# Predicting the Results Of Agile Projects Even when Outsourcing

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#### • Project Coach

- Evolutionary Project Management (Evo)
- Requirements Engineering
- Reviews and Inspections
  Result Management

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#### Return on Investment (ROI)

- + **Benefit of doing** huge (otherwise other projects would be more rewarding)
- Cost of doing project cost, usually minor compared with other costs
- Cost of doing nothing every day we start later, we finish later
- Cost of being late lost benefit

## **Ultimate Goal of a Project**

Quality on Time

• Delivering the Right Result at the Right Time, wasting as little time as possible (= efficiently)

#### 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 (win win)
  - what the customer can afford
  - what we mutually beneficially and satisfactorily can deliver
  - in a reasonable period of time

## Preflection, foresight, prevention

Insanity is doing the same things over and over again and hoping the outcome to be different (let alone better)

Albert Einstein 1879-1955, Benjamin Franklin 1706-1790, it seems Franklin was first

#### Only if we change our way of working, the result may be different

- Hindsight is easy, but reactive
- Foresight is less easy, but proactive
- Reflection is for hindsight and learning
- Preflection is for foresight and prevention

Only with *prevention* we can save precious time This is used in the Deming or Plan-Do-Check-Act cycle







Plan-Do-Check-Act **Evolutionary Project** The powerful ingredient for success Management (Evo) **Business Case** • Why we are going to improve what **Requirements Engineering** Zero • What we are going to improve and what not **Defects**  How much we will improve: quantification Attitude Architecture and Design Selecting the optimum compromise for the conflicting requirements **Early Review & Inspection** Measuring quality while doing, learning to prevent doing the wrong things Weekly TaskCycle **Evo Project Planning**  Short term planning **Optimizing estimation** Promising what we can achieve Living up to our promises **Bi-weekly DeliveryCycle** Optimizing the requirements and checking the assumptions Soliciting feedback by delivering Real Results to eagerly waiting Stakeholders **TimeLine** Getting and keeping control of Time: Predicting the future Feeding program/portfolio/resource management 10



## Every week we plan

- How much time do we have available
- 2/3 of available time is net plannable time
- What is most important to do
- Estimate effort needed to do these things
- Which most important things fit in the net available time (default 26 hr per week)
- What can, and are we going to do
- What are we not going to do

2/3 is default start value this value works well in development projects

	$\partial$		
	Taska	2	^
	Taskb	5	
	Taskc	3	
	Taskd	6	do
	Taske	1	
	Taskf	4	
	Taskg	5	26
	Taskh	4	
	Taskj	3	do
	Taskk	1 '	not
Ť			

## DeliveryCycle

- Optimizing the efficiency of what we deliver
- Are we delivering the right things, in the right order to the right level of detail for now
- Optimizing requirements and checking assumptions
  - 1. What will generate the optimum feedback
  - 2. We deliver only to eagerly waiting stakeholders
  - 3. Delivering the juiciest, most important stakeholder values that can be made in the least time
  - What will make Stakeholders more productive now
- Not more than 2 weeks







- Organizing the work in very short cycles
- Making sure we are doing the right things
- Doing the right things right
- Continuously optimizing (what not to do)
- So, we already work more efficiently

but ...

• How do we make sure the whole project is done on time ?









## Predicting what will be done when

Line	Activity	Estim	Spent	Still to	Ratio	Calibr	Calibr	Date
				spend	real/es	factor	still to	done
1	Activity 1	2	2	0	1.0			
2	Activity 2	5	5	1	1.2	1.0	1	30 Mar 2009
3	Activity 3	1	3	0	3.0			
4	Activity 4	2	3	2	2.5	1.0	2	1 Apr 2009
5	Activity 5	5	4	1	1.0	1.0	1	2 Apr 2009
6	Activity 6	3				1.4	4.2	9 Apr 2009
7	Activity 7	1				1.4	1.4	10 Apr 2009
8	Activity 8	3				1.4	4.2	16 Apr 2009
$\downarrow$	$\downarrow$							
16	Activity 16	4				1.4	5.6	2 Jun 2009
17	Activity 17	5				1.4	7.0	11 Jun 2009
18	Activity 18	7				1.4	9.8	25 Jun 2009



### **Deceptive options**

- Hoping for the best (fatalistic)
- Going for it (macho)
- Working Overtime (fooling ourselves)
- Moving the deadline
  - Parkinson's Law
    - Work expands to fill the time for its completion
  - Student Syndrome
    - Starting as late as possible, only when the pressure of the FatalDate is really felt





Continuous elimination of waste

We don't have enough time, but we can save time without negatively affecting the Result !

- Efficiency in what (why, for whom) we do doing the right things
  - Not doing what later proves to be superfluous
- Efficiency in how we do it doing things differently
  - The product
    - Using proper and most efficient solution, instead of the solution we always used
  - The project
    - Doing the same in less time, instead of immediately doing it the way we always did
  - Continuous improvement and prevention processes
    - Constantly learning doing things better and overcoming bad tendencies
- Efficiency in when we do it right time, in the right order
- TimeBoxing much more efficient than FeatureBoxing