How to deliver Quality On Time

The Right Result at the Right Time

www.malotaux.nl/conferences

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Niels Malotaux



- Project and Organizational Coach
- Expert in helping optimizing project 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
- Project Rescue





• 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



What is the Right Result ?



- Heathrow Terminal 5: "Great success !"
 - Normal people aren't interested in the technical details of a terminal
 - They only want to check-in their luggage as *easily* as possible and
 - Get their luggage back as quickly as possible in acceptable condition at their destination
 - They didn't
- One of the problems is to determine what the project (or our work in general) really is about
- What are the 'real' requirements ?
- The essence is not what but how well

Requirements with Planguage

ref Tom Gilb

Definition:

Meter:

Measurable

Attainable

- **RQ27:** Speed of Luggage Handling at Airport Specific Scale:
 - Time between <arrival of airplane> and first luggage on belt
 - <measure arrival of airplane>, <measure arrival of first luggage on belt>, calculate difference

Benchmarks (Playing Field):

- 2 min [minimum, 2014], 8 min [average, 2014], 83 min [max, 2014] Past:
- Current: < 4 min [competitor y, Jan 2015] \leftarrow <who said this?>, <Survey Dec 2014>
- Record: 57 sec [competitor x, Jan 2012]
- Wish: < 2 min $[2017Q3, new system available] \leftarrow CEO, 19 Jan 2015, < document ...>$

Time **Requirements:** Realizable **Tolerable:** < 10 min [99%, Q4] \leftarrow SLA **Tolerable:** < 15 min [100%, Q4, Heathrow T4] \leftarrow SLA < 15 min [99%, Q2], < 10 min [99%, Q3], < 5 min [99%, Q4] ← marketing Goal:



- Delivery Time is a Requirement, like all other Requirements
- How come most projects are late ???
- Apparently all other Requirements are more important than Delivery Time
- Are they really ?
- How about your current project ?

Did anyone tell you to go faster ?



- Produce more ! \rightarrow bad quality \rightarrow produce less
- Produce quality ! \rightarrow produce more

Quick delivery of a solution that doesn't work means no delivery

The problem is: it's counter-intuitive



Even more important: Starting Deadlines

• Starting deadline

- Last day we can start to deliver by the end deadline
- Every day we start later, we will end later







And saving 4 months brings €16M/3 = €5M extra

→ Invest that €200k NOW and don't waste time

Causes of Delay

• Some typical causes of delay are:

- Developing the wrong things
- Unclear requirements
- Misunderstandings
- No feedback from stakeholders
- No adequate planning
- No adequate communication
- Doing unnecessary things
- Doing things less cleverly
- Waiting (before and during the project)

- Changing requirements
- Doing things over
- Indecisiveness
- Suppliers
- Quality of suppliers results
- No Sense of Urgency
- Hobbying
- Political ploys
 - Boss is always right (culture)
- Excuses, excuses: it's always "them". How about "us"?
- What are causes of these causes ? (use 5 times 'Why ?')

Causes of causes

- Management
- No Sense of Urgency
- Uncertainty
- Perceived weakness
- Fear of Failure
- Ignorance
- Incompetence
- Politics

- Indifference
- Perception
- Lack of time
- Not a Zero Defects attitude
- No techniques offered
- No empowerment
- Lack of Discipline
- Intuition

Intuition often points us in the wrong direction

What options do we (seem to) have

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



The problems in projects are not the real problem, the real problem is that we don't do something about it

Do you use Project Evaluations ? Do you 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 - Niels) 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









DeliveryCycle

- Are we delivering the right things, in the right order to the right level of detail for now
- Optimizing requirements and checking assumptions
 - What will generate the optimum feedback 1.
 - 2. We deliver only to eagerly waiting stakeholders
 - Delivering the juiciest, most important 3. 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 !)







Sorry Picture removed for confidentiality

Sorry Picture removed for confidentiality

Earth Observation Instrument

- Expectation: 1 year late (Missing every deadline)
- Does it matter if the launch vehicle is also late ?
- Requirements were no problem at all
- With some coaching: delivered 1 day early
- Now they can claim the time until launch
- 40 man-year about €6M saved



Telescope

Nadir Baffle

UVN-OBM

SWIR-OBM

Bracket

Telescope Support Structure

Folding Mirro

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

Example

- Polish software project
 - Deadline in 6 weeks
 - 'Mission Impossible'
- After reorganizing
 - Delivered in 5 weeks to happy customer
 - No overtime !
- Magic question:
 - What do you have to deliver by the end of the week, and
 - What do you all have to do to achieve that ?
 - Many issues surface immediately !
 - To be solved before causing more problems

Tomorrow 14:45 – 17:00

• Workshop "How to deliver Quality On Time"

• We have time for some exercises, to get the feeling

• Prepare:

- The top-3 stakeholders of your project (Who is waiting for it?)
- The top-3 real requirements for your project (What are they waiting for?)
- How much value improvement do the stakeholders expect (3 or 7?)
- Any deadlines (No deadlines: it will take longer)
- What you should and can have achieved in the coming 10 weeks (Will you succeed? Failure is not an option!)
- What you think you should and can do the coming week in order to achieve what you're supposed to achieve (Make sure not to plan what you shouldn't or cannot do - At the end of the week everything you planned will be done)
- Any issues you expect with the above or otherwise with your work

www.malotaux.nl/booklets

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
- 3 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)
- 5 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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