10 October 2005

Workshop

Evolutionary Project Management Methods

Slash Project Time with Evolutionary Methods

How to deliver the best possible results in the shortest possible time

Niels Malotaux

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Niels Malotaux

Slash Project Time with Evolutionary Methods

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Niels Malotaux

Niels Malotaux is an independent consultant and project coach, teaching immediately applicable methods for delivering Quality On Time to projects and organizations. He has some 30 years experience in designing hardware and software systems, at Delft University, in the Dutch Army, at Philips Electronics, and 20 years leading his own systems design company. Since 1998 he devotes his expertise to teaching and coaching projects to deliver Quality On Time. Since 2001 he coached some 30 projects at 11 different organizations in the Netherlands, Belgium and USA. He is a frequent speaker at conferences.

Niels puts development teams on the Quality On Time track and coaches them to stay there and deliver their quality software or systems on time, without overtime, without the need for excuses. Practical methods are developed, used, taught and continually optimized for:

- Evolutionary Project Management (Evo)
- Requirements Generation Management
- Reviews and Inspections.

Within a few weeks of turning a development project into an Evo project, the team has control and can tell the customer when the required features will all be done, or which features will be done at a certain date. Niels enjoys greatly the moments of enlightenment experienced by his clients when they find out that they can do it, that they are really in control, for the first time in their lives.



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Delivering Better Results Faster Niels Malotaux +31-30-228 88 68 niels@malotaux.nl www.malotaux.nl/nrm/English T Niels Malotaux • Project Coach •		Evoluti	ct Time ionary	
Niels Malotaux Consultancy +31-30-228 88 68 niels@malotaux.nl www.malotaux.nl/nrm/English 1 1 Niels Malotaux Image: Note of the second se	Deliveri	ng Better Re	sults Faster	
Niels Malotaux Project Coach • Evolutionary Project Management (Evo) • Requirements Engineering	Niels Malota	iux		
Project Coach • Evolutionary Project Management (Evo) • Requirements Engineering	+31-30-228 88 68	niels@malotaux.nl	www.malotaux.nl/nrm/English	
Evolutionary Project Management (Evo)Requirements Engineering	Niels Malo	otaux		
	EvolutRequire	ionary Project Manage ements Engineering	ment (Evo)	
	Who are y	ou?		
Who are you?	• Industry			
• Industry				
IndustryTypes of product			3	3

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Ambition		
What pro (In your work	blem would you like to solve most	?
		4
Immediat	ely OK?	
100% goo	rojects regularly deliver immediate d results?	ly
Why not?		
Is this not		
• What can	we do about it?	
		5
Agreed ti	me	
 Do your within th 	projects regularly deliver e time agreed?	
Why not	?	
• Is this no	ormal?	
What car	n we do about it?	

Intro

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Intro

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NO CUre	e - no pay	
	tever you do doesn't yield a positive ROI, houldn't get paid	
	u better shouldn't do it	
-		
• Who c	lares working on a no-cure no-pay basis?	
	16	/
Stakeh	older exercise	
• Every	y project has about 30 Stakeholders	
• The s	set of Stakeholders doesn't change much	
1. Make	a list of Stakeholders	
	ct which Stakeholders you should serve in current project	
	is the most important requirement for each	
	eholder?	

Intro

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Quality On Time • What is Quality?	<pre>ultively for the second s</pre>
What is Quality?	 What is Quality? What is On Time?
	• What is On Time? 2 Quality • I know it when I see it?
	• I know it when I see it?
	• I know it when I see it?
	• I know it when I see it?
Quality	

Quality on Time

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Quality on Time

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Booklets: http://www.malotaux.nl/nrm/pdf/MxEvo.pdf http://www.malotaux.nl/nrm/pdf/Booklet2.pdf http://www.malotaux.nl/nrm/pdf/EvoTesting.pdf

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Is it difficult to be on time?		
• Did anyone miss a plane?		
• What did you feel?		
Why did it happen?		
Did it happen again?		
	19	

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Issues	
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Discipline	
Control of wrong inclinations	
• Even if we <i>know</i> how it <i>should</i> be done	
(if nobody is watching)Discipline is very difficult	
Romans 7:19	
For the good that I would I do not	
\rightarrow We must help each other (watching over the shoulder)	
\rightarrow Rapid success helps	
	2
Intuition	
Makes you react on every situation	
Intuition is fed by experience	
 It is free, we always carry it with us 	
 Sometimes intuition is simply wrong 	
 In many cases the head knows, the heart not 	
Coaching is about redirecting intuition	
	J
	3

Issues

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Issues

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Whatever ca	n go wrong, will go	wrong	
This is not c	ondoning defects		
This doesn't	t mean that we shou	ld accept fate	
which can g	t we should check a o wrong ıre that they don't g		
			19

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Consultancy	Evo elemen	Its
The Goal Providing the customer with what he needs at the time he needs it to be satisfied to be more successful than he was without it Constrained by what the customer can afford what we mutually beneficially and satisfactorily can deliver	Niels Malotaux Consu	3 Malotaux Jultancy
 Providing the customer with what he needs at the time he needs it to be satisfied to be more successful than he was without it Constrained by what the customer can afford what we mutually beneficially and satisfactorily can deliver 	+31-30-228 88 68 niels@malotaux.nl www	/.malotaux.nl/nrm/English
 what the customer can afford what we mutually beneficially and satisfactorily can deliver 	 Providing the customer with what he needs at the time he needs it to be satisfied to be more successful than he was with 	thout it
	what the customer can affordwhat we mutually beneficially and satis	sfactorily can deliver
	 Many projects don't deliver the righ Many projects deliver late or, more positively: 	it Results
Many projects deliver late	 I want my project to be more succes In shorter time 	ssful 3

Evo elements

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Priorities	
Detter 000/ 4000/ done they 4000/ 000/ done	
Better 80% 100% done, than 100% 80% done	
Let it be the most important 80%	
	7
Elements of Evo	
Focus on delivering value and productivity gain to stakeholders	
Constantly, actively learning. To optimize our Results	
Task Cycles to organize the work (estimation, planning, tracking, priority)	
Delivery Cycles to verify the requirements and assumptions	
Delivery Cycles to provide early productivity to the stakeholders	
Analysis Tasks to find out what we don't know yet	
TimeLine to keep vision and control over the whole project	
Working in a strict time box mode: Solving the estimation-planning-tracking weakness	
Active synchronization with related parties (e.g. hardware, other team,	
suppliers)	
Requirements and Risk Management are part of daily life	
Working on a strict priority basis	
(Why are we doing this? Why now? Who's waiting for this?)	
	8
Elements of Evo	
• What we've done is done, we cannot change it any more	
 What we do from now, we can control 	
Constantly asking ourselves:	
What should we do now, in which order,	
to which level of detail for this moment	
• Don't ostrich, we deliberately pull the head out of the sand	
 The methods really work (otherwise we would discard them) No other method delivers better results factor (otherwise we would be 	
 No other method delivers better results faster (otherwise we would be using that method; nothing is sacred) 	
 You can start saving time, saving money immediately 	
 Relaxed working, yet higher productivity, no need for excuses any more 	
Happy developers, happy customers, happy management	
Customer has choice in the time-to-market and features battle	
Quality is cheaper	

Booklets: http://www.malotaux.nl/nrm/pdf/MxEvo.pdf http://www.malotaux.nl/nrm/pdf/Booklet2.pdf http://www.malotaux.nl/nrm/pdf/EvoTesting.pdf

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Evolutionary start pattern Evo day Explanation of the Evo approach Organizing the work of the coming week Goal: at the end of the day, people of the team know what they are going to work on and why Next day Defining Tasks by the remaining team members (larger team)
Evolutionary start pattern • Evo day Explanation of the Evo approach Organizing the work of the coming week Goal: at the end of the day, people of the team know what they are going to work on and why • Next day Defining Tasks by the remaining team members (larger team) • Weekly Evo day Execution of the 3-step procedure 2 Evolutionary introduction pattern 1. Introducing Tasks How to organize the work Introducing Tasks Short term view Short term view Project view
 Explanation of the Evo approach Organizing the work of the coming week Goal: at the end of the day, people of the team know what they are going to work on and why Next day Defining Tasks by the remaining team members (larger team) Weekly Evo day Execution of the 3-step procedure Evolutionary introduction pattern
1. Introducing Tasks How to organize the work Short term view 2. Introducing Deliveries Focusing on Results Project view 3. Introducing TimeLine Project view

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ndividual preparation	
Conclude current tasks	
How much time available	
Priority check	
Synchronization with group (team meeting)	
Formal confirmation Consurrency	
Learning	
Helping Socializing	
	16
Jeriment!	
very meeting with more than one person uses a	
rojector	
/hy?	
-	
/hy?	
on't believe me. Try it out yourself. Experiment!	
ut then	
)
	v
:hitect ↔ Project Manager	
rchitect: Master Builder	
rchitect is the conductor of the Product	
roject Manager is the conductor of the Project	
here is only one captain on the ship:	
	 What to do next Estimations How much time available Modulation with / coaching by Project Management Status Priority check Feasibility Commitment and decision Synchronization with group (team meeting) Formal confirmation Concurrency Learning Helping Socializing wery meeting with more than one person uses a rojector 'hy? to-1's should be held on neutral ground 'hy? on't believe me. Try it out yourself. <i>Experiment!</i> hitect ↔ Project Manager rchitect: Master Builder rchitect is the conductor of the Product roject Manager is the conductor of the Project

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Links

- http://www.gilb.com
 Tom Gilb's website: Evo guru
- http://www.malotaux.nl/nrm/English
 Niels' activities: Evo evangelist
- http://www.malotaux.nl/nrm/Evo
 Evo pages
- http://www.malotaux.nl/nrm/pdf/MxEvo.pdf
 Evolutionary Project Management Methods (issues and 2001 experience)
- http://www.malotaux.nl/nrm/pdf/Booklet2.pdf How Quality is Assured by Evolutionary Methods (more recent practical implementation experience)
- http://www.malotaux.nl/nrm/pdf/EvoTesting.pdf
 Optimizing the Contribution of Testing to Project Success
- http://www.malotaux.nl/nrm/Evo/ETAF.htm Download the Evo Task Administrator (ETA) tool (expects MSAccess2000-2003)

Results of Evo

Solid control of development projects

by doing the right things in the right order to the right level of detail

- Early results regular, frequent deliveries of stakeholder value: right order
- Better results rapid, frequent feedback: do right things right
- Faster results only what is needed in the right order
- Risk reduction no missed deadlines, no unusable results
- Less stressed developers stress disappears while producing more
- Happy customers getting early and regular deliveries that can be used
- More profits better results in 30% less time saves costs
- Magic bullet remarkable results, no better alternative

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Evo Tas Adminis		
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Cycles in Evo	task	
 Weekly Task Cycle Are we doing the right thin in the right order, to the right Optimizing estimation, pla abilities to better predict the Select highest priority task priority tasks, never do und There are only about 26 re In the remaining time: do weighted to be Tasks are always done, 10 	ght level of detail organization unning and tracking he future ks, never do any lower idefined tasks ral effort hours in a week whatever else you have to do	
Cycles in Evo	task	
Delivering the juiciest, m	right level of detail s and checking assumptions nost important	
 stakeholder values that of What will make Stakehol What will generate the of Not more than 2 weeks 		

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Evo Task Administrator

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Niels Malotaux Description *130-228 85 8 nelsgmalotauxal www.malotauxal/inmvEnglish Case 1: First project (c4 2000) . • Busy for some 9 months (15 people, € 2M spen) . • Sill working to get "complete requirements" . • Organize software in 3 week increments . • Project was cancelled in first week . • Results came out one week later . * . • Busy for some 9 months (5 people) . • Results came out one week later . • Busy for some 9 months (5 people) . • Project already over time . • Software desparately unstable . • Motivation below zero . • Motivation below zero . • Motivation below zero . • Monagement had given up . • One more charce: . Stable within 6 weeks or else .	Supplemental slides	
Case 1: First project (Q4 2000) Busy for some 9 months (15 people, € 2M spent) Still working to get "complete requirements" Organize software in 3 week increments Project was cancelled in first week Results came out one week later Case 2: 2 nd project (Jan - March 2001) Busy for some 9 months (5 people) Project already over time Software desperately unstable Motivation below zero Management had given up One more chance:		aux
 Busy for some 9 months (15 people, € 2M spent) Still working to get "complete requirements" Organize software in 3 week increments Project was cancelled in first week Results came out one week later Case 2: 2 nd project (Jan ~ March 2001) Busy for some 9 months (5 people) Project already over time Software desperately unstable Motivation below zero Management had given up One more chance: 	+31-30-228 88 68 niels@malotaux.nl www.malotaux.nl/nrm	1/English
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 Project already over time Software desperately unstable Motivation below zero Management had given up One more chance: 	Case 2: 2 nd project (Jan ~ March 2001)	
 Software desperately unstable Motivation below zero Management had given up One more chance: 		
 Motivation below zero Management had given up One more chance: 		
 Management had given up One more chance: 		
One more chance:		
	One more chance:	

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Case 5:	
• 3 projects, 13 people,	
expecting 15 weeks of average 34 hours would have used ~ 6600 hours.	
• With the investment of total 110 hours coaching, we expect to save 2200 hours.	
 Assume coach cost double of project members, ROI will be 2200 / (110 * 2) is 10 to 1. 	
10)
Case 6:	
-	
 Project Manager needed two days of coaching for basic Evo 	
Two more times with 3 weeks intervals	
Project well within the expected time	
Product manager absolutely happy with results	
11	
Case 7: A "failure"	
Seasoned project manager: "Good idea, but"	
No emphasis on TimeBoxing	
Didn't try to understand Delivery and TimeLine concepts	
Many "hero's" in the team	
I can do whatever I want. I know so much, they won't fire me.	
 No Sense of Urgency both in team and from management Management by fear Management asks different things every week 	
Management asks impossible results	
If you don't apply Evo, Evo does not fail, the project does	
12	

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On Selection	ality Time n of posters all or door for all to see and study
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Tasks feed Deliveri	es <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u> <u>ryper</u>
Actively Synchronize	

Selection of posters

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Selection of posters

TaskCycle preparation					
Name	Your Goal				
TaskCycle					
Available plannable hours					
Project	Project Goal				
Stakeholders	Stakeholder Requirements				
Deliveries	Most productive delivery				
Tasks to do	Estimation = timebox Priority				

Task Cycle Plan name Taskcycle Available plannable hrs

project	delivery due	task due	hrs	prio	tsk sht	done	description

Та	askSheet for week	Assigned to	Estimated duration					
Та	ask description							
V	•	sk to be used as reference fo	or verification					
	Functions (what sho	uld it do?)						
		work, like "no bugs", or "no leaks": you	e.g. "usability", "user-friendly", "response time", etc. Don't ar work is supposed to be Quality On Time. That is,					
	Constraints							
Ŋ			tents stated? What has to be done before I can say task is a modification, state what modifications have to					
V	Implementation details	how am I going to implemen	t it)					
V	Verification approach – How can I make sure that it doe	test design s what it should do and that it does not	do what it should not do.					
V	-	I going to do things to move efficiently : evolutionary steps, no big bang	towards the final result?)					
Ø	Is everything really clea	r?						
V	Have this document (an	d related docs, if any) review	ed					
Ø	•	until everything is clear and						
\checkmark	Detail the design		<u> </u>					
V	Convert the detailed des	sign to code						
V	Verify against the writte to the defined test. Com		more) and against the design according					
V	Checklist for 100% done	:						
	Image: The code compiles and links with all files in integration promotion level							
	☑ The code simply do	☑ The code simply does what it should do: no bugs						
	☑ There are no memor	y leaks						
		ning measures have been im						
		according to the rules agreed	I					
	☑ File promotion is do							
	☑ I feel confident that	the tester will find no probler	ns					
V	Project manager is info	med about task completion						