Evolutionary Planning

Producing even more in less time

www.malotaux.nl/conferences

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Niels Malotaux



- Team and Organizational Coach
- Expert in helping optimizing performance
- Helping projects and organizations very quickly to become
 - More effective doing the right things better
 - More efficient doing the right things better in less time Result Management
 - Predictable delivering as predicted
- Helping teams to shine

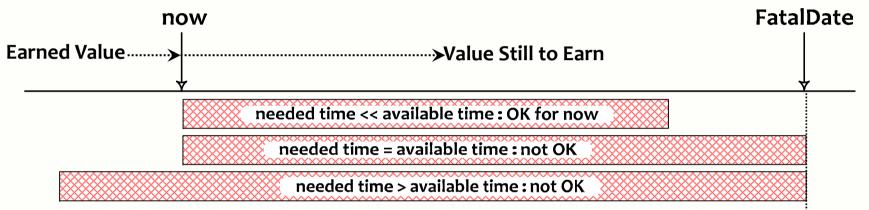
Goal of What We Do

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

Any Deadlines?



Value Still to Earn

versus

• Time Still Available



If the match is over, you cannot score a goal

Deceptive and dangerous options

- Deceptive options
 - Hoping for the best (fatalistic)
 - Going for it (macho)
 - Working Overtime (fooling ourselves and the boss)
 - 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
- Dangerous (but sometimes necessary) option
 - Adding people
 - Beware of Brooks' Law (1975)
 - Adding people to a late project ... makes it later



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

Do you use Retrospectives?

Do we really learn from what happened?

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

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

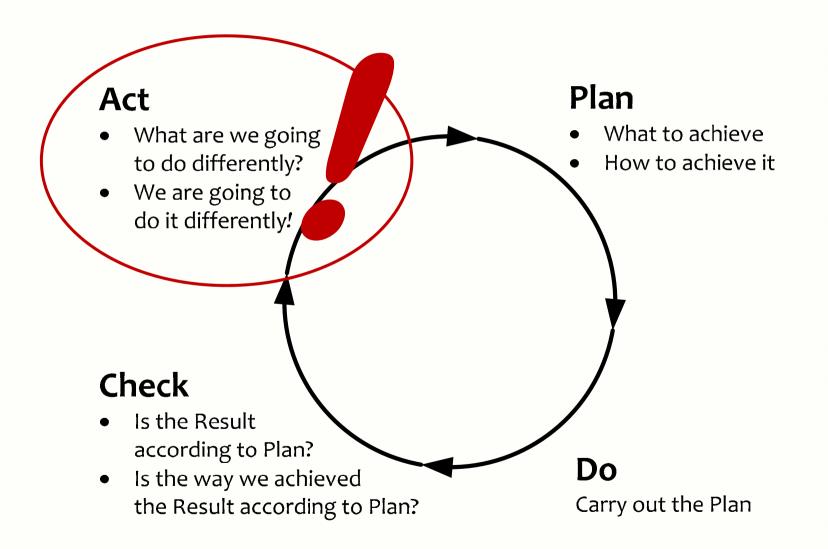
Only if we change our way of working, the result may be different

- 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

The essential ingredient: the PDCA Cycle

(Shewhart Cycle - Deming Cycle - Plan-Do-Study-Act Cycle - Kaizen)



- Plan-Do-Check-Act
 - The powerful ingredient for success
- **Business Case**
 - Why • Why we are going to improve what
- **Requirements Engineering**
 - What we are going to improve and what not
 - How much we will improve: quantification
- **Architecture and Design**
 - HOW Selecting the optimum compromise for the conflicting requirements
- **Early Review & Inspection**
 - Measuring quality while doing, learning to prevent doing the wrong things
- Weekly TaskCycle
- Efficiency of what we do **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 What Will happen Feeding program/portfolio/resource management

Evolutionary Project Management (Evo)

What How much Are We done



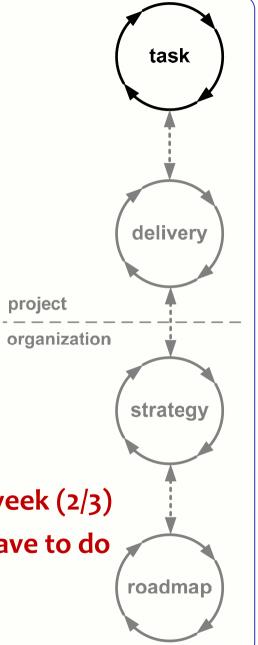
Check as early as possible

of what we do

and what will we do about it?

Weekly TaskCycle

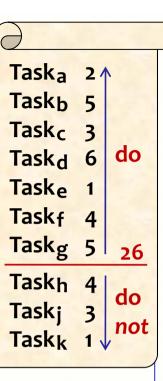
- Are we doing the right things, in the right order, to the right level of detail for now
- Optimizing estimation, planning and tracking abilities to better predict the future
- Select highest priority tasks, never do any lower priority tasks, never do undefined tasks
- There are only about 26 plannable hours in a week (2/3)
- In the remaining time: do whatever else you have to do
- Tasks are always done, 100% done

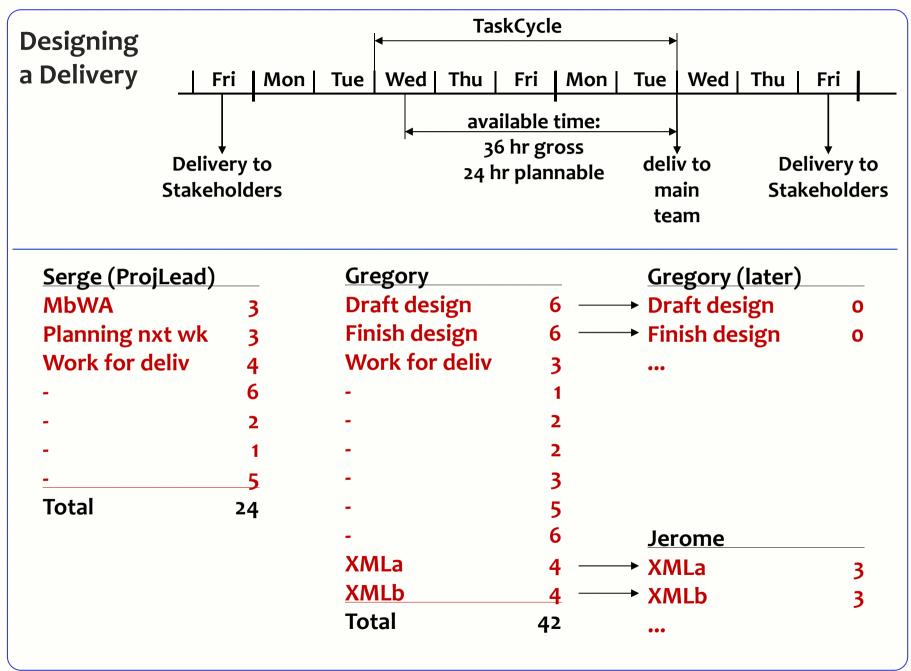


Weekly TaskCycle

- 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



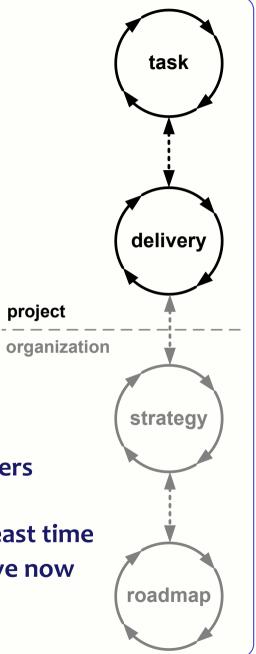


Why is this important?

- Half (±30%) of what people do in projects later proves not having been necessary
- During the TaskCycle planning we can very efficiently see
 - What our colleagues think they're going to do
 - Make sure they're going to work on the most important things
 - Not on unnecessary things
 - In line with the architecture and design
 - Leading most efficiently to the goal of the delivery

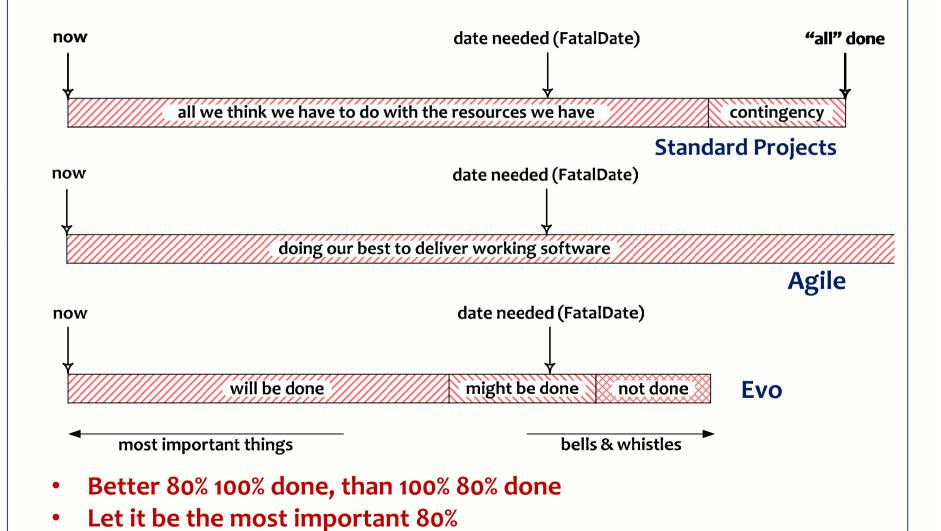
DeliveryCycle

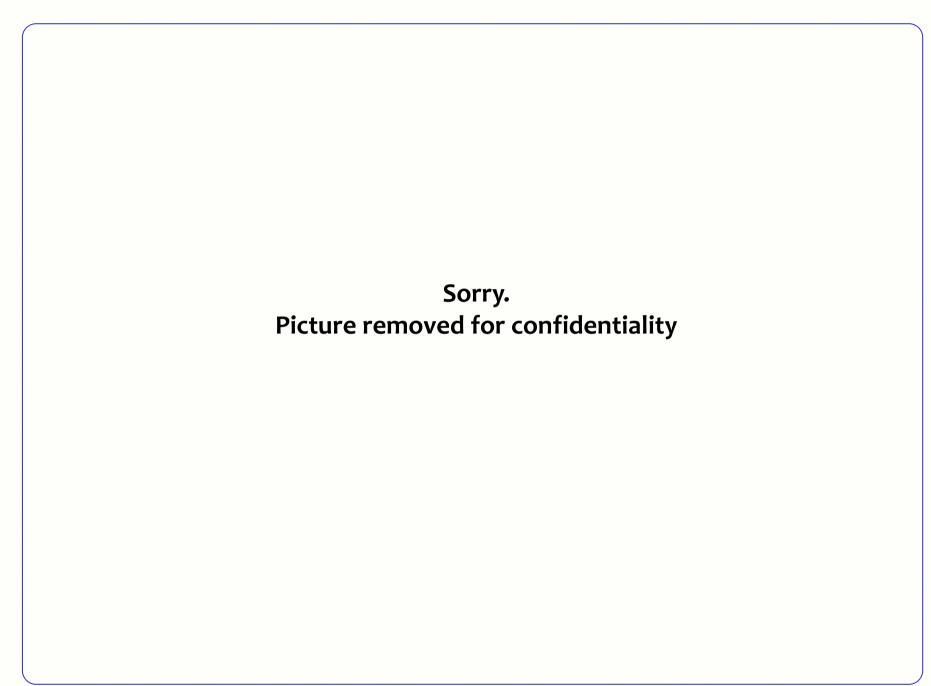
- Are we delivering the right things, in the right order to the right level of detail for now
- Optimizing requirements and checking assumptions
 - 1. What will generate the optimum feedback
 - 2. We deliver only to eagerly waiting stakeholders
 - 3. Delivering the juiciest, most important stakeholder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

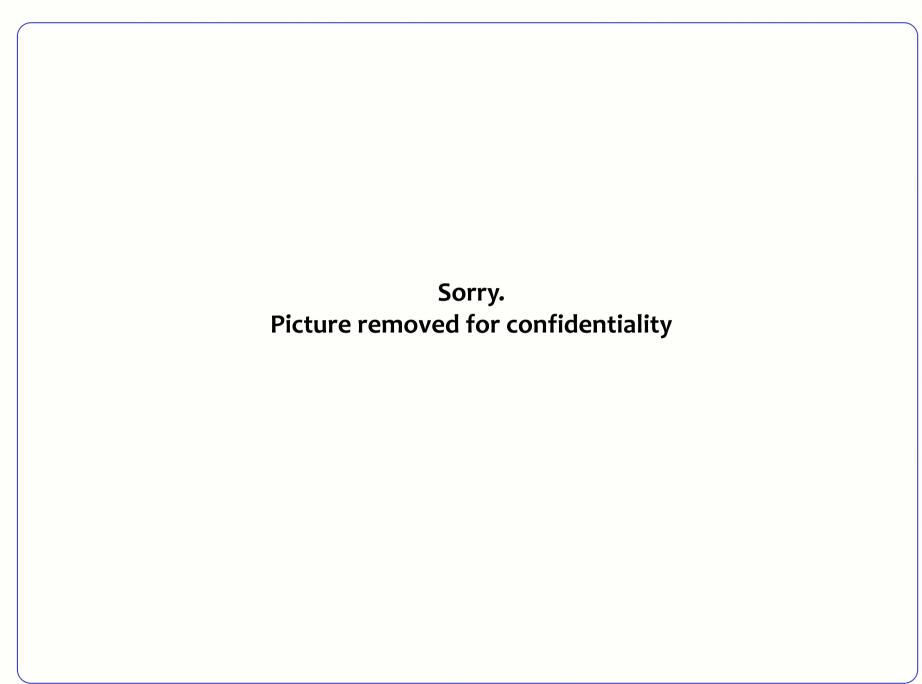


TimeLine

How de we know that the business gets what they need, when they need it?



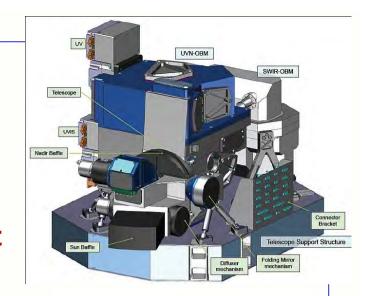




Immediate savings

Space Instrument development project

• Savings: some 40 man-year





Oscilloscope development

- Delivery 50% faster than average overrun over the last 5 years
- Fastest time-to-market, highest quality at intro in more than 10 years
- Team won a prestigious Team Award as part of the company's Technical Excellence recognition program

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More

- 1 Evolutionary Project Management Methods (2001)
 Issues to solve, and first experience with the Evo Planning approach
- 2 How Quality is Assured by Evolutionary Methods (2004) After a lot more experience: rather mature Evo Planning process
- Optimizing the Contribution of Testing to Project Success (2005)
 How Testing fits in
- 3a Optimizing Quality Assurance for Better Results (2005) Same as Booklet 3, but for non-software projects
- 4 Controlling Project Risk by Design (2006)
 How the Evo approach solves Risk by Design (by process)
- TimeLine: How to Get and Keep Control over Longer Periods of Time (2007)
 Replaced by Booklet 7, except for the step-by-step TimeLine procedure
- 6 Human Behavior in Projects (APCOSE 2008) Human Behavioral aspects of Projects
- 7 How to Achieve the Most Important Requirement (2008)
 Planning of longer periods of time, what to do if you don't have enough time
- 8 Help! We have a QA Problem! (2009)
 Use of TimeLine technique: How we solved a 6 month backlog in 9 weeks
- RS Measurable Value with Agile (Ryan Shriver 2009)
 Use of Evo Requirements and Prioritizing principles

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Inspection pages

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