

Agile Transforming in a global team

Glen Chen Sep 2009







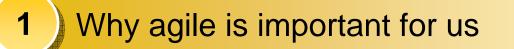
Confidence in a connected world.

Take action to accomplish the transformation. A top management team must lead the effort with action, not just support.

- W. Edwards Deming

Agenda





- 2 Our approach to adopt agile
- 3 Best practices (cases & videos)
- 4 Benefits





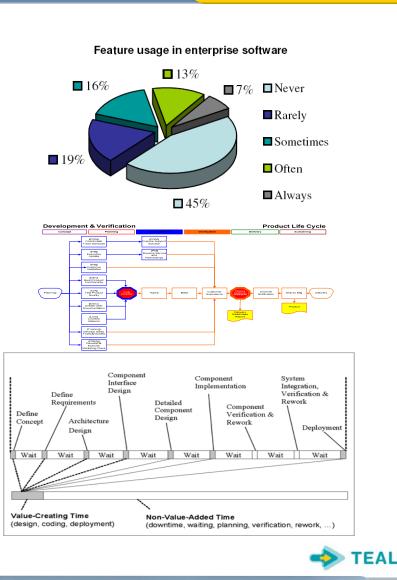


Key challenges to legacy engineering system

1. How well do we understand what really matters to our customers?

2. Do our people understand how the current system functions?

3. What are the biggest performance bottlenecks in the system?



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Key challenges to legacy engineering system (continued..)

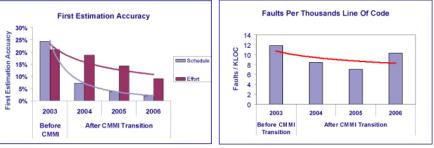
- 4. How do we make tradeoffs between quality, cost and features?

The Cost of Zero Defects

5. Who is responsible for improving execution? And can we measure improvements effectively ?

- 6. Do you have a system for continuous improvement?







Why agile is important for us

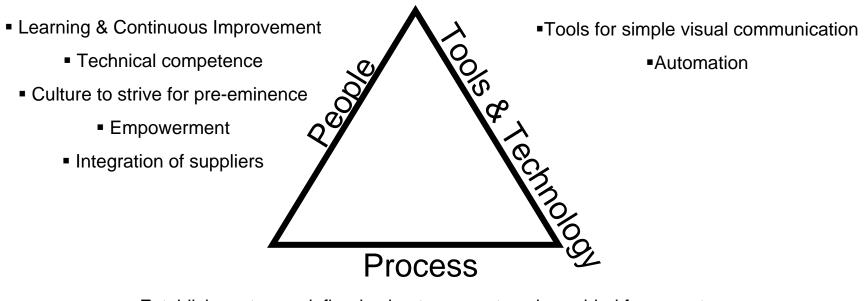


- Value: understand what adds value for the customer
- Value Stream: understand how the organization generates customer value
- Flow: maximize speed and minimize cost by achieving continuous flow & reduce waste
- Pull: deliver value on a just-in-time basis based on actual customer demand
- **Perfection:** continuously improve the performance of your value streams



Product Development System





Establish customer defined value to separate value-added from waste

 Front load to explore thoroughly alternate solutions while there is maximum design space

Leveled product development process flow

 Rigorous standardization to reduce variation, create flexibility and predictable outcomes



One approach

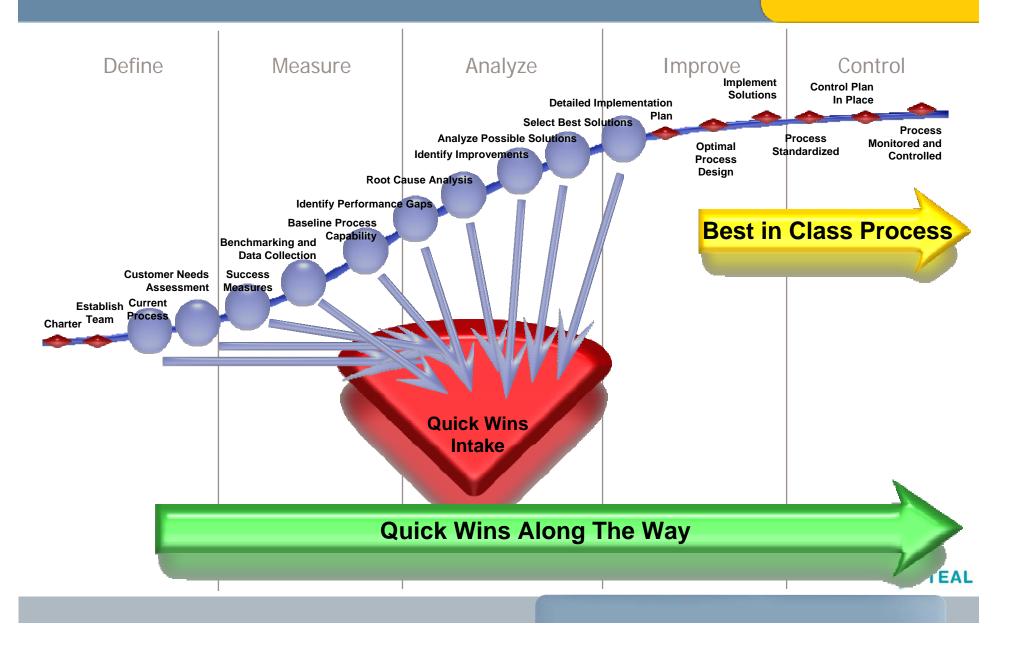


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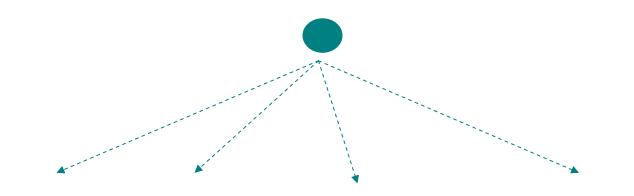
Another Approach





Introducing TEAL





Team Empowered Agile & Lean



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Issues



TEAL Operating Model



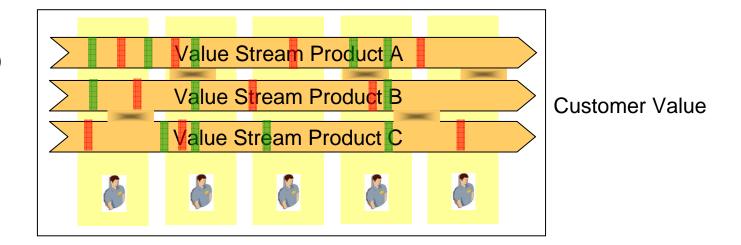
- Six "Communities of Practice" (CoPs) with cross product representation
 - Requirements Management (US only), Development (US and Pune), Verification (US and Pune), Documentation (cross geo), Program Management (cross geo) and Customer Support Experience (US and Pune)
- Core Team
 - Meeting Frequency: Once / month
 - Objectives: Continuous review of TEAL working model. Modify and Adapt as needed
 - Attendees: Coach, Quarterback, TEAL Core team
- CoP Moderators
 - Meeting Frequency: Once / Month
 - Objectives: Review progress, highlight cross CoP issues, share moderator best practices
 - Attendees: Quarterback, CoP Moderators
- CoP members
 - Meeting Frequency: Bi-weekly
 - Objectives: Review progress, share and align on best known practices, assign action items
 - Attendees: CoP Moderator and Members







Six Sigma (DMAIC) LEAN SEI CMM Other



- 1. Map the value stream(s)
- 2. Appoint Value Stream Owners/ Black Belts
- 3. Establish customer value and identify sources of waste
- 4. Identify best practices, metrics and share
- 5. Design "future state" of value stream (what we want it to look like)
- 6. Implement the future state and measure results
- 7. Iterate continuously



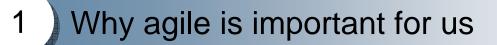
TEAL adoption – progress and plans



Area	Progress to date	Plan going forward	
Knowledge Management	Commitment to Socialtext wiki complete (Information migration ~50% complete) General adoption of SharePoint as the working documentation collaboration tool	Incorporate Web 2.0 tool Continue to migrate remaining content Standardize on SharePoint as working collaboration site Clarify doc repository tool usage Improve KM search-ability/availability	
Process	All teams are Agile or "Agile-like" moving to Agile Various tools being used – Etrack/Excel, Accept360, or VersionOne	Continue migration to fully Agile development models Move to single Agile tool	
Metrics	Each group has defined and automated different metrics	Standardize on single set of metrics, publication and tracking mechanisms	
Training	5500 person-hours of Agile training in March Qtr	ning in General awareness training via TEAL Increase focus on Lean	
CoP involvement	Strong US activity in most of the CoPs CoPs in Pune have not been as active	No change in CoP model Engage on Pune CoPs Drive CoP social networking	

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• Breaking group up into 10 teams

- Each team has facilitator + 7 team members
- Teams assigned by value chain step with 2 teams for each
- Using PLC steps: Concept, Planning, Development, Verification, Delivery + Sustaining

• Things to remember

- Want to capture how it *actually* works today
- We will consolidate this information later, so please structure clearly



Situation and problem:

1.Cross Geo project, different developers are located in different areas.

2.Complicated products support multi Unix/Linux platforms.

3.Only weekly meeting can communicate and solve problems.

4.Someone's check-in often breaks others' functions. 5.L10N/I18N transforming issues sometimes breaks the build.

6.Corrupted build blocks QA teams verification jobs.



Continuous Integration Adoption

Analysis and solution:

1.Weekly build has high value in the value stream.

2.Small check-in and continuous testing could find the issue in the earliest stage and minimize the impacts.3.Adopt CI practice, run unit and functional tests just after code check-in.

4.Setup CI testing nodes in different areas to cover different platforms.

5.Send real time notifications to corresponding people to let them know the up-to-date results so that they can take actions on time.



Continuous Integration Adoption





Continuous Integration Adoption

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Results:

 Setup Tinderbox and CruiseControl system integrated with unit test, L10N/I18N transforming check as well as a few functional test cases.
 Most of the problems get caught just after code check-in, the number of corrupted build are extremely decreased.

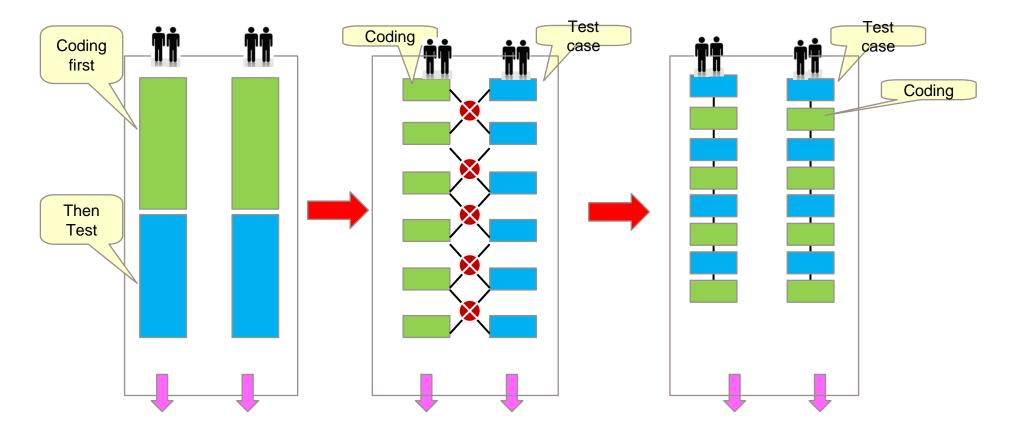


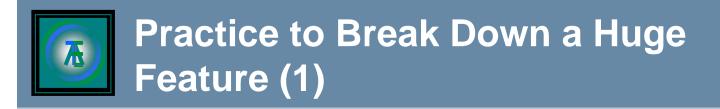
Fit in to Test Driven Development



•our conventional way is Coding first, then testing

we fit in to TDD: one team coding, one team write test case, run testing everyday
now we write test cases first , then coding, for our team realized the benefit of TDD





Background

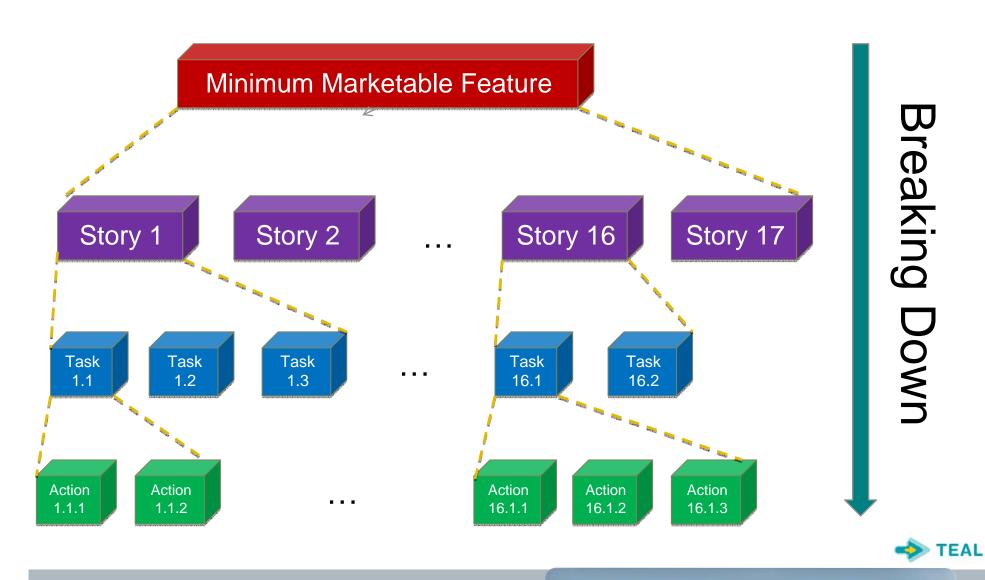
- Poor MRD Requirement: "upgrade should be supported from Version 2.0 to 5.0 release"
- Huge Support matrix with different platforms (Linux/Solaris), different product packages and different upgrade scenarios
- Challenges
 - Communication with GEO Teams is hard (Dev in China, QA in India, PM in US)
 - Habits inherited from the older Waterfall process
 - Team has to face up to the uncertainty on how to replace a traditional high level design at the beginning





Practice to Break Down a Huge Feature (2)







- Benefits from Breaking Down
 - Clarify Requirements
 - Capable of iterative development
 - Increase Confidence
 - Reduce Risks at the beginning
- To be improved
 - Need to break down to stories and tasks appropriately
 - Avoid dependency definition between stories



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Practice to Break Down a Huge Feature (4)



#	Tasks	Owner	Туре	Status	Iteration
	[Story] Adding a Migration Option			Closed	
1	Adding migrate option in CPI	Fred	Dev	Closed	1-9
2	migrate option qualification	Omkar	QA	Closed	I-9
3	migrate option documentation	Megan	Doc	Closed	1-9
	[Story] Delete a Node			Ongoing	
4	Delete-node option in CPI	Fred	Dev	Done	I-10
5	Delete-node option qualification	Omkar	QA	Started	I-10
6	Delete-node option documentation	Megan	Doc	Done	I-10





Practice to Use VersionOne



- A Good Iteration Management Tool
 - Defining Iterations, Features, Stories, Tasks, etc.
 - Tracking status for project status and team status

Review : : [BigSky] Install, Packaging, Licensing, Se	curity	<pre>Project Path: BigSky Release 5.0 > [</pre>		
Close Iteration Retrospectives				
Iteration: Iteration 14 💌 Team: (All)	x			
Iteration Summary Open Story Points Progress Closed Stor 29.0		s. Next Iteration Iteration 15 Move Workitems to the next Iteration them here.		
🕞 Remaining Stories and Defects				
∃ Filter				
_				
Title Owner	Status	Story Points		
	No Results To Display			
🕞 Closed Stories and Defects				
Reopen 👻				
Title	Owner	Status Story Points		
DR configuration enhancement	Omkar, Andy, Megan Leney	Done 3.00		
🔲 🕞 finalize AT drop, bugs and demo	yma	Done 5.00		
🔲 🕞 Rolling Upgrade - Solaris delivery	fwen, Omkar, Megan Leney	Done 5.00		
CPI screen output update	wli, fwen, Omkar, Megan Leney	Done 8.00		
CD Rolling Upgrade flow	wli, fwen, Omkar, Andy, Megan Le	ney Done 8.00		



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- 5 Future plans







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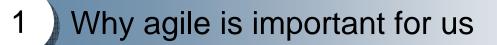
Customer NPS improvement

- More engaged with customers
- Improve Quality
 - Defects decreasing dramatically
 - Customer satisfaction
- Productivity
 - Communication
 - mitigate risks
 - Coding style adapt to Unit test, automation
- Team maturity
 - More communication
 - Self organized team
- GTM
 - Release frequently, reduce cost



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The Path Forward

Continuously improving the operating model



TEAL 1.0	TEAL 1.5		
Out of band - "Storming & Norming"	In-band Execution, Planning and review progress at quarterly summits		
Cross functional, cross geo phase teams	Homogeneous Communities of Practices per geo with alignment at TEAL Core team		
Areas of Focus Knowledge Mgmt Process Metrics Training 	 Concrete goals & clearer end state Drive WIKI adoption & consolidation Become an Agile enterprise Identify and embrace best practices Focus on Lean and optimizing specific value chains – support, patch, HCP Training – Agile, Scrum, TDD 		
Guiding model	Broader Engagement		
Qualitative assessment of progress	Metrics to gauge TEAL traction		
Individual contribution tracked qualitatively	TEAL integral part of performance management. Every SAMG employee should have a TEAL goal and should be rated on TEAL contribution.		

The Path Forward





Establish CoPs to drive best practice, metrics definition and adoption.



mplement mass engagement ideas.



Create timetable for transition to Agile per product area.



mplement TEAL/Agile training.



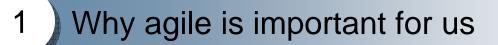
Accelerate information migration to common SAMG WIKI.



Pilot LEAN projects: Identify and execute on at least 2 value chain optimization projects.

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Issue 1 – VersionOne Status

- A Typical Issue In a Project
 - With GEO teams in the same project
 - QA from India did not update VersionOne status timely
 - Team only has weekly conf call to sync-up
- Resolving
 - Involving QA manager and PM into the status update loop
 - Talking about Version One during the weekly meeting with burn-down diagram for Dev/QA separately
- Result
 - QA started to update their status with more frequency





Confidence in a connected world.

Thank You!

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