

Making Leaders Successful Every Day





Application Delivery Needs More Agility

Key Application Development Trends To Get There.

For IBM. The future of Software Delivery – Global Insights

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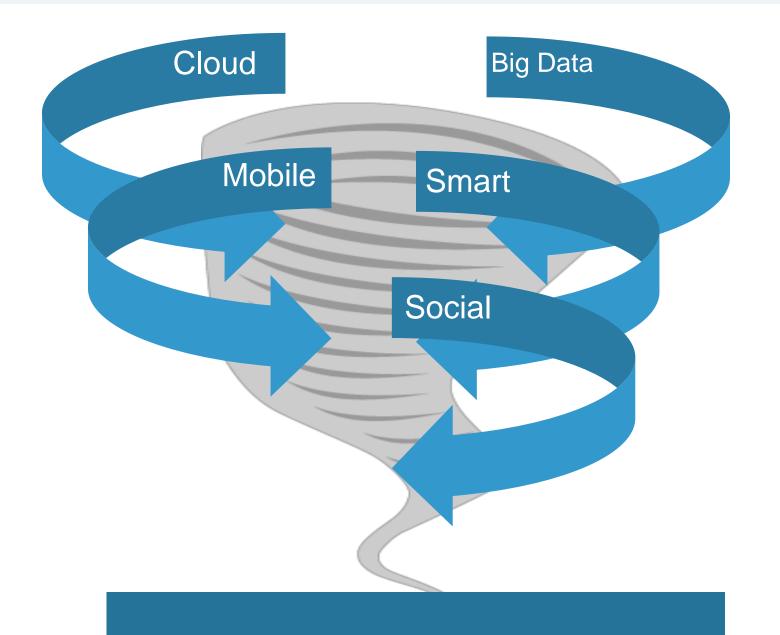
Forrester Research

November 2012, Melbourne - Sydney

For the first time in 8 years, CEOs identify technology as the most important external force impacting their organizations



studv. 1709 CEOs Interviewed.

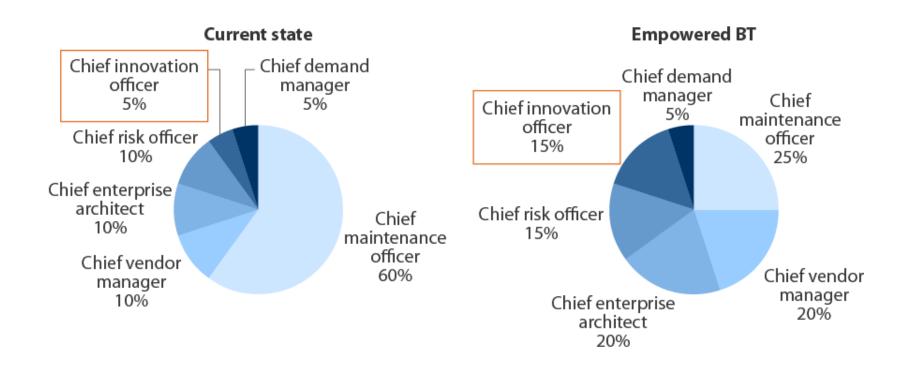


A Technology Storm Changing Your Business
As Well As Your IT!

Agenda

- Systems of Engagement: The source of Application Delivery Change
- Why Agile is the right answer
- Holistic Change needed to Achieve Agile results

CIOs will triple the time spent on innovation



The biggest innovation comes from Systems of Engagement









TAKE AWAY Nr1: "One Size Application Delivery Approach Won't Fit All"



- 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-driven experiences
 - Leveraging social and cloud technologies

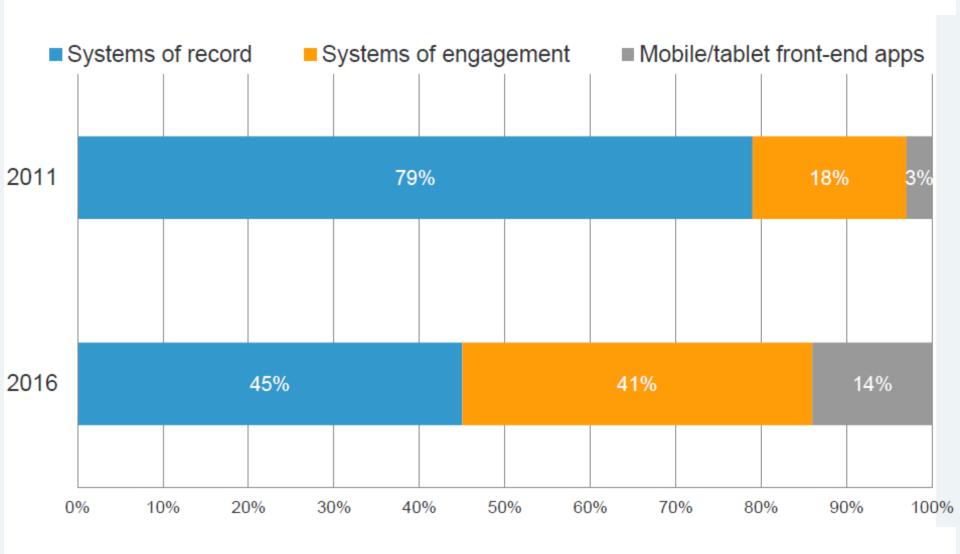
Systems of record host processes

- Targeting employees
- Supported by ERP packages and large database
- Recording transactions and accounting data as part of core business processes
- Maintain state, status, and history

Long Development and Deployment Cycles

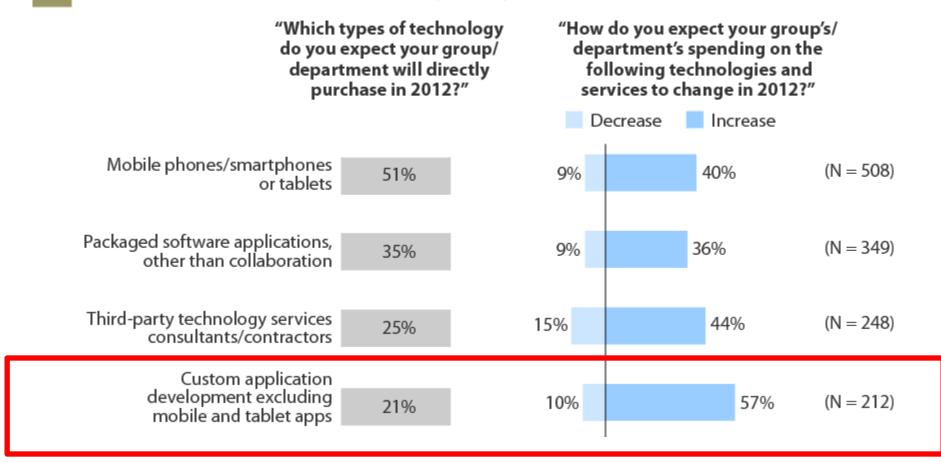
Short, Frequent, Iterative, Delivery Cycles

Changing face of IT spending (Forrester Estimates)



Systems Of Engagement Increase The Need Of Custom Application Development

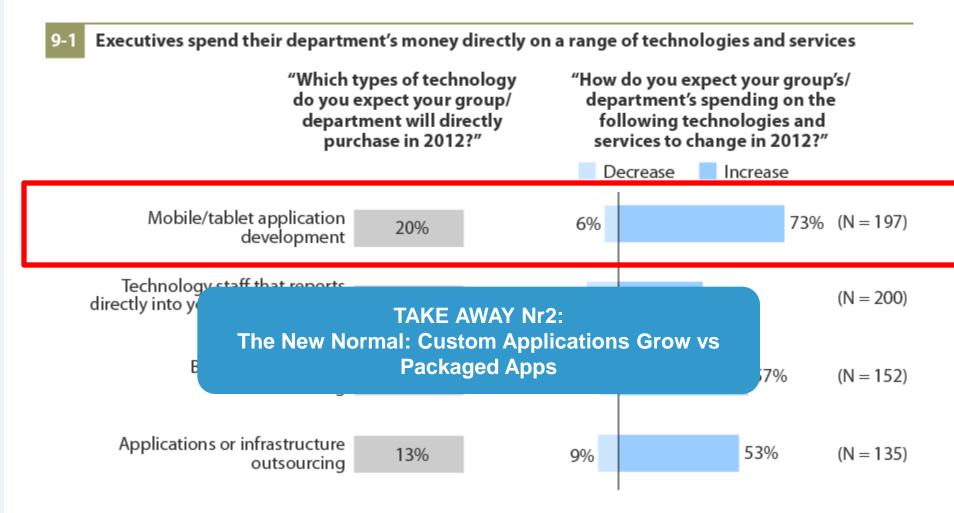
9-1 Executives spend their department's money directly on a range of technologies and services



Base: 1,004 North American and European business decision-makers in firms with 1,000+ employees

Source: Forrsights Business Decision-Makers Survey, Q4 2011

But So Does Mobile (Cont.)



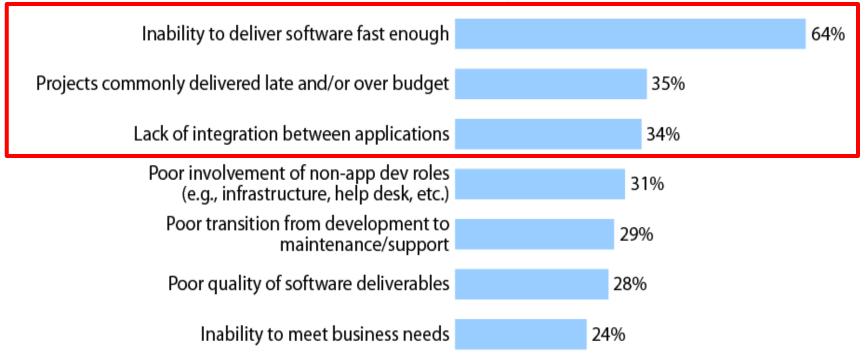
Base: 1,004 North American and European business decision-makers in firms with 1,000+ employees

Source: Forrsights Business Decision-Makers Survey, Q4 2011

But Sadly...IT has challenges coping with pre-digital disruption, with digital disruption can only get 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

App Quality? Huge Problems...

The result

Software used after changes, 3%

Software delivered, but not successfully used, 46%

Caper Jones 25-30% Requirements Are Wrong Software paid for but not delivered, 29%

Software used, but extensively reworked or abandoned, 20%

Total software costs: \$35.7 billion

Software used as delivered, 2%

The way forward for *ANY* IT Application Delivery Organization is to focus on these themes



Increased velocity





Away

3

Collaboration

Adaptability

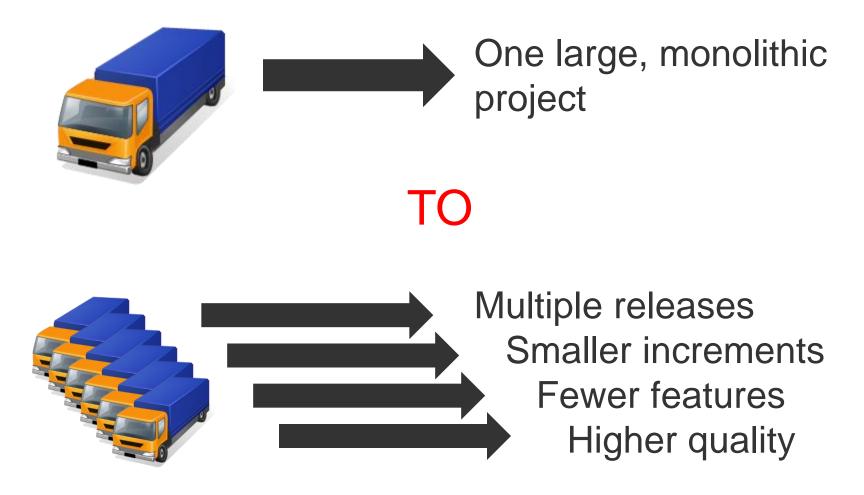
"There is always a better way to do things, and currently, Agile is the best way!" Forrester Research - Justify Agile with shorter, faster, development. February 2012.



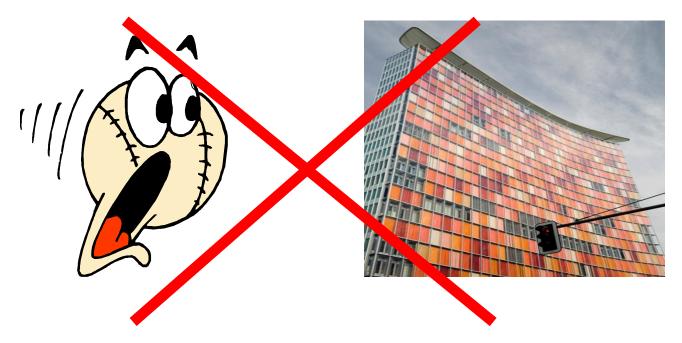
Data Shows Quality, Change, Speed are top claimed benefits for Agile



Breaking larger problems in smaller ones: easier to manage, forecast and measure



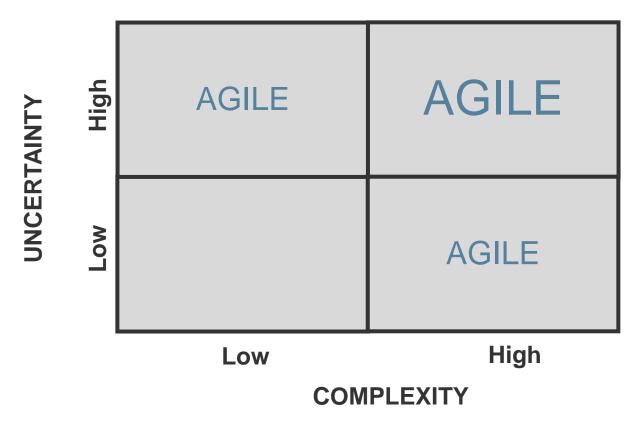
Faster delivery by getting the "Right Things" done



- Continuous Business Feedback
- Short Iterations
- Focus on Minimal Viable Products
- Cross Functional Teams
- Automate Core Development and Delivery Steps

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Agile Development is a great way to address innovating "differentiating" Applications...





Agile practices' sweet spot: Innovations that involve a lot of unknowns and unclear upfront requirements.

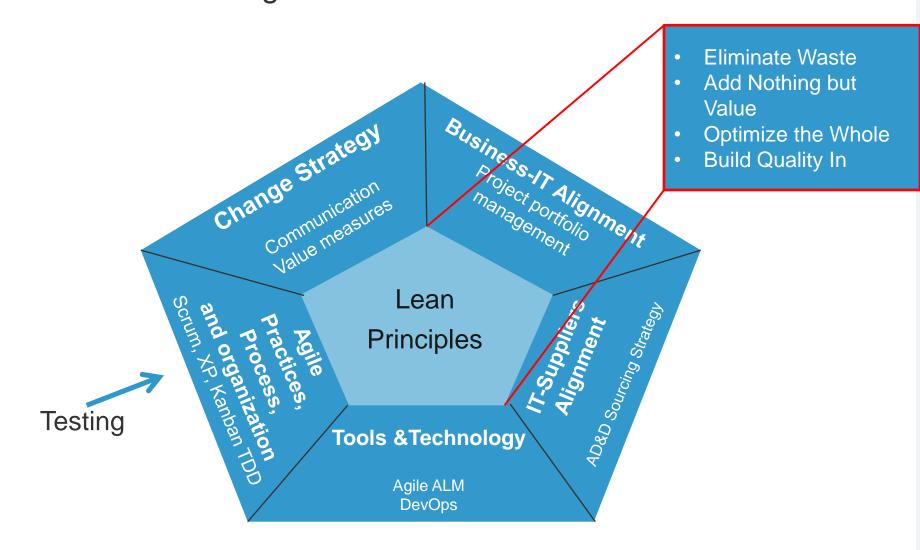
Agile adoption is in good health, but scaling Agile is another story...



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

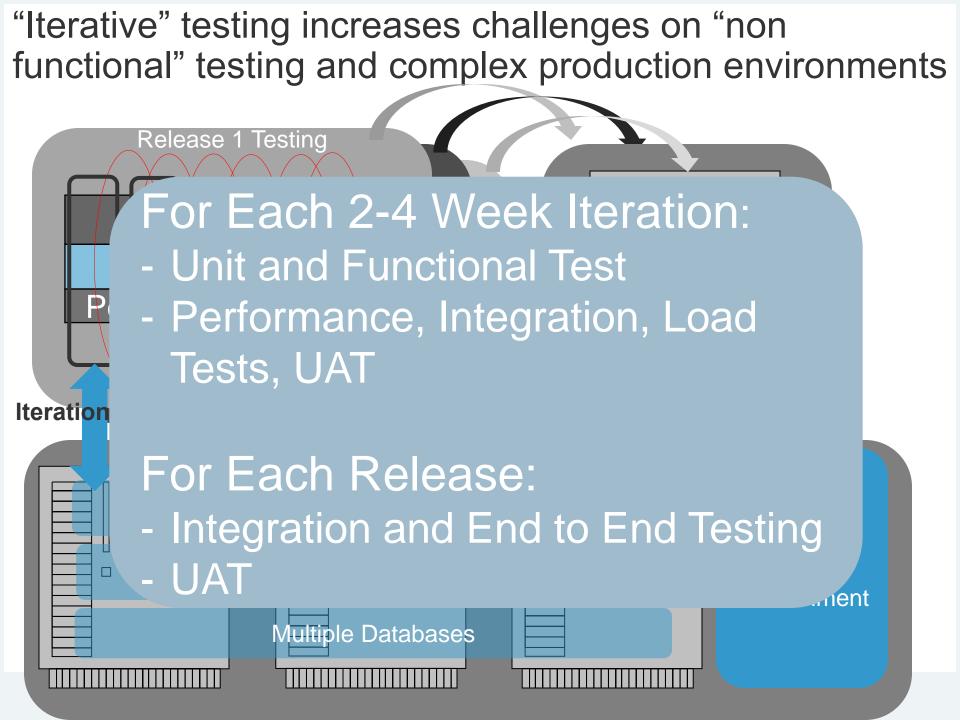
Forrester Research: November 2011 Global Agile Software Application Development Online Survey

To Scale Agile Adoption At Enterprise Levels, A Well Concerted Transformation Program based on Lean is needed...

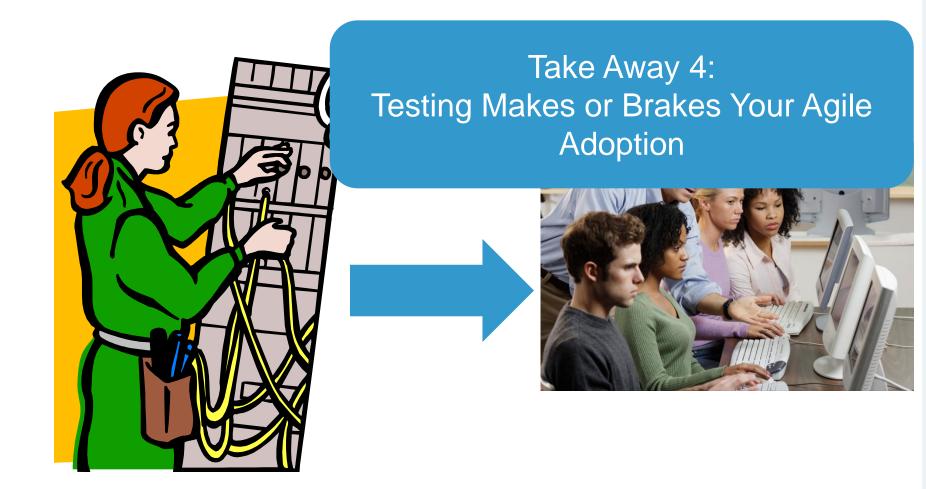


Accelerated Delivery Disrupts Traditional Testing Approaches!!

- Testing in an accelerated environment without impacting Agile team performance is not easy!
- Large centralized testing teams vs embedded testers.
- Test managers vs Testing practice leaders, coachers and change agents.
- Much more Automation and done in a smarter way (e.g: GUI automation not enough!!).
- New and Modern practices such as Test Driven Development (TDD) vs testing at the end.

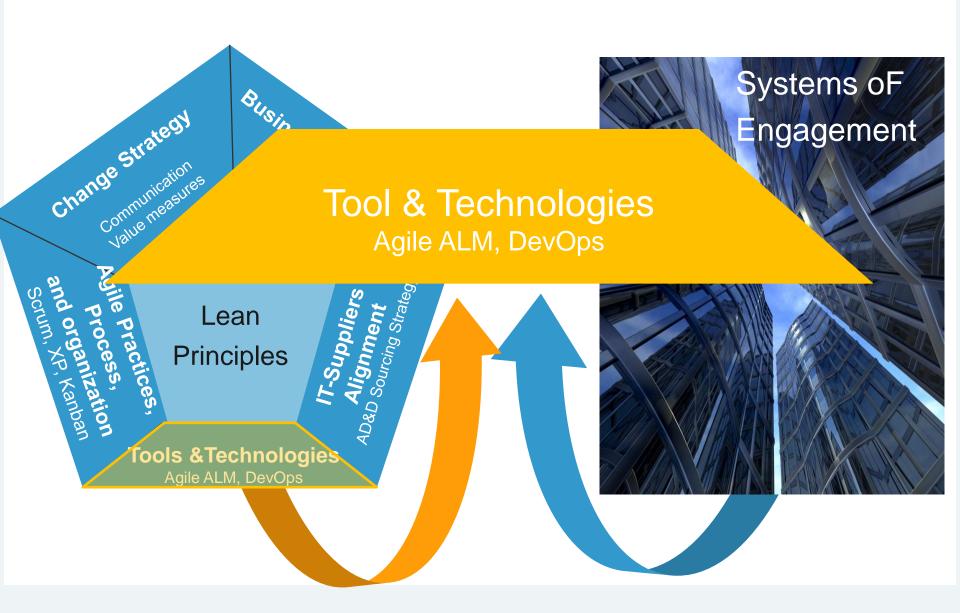


As Agile matures, so does Testing automation



Building Automatic Tests becomes a SW Development Job!

How is ALM coping with all this?



Application lifecycle Management is changing to



Smaller Teams (3-10)



MvP



Visual
Reqts over
Text
Social/
Feedback



Frequent
Release
(6+/Year,
Business)



Pull Models (eg:Kanban)



Quality /
Testing
Upfront

ALM tools are evolving as well



- Simpler
- Collaborative
- SupportiveNotPrescriptive
- Planning & Reporting
- Test Mngt
- Value-Flow
- Metrics

- DevOps
- More Automation:
 - > Builds
 - Testing
 - Releases

This is a generational shift....you need to act now!

- The age of one size fits all Application Development and Delivery is over – prepare to be multidisciplinary in the way you develop, deliver and deploy apps.
- Systems of Engagement embed all the innovation coming: digital, mobile and social. They complement systems of record, they do not replace them!
- Agile and Lean: everyone doing it, most are at scaling point. It's the best practice out there to support your new coming business needs.
- Testing in an accelerated world requires automation, new practices, new testing skills, and tools.
- Link your transformation to Agile to Business transformation, don't loose the train !....



Thank you

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