Methods & Tools

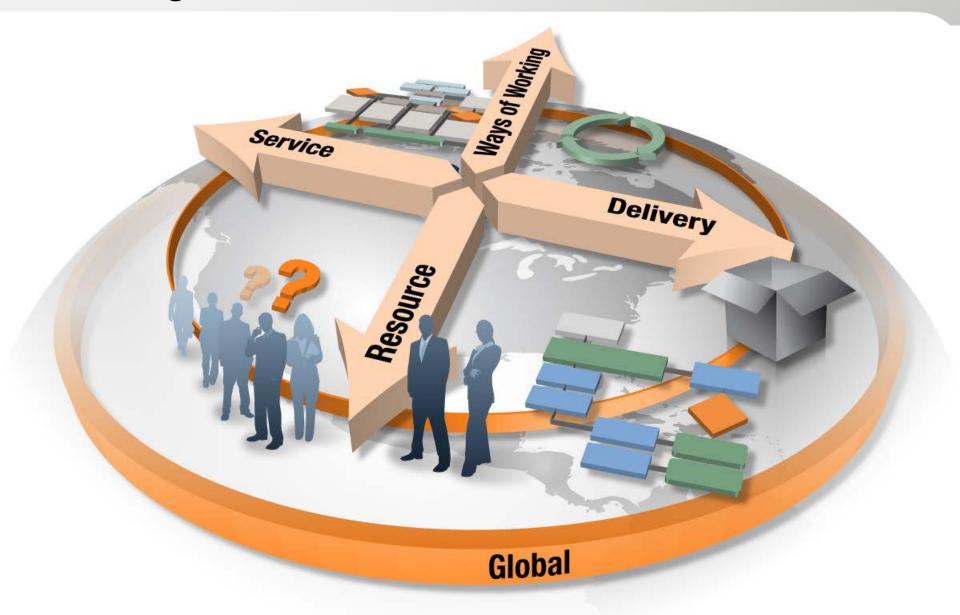
Dave Cuningham
Essence Workshop 20th June 2013





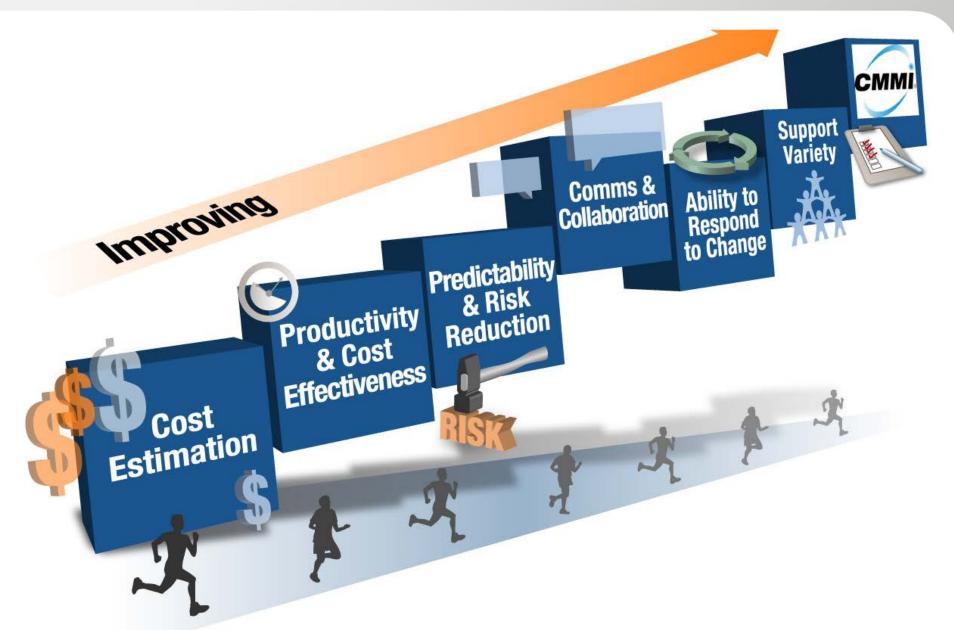
Challenges we faced





Our aspirations





Finding the right way of working



- Less than satisfactory experience with RUP & other methods
 - A desire to move away from One-Size-Fits-All methods
 - A desire for more Agile approaches
 - A need for a scalable methodology
 - A need to conform to CMMI

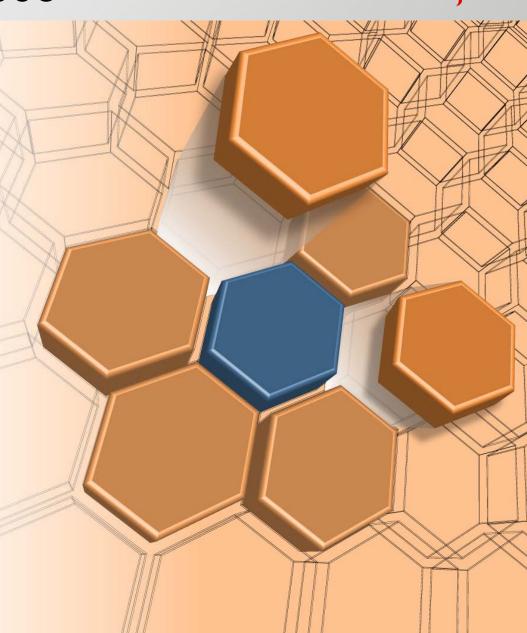




A meeting of minds 2006



- New approach
- No monolithic process
- Aspect orientated view
- Core underlying structure
- Just enough process



Just enough way of working



Meeting the diverse customer requirements to method

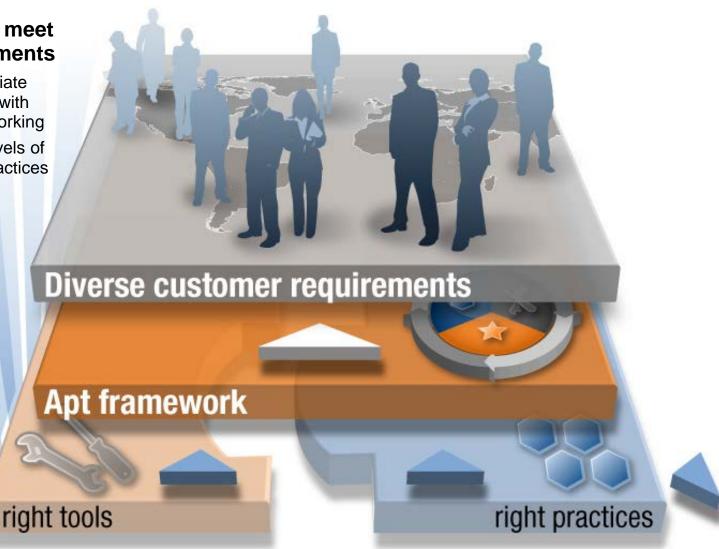
Tailor methods to meet customer requirements

> Choose appropriate practices to knit with existing ways of working

 Set appropriate levels of rigor for chosen practices

Select the right tools for the job

- Within the Apt tools framework
- Flexible and extensible
- Core features deliver control, consistency, and quality that frame extensions



Apt modern development techniques





Apt improves consistency & collaboration





Apt Planning & activity management

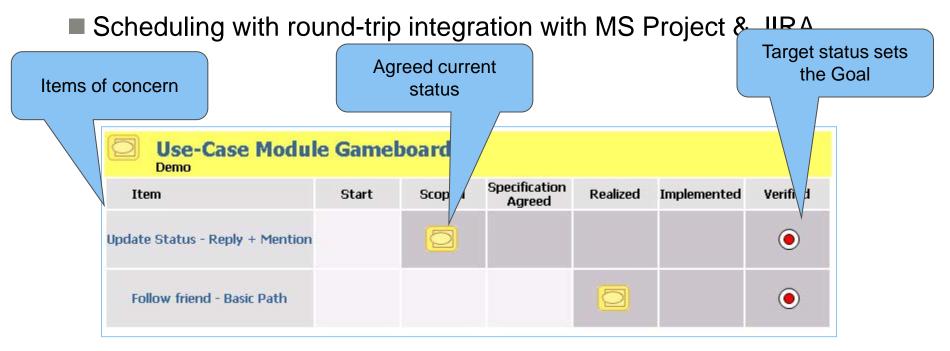




Apt Detailed planning

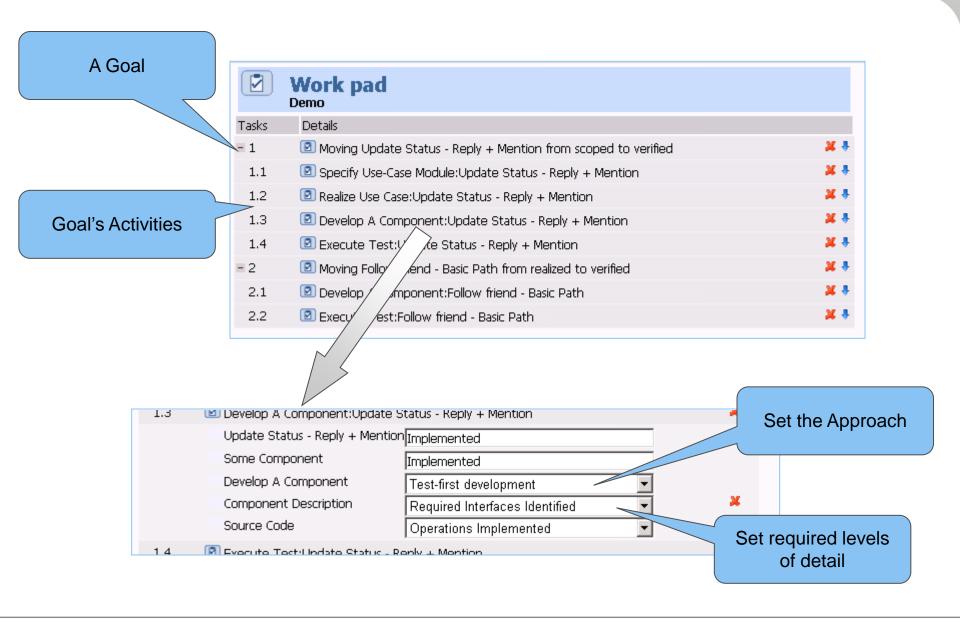


- Planning an iteration or work package
 - Team agree a set of goals
 - Automatic generation of Activities to achieve goals using EssWork
 - Publishing of Activities for tracking



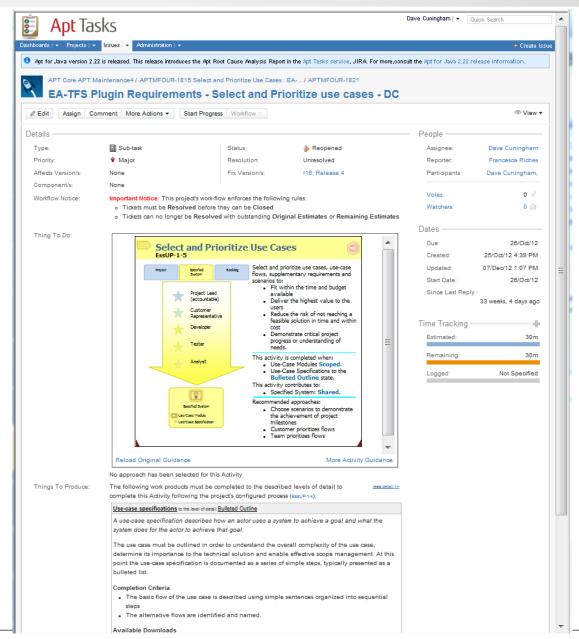
Apt Automatic Generation of Activities





Apt Automatic Generation of Activities





Extending with our own practices



- Manage Application Transition
- Application Value Assessment
- Test Management
- Manage Risk
- SOA Service Definition
- SOA Service Architecture Extension
- SOA Service Use Case Extension
- Business Use Case*
- Fujitsu Architecture Development Method
- Manage Application re-platforming **

Use for Root Cause Analysis



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		Standa rd Lifecyc	Explore Possibilities	Understand the Need	Specify The System	Shape the System	Shape the Service	Shape Support	Implement Software	Build Infrastructure	Establish Support	Fest the System	Release The System	Accept The system	Accept the Service	Deliver Service	Deliver Support	Fotal for each root sause	Defects located at stage	Stage Gap Total	Average Stage per defect
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Standard Root Cause	Root Cause (example)																				
Explore Possibilities	Benefits		1	- 4	-	-				1						-	2	15	15	73	4.87
Explore Possibilities	Contract Obligation		-	- 1	- 1	- 1	1		1	!		1	1	1	1	- 1	2	15	15	/3	4.87
Understand the Need	Business Requirement			- 1	-	-			1		_		 				2	14	29	119	4.1
	Software Requirements			-	1	-				1			-	-	- 1	- 1	2	13	23	113	4.
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	Test Cases				1	-	1		1	1				1	1	- 1	2	13	-	-	
	Service Requirements				1	1	1		1	1			1	1	1	- 1	2	13	52	176	3.38
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Implement Software	Development - Build Scripts								1			1	1	1	1	1	2	7			
	Development - Code								1				1	1	1	1	2	7			
	Design								1			1	1	1	1	1	2	7			
	Data								1			1	1	1	1	1	2	7			
	Test Script								1			1	1	1	1	1	2	7			
	Test Data								1			1	1	1	1	1	2	7	_	_	
	Cfg Mgt - Config Data Error			_					1			1	1	1	1	1	2	7			
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Build Infrastructure	Environment		-	_					-	1		1	1	1	1	1	2	7	7	21	3
Establish Support	Application Baseline		-	\rightarrow			-				-	1	1 1	1	1	- 1	2	7		-	-
	Application Inventory Knowledge Base		-	\rightarrow			_		_				- 1	1	1	- 1	2	7	-	-	-
	Operational Support Guide								 				l i	1	1	1	2	7	1	1 1	
	Instruction Manual											1	1	1	1	1	2	7	35	105	3
Toot the Custom	Test Specification											1	1	1	- 1	1	2	6	П	\Box	
Test the System	Test Results												1	1	1	- 1	2	- 6	12	28	2.33
Release the System	Release Description													1	1	1	2	5	- 5	8	1.6
Accept the System	System Acceptance Checklist															1	2	3	3	3	
Accept the Service	Service Acceptance Checklist			_												1	2	3	3	3	1
Deliver Service Deliver Support	General - Network Change		-	_												1	2	3		ا ا	┥.
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	Defects located at stage		2	3	5	9	9	8	11	11	12	236	27	107	28	37	73				
	Planned Cost Per Stage			120	567	988	55	88	100	100	100	100	100	100	100	100	100	_			
	Defect correction effort (Hrs)	—			2.00	7.00		20.00		31.00	44.00	6.00	8.00	4.00		4.00	10.00	181.00			
	Cost Of Rework- (hrs x rate)	l		###		315.70	####	902.00		1,398.10					225.50			101.00			
	(Causal)				###	-672.30		814.00		1,298.10					125.50		351.00	\dashv	+		
	Average cost per defect																	14.10			
	Defect Density - (proj hrs per																				
	defect)																	1.73			
	Defect Density - (defects per hour)																	0.58			
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Summary Benefits of Apt



- Enables distributed teams to be highly effective despite being in different countries and time zones
 - Clear and effective way of working for teams to follow
 - Clear link between project requirements/solution complexity and effort/timescale
 - Fast project start-up at lower cost
 - Real-time visibility of status and progress for management
 - Modern, attractive environment for staff and clients
 - Encourages a lean approach to application services
- Robust, reliable development infrastructure
- Integration of methods and tools saves time and cost whilst giving higher quality and productivity



Fin

