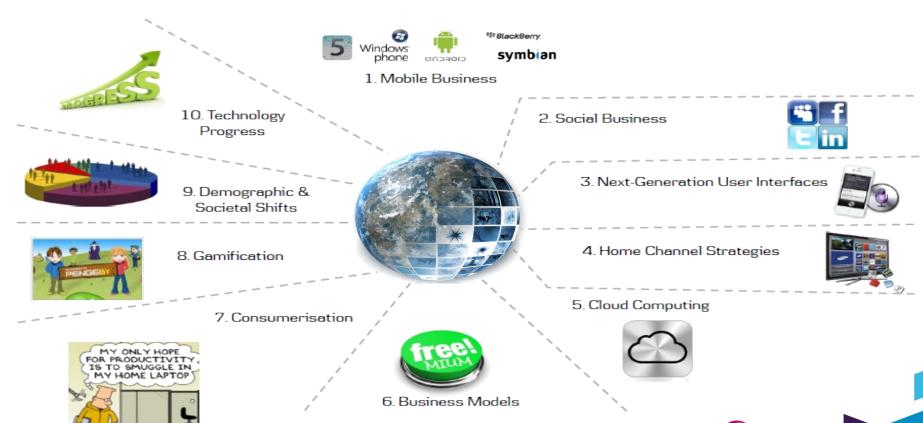
Effective Software Delivery in the Software Supply Chain







The world we live in is exciting!





Why do software projects fail?

Understanding the software engineering lifecycle

- 1. Unstable, changing requirements (95%)
- 2. Inadequate quality control and poor quality measures (90%)
- 3. Inadequate progress tracking (85%)
- 4. Inadequate cost and schedule estimating (80%)
- 5. False promises by marketing and sales personnel (80%)
- 6. Rejecting good schedule estimates for arbitrary dates (75%)
- 7. Informal, unstructured development (70%)
- 8. Inexperienced clients who can't articulate requirements (60%)
- 9. Inexperienced project managers (50%)
- 10. Inadequate tools for quality/analysis, lack of inspections (55%)
- 11. Reusing assets filled with bugs (30%)
- 12. Inexperienced, unqualified software engineering teams (20%)







Implications for software and systems delivery

More speed and agility

- Compelling user experience
- Rapid iterations
- Continuous delivery



Better control

- Regulatory compliance
- End-to-end security
- Financial predictability





Accelerated delivery demands a quid pro quo

Engineering Practitioners

- Design, create, test
- Reuse knowledge, best practices
- Address uncertain things first
- Be adaptive to change

Embrace



Governance Stakeholders

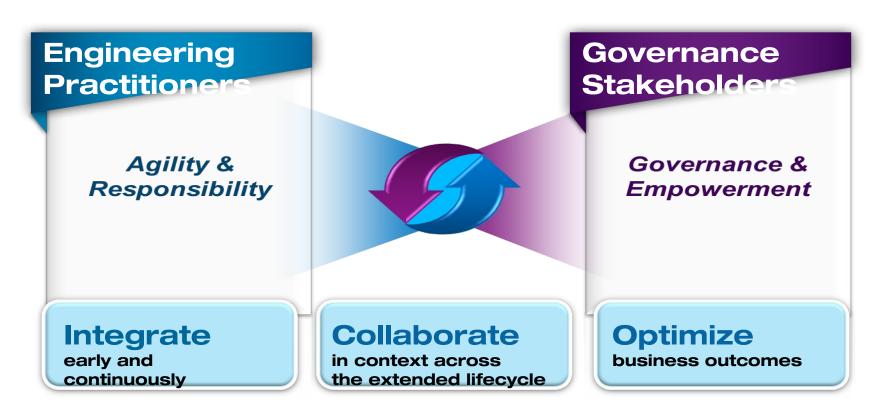
- Achieve predictable outcomes
- Manage risk
- Ensure compliance
- Improve software economics
- Visibility and transparency

Enable Agility





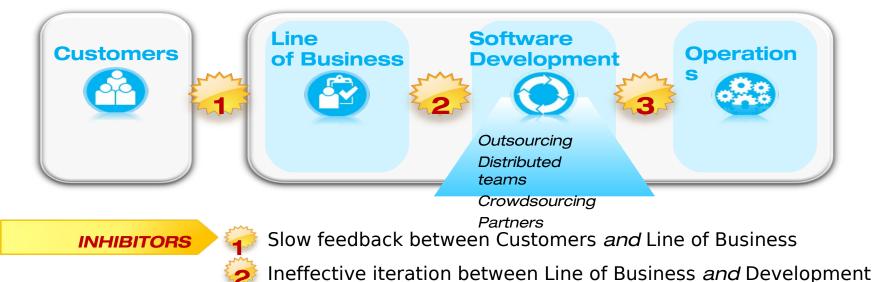
Succeeding in the new reality

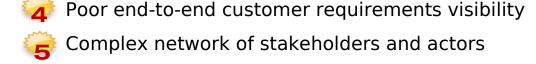






Inhibitors to accelerated delivery





Inefficient linkage between Development and Operations





High impact initiatives to accelerate delivery today



Scale Agile to enterprise with governance and metrics

Target: 50% more time on task by eliminating overhead activities (progress reporting, etc.)



Make integration, test and deployment continuous

Target: 50% reduction rates in lifecycle scrap and rework



Elaborate user experience earlier in the lifecycle

Target: 25% less scope creep in development and a substantial increase in stakeholder trust



Link requirements management to test

Target: 25% lower variance in cost/schedule performance





Accelerated delivery



Integrate

Collaborate

Optimize





Companies addressing these areas today



















SIEMENS





Danske Bank





























Delivery Discipline = Development Discipline



Water

Scrum

Fall

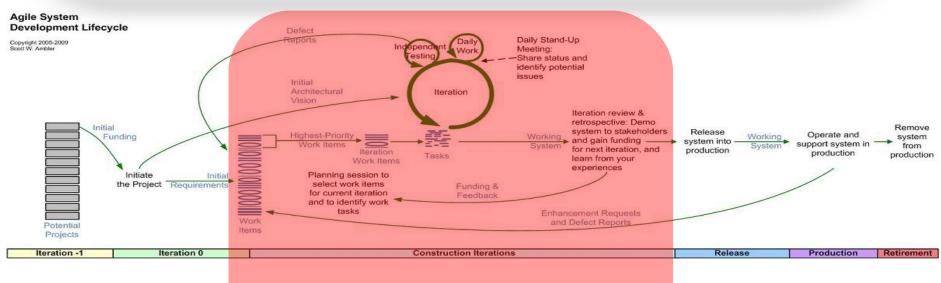




For Many, the Benefits of Agile Aren't Fully Realized

We believe over 90% of all companies claiming to have adopted agile methodologies, have only transformed their development teams, minimizing their overall return... thus, our term "Water-Scrum-Fall".

Dave West, Forrester Research 2011



Continuous Planning

Groomed Backlog

Continuous Development

Continuous Integration

Continuous Build

Continuous Testing

Continuous Delivery
Continuous Feedback





An Example from Within Rational – CLM (RQM, RTC and RRC)

Lifecycle Measurements	2008	2010	2012 – 2013	Total Improvement
Project Initiation	30 days	10 days	2 days	28 days
Groomed Backlog	90 days	45 days	1 day	89 days
Overall TTD	120 days	55 days	3 days	117 days
Iteration Length	6 weeks	4 weeks	4 weeks	4 weeks
Number of Iterations	6	8	3	N/A
Composite Build Time	36 hours	12 hours	8 hours	400 %
BVT Availability	N/A	18 hours	< 1hour	17 hours
Iteration Test Time	5 days	2 days	4 hours	4 days
Total Deployment Time	2 days	8 hours	2 hours	2 days
Overall TTP	9 days	3 days	15 hours	8 days
Time Between Releases	12 Months	12 Months	3 Months	9 Months





The text book version of agile is not aligned with the realities seen in software supply chains...

Contracts: Lack of strong focus on contracts and formal agreements

Sub-contracting:

No sub-contracting of deliverables (incl. offshore)

Acceptance Test:

User and acceptance test can be performed in each sprint



Transparency



Sub-contracting



Planning



Acceptance Test



Transparency: Global transparency ignores need for multiple, customizable layers of visibility, privacy, security, etc.

Planning: No need for a project manager, resource manager. Product owner is one person.







Globally Distributed Delivery

Extensive globally distributed delivery models...taking many forms....

volving From

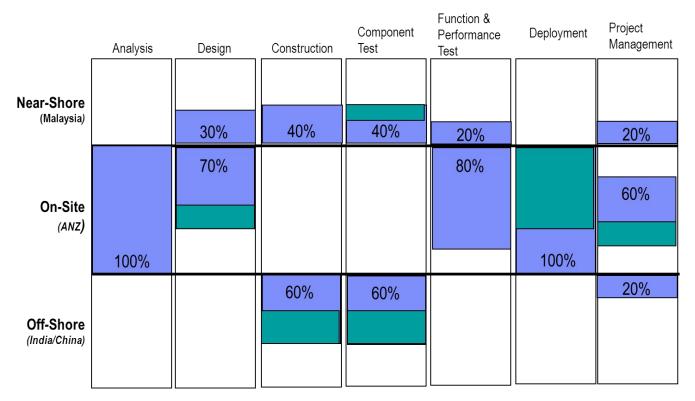
Evolving To







Global delivery of software: An example

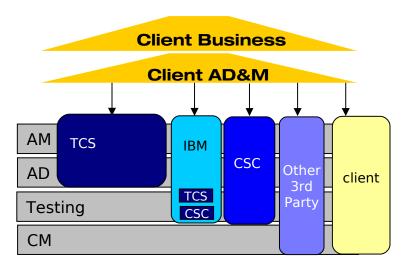








Example: Global IT delivery in large insurance company



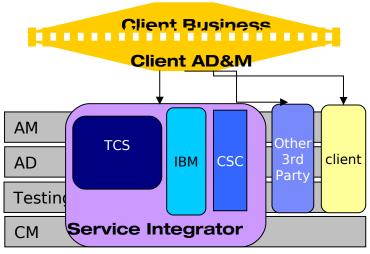
Skills and time-based delivery Hours x rate card

Utilisation measures

Location-based model

Global Delivery Centers

Staffing levels-led



Re-usable assets and automation-based delivery

Outcome-based cost

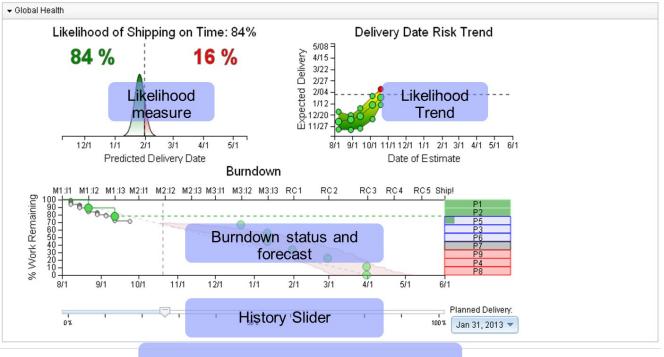
Performance-based value measures

Virtual workflow across centers and geos with emphasis on local interaction and communities

Globally integrated capability model with Centers of Competency Next Now!



What management discipline is required?



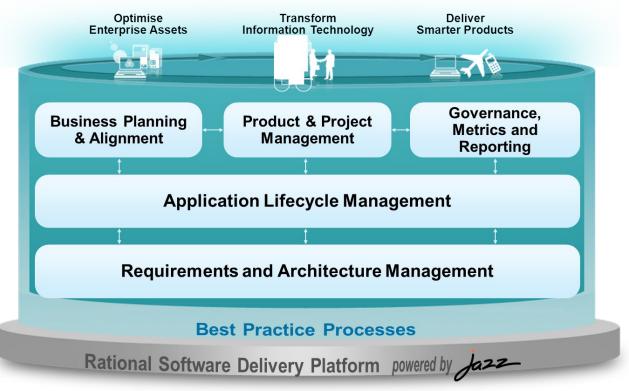
Pattern identification and diagnosis

Scope management





IBM Rational Software and the global Software Supply Chain







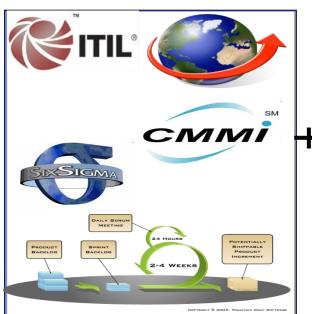


Summary:

Focus on balancing best practice to enhance customer value, improve quality, and increase efficiency

peed and Innovation Delivery Discipline





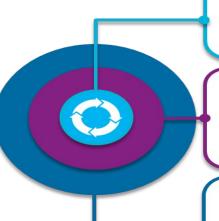
Management Discipline

Transparency and Reporting Strategy and Portfolio mgt. Risk mgt. Vendor and Supplier mgt. Financial mgt. **Enterprise** Architecture mgt.





New capabilities from IBM to enable agility with governance



DEVELOPMENT LIFECYCLE

- Rational Solution for Collaborative Lifecycle Management
- Rational Solution for Systems and Software Engineering
- Continuous integration and testing features Green Hat technology

EXPANDING LIFECYCLE AND INDUSTRY FOCUS

- Integrations for Collaborative DevOps
- SmartCloud Continuous Delivery
- IBM Enterprise Mobile Development Solution
- Targeted industry-specific guidance for compliance standards

ECOSYSTEM





- New partnerships:
- New steering committee for OSLC
- New Linked Data Workgroup within the W3C
- IBM PureSystems Trial powered by SmartCloud
- Enhancements to Jazz.net and Jazz Hub



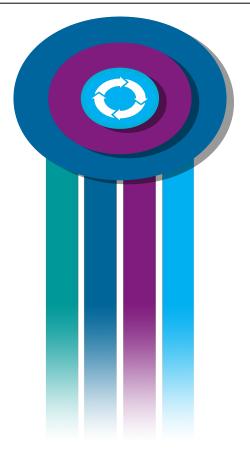


How to Move Forward

 Act now to transform your software and systems delivery

 Start today and leverage Innovate to the maximum

Post Innovate: Benefit from our experience!









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Slides to come...



Systems Of Engagement Need Agility

Key Application Development Trends To Get There

IBM Innovate - London

Forrester Research

Diego Lo Giudice

Vice President, Principal Analyst

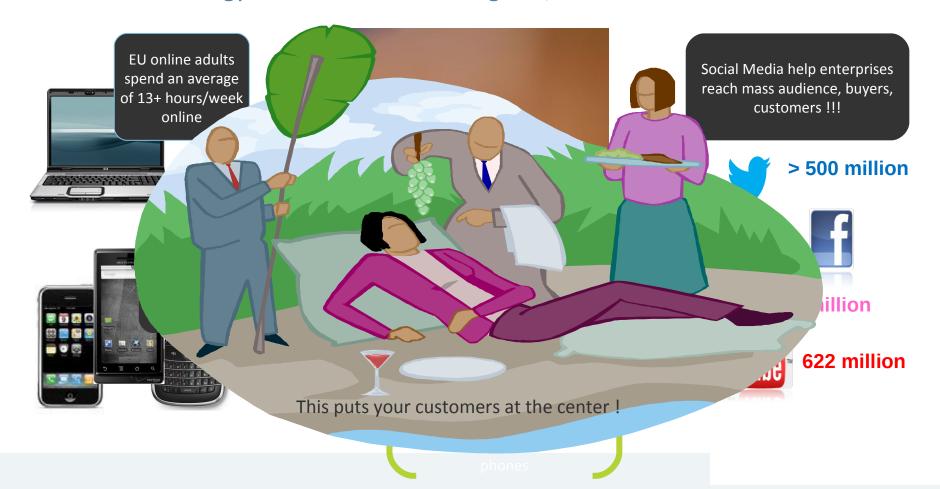
Twitter: @dlogiudice

October, 23 2012

Agenda

- **>** The Impact of The Digital Disruption: Systems of Engagement
- Agile And Lean: Best Answer for Systems of Engagement
- Holist Transformation Needed To Scale Agile
- And ALM Needs To Adapt

Business Technology - a world made of: "Digital", Mobile And Social Media



And new classes of applications and systems to be developed







Systems of engagement touch people

- Serving customer, partners, and employees
- Enabled by smartphones, tablets, and smart products
- Focused on in-the-moment tasks and decisions

- Delivering in an individual's personalized context
 - Providing analytics-d experiences
 - Leveraging so technologies



Shorter Dev &
Delivery Cycles,
feedback,
Change, Innovation

Systems of record host processes

- Targeting employees
- Supported by EDD packages and large databases
- Recording as part of
- Maintain &
- Stable, Long Dev & Delivery Cycles

Integration

Architecture

But systems of engagement are also about dramatic change

Business Layer

Compute Processes

Compute Engines Systems of Record

Business Process Consulting
Desktop Environment
Transaction Applications
Business Intelligence

Document-based Collaboration

Web Application Infrastructure
Systems Management Infrastructure
Database
Operating System

Mainframes
Servers
Storage
Data Network
Microprocessors

Systems of Engagement

Business Process Consulting
Mobile Clients
Apps

Real-Time Analytics
Live Collaborative Sessions

Mobile Application Infrastructure
Public/Private Cloud Management
In-Memory Caches
Platform as a Service

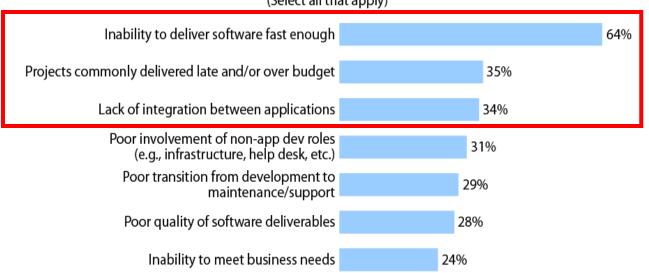
Infrastructure as a Service

Voice/Data/Video Network Microprocessors

Geoffrey Moore

Sadly...IT is having challenges coping with pre-digital disruption, with digital disruption it's only getting worse.....

"What problems do your current application development and project management organizational structures cause?" (Select all that apply)



Base: 105 professionals directly involved with the development or support of software applications

Source: Q1 2011 Global Application Development And Delivery Organization Structure Online Survey

The way forward for *ANY* SW Development and Delivery Shop is to focus on these themes







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Collaboration

Adaptability

Agenda

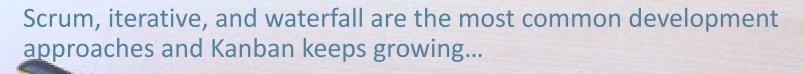
- > The Impact of The Digital Disruption: Systems of Engagement
- **>** Agile And Lean: Best Answer For Systems of Engagement
- **Holistic Transformation Needed To Scale Agile**
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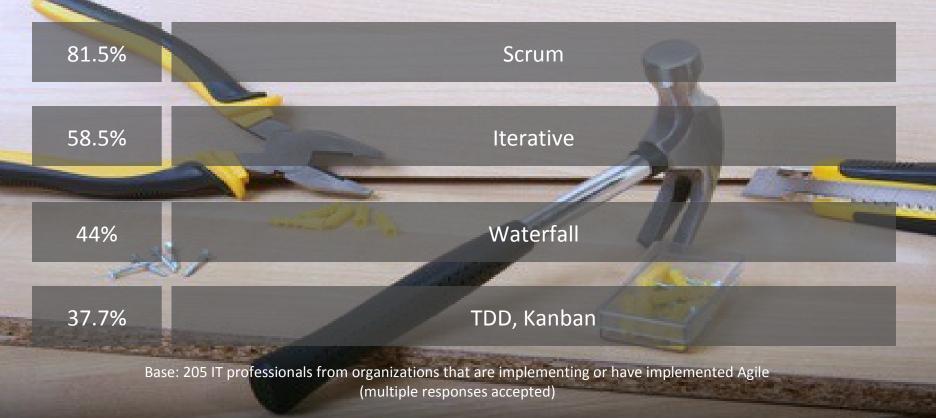


Agile adoption is in good health, but scaling Agile is another OVER 40% OF ORGANIZATIONS ARE DOING SOMETHING WITH AGILE! Feel are midway in Mature and spread 27% 19% adoption journey across enterprise Mature but in 25% 24% Have just started siloes

story...

Base: 205 IT professionals from organizations that are implementing or have implemented Agile





Forrester Research: November 2011 Global Agile Software Application Development Online Survey

Agenda

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The challenges of Agile in Enterprises

Compliance requirements

From Project Governance to Enterprise Governance

Application complexity

Organization and culture

Large agile multi-project teams

Insourcing-Outsourcing

Business Involvement

Geographical distribution

Source: Adapted from IBM's Agility Scaling Factors

Agile disrupts traditional ways of working

An example: look what happens to testing !!

Testing in an accelerated environment while not impacting Agile team performance is not easy!

Large centralized testing teams vs embedded testers

Test managers vs Testing practice leaders, coachers and change agents

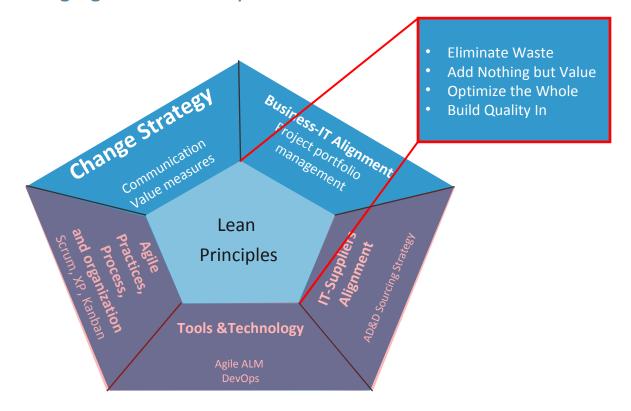
Smart Automation with SW development skills vs Manual Testers

Acceptance Test Driven Development vs testing at the end

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A well concerted and holistic transformation program that deals with the challenges of scaling Agile is necessary...



Source Forrester: "Embrace Holistic Change To Achieve Agile Results". Strategic Plan: The Agile And Lean Playbook

Outsourcing Agile: is not easy...

If Not Properly Addressed The Following Can Become Showstoppers:

- Readiness
- Transparency
- Distributed Teams Contracts

- Partner Approach
- Partner Selection



Forrester Research: Rightsourcing for Agile and Lean: Buy vs Build – The Agile and Lean Playbook

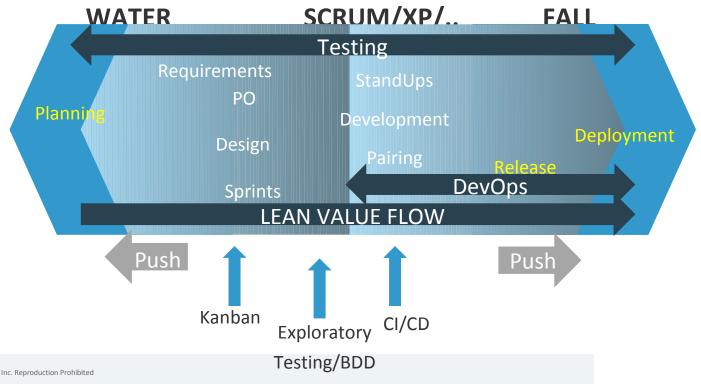
59 © 2012 Forrester Research, Inc. Reproduction Prohibited

Practices and process: Water-Scrum-Fall is very common



Practices and process: Water-Scrum-Fall not a bad thing if done right!

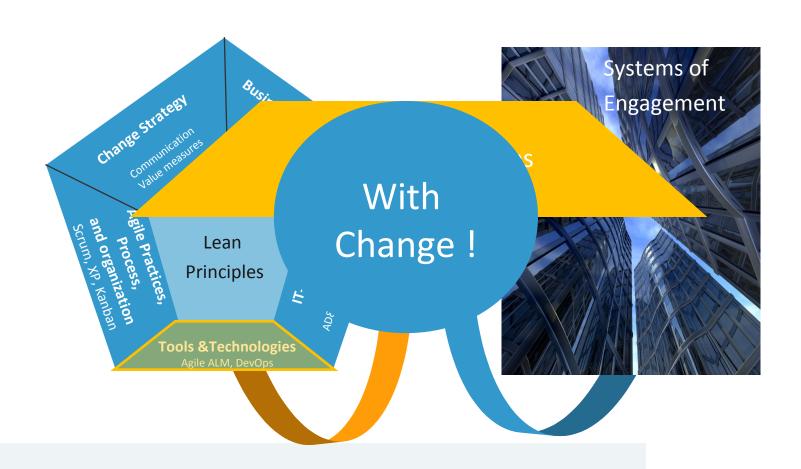
Reality: A mix of Agile methods and practices!



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How is ALM Coping with all this?



Here are some of the major ALM trends we see



Smaller Teams (3-10)



MvP



Visual
Reqts over
Text
Social/



Frequent Release (6+/Year, Business)



Models (eg:Kanban)



Feedback Quality / Testing Upfront



- Simpler
- Collaborative
- Supportive/
 Not
 Prescriptive

- Planning/Rep
- Test Plan/Mngt
- Value-Flow
- DevOps

- Automate
 - Builds
 - Releases
 - Testing
- Metrics

This	is big, And You Need To Act Now!
	Prepare to be multidisciplinary in the way you develop apps
	SW is the business, business moves fast, so has to App Dev
_[Systems of Engagement embed all the innovation coming. They complement systems of record, they do not replace them.
	Select your crown jewels and make sure you apply the best AD&D approach out there to deliver higher value to your business.
	Agile and Lean: everyone doing it, but scaling it is hard. Clients need external help to adapt and make it all happen.
	You need a flexible ALM strategy that increases the value of software that emerges from the value stream (not focusing just on the developer).



Thank you

Diego Lo Giudice

+39 3407710775

dlogiudice@forrester.com

Twitter: @dlogiudice

www.forrester.com

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