

2014 Lean Transformation Conference

October 21, 2014



Continuously Improving Technology Development & Delivery

Using the Improvement Kata



About Me



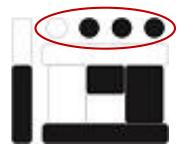
SoTech advisors

- 20 years delivering technology solutions
- Founded SoTech in 2008
- Help leaders learn and improve
- Long-term focus on capabilities; deliver results in the short-term
- Culture change and improvement come from new behaviors

10/21/2014

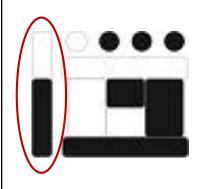


About You



- Supervisors?
- Mid Level Management?
- Executives?

About You



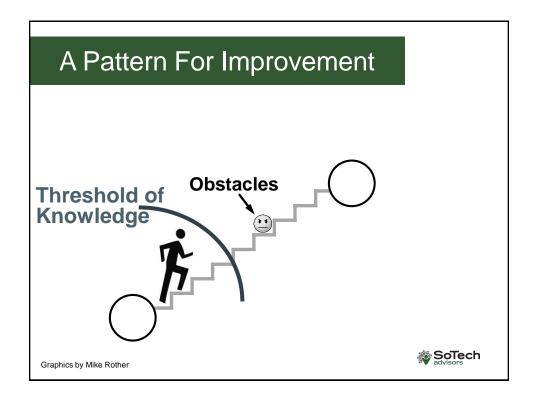
- · Lean?
- Agile?
- IT Process Frameworks?

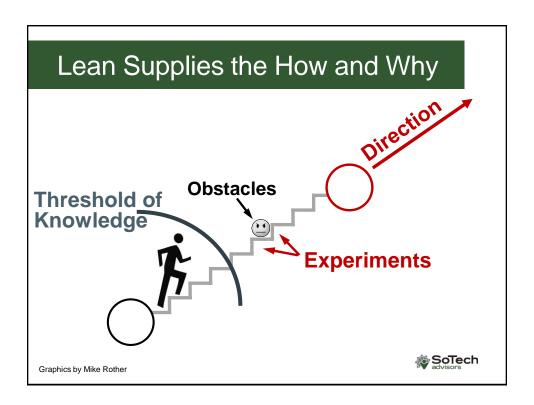












10/21/2014



Understanding The Improvement Kata

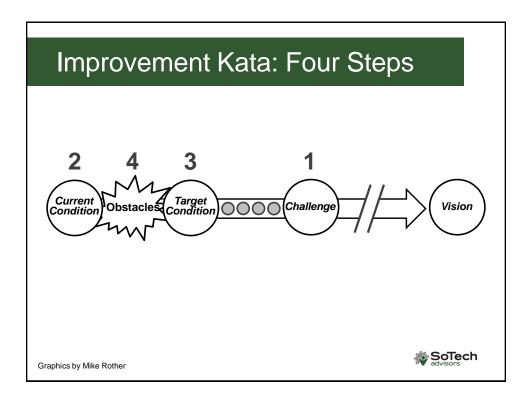
- The Thinking Pattern
- Its Origins
- How to Execute

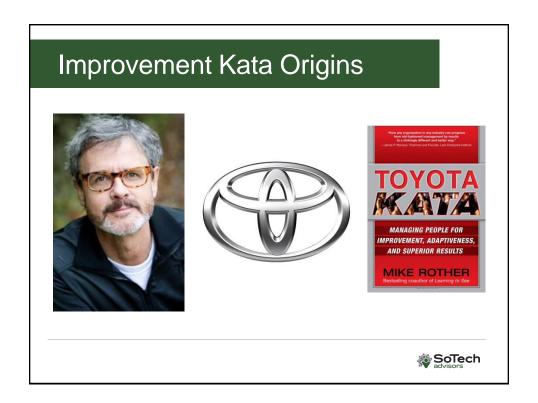
Improving Development and Delivery

- Challenges
- Lessons

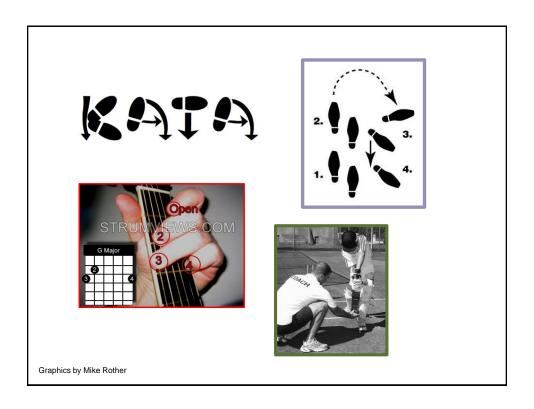
A Scientific Approach SMALL, RAPID EXPERIMENTS ADVANCE YOUR KNOWLEDGE QUICKLY The Grey Zone Current Condition (date) Craphics by Mike Rother

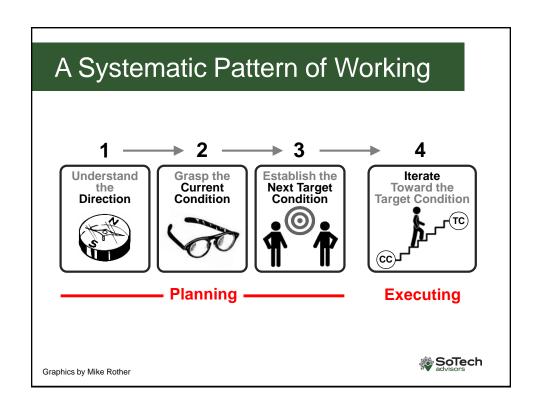












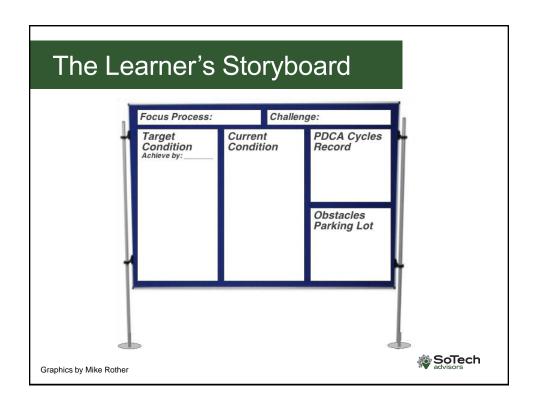


How Execution Works

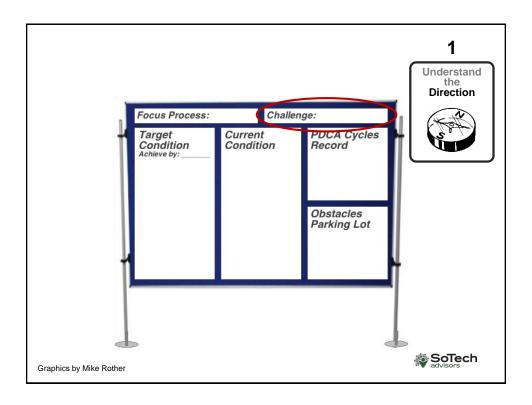
PATTERNS and ARTIFACTS

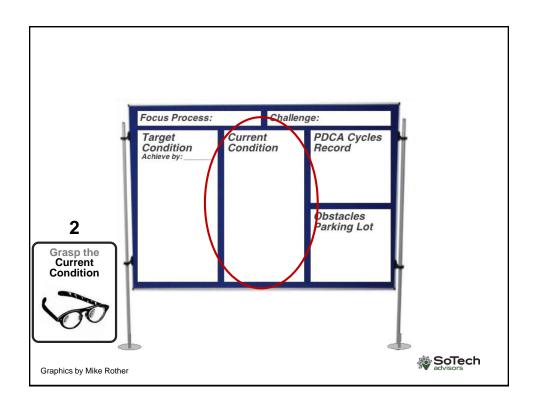
- Learner's Storyboard
- Target Condition
- Plan Do Check Act (PDCA) Cycles Record
- 5 Coaching Questions



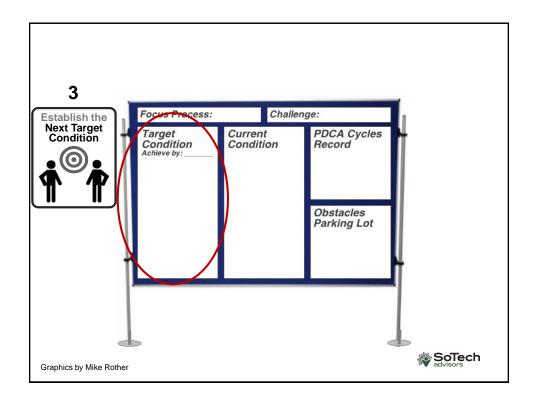


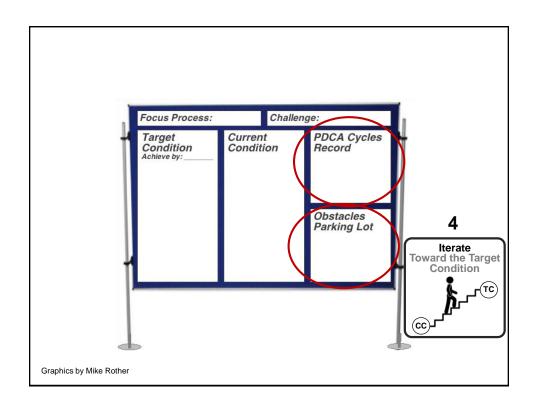










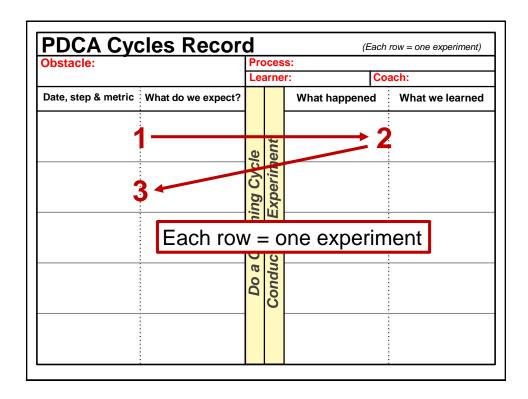


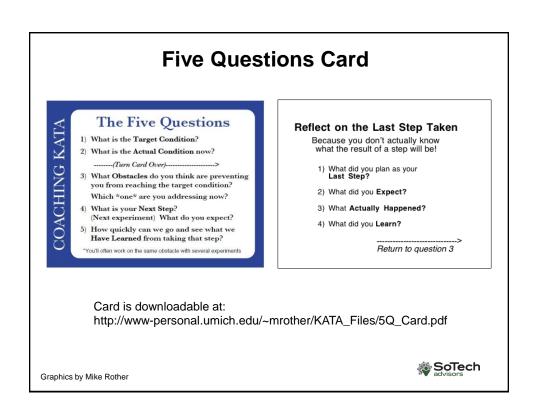


Target Condition Example Focus Process: Challenge: Push-button install Web service production install **Target Condition Current Condition** PDCA Cycle Achieve by: October 30 New services fail to install on the first try First-time deployment of about 50% of the time new web services 90% success rate Faster average deployment time No additional staff Obstacles Pa Net decrease in defects

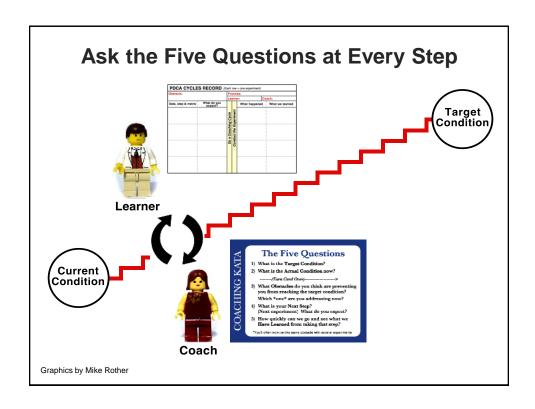
PDCA Cvo	cles Recor			(Each	row = one experiment)
Obstacle:		Pro	ces	s:	
		Lea	arne	r: Co	ach:
Date, step & metric	What do we expect?			What happened	What we learned

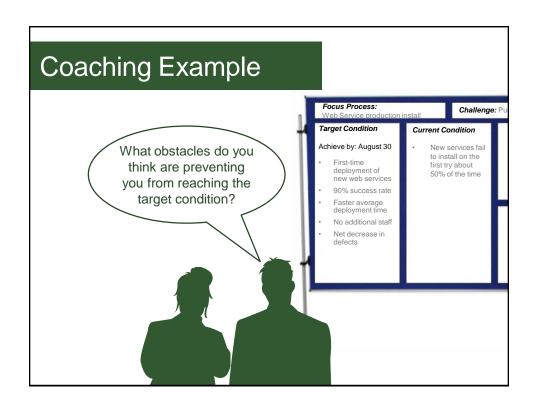












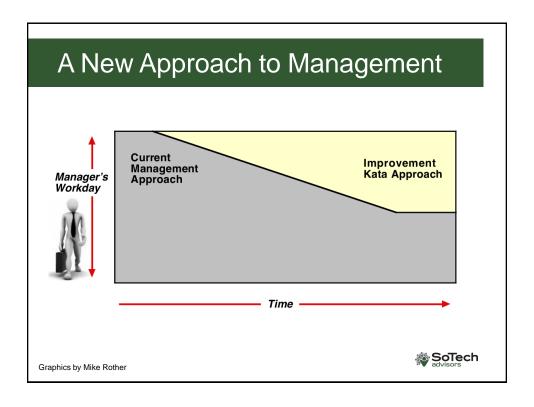


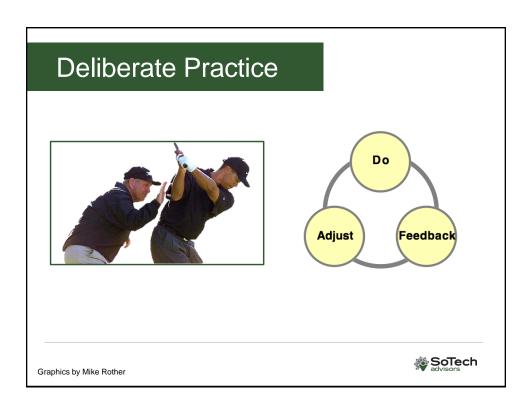
Target Condition Example

Focus Process: Web service production install		Challenge: Push-button insta		
Target Condition	Current Co	ondition	PDCA Cycle	
 Achieve by: October 30 First-time deployment of new web services 90% success rate Faster average deployment time 	install or	vices fail to the first try % of the time		
No additional staffNet decrease in defects			Obstacles P	

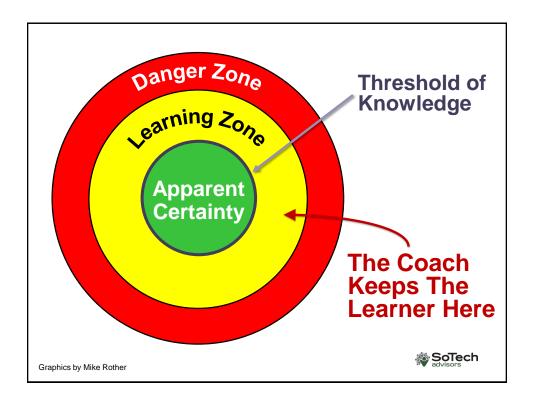
				CYCLE RECORD			
Obstac	le: W	eb service deployn	nent is unreliable			: Web Service First-time	Coach: Ada
Start/	Сус	What Will You Do?	What Do You	Lea	rnei	(s): Kathy Iberle What Happened	What We Lea
End	le#	(Step)	Expect?				
Day 1-2	1	Require developers of new service to do trial install following their own instructions prior to submitting service to Ops.	They will find the errors in their instructions and we will get correct instructions.	.ycle	riment	Team A could not do a trial install because they didn't have extra server on which to install the services.	Development doe servers.
Day 3-4	2	Ops will set up "staging" server for development to use for trial install.	They will find the errors in their instructions and we will get correct instructions.	Do a Coahing Cycle	Conduct the Experiment	Development's trial install onto staging server failed.	Environment on s different than envi server.
Day 4,5,6	3	Inform R&D of environment on staging server.	They will correct their dev server, and their installation instructions, and the instructions will	ğ	Conc	Development's trial install onto staging server failed.	Our account of the contents was not to replicate the e their dev server.











Understanding The Improvement Kata

- The Thinking Pattern
- Its Origins
- How to Execute

Improving Development and Delivery

Challenges • Lessons

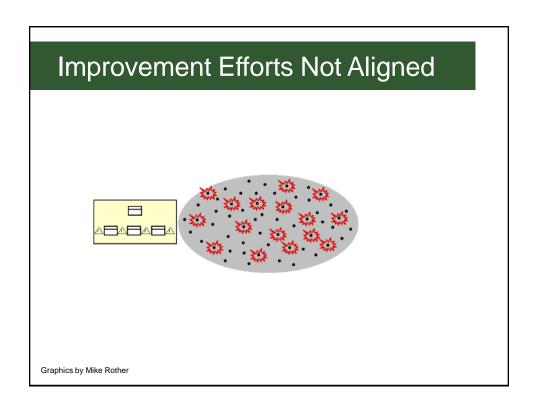


Improving Development and Delivery Challenges Lessons

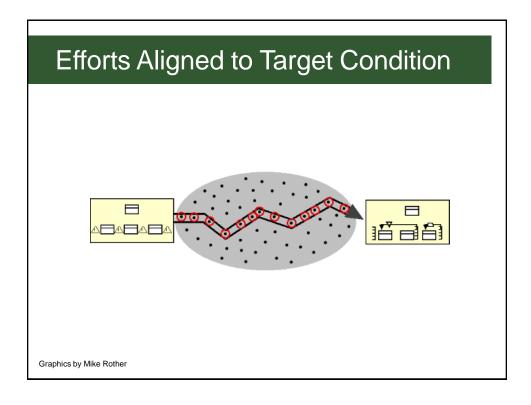
Improving Development and Delivery						
Challenges	Lessons					
Changing Conditions						
Complexity						
(Lack of) Framework Fit						
Multiple Initiatives						
Shifting Ends						

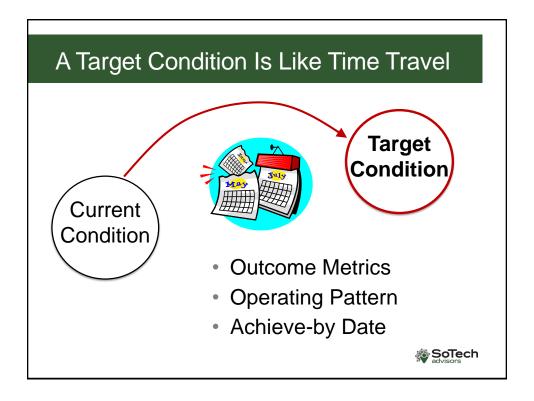














Target Condition Example: Subtraction Target Outcome Metric 90% of Students Proficient in Subtraction

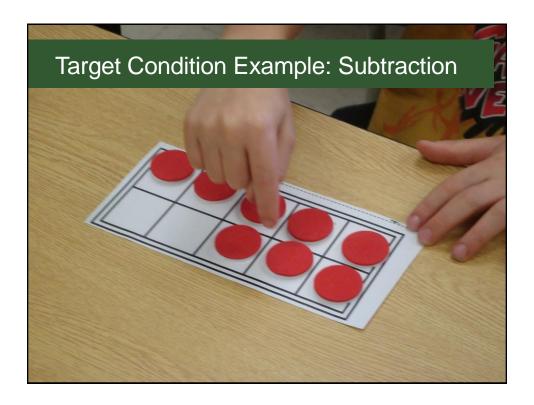
Target Condition Example: Subtraction Target Outcome Metric 90% of Students Proficient in Subtraction Can't be achieved directly



Target	Condition Exampl	e: Subtraction
	Current Outcome Metric	Target Outcome Metric
	60% of Students Proficient in Subtraction	90% of Students Proficient in Subtraction
		Can't be achieved directly

Current Operating Pattern	Current Outcome Metric	Target Outcome Metric
nstruction	60% of	90% of
nethod:	Students	Students
Carry the	Proficient in	Proficient in
ones"	Subtraction	Subtraction





Current Operating Pattern	Current Outcome Metric	Target Operating Pattern	Target Outcome Metric
Instruction method: "Carry the ones"	60% of Students Proficient in Subtraction	Use manipulative tools to learn place value	
		We predict that this pattern will achieve	this outcome



Without a Target Condition

- Enthusiasm Outpaces Knowledge
- Dueling Improvement Road Maps





With a Target Condition

Which *one* obstacle are we addressing now?







No Best Practices Apart from Learning

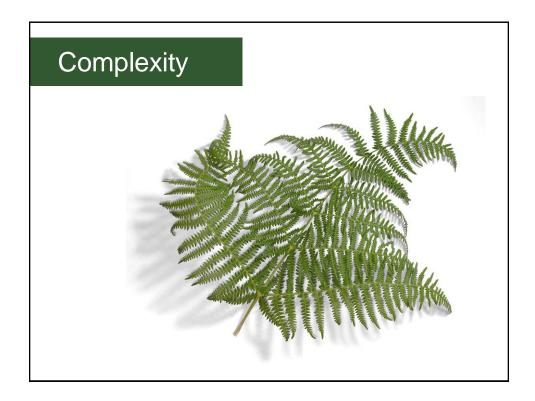
CONTINUAL CHANGE REQUIRES:

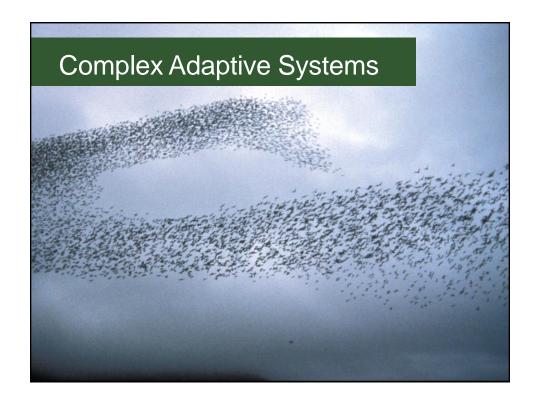
- Ability to Learn and Adapt
- Deeper Process Understanding



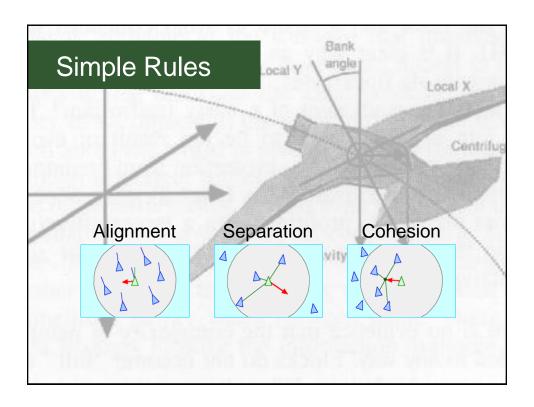


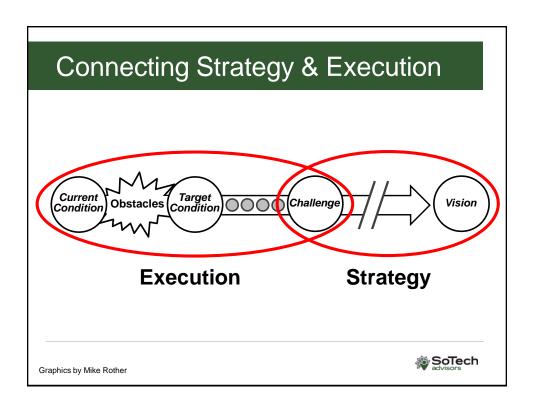














Management by Simple Rules

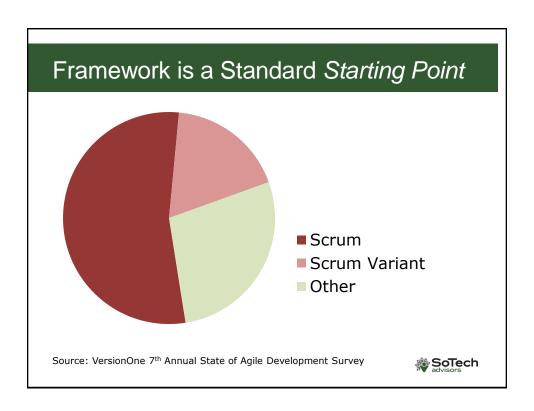
- Recognize Inherent Complexities
- Create the Right Container



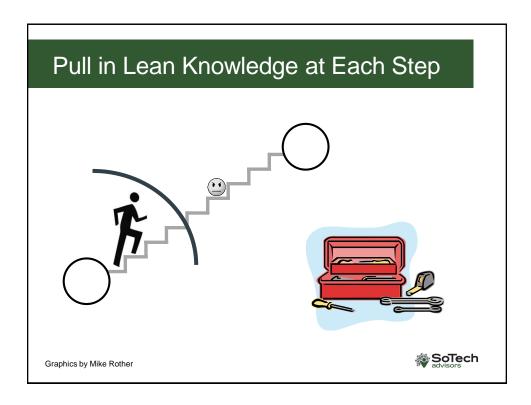
Improving Development and Delivery						
Challenges	Lessons					
Changing Conditions	No best practices apart from learning					
Complexity	Management defines simple rules					
(Lack of) Framework Fit						
Multiple Initiatives						
Shifting Ends						





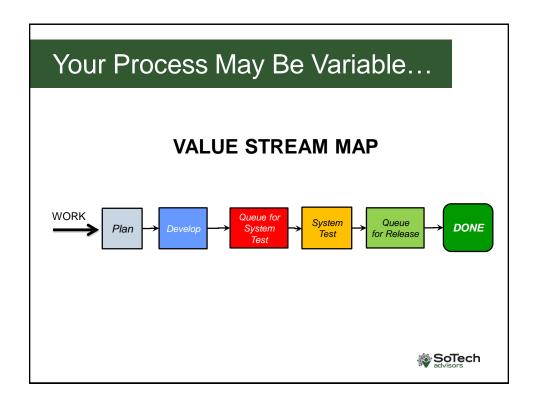


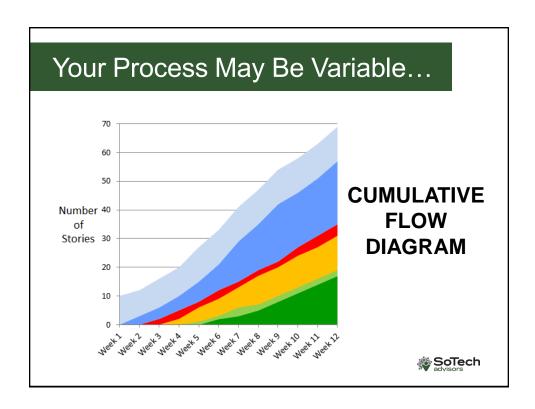




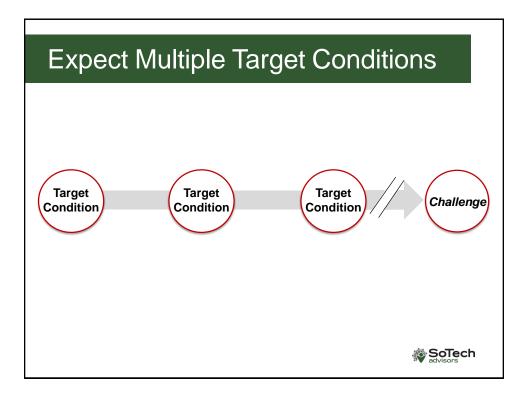
Frame Lean For Knowledge Work WHICH IS YOUR WORKFLOW? Steady arrival rate Evenly sized batches of work Differently sized batches of work Differently sized batches of work Not physical objects











Using Kata to Adopt and Adapt

FINDING FIT

- Framework is a Standard Starting Point
- Pull In Correctly Framed Lean Knowledge
- Plan for Adaptive Action





Multiple Initiatives

YOUR MISSION:

Employ IT Service Management

Adopt Agile Methods

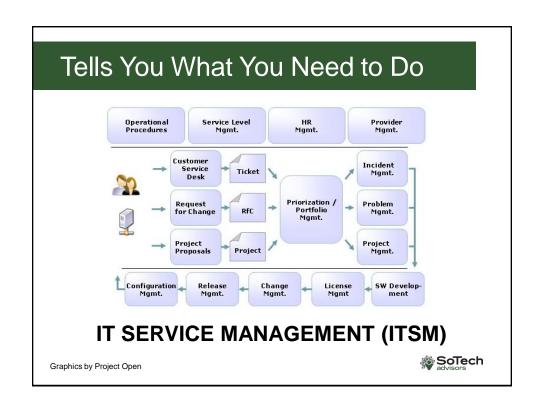
 Use Lean Practices and

Increase Quality

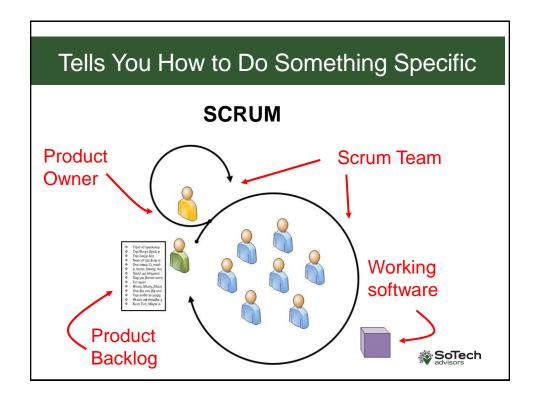
Implement New Technology

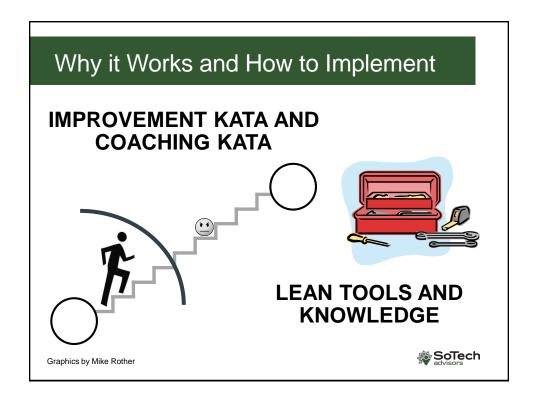
Do More Work with Less Budget



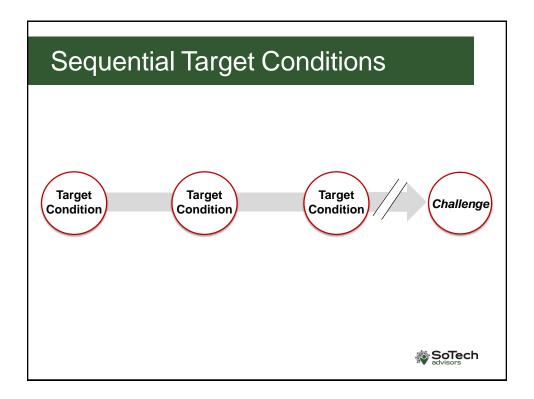


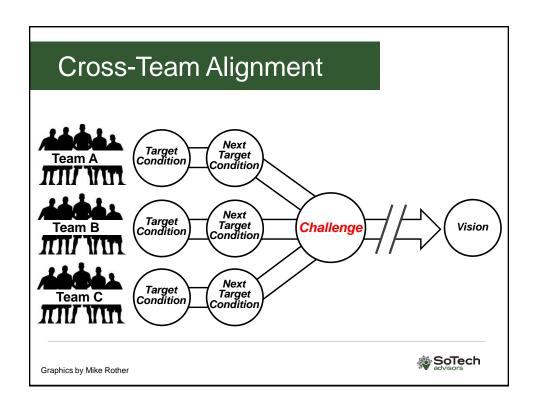




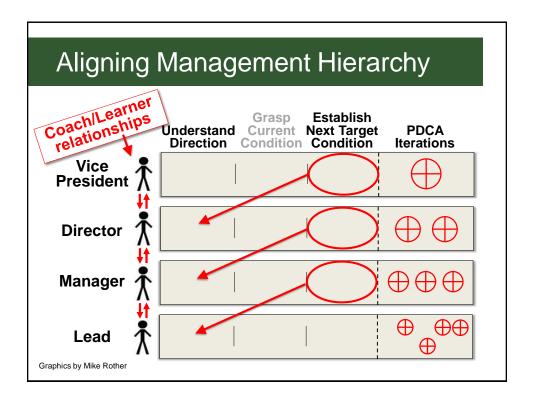












Integrate What, How, and Why

USE THE IMPROVEMENT KATA PATTERN

- Maintain Output and Quality While Improving
- Define Serial Target Conditions
- Align Improvement Across Teams
- Align Improvement With Hierarchy



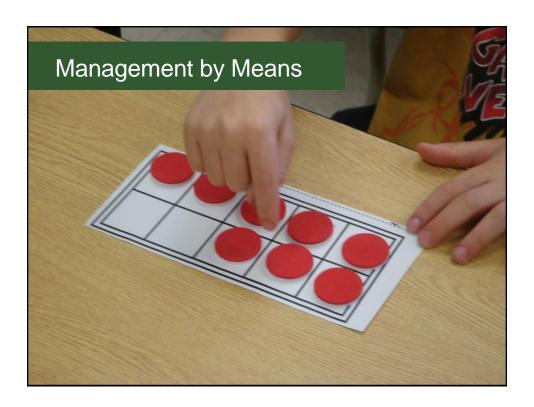


Improving Development and Delivery					
Challenges	Lessons				
Changing Conditions	No best practices apart from learning				
Complexity	Management defines simple rules				
(Lack of) Framework Fit	Framework is the starting point; pull in lean tools				
Multiple Initiatives	Integrate What, Why, and How				
Shifting Ends					





Current Operating Pattern	Current Outcome Metric	Target Operating Pattern	Target Outcome Metric
nstruction method: 'Carry the ones"	60% of Students Proficient in Subtraction	Use manipulative tools to learn place value	





Self Documenting Journey

	PDCA CYCLE RECORD							
Obstacle: Web service deployment is unreliable				Process: Web Service First-time Install in Ope				
				Lea	rne	r(s): Kathy Iberle	Coach: Adan	
Start/	Сус	What Will You Do?	What Do You			What Happened	What We Learn	
End	le#	(Step)	Expect?					
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Manage by Means

IN THE FACE OF SHIFTING ENDS...

- Focus on the Operating Pattern
- Use the Process to Maintain a Record

SoTech advisors

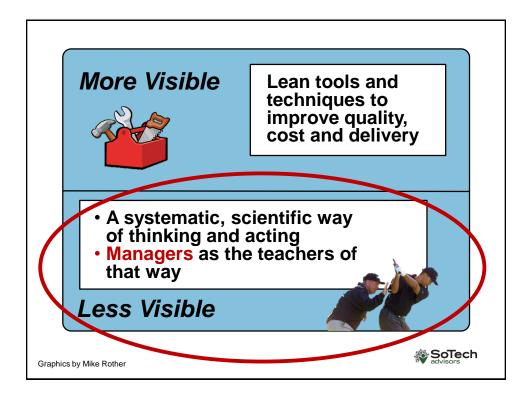


Understanding The Improvement Kata

- The Thinking Pattern
- Its Origins
- How to Execute

Improving Development and Delivery					
Challenges	Lessons				
Changing Conditions	No best practices apart from learning				
Complexity	Management defines simple rules				
(Lack of) Framework Fit	Framework is the starting point; pull in lean tools				
Multiple Initiatives	Integrate What, Why, and How				
Shifting Ends	Management by means; record of journey				





Improvement Kata in Your Work

CONTINUOUS IMPROVEMENT, SOUND AND SIMPLE

- Integrate Lean and Agile Improvements
- Use When No Single Solution Fits
- Talk to Me About Getting Started





Contact Information

Thank You!

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503.522.1499

