

EuSEC 2010 - Stockholm 23 May 2010

Tutorial

Niels Malotaux

Predictable Projects Delivering the Right Result at the Right Time

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Niels Malotaux

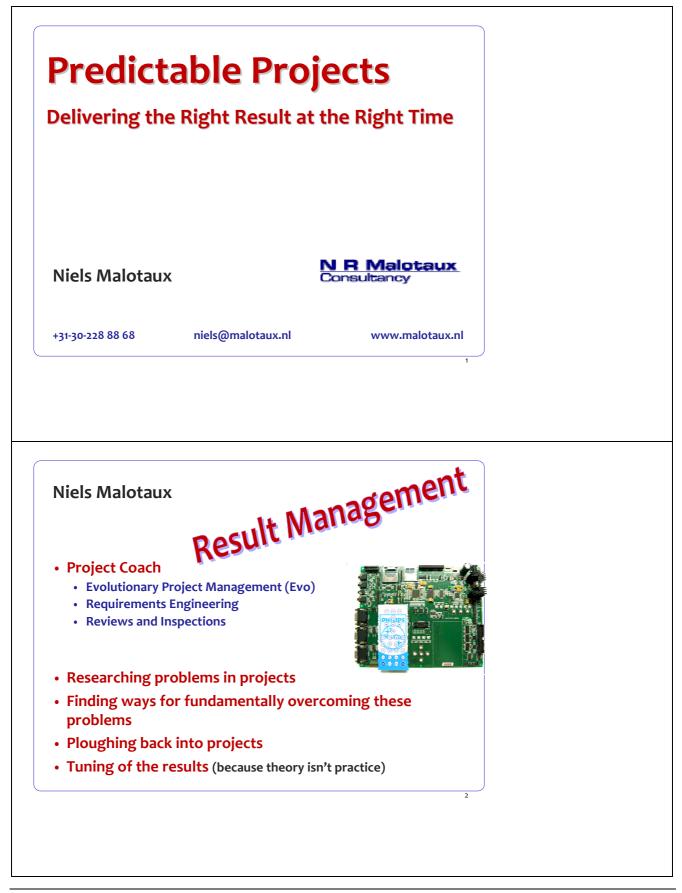
Niels Malotaux is an independent Project Coach specializing in optimizing project performance. He has over 35 years experience in designing electronic hardware and software systems, at Delft University, in the Dutch Army, at Philips Electronics and 20 years leading his own systems design company. Since 1998 he devotes his expertise to helping projects to deliver Quality On Time: delivering what the customer needs, when he needs it, to enable customer success. To this effect, Niels developed an approach for effectively teaching Evolutionary Project Management (Evo) Methods, Requirements Engineering, and Review and Inspection techniques. Since 2001, he taught and coached well over 100 projects in 25+ organizations in the Netherlands, Belgium, China, Germany, India, Ireland, Israel, Japan, Romania, South Africa and the US, which led to a wealth of experience in which approaches work better and which work less in practice.

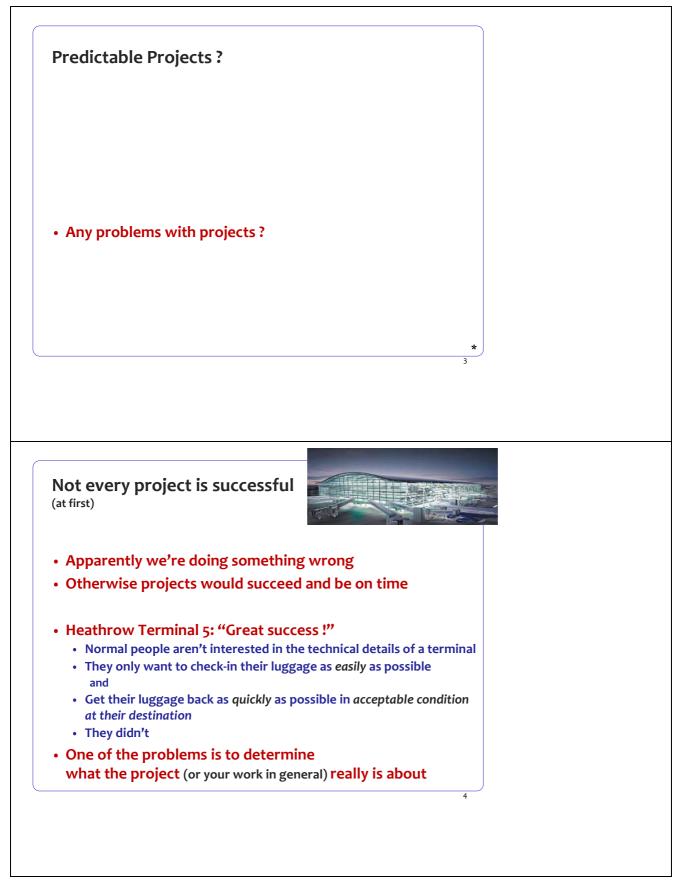
Niels puts development teams on the Quality On Time track and coaches them to stay there and deliver their quality software or systems on time, without overtime, without the need for excuses. Practical methods are developed, used, taught and continually optimized for:

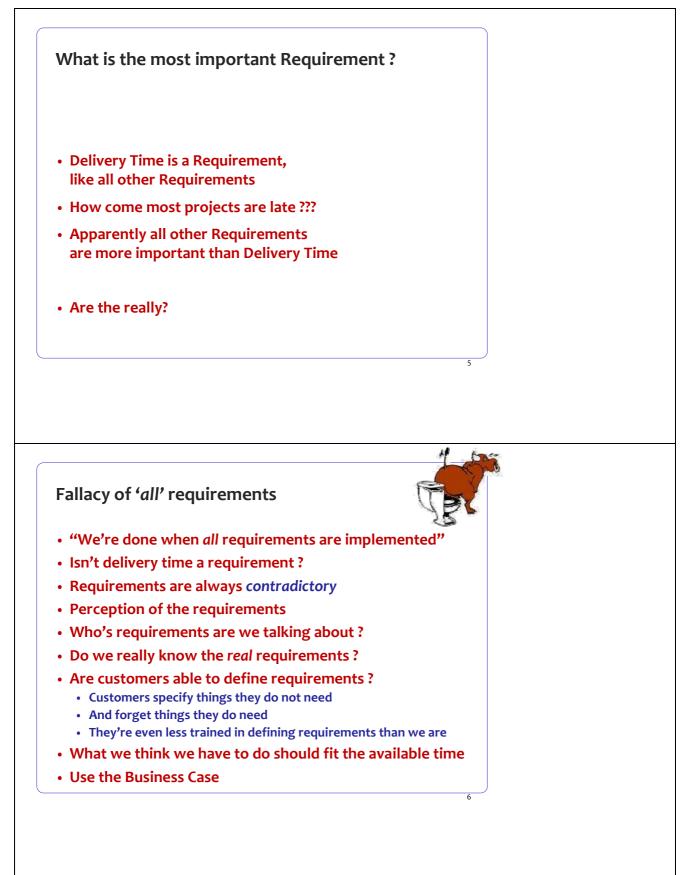
- Evolutionary Project Management (Evo)
- Requirements Engineering and Management
- Reviews and Inspections.

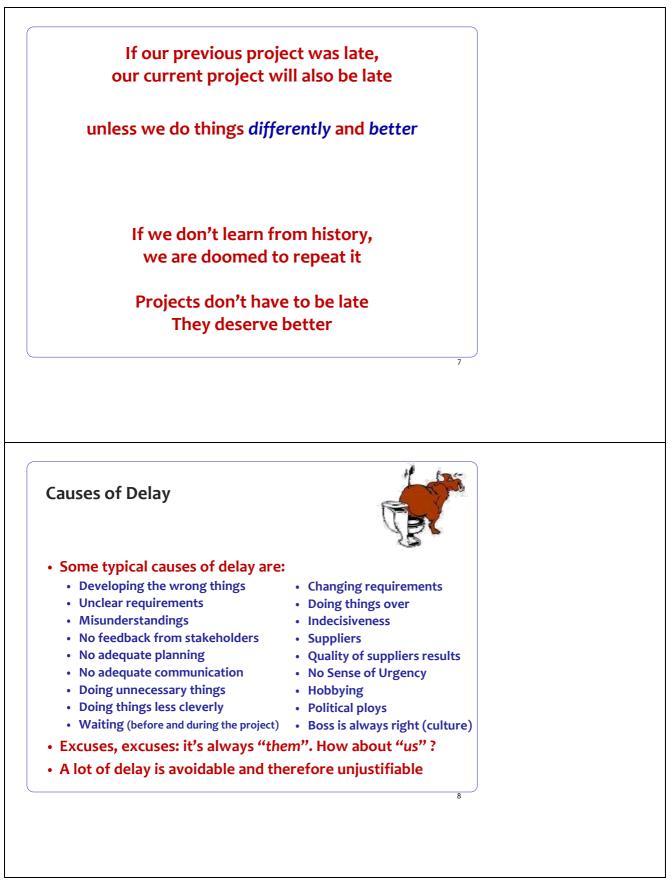
Within a few weeks of turning a development project into an Evo project, the team has control and can tell the customer when the required features will all be done, or which features will be done at a certain date. Niels enjoys greatly the moments of enlightenment experienced by his clients when they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

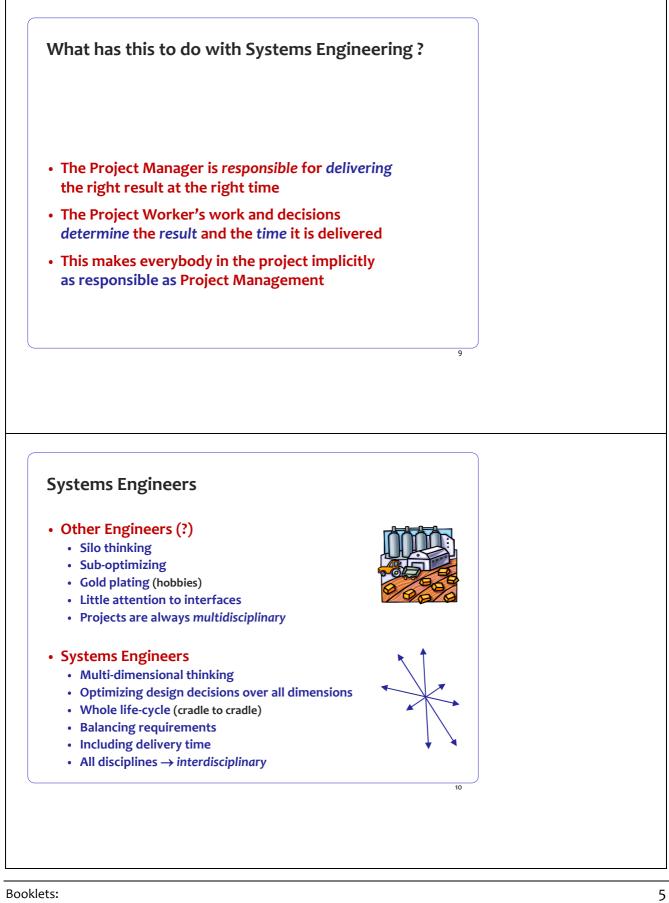






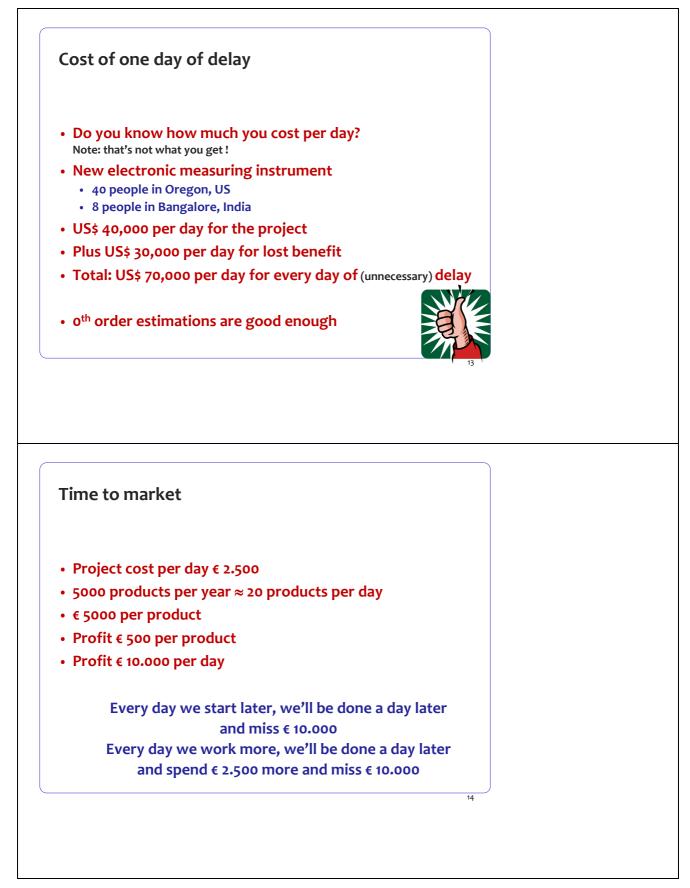


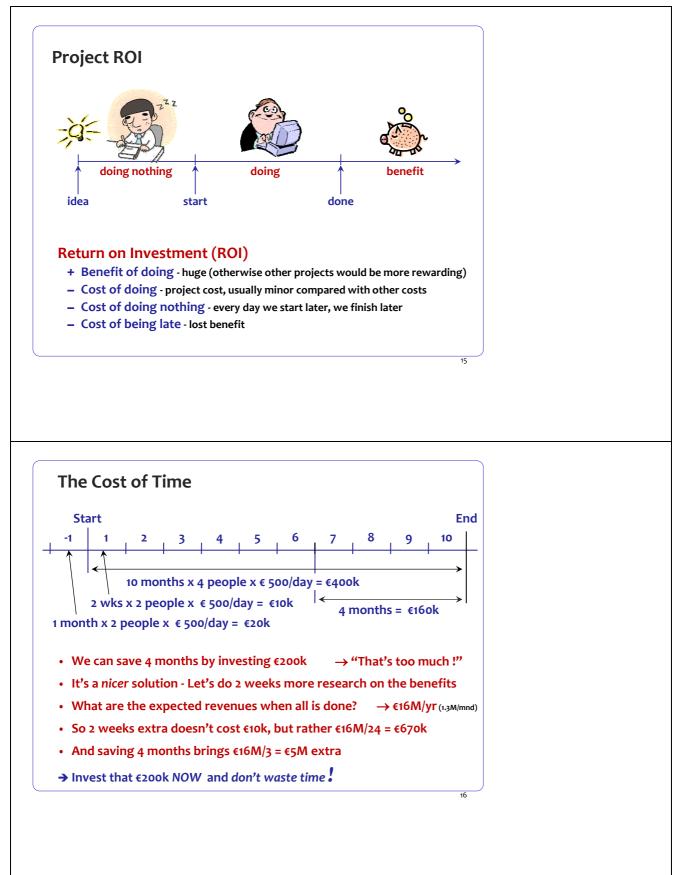


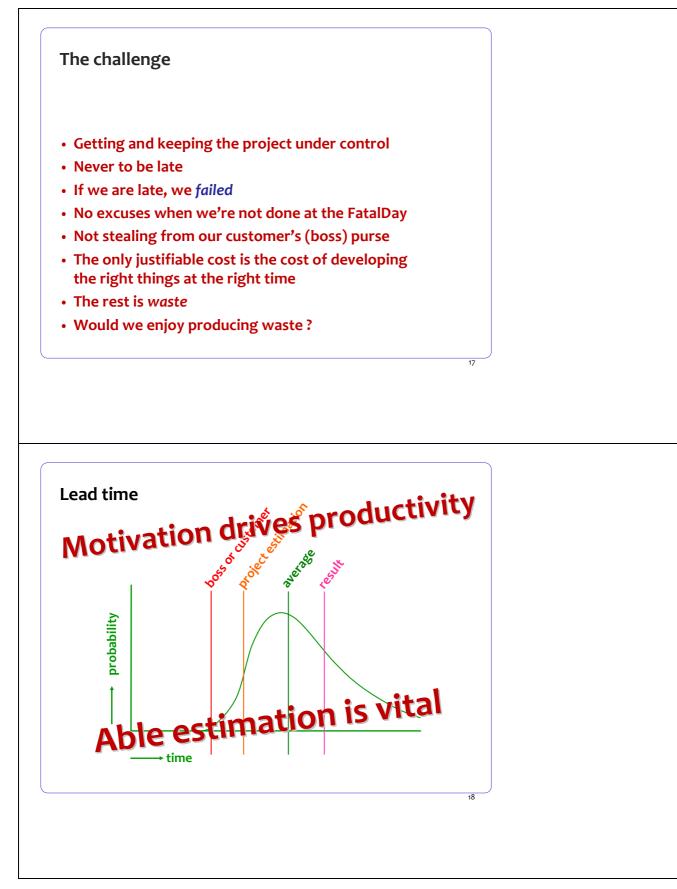


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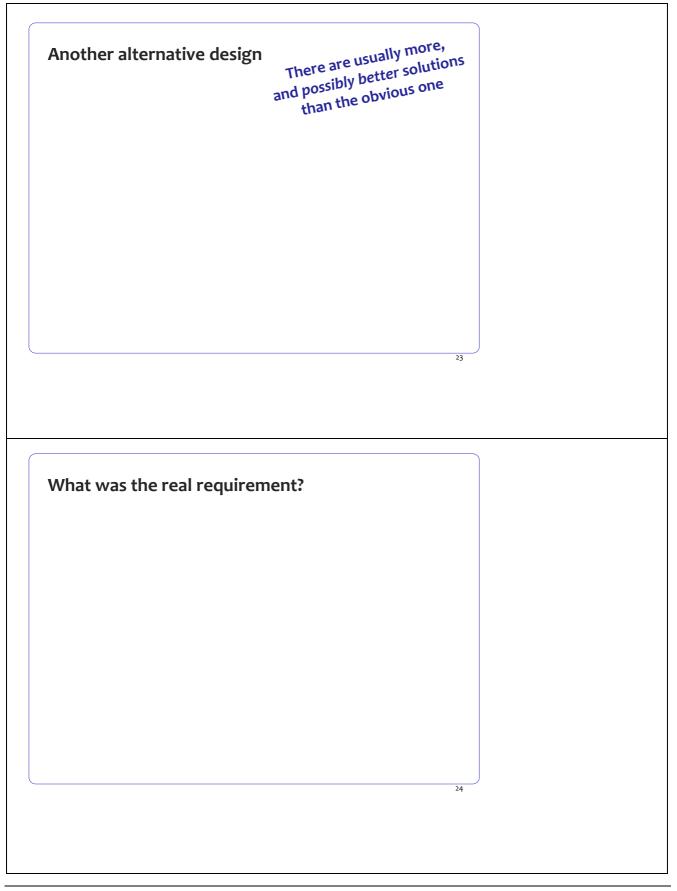






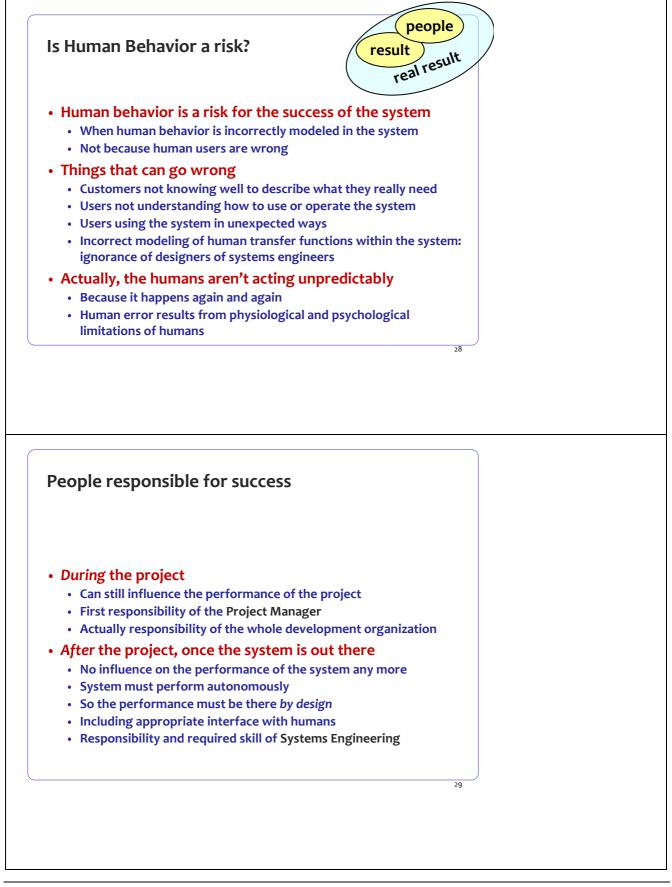
Estimation Exercise	23- 3- 4.
Are you an optimistic or a realistic estimator?	
Let's find out !	
Project: Multiplying two numbers of 4 figures	
How many seconds would you need to complete this Project	:t?
	19
Is this what you did?	20

Defect rate	
Before test ?	
After test ?	
Alter test.	
	21
Alternative Design (how to solve the requirement)	
	22
	22



 Estimation, optimistic / realistic Interrupts Test, test strategy 	Elements in the exercise • Estimation, optimistic / realistic		
 Interrupts Test, test strategy Defect-rate Design Requirements Assumptions 			
 Interrupts Test, test strategy Defect-rate Design Requirements Assumptions 			
 Test, test strategy Defect-rate Design Requirements Assumptions 	Interrupts		
 Defect-rate Design Requirements Assumptions 			
 Requirements Assumptions 	Defect-rate		
Assumptions			
25	Assumptions		
		25	

Iman Behavior ystems are conceived, designed, implemented, maintained, used, and olerated (or not) by people leople react quite predictably lowever, often differently from what we intuitively think Most project process approaches (PMI, INCOSE, as well as developers) gnore human behavior, torrectly assume behavior,	Human Beha	avior
Iman Behavior ystems are conceived, designed, implemented, maintained, used, and olerated (or not) by people People react quite predictably lowever, often differently from what we intuitively think Most project process approaches (PMI, INCOSE, as well as developers) gnore human behavior, ncorrectly assume behavior,		
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Aost project process approaches (PMI, INCOSE, as well as developers) gnore human behavior, ncorrectly assume behavior,	People react quite predictably	
gnore human behavior, ncorrectly assume behavior,	However, often differently from what w	ve intuitively think
	 Most project process approaches (PMI, ignore human behavior, incorrectly assume behavior, 	INCOSE, as well as developers)
r decide now people should behave (na na)	 or decide how people should behave (hat 	ı ha)
o succeed in projects, we must study and adapt to real behavior ather than assumed behavior	 To succeed in projects, we must study as 	nd adapt to real behavior
ven if we don't agree with that behavior	rather than assumed behavior	
27		r

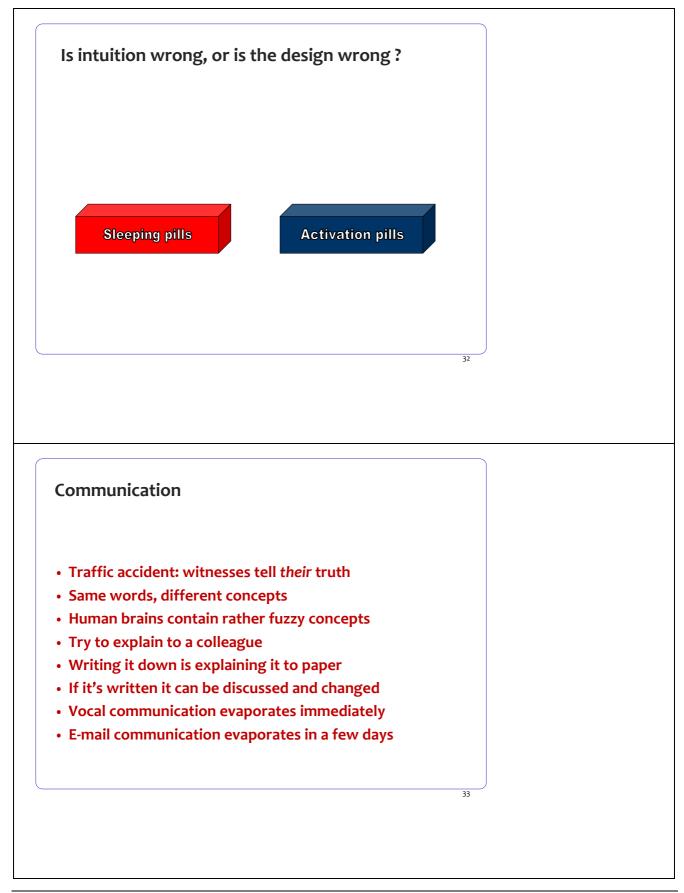


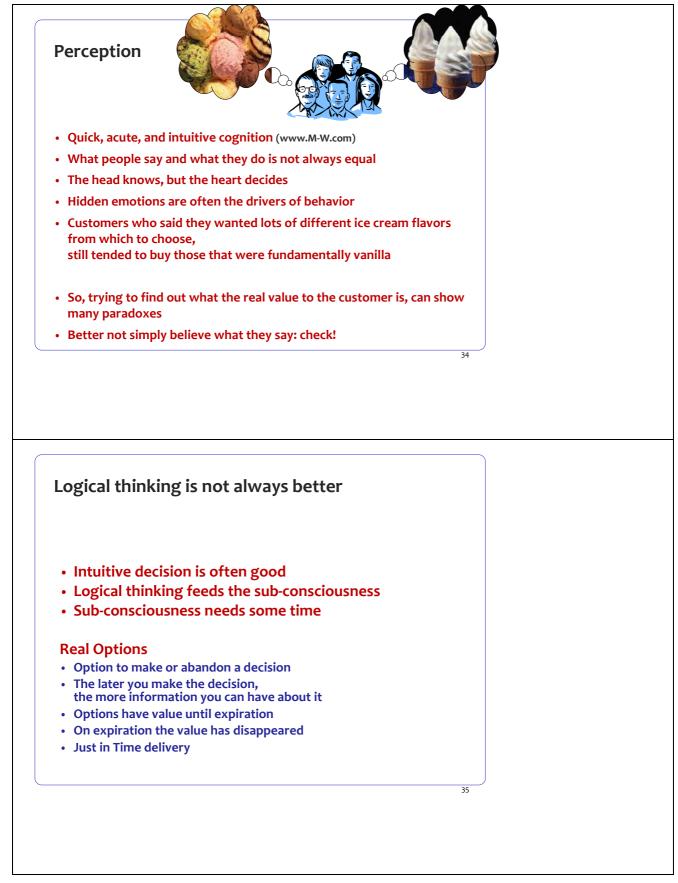
Discipline

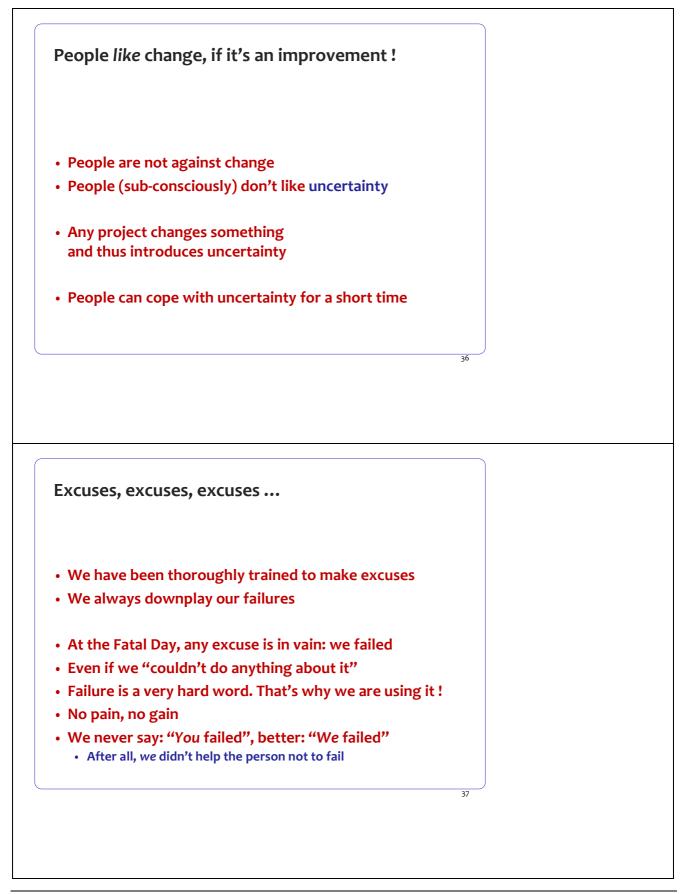
- Control of wrong inclinations
- Even if we know how it should be done ... (if nobody is watching ...)
- Discipline is very difficult
- Romans 7:19
 - The good that I want to do, I do not ...
- \rightarrow Helping each other (watching over the shoulder)
- \rightarrow Rapid success (do it 3 weeks for me...)
- → Making mistakes (provides short window of opportunity)
- \rightarrow **Openness** (management must learn how to cope)

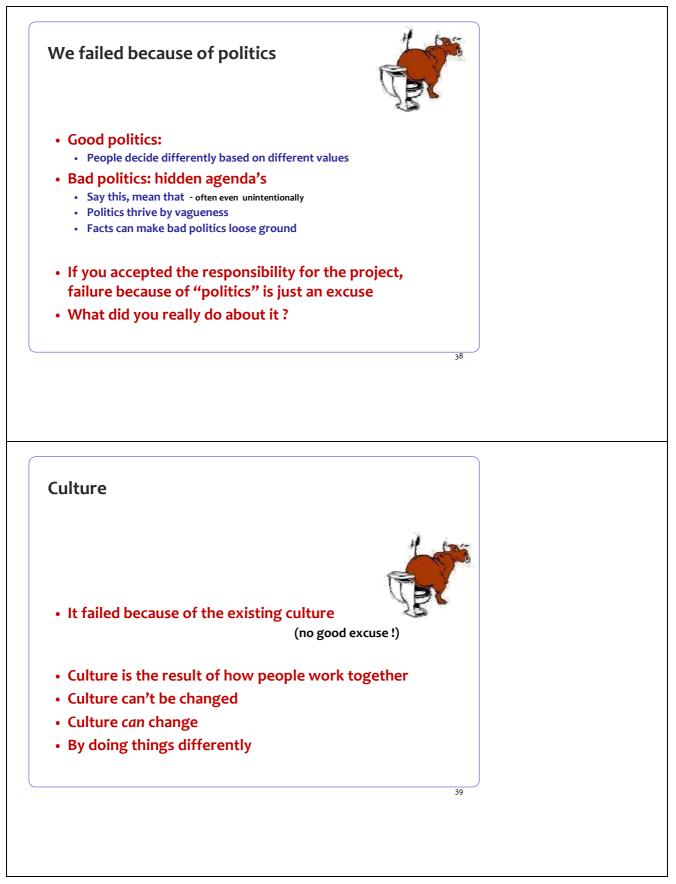
Intuition

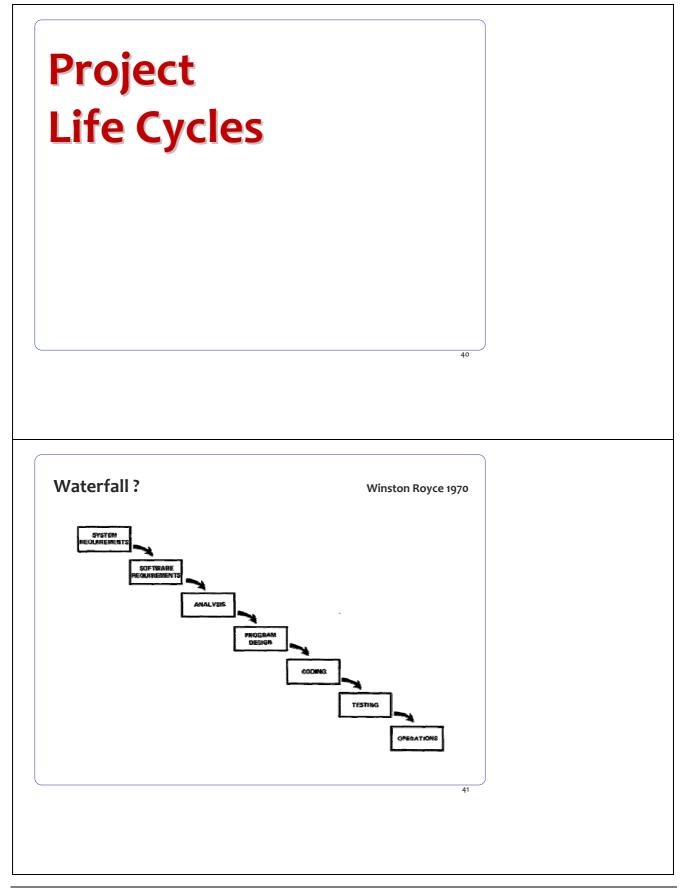
- Makes you react on every situation
- Intuition is fed by experience
- It is free, we always carry it with us
- We cannot even turn it off
- Sometimes intuition shows us the wrong direction
- In many cases the head knows, the heart not
- Coaching is about redirecting intuition

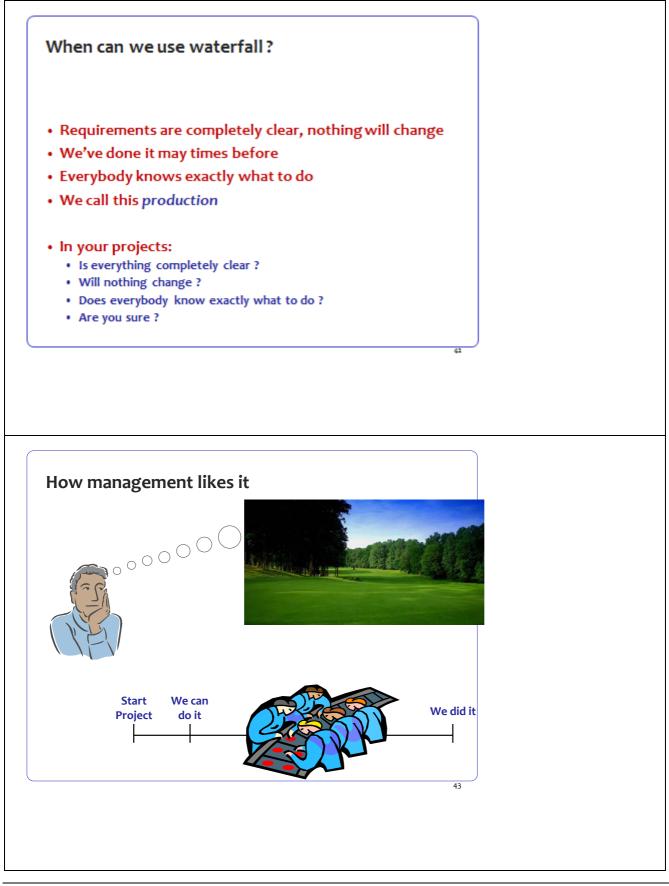




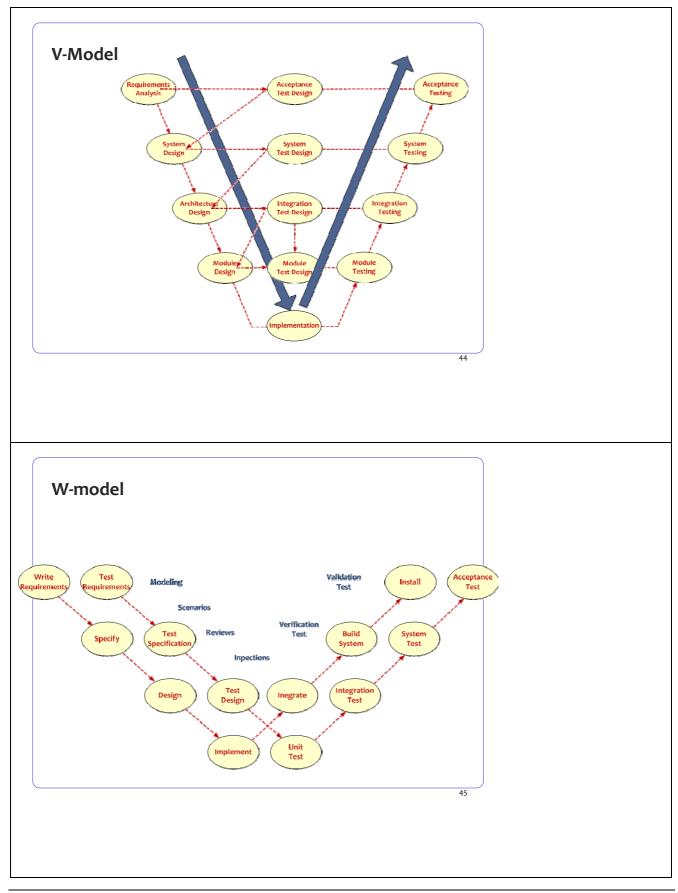








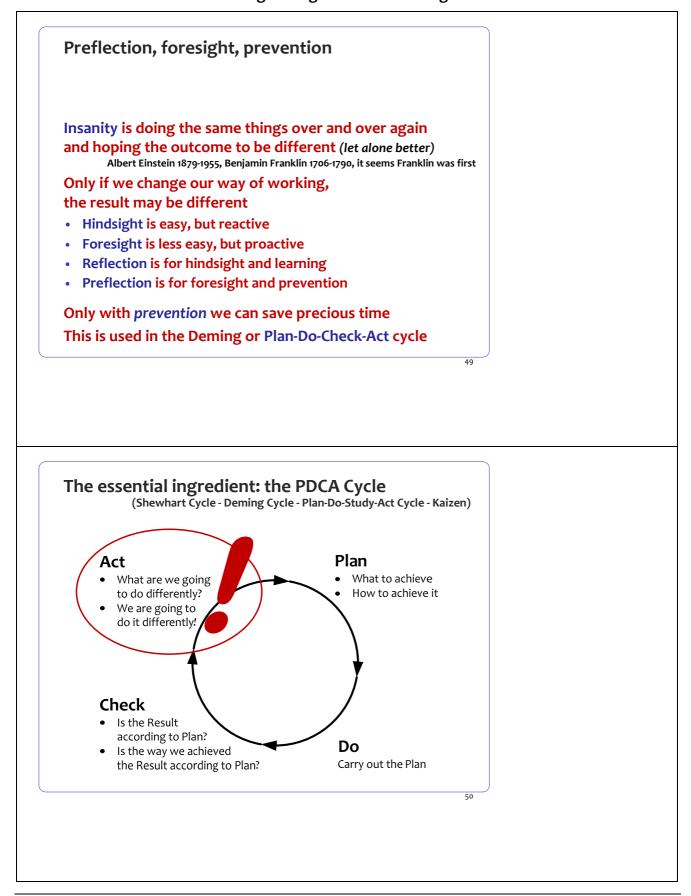
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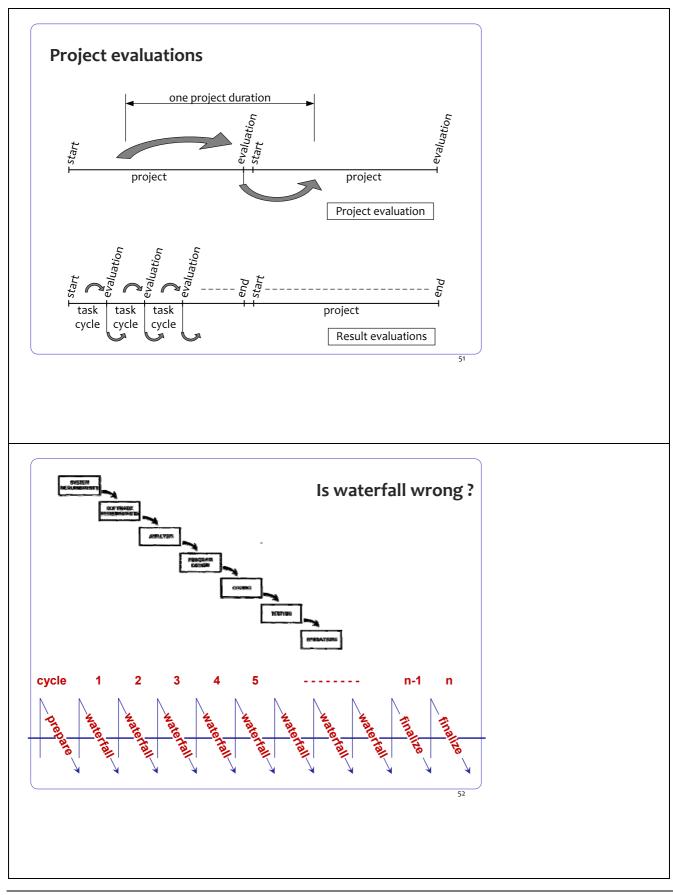


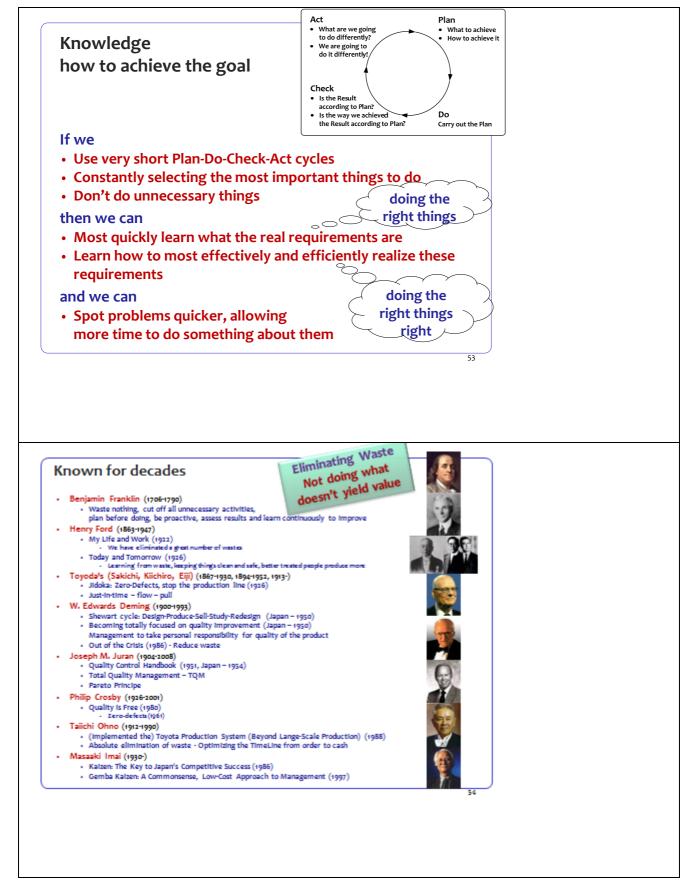
	All Models are wrong	
	Some are useful	
	46	
-		

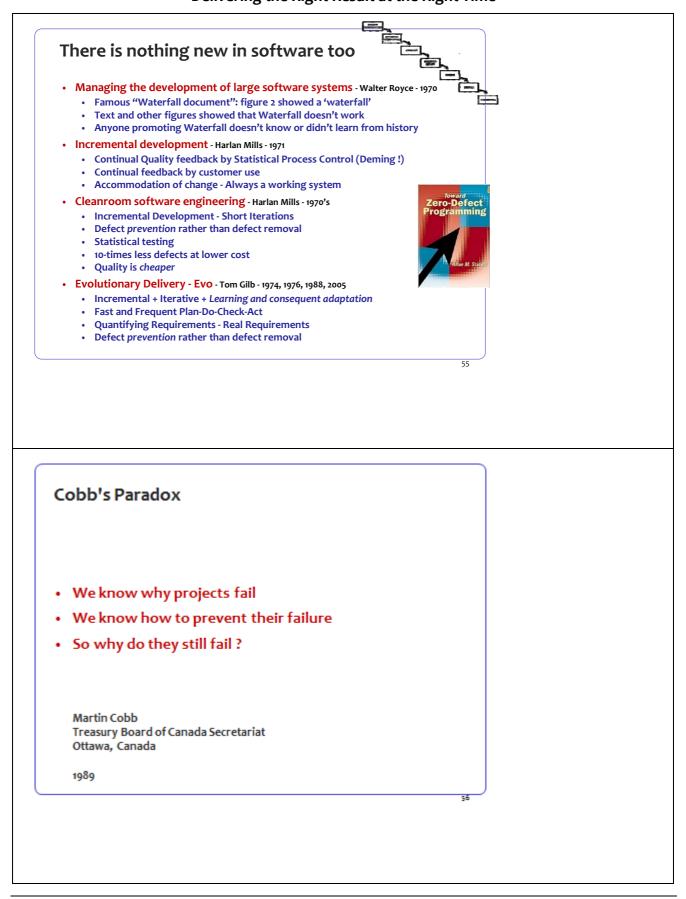
Evolutionary Principles	
47	
Murphy's Law	
Whatever can go wrong, will go wrong	
Should we accept fate ??	
Murphy's Law for Professionals:	
Whatever can go wrong, will go wrong	
Therefore:	
We should actively check all possibilities that can go wrong	
and make sure that they cannot happen	

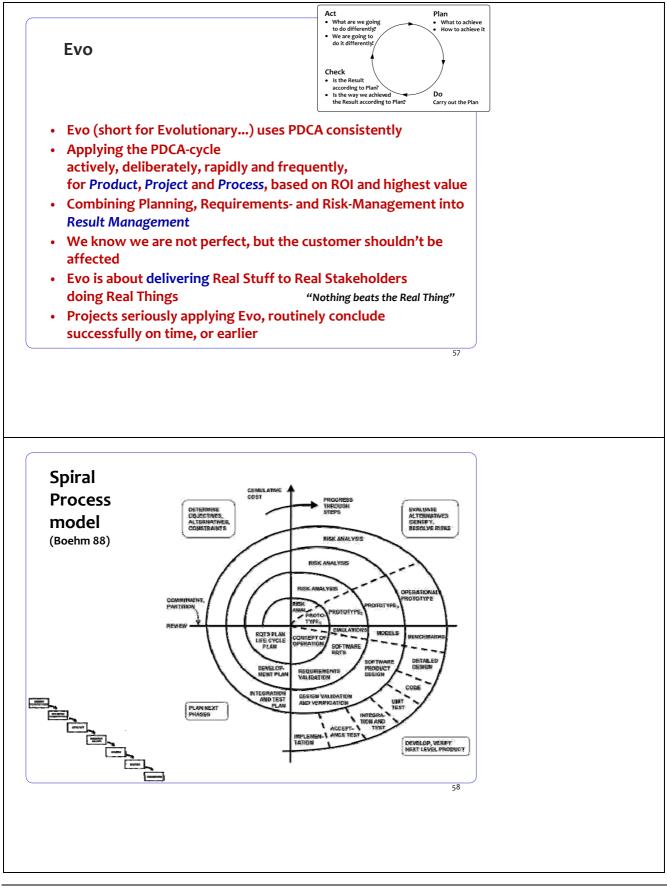
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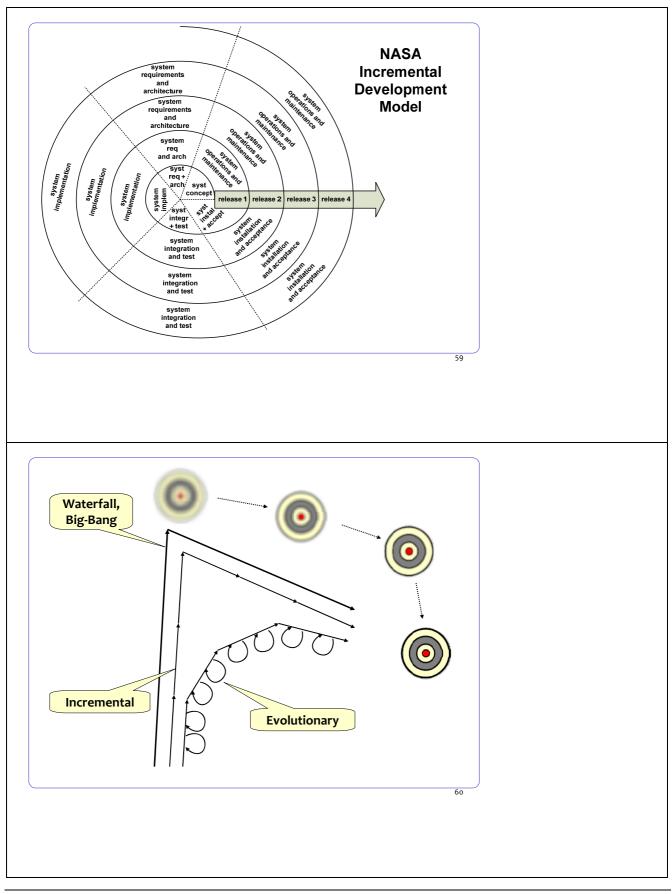


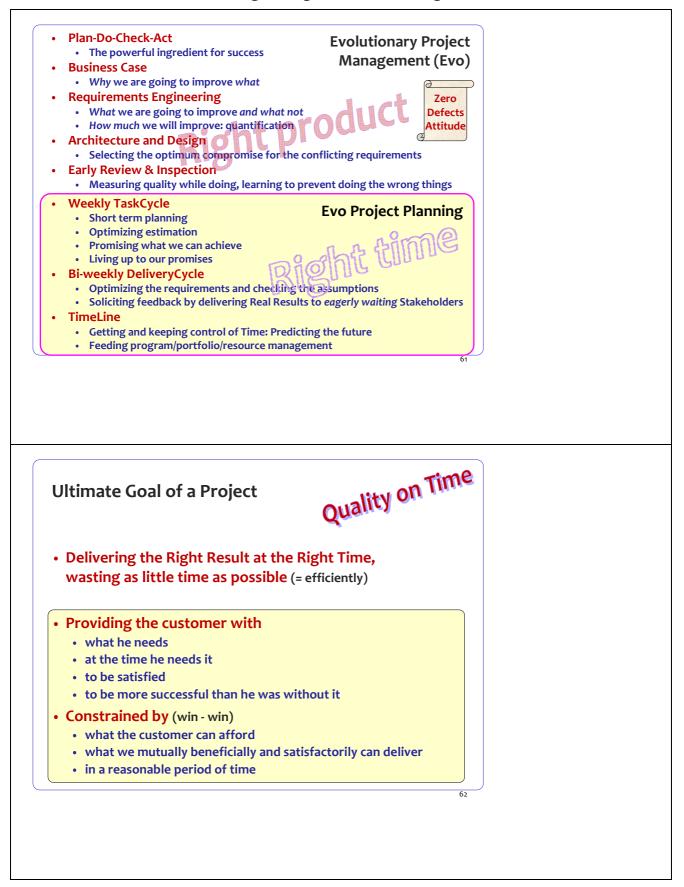


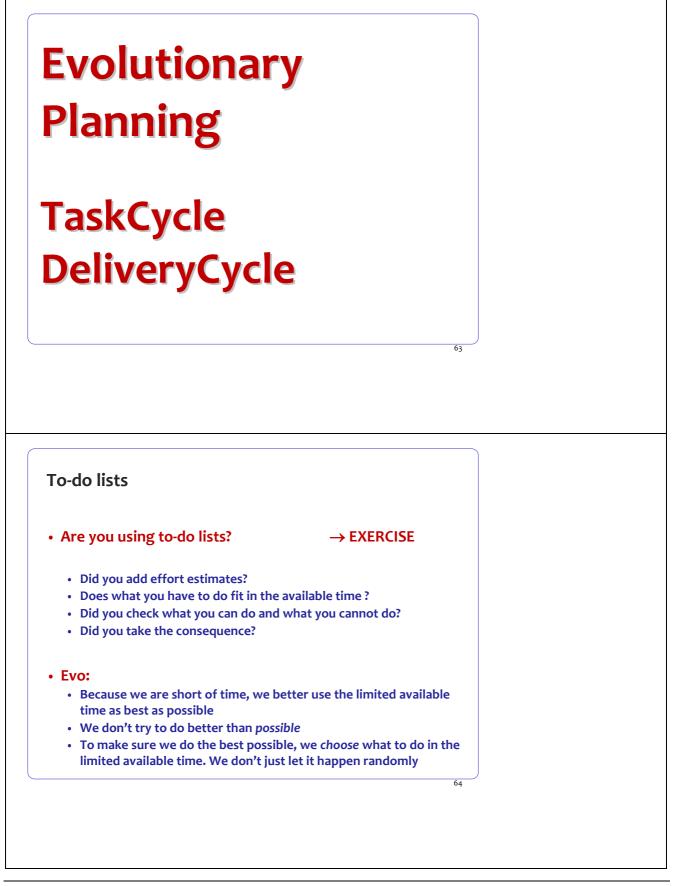


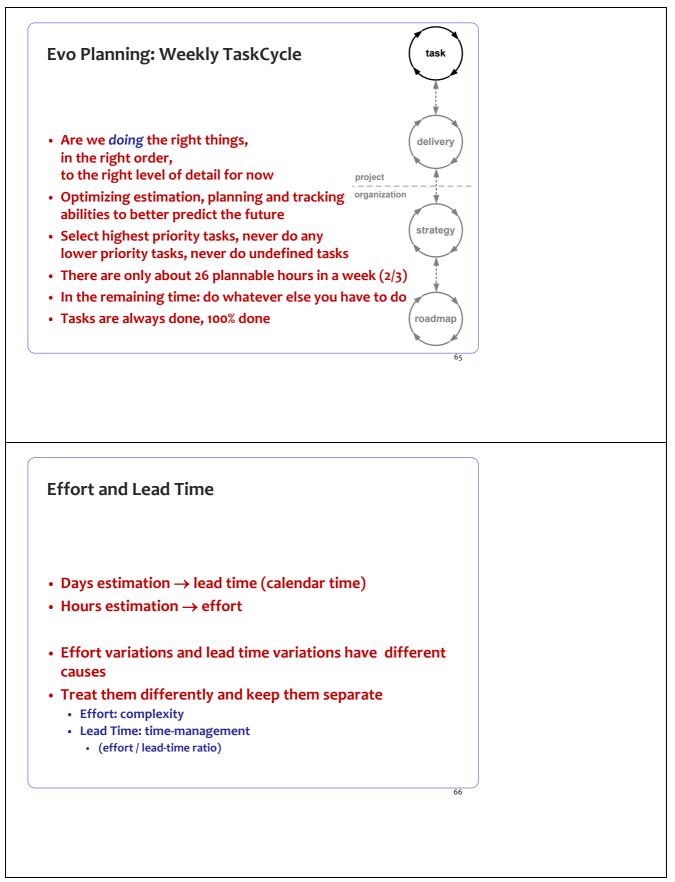


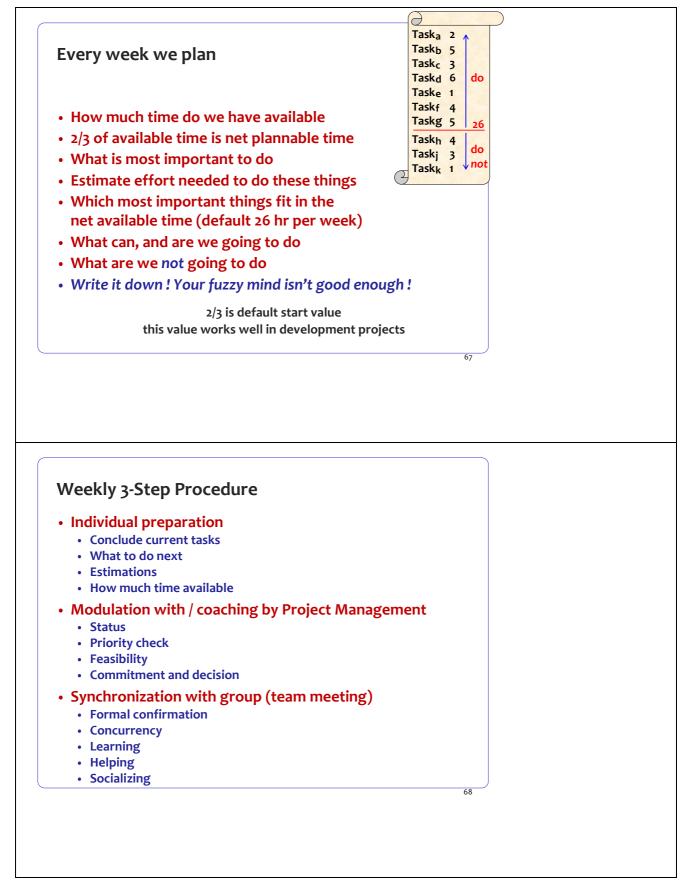




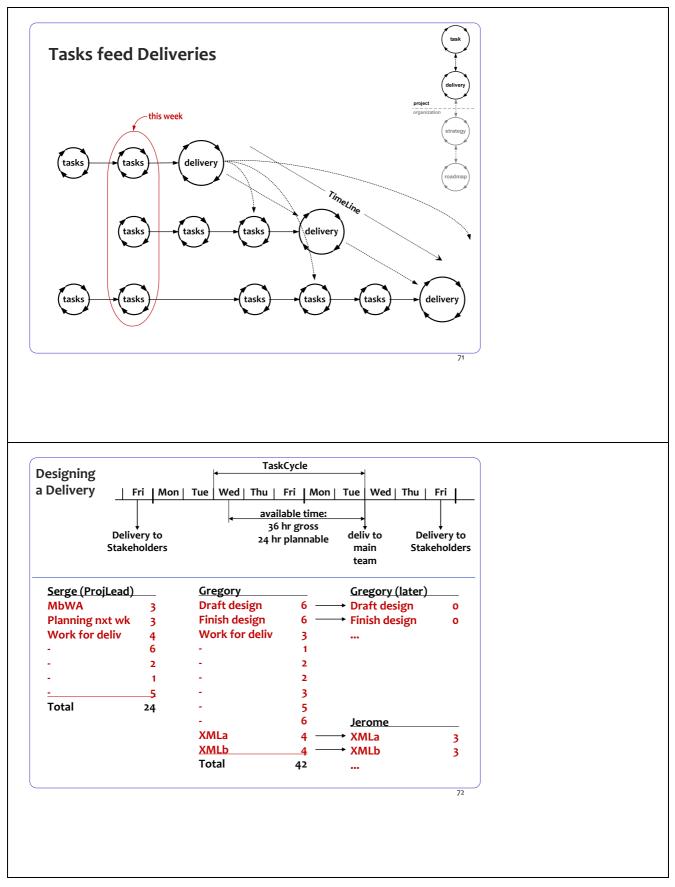


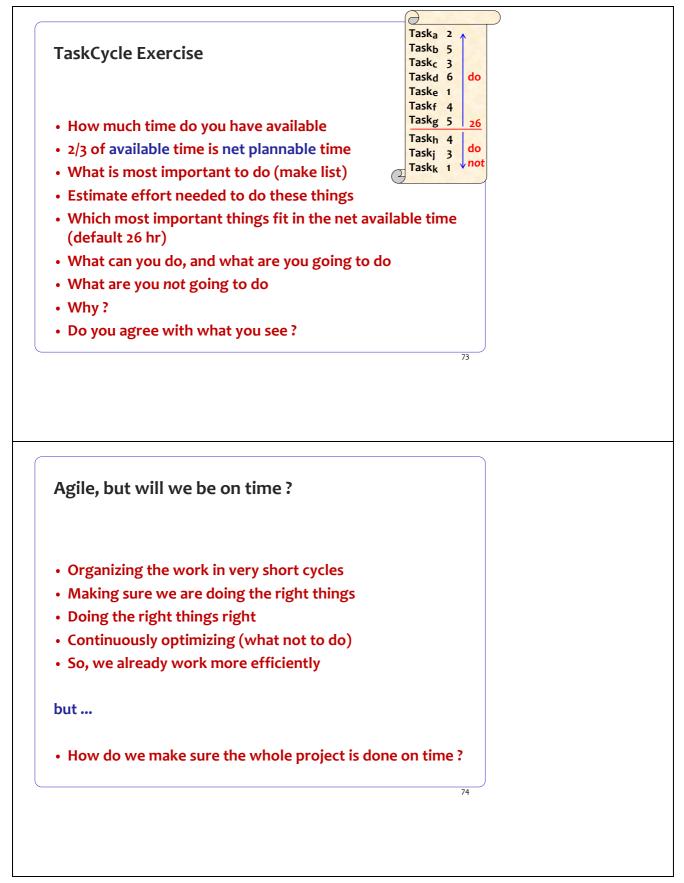


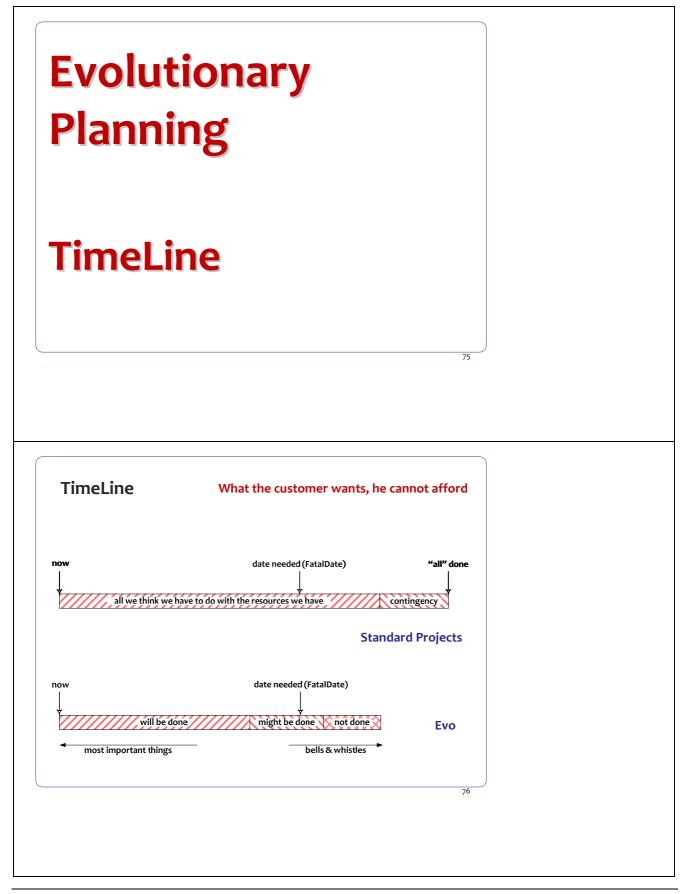


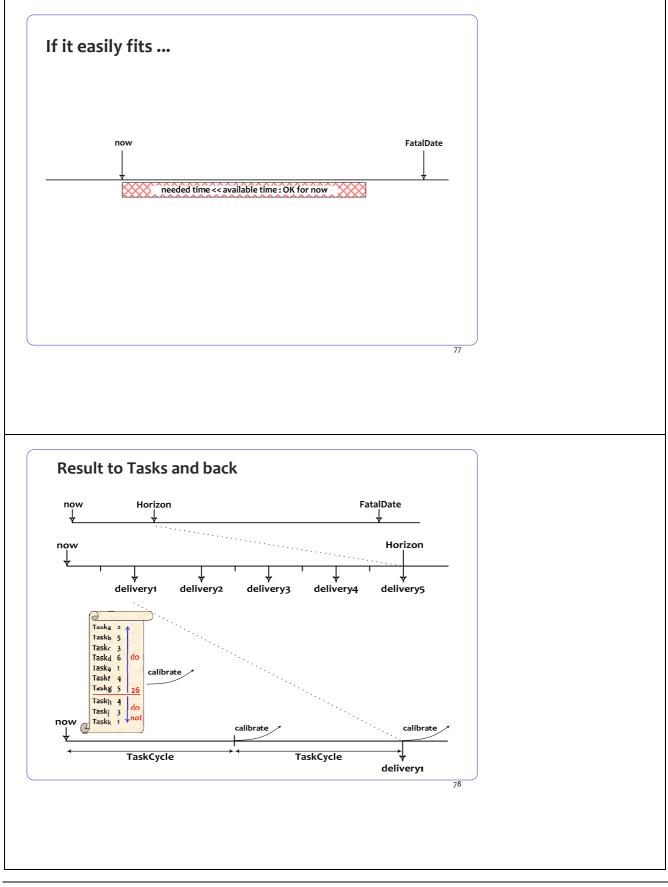


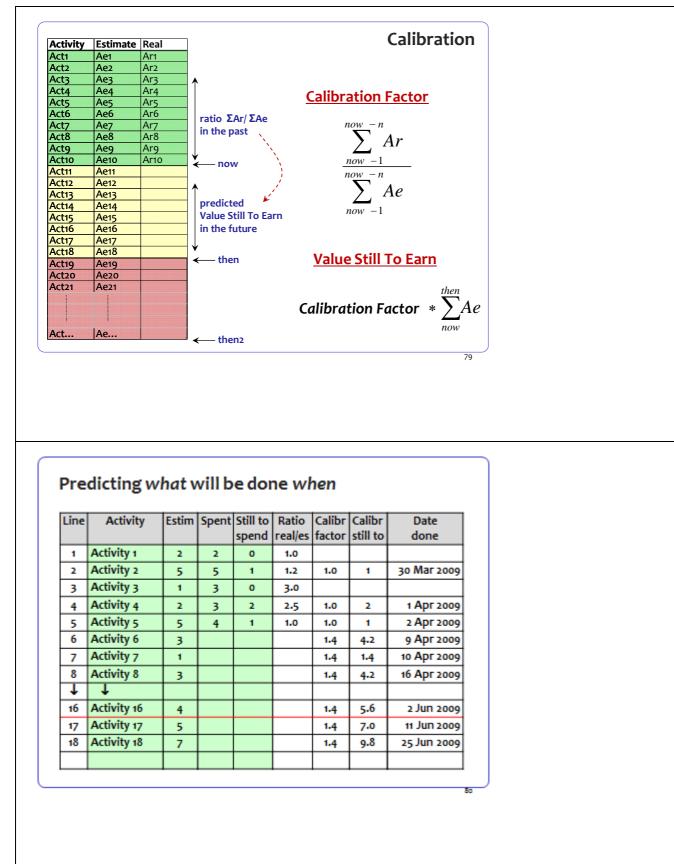
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Eile Edit Insert Record				/ [- 8 ×	
oday 6 mei 2004 wk 19 Project	TaskSheet Results	Checks Project and Delive	ery Tasks Cycle	and Delivery	Timing Printing Edit/New Cycle Task cycle due date	Î	
ino-QUA v elivery	Hoe gaan we expor	teren doen			Other work	-	
Other work		The TaskShee	t is used to focu	s on what the	Delivery Nr Delivery Name Delivery Due <u>A</u> Delivery 4 21 mei 2004 wk 21 task really is about.		
askCycle uture	Task Description				Validation (how to check that the requirements are met)		
TaskType Code v Priority							
	Functional Require	ments (what the r	esult of this task	should be)	Implementation Ideas (solution direction ideas)		
hr (=Timebox!)							
Plan Reviewer	Performance Requ	irements (how well the	e result should d	o the what)	Planning (to make sure task is done on time)		
done (Checks)							
Hours of 0 total 0 OK	Constraints			(what not)	Unclears (anything that is still unclear)		
Fut 0 not OK							
	elivery Cycle		i 🔿 Who	hrs Don	TaskName]	
59 Dino-QUA Delive 58 Dino-QUA Delive	ry 4 Fut	0	•		Hoe gaan we exporteren doen Hoe gaan we importeren doen?		
212 Dino-QUA Delive 220 Dino-QUA Delive 211 Dino-QUA Delive	ry 7 13 ry 6 13	11 jun 2003 wk 24 5 11 jun 2003 wk 24 5	Niko Ronald	18 6 4	Documentatie SPS, SCM-BDB Samples importeren		
211 Dino-QUA Delive 214 Dino-QUA Delive 215 Dino-QUA Delive	ry 6 13	11 jun 2003 wk 24 5 11 jun 2003 wk 24 4 11 jun 2003 wk 24 5	Niko Arian Arian	4 10 2	Conversie aanpassen n.a.v. Hans van der Meij Export blokken maken Checkbox toevoegen voor export-blokken		
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218 Dino-QUA Delive 219 Dino-QUA Delive	ry 6 13	11 jun 2003 wk 24 5 11 jun 2003 wk 24 5	Arian Ronald	6	Uitzoeken rechts uitvullen van kolommen bij sample, subsample Maken Process dialog	-	
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		ering the r	ight t	hing	S,		
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-	-	assumpti			organization		
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			-	_	stakeholders		
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Not m	ore tha	n 2 weeks	;		(roadmap)		
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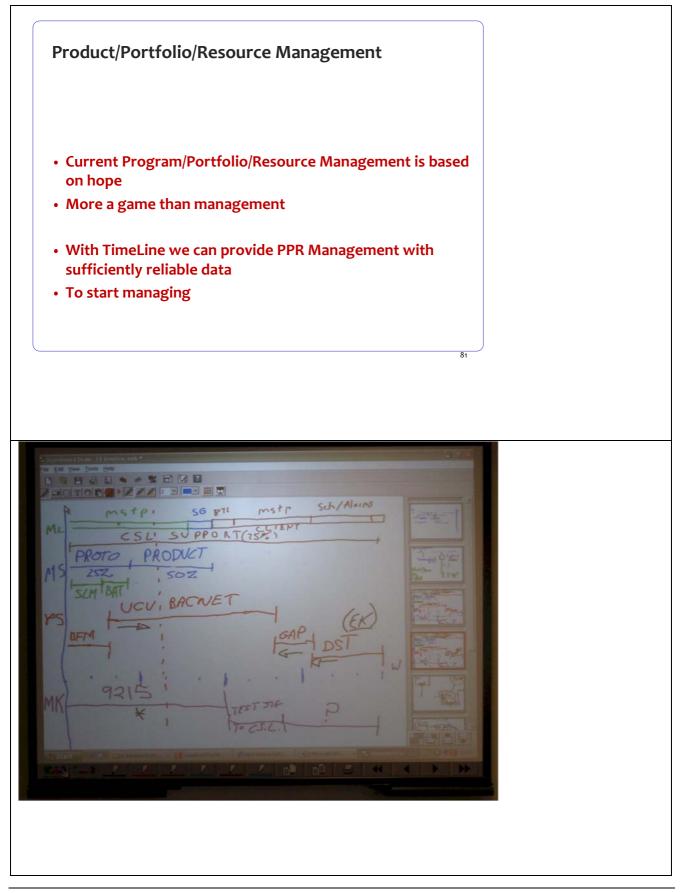


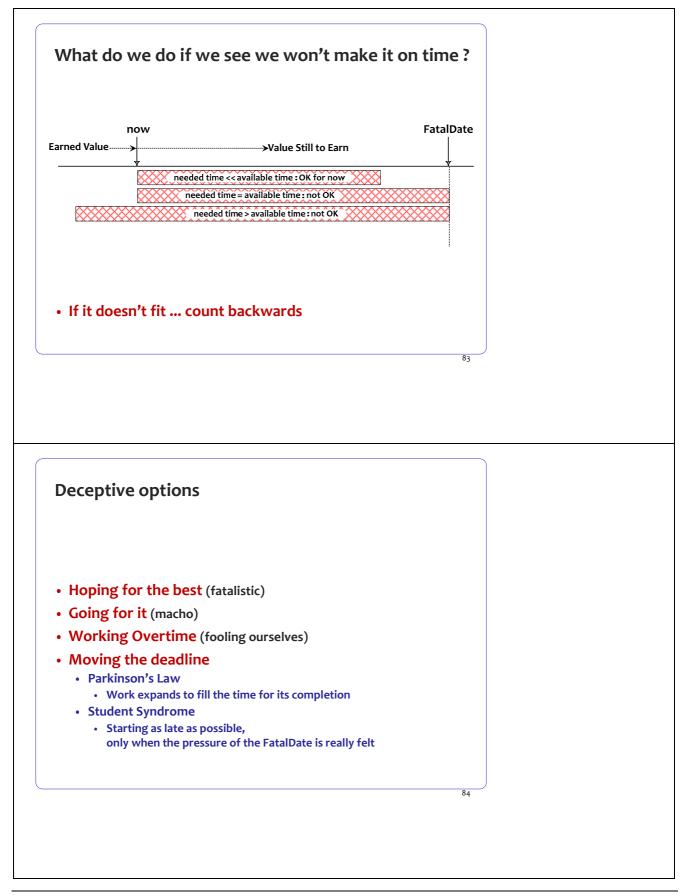


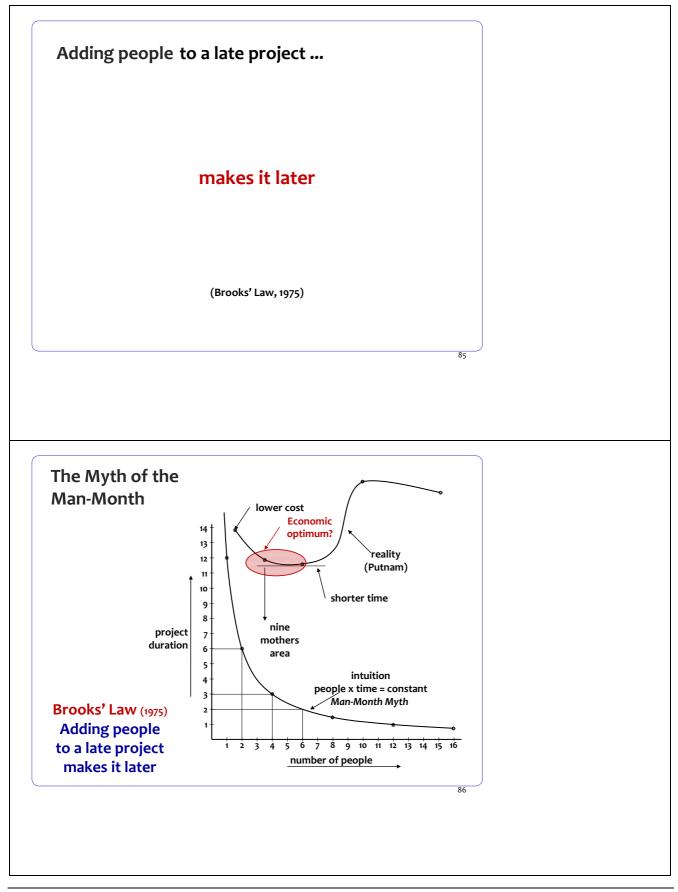


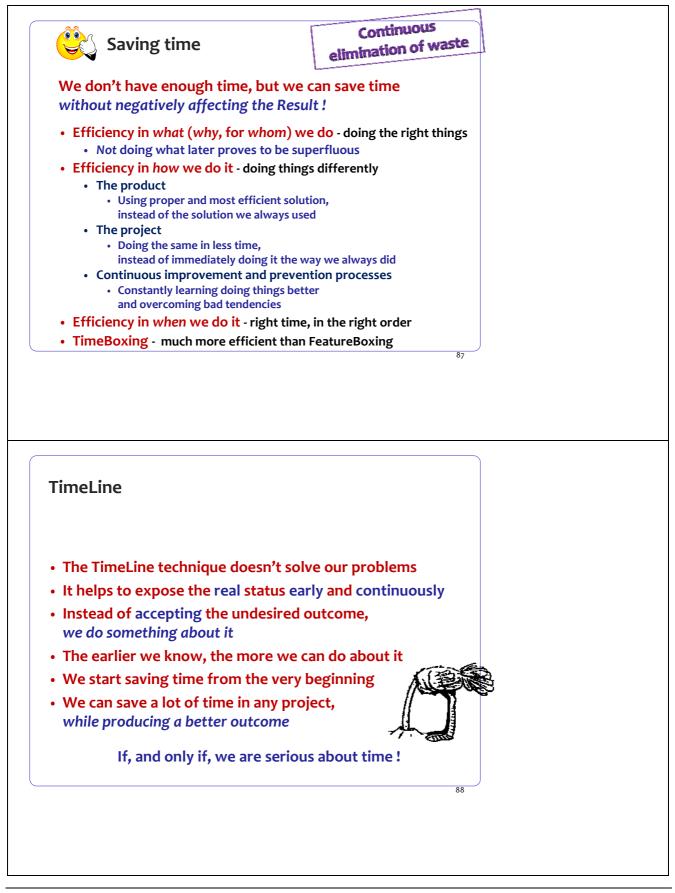




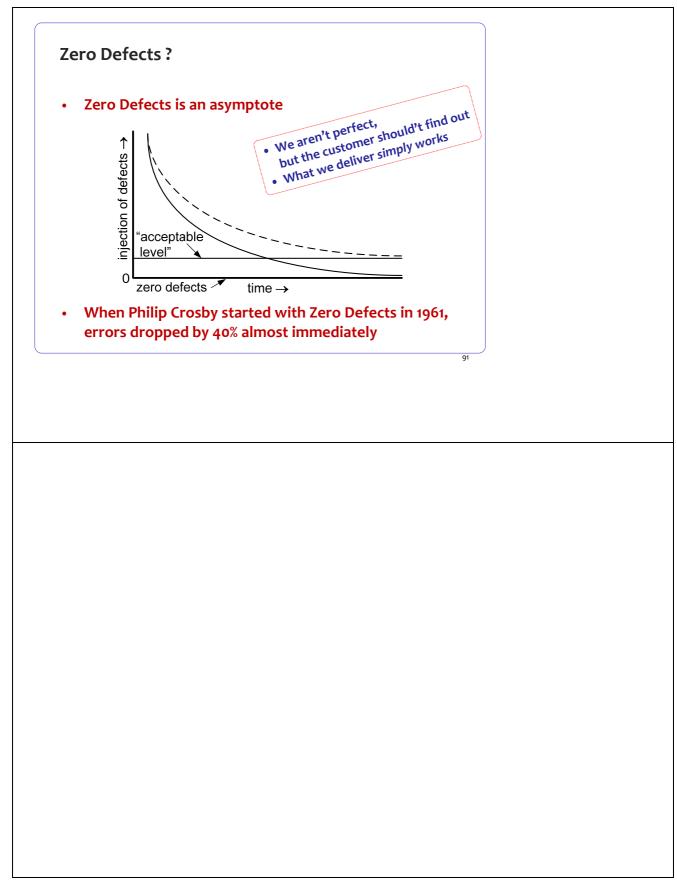




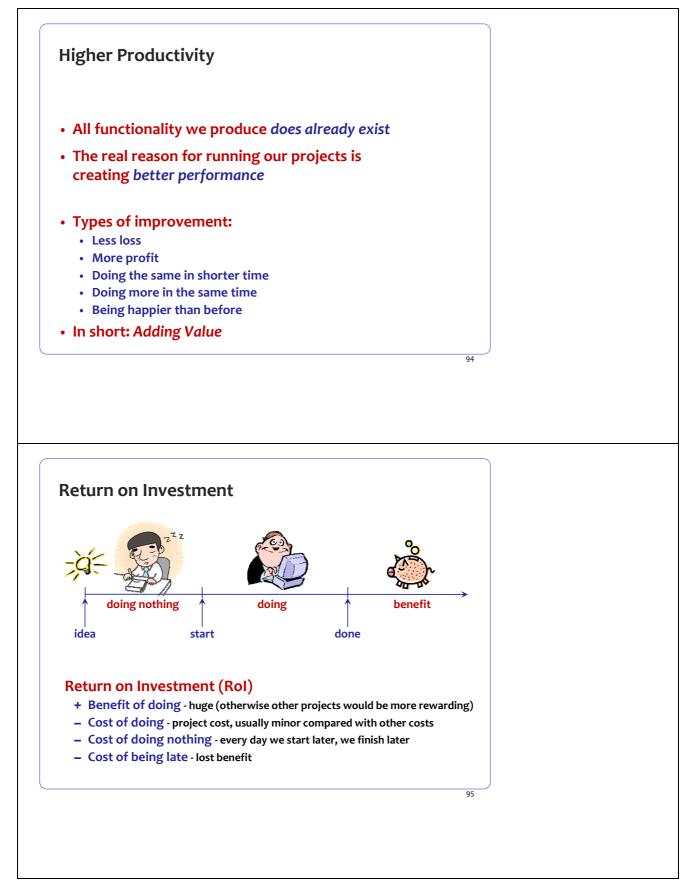






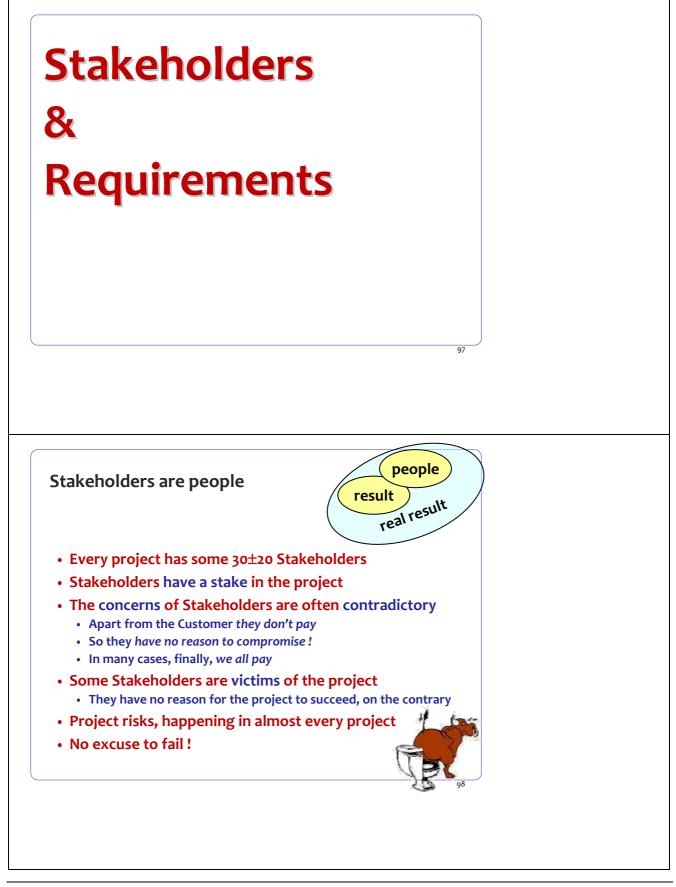


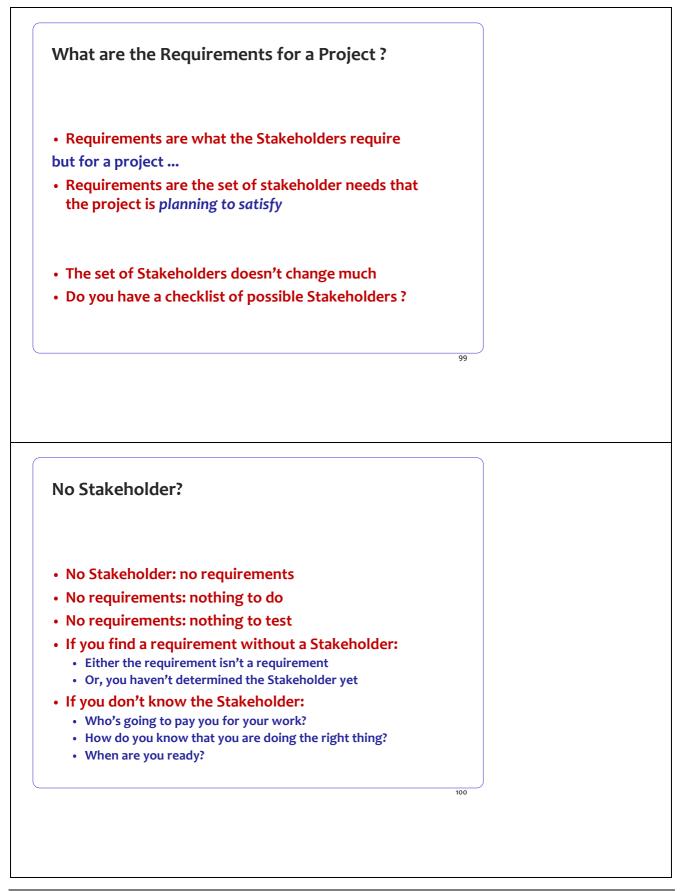
Business Case	
92	
Business Case	
 Why are we running a project ? Why to improve Drives the decision making processes To continually align the Projects progress to the dynamic business objectives Stakeholders Total LifeCycle - cradle to cradle 	
93	



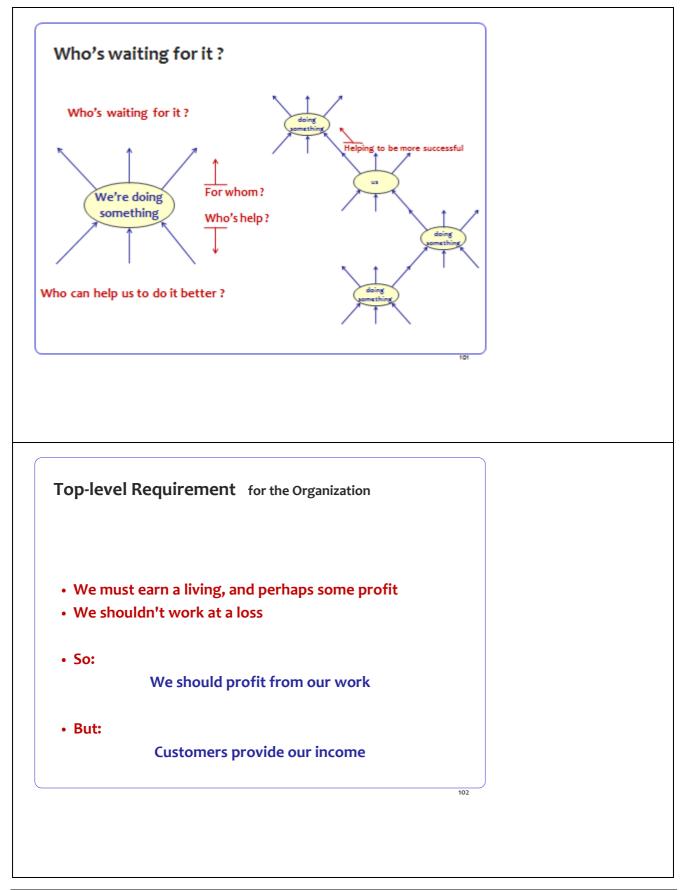
How many Business Cases ?	
 Do you have a Business Case documented for your pro How many Business Cases ? 	ject ?
 There are usually at least two Business Cases: Theirs Yours 	
	96

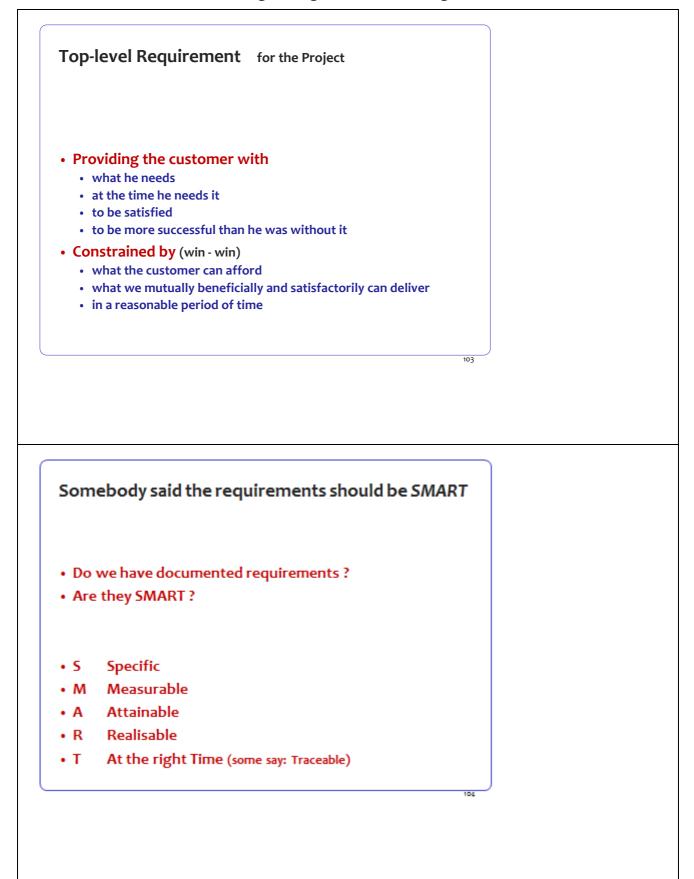
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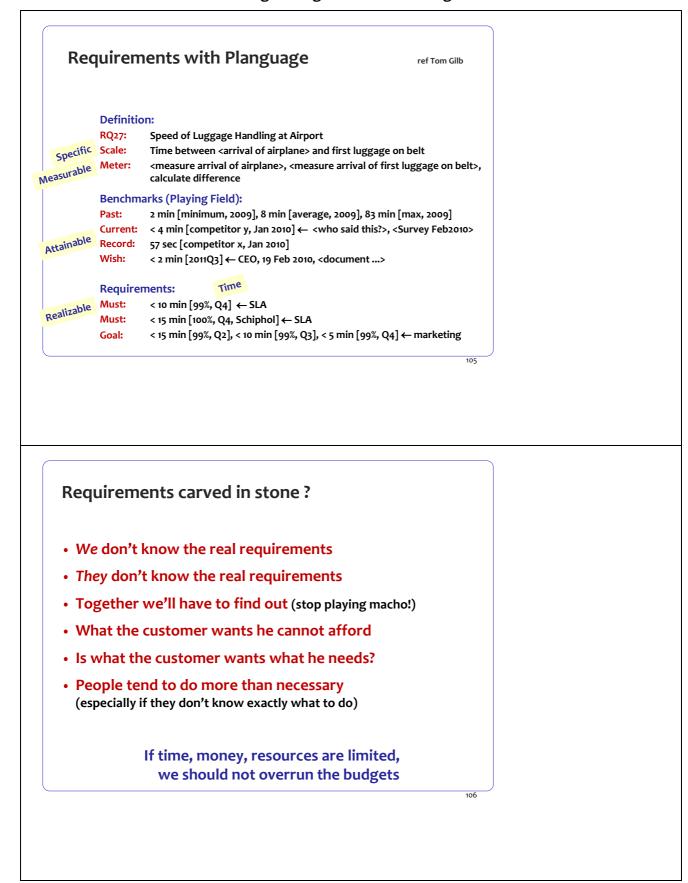


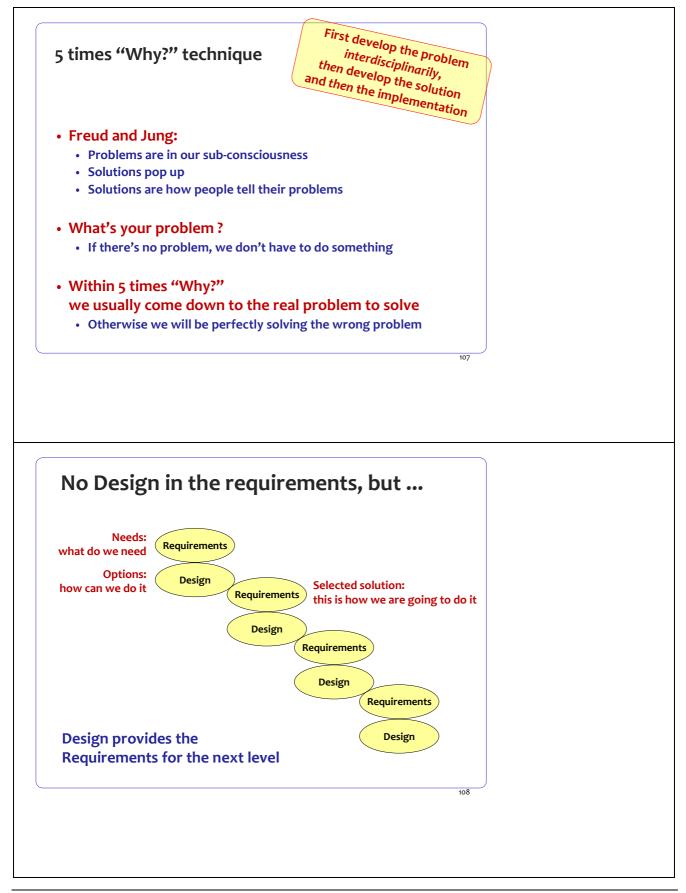


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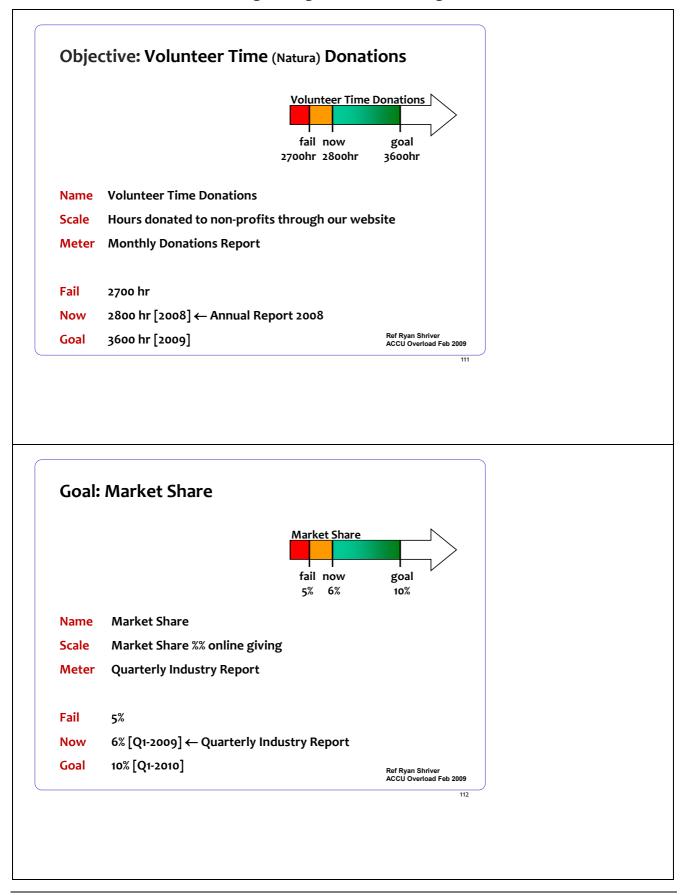






• Orga	nization collecting online giving for charities	
	"Improve website to increase online giving for our omers' (charities)"	
• Incre	asing market share for online giving	
• Budg	et: 1M€ - 10 months	
 Show 	results fast	
	Ref Ryan Shriver ACCU Overload Feb 2009	
	109	ノ
Objec	tive: Monetary Donations	
Objec	tive: Monetary Donations	
Objec	Monetary Donations	
Objec	Monetary Donations fail now goal	
Name	Monetary Donations fail now goal 12M 13M 18M	
Name	Monetary Donations fail now goal 12M 13M 18M	
Name Scale	Monetary Donations fail now goal 12M 13M 18M Monetary Donations Euro's donated to non-profits through our website	
Name Scale Meter Fail Now	Monetary Donations fail now goal 12M 13M 18M Monetary Donations Euro's donated to non-profits through our website Monthly Donations Report 12M 13M [2008] ← Annual Report 2008	
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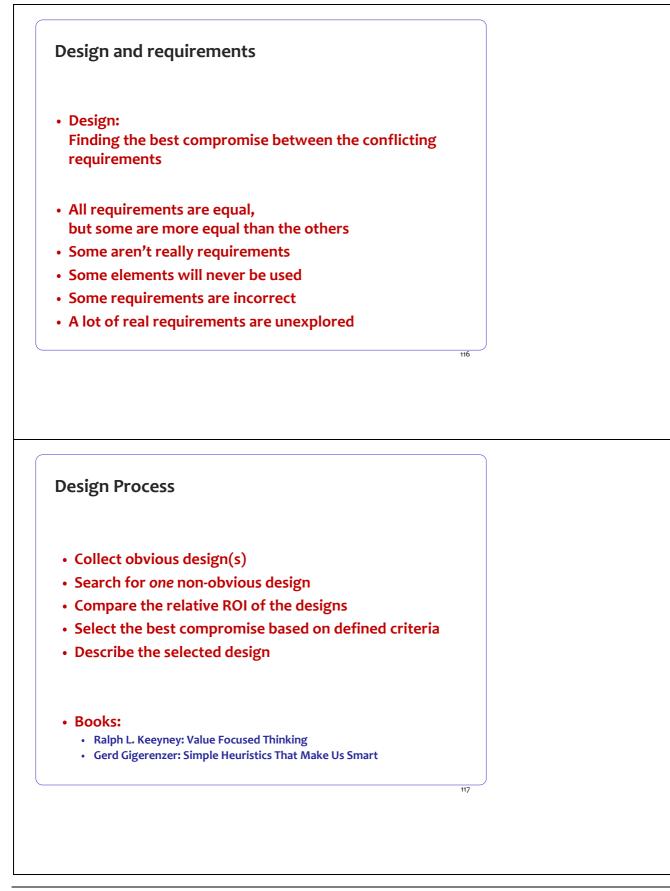


Impact	Monthly	Facebook	Image & video	Total effect
Estimation	Donations	integration	uploads	for requiremen
€€ donations	<mark>80%</mark>	30%	50%	160%
13M€ → 18M€	±30%	±30%	±20%	±80%
Time donations	10%	50%	80%	140%
2800hr→3600hr	±10%	±20%	±20%	±50%
Market share $6\% \rightarrow 10\%$	<mark>30%</mark>	30%	20%	80%
	±20%	±20%	±10%	±50%
Total effect	120%	110%	150%	380%
per solution	±60%	土70%	±50%	±180%
Cost - money	<mark>30%</mark>	20%	50%	100%
% of 1M€	±10%	±10%	±20%	±40%
Cost - time	<mark>40%</mark>	20%	50%	110%
% of 10 months	±20%	±10%	±20%	±50%
Total effect /	120/30 = 4	110/20 = 5.5	150/50 = 3	
money budget	1.5 9	1.3 18	1.4 6.7	
Total effect /	120/40 = 3	120/20 = 6	120/50 = 2.4	
time budget	1 9	1.3 18	1.4 6.7	

113

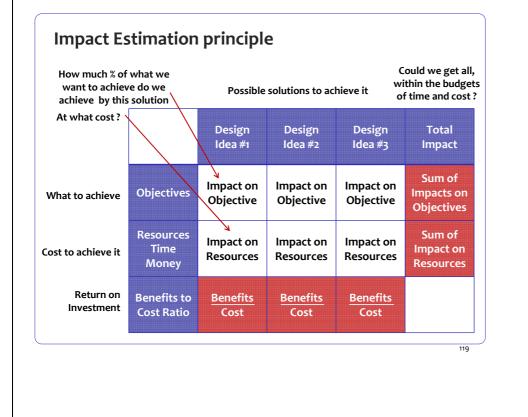
Architecture and Design	
114	
Design is always a compromise	
Design is always a compromise • Design is the process of collecting and selecting options how to implement the requirements	
 Design is the process of collecting and selecting options how to 	
 Design is the process of collecting and selecting options how to implement the requirements 	
 Design is the process of collecting and selecting options how to implement the requirements The Requirements are <i>always</i> conflicting 	

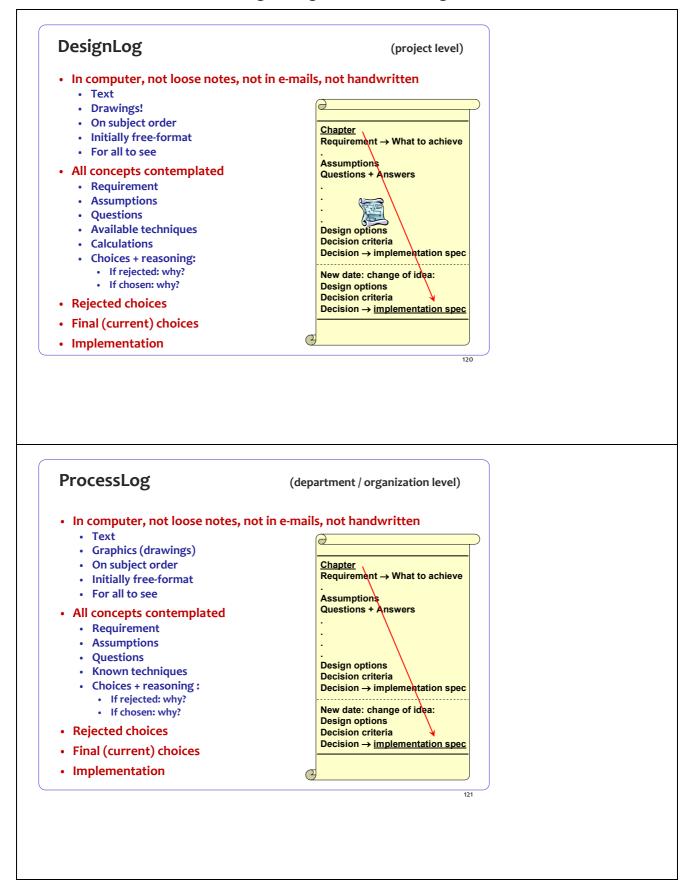
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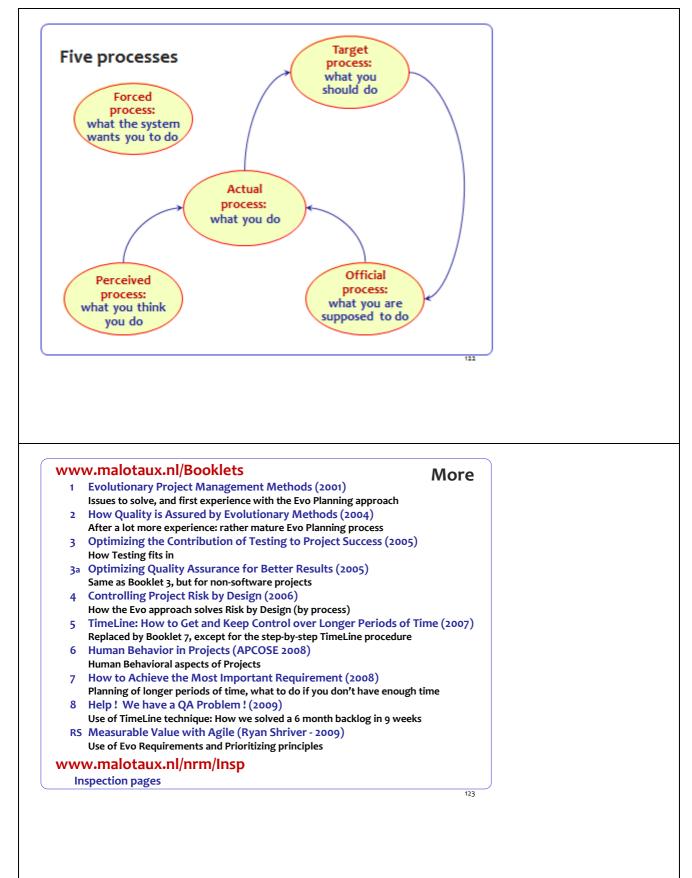


Impact	Monthly	Facebook	Image & video	Total effect
Estimation	Donations	integration	uploads	for requirement
<mark>€€ donations</mark>	<mark>80%</mark>	30%	50%	160%
13M€ → 18M€	±30%	±30%	±20%	±80%
Time donations	10%	50%	80%	140%
2800hr→3600hr	±10%	±20%	±20%	±50%
Market share $6\% \rightarrow 10\%$	<mark>30%</mark>	30%	20%	80%
	±20%	±20%	±10%	±50%
Total effect	120%	110%	150%	380%
per solution	±60%	±70%	±50%	±180%
Cost - money	<mark>30%</mark>	20%	50%	100%
% of 1M€	±10%	±10%	±20%	±40%
Cost - time	<mark>40%</mark>	20%	50%	110%
% of 10 months	±20%	±10%	±20%	±50%
Total effect /	120/30 = 4	110/20 = 5.5	150/50 = 3	
money budget	1.5 9	1.3 18	1.4 6.7	
Total effect /	120/40 = 3	120/20 = 6	120/50 = 2.4	
time budget	1 9	1.3 18	1.4 6.7	

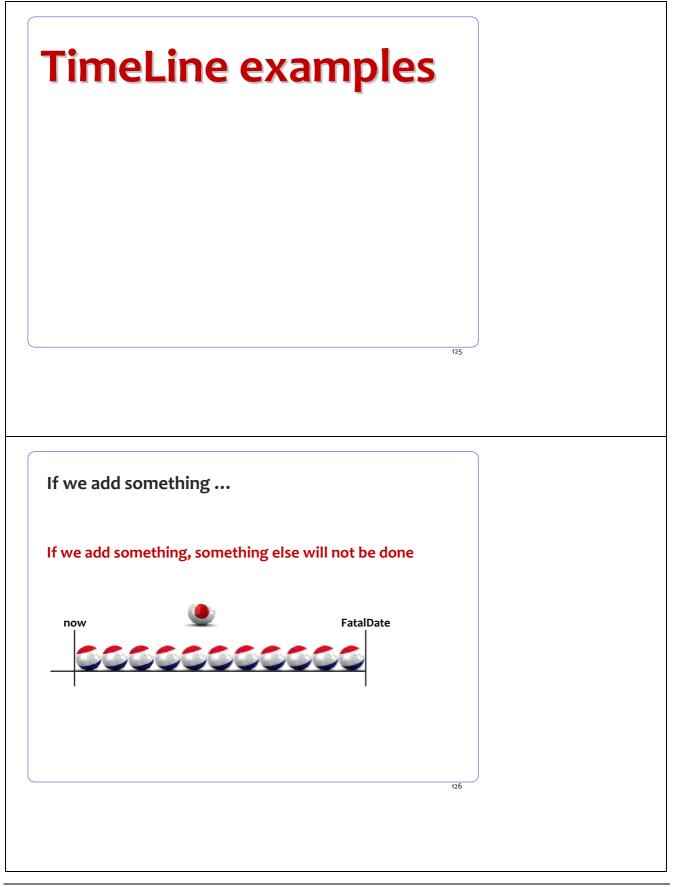
Ref Ryan Shriver - ACCU Overload Feb 2009

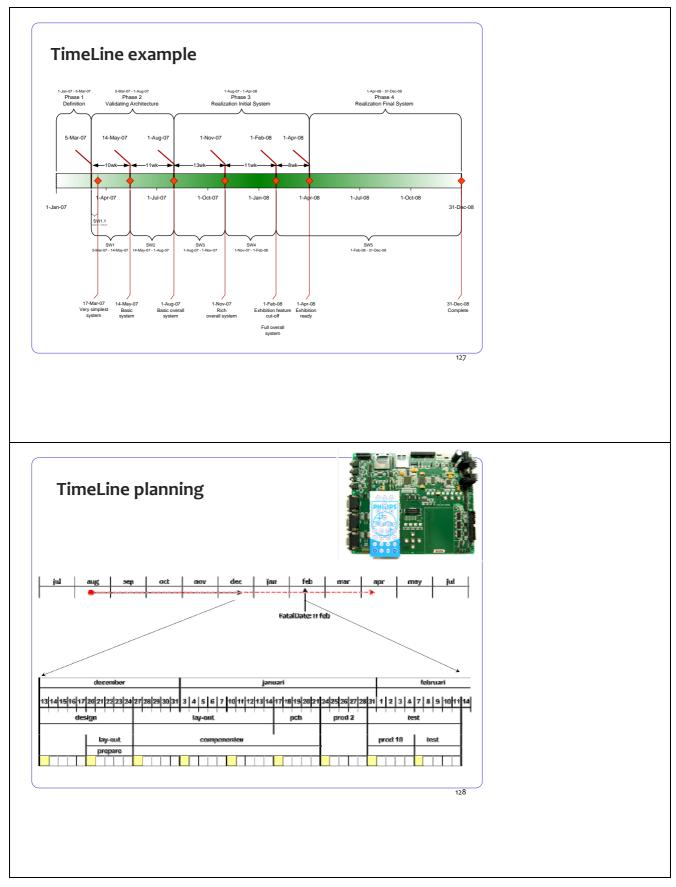


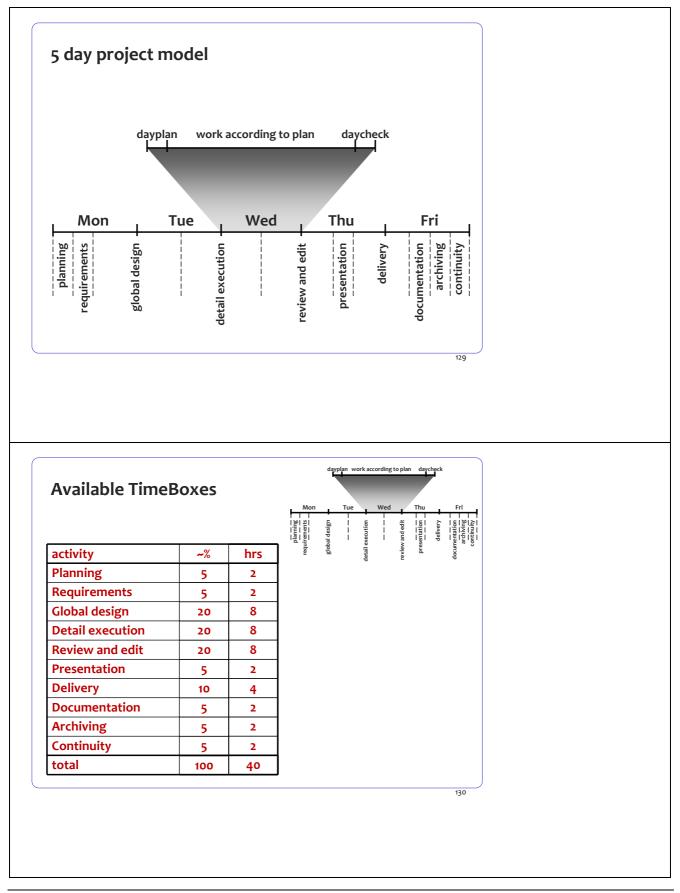


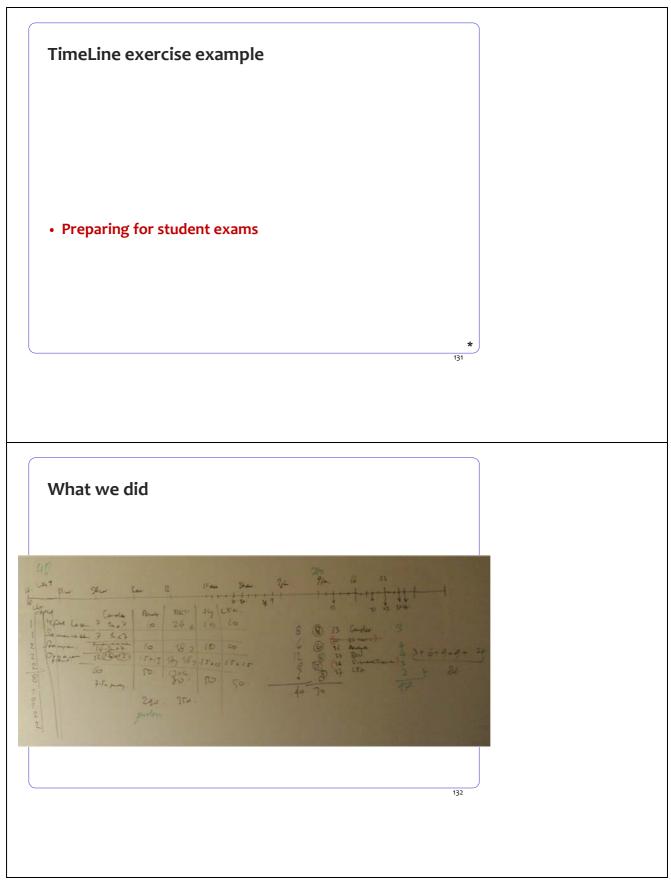


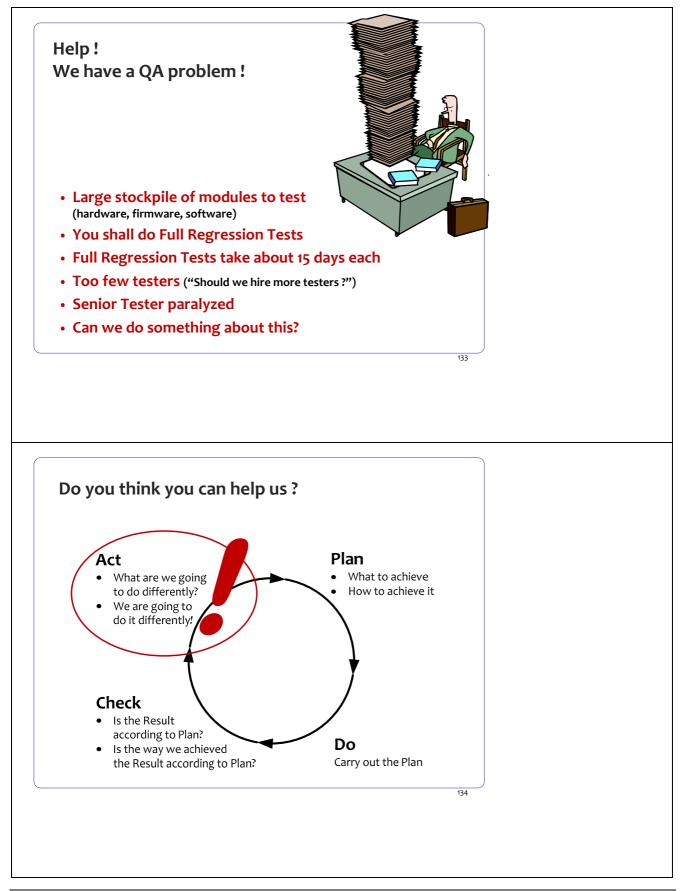
What now ?		
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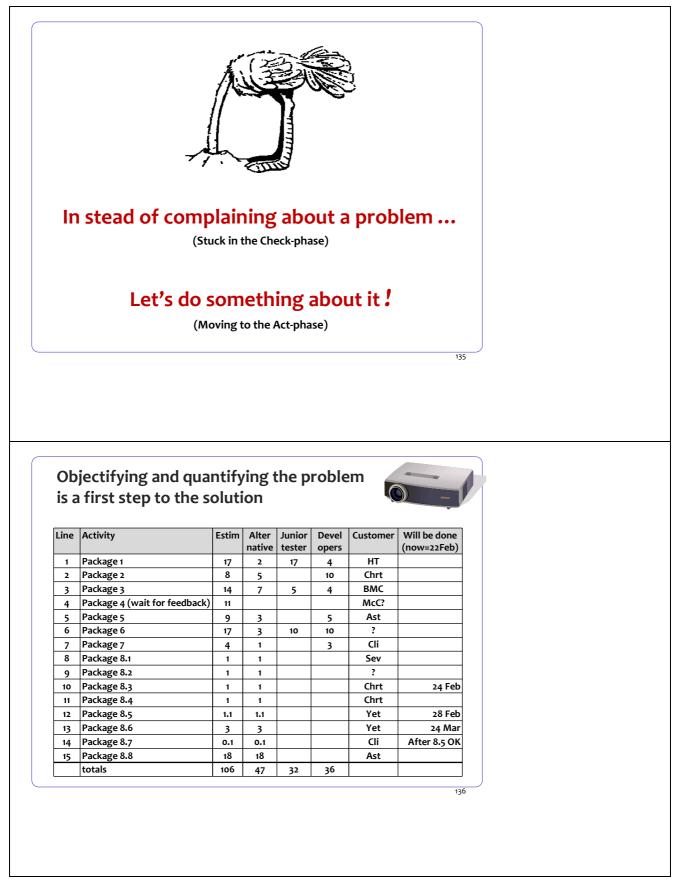


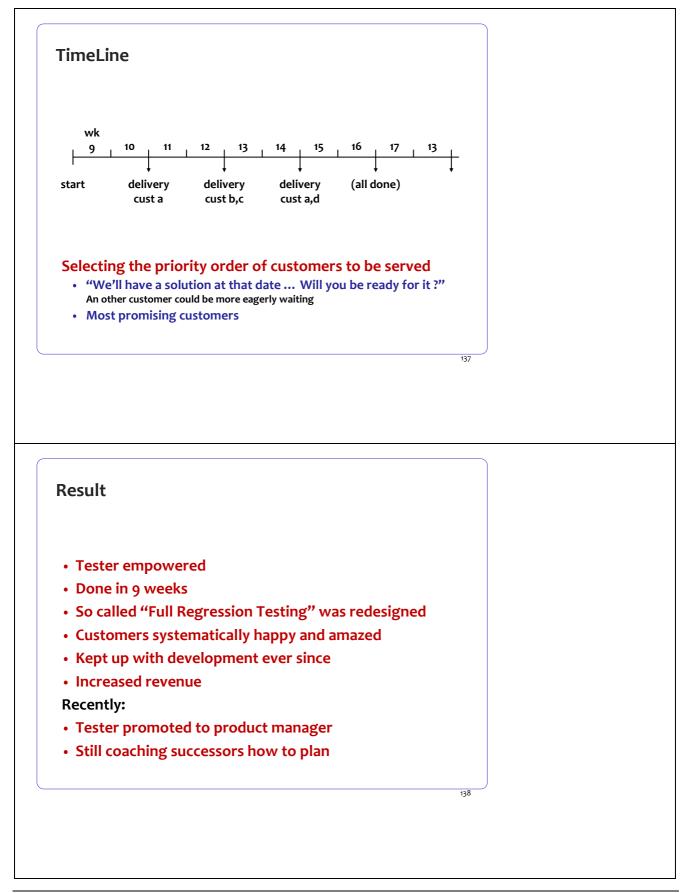


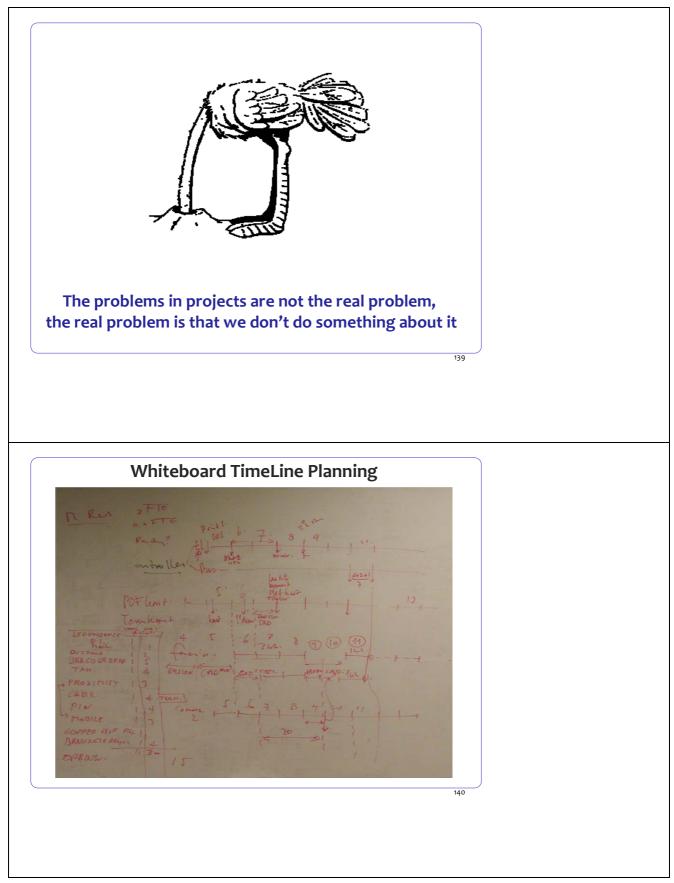




More information: www.malotaux.nl







Whiteboard TimeLine Planning	
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