IKD training lente 2008 Succesvol Plannen van Softwareprojecten

20 en 27 mei 2008

Evolutionaire Project Management Methoden

Hoe realiseer je het beste resultaat in de kortst mogelijke tijd

Niels Malotaux

N R Malotaux - Consultancy Bilthoven 030-2288868 niels@malotaux.nl www.malotaux.nl

Niels Malotaux

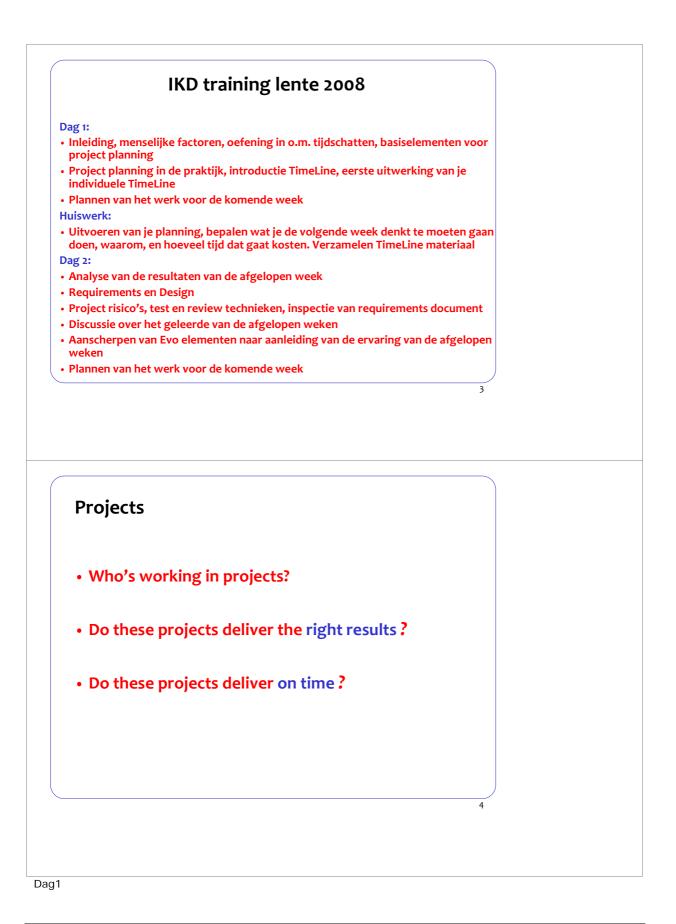
Sinds 1998 treedt Niels Malotaux op als onafhankelijke consultant en project coach. Hij leert projecten en organisaties hoe ze voortaan Kwaliteit op Tijd kunnen leveren. Dat is het juiste op de juiste tijd, zonder excuses.

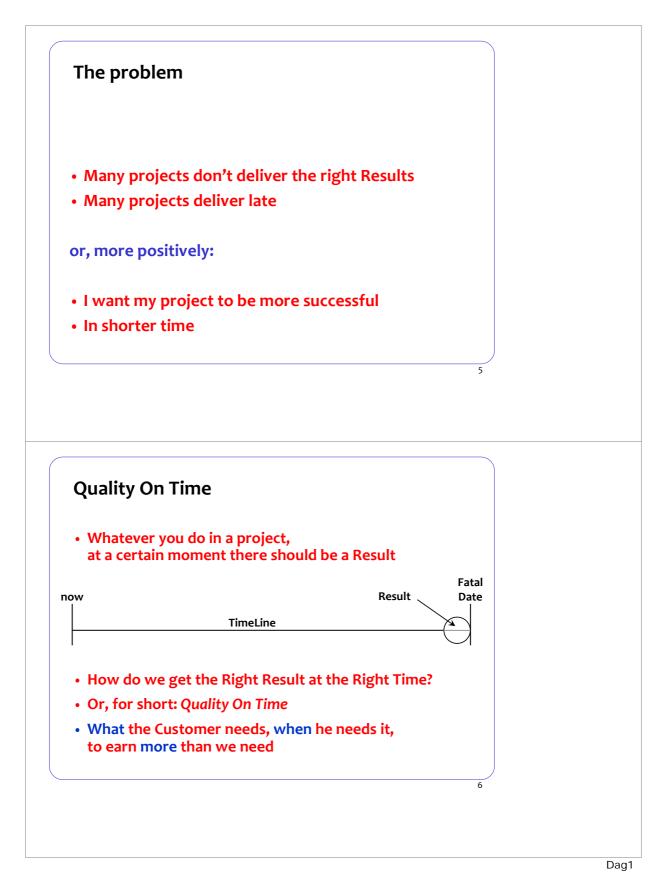
Niels heeft meer dan 30 jaar ervaring in het ontwikkelen van elektronische en software producten, eerst aan de TUDelft, vervolgens tijdens militaire dienst, toen bij Philips en tenslotte zo'n 20 jaar in zijn eigen systeemontwikkelings ingenieursbureau. Nu onderzoekt hij hoe menselijk gedrag het resultaat van projecten beïnvloedt en ontwikkelt hij methoden hoe we dit efficiënt en effectief kunnen verbeteren. Sinds 2001 onderwees en coachte Niels meer dan 100 projecten in 20+ verschillende organisaties in Nederland, België, Ierland, India, Japan, Roemenië en de VS, hetgeen een schat aan ervaring opleverde over wat beter en wat minder goed werkt. Hij spreekt regelmatig op conferenties en heeft 5 boekjes gepubliceerd. Kijk op <u>www.malotaux.nl/nrm</u> voor meer informatie.

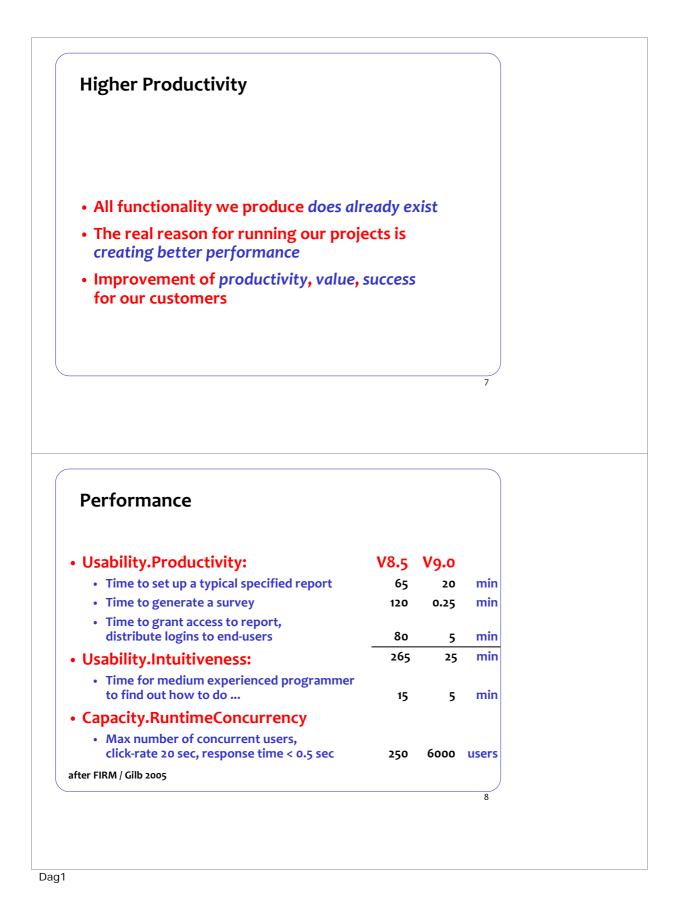


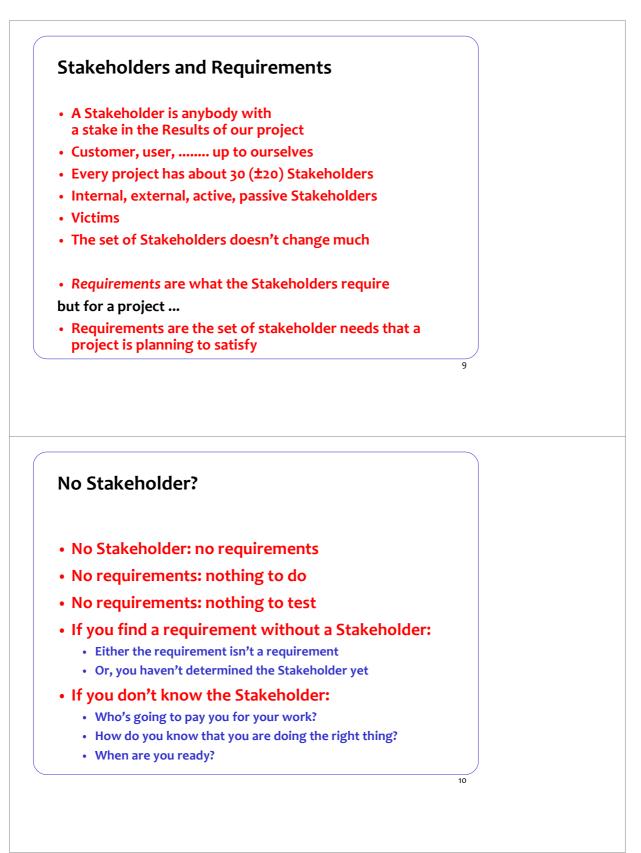
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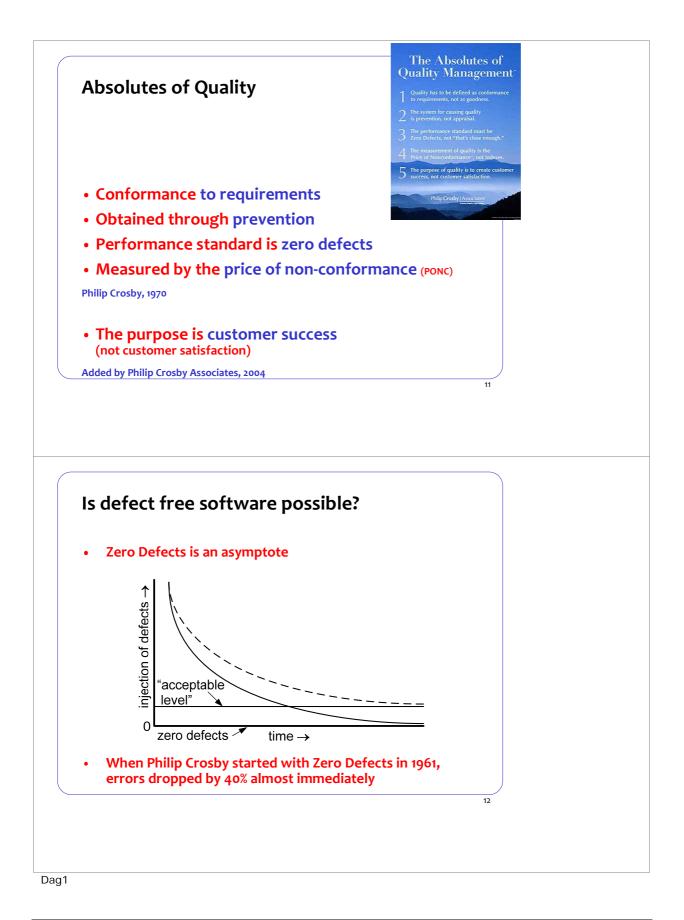
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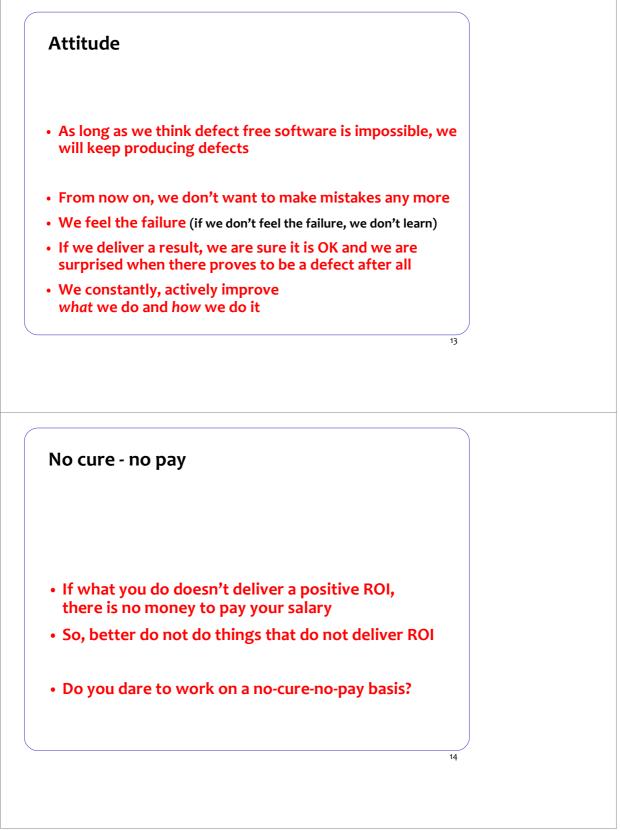




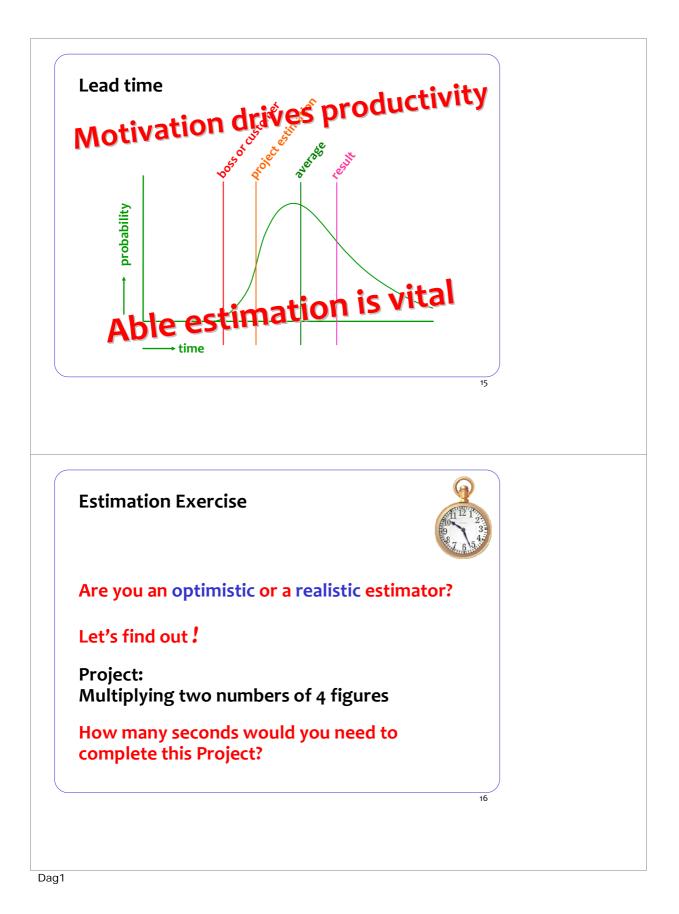


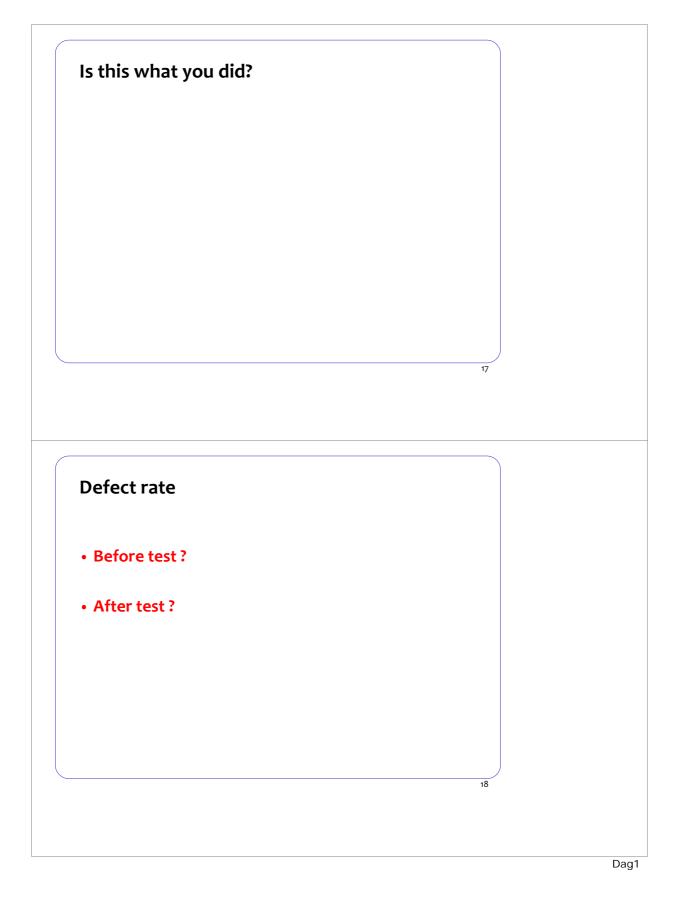


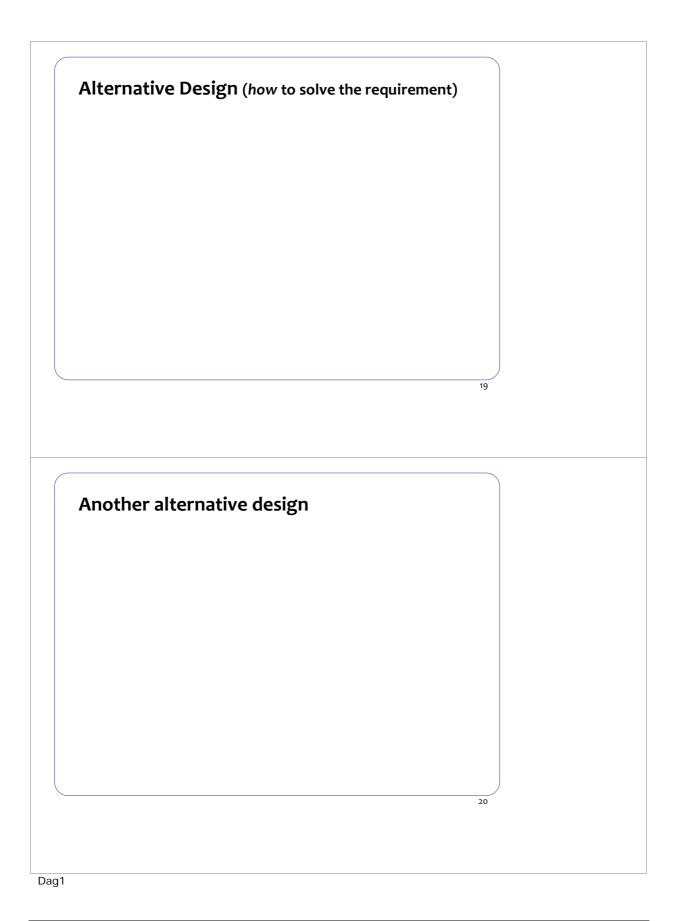


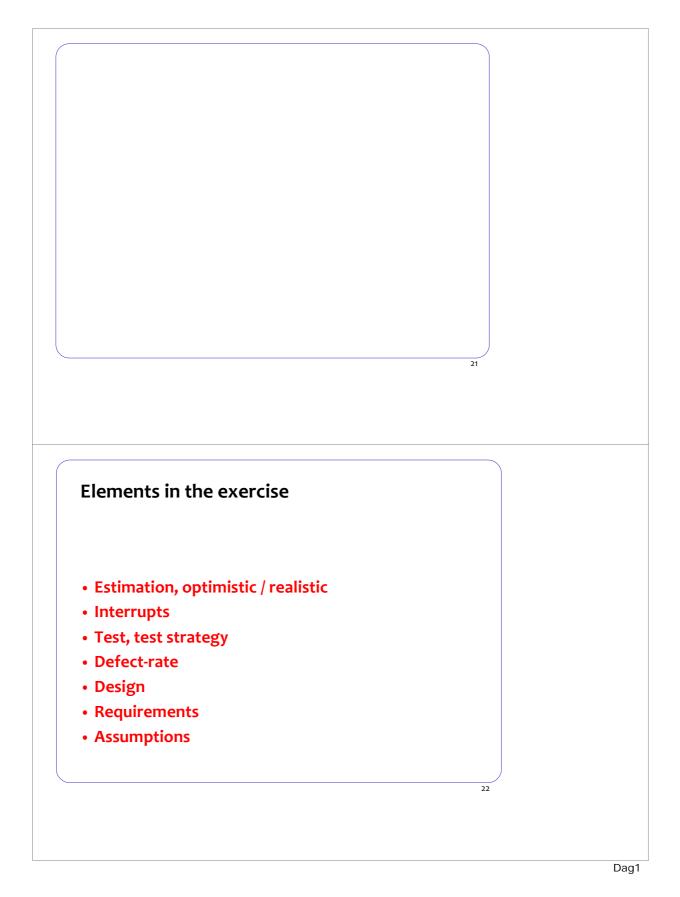


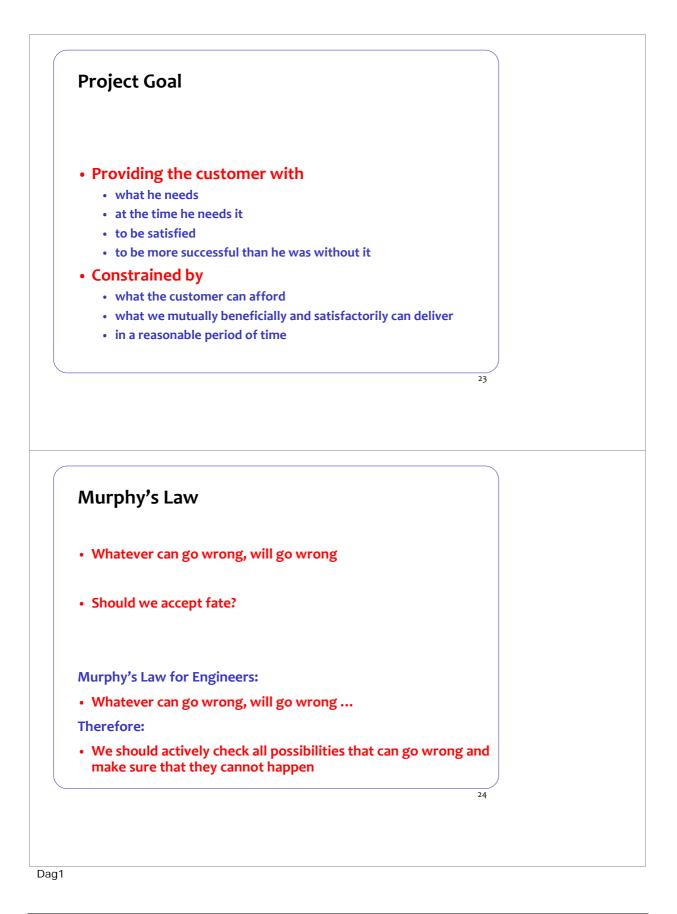
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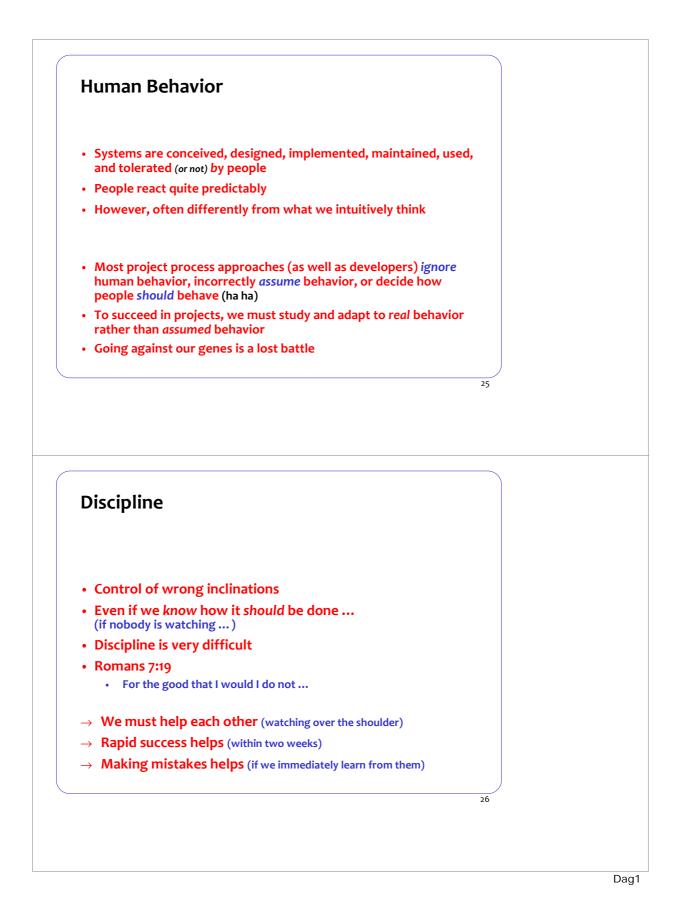


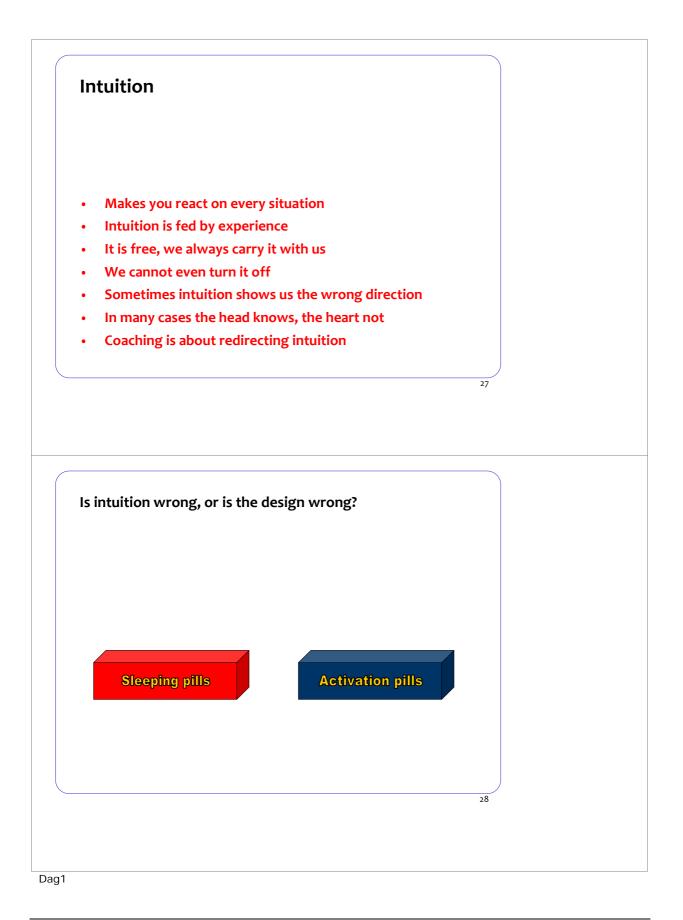


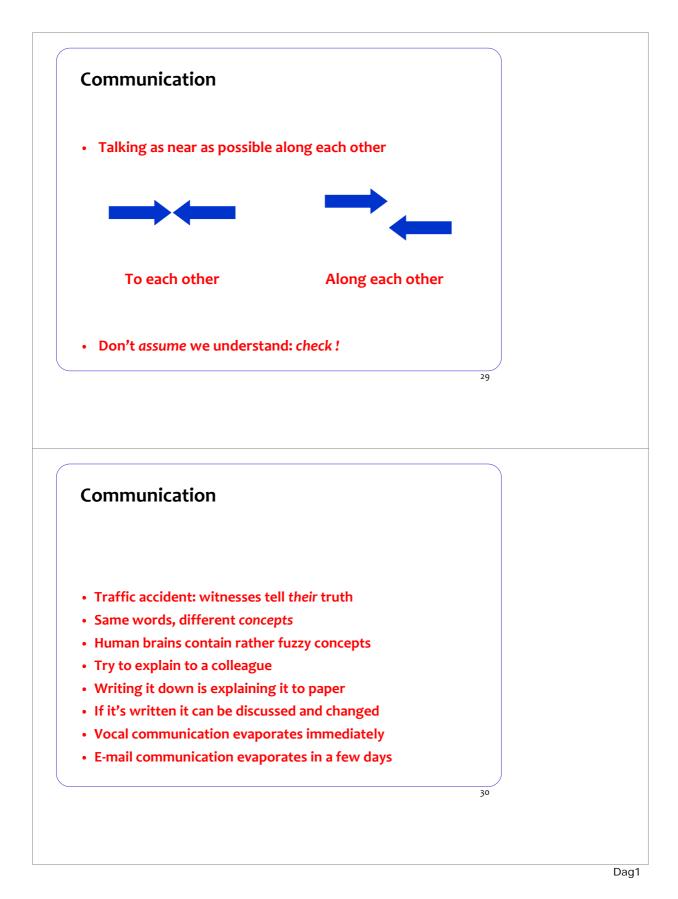


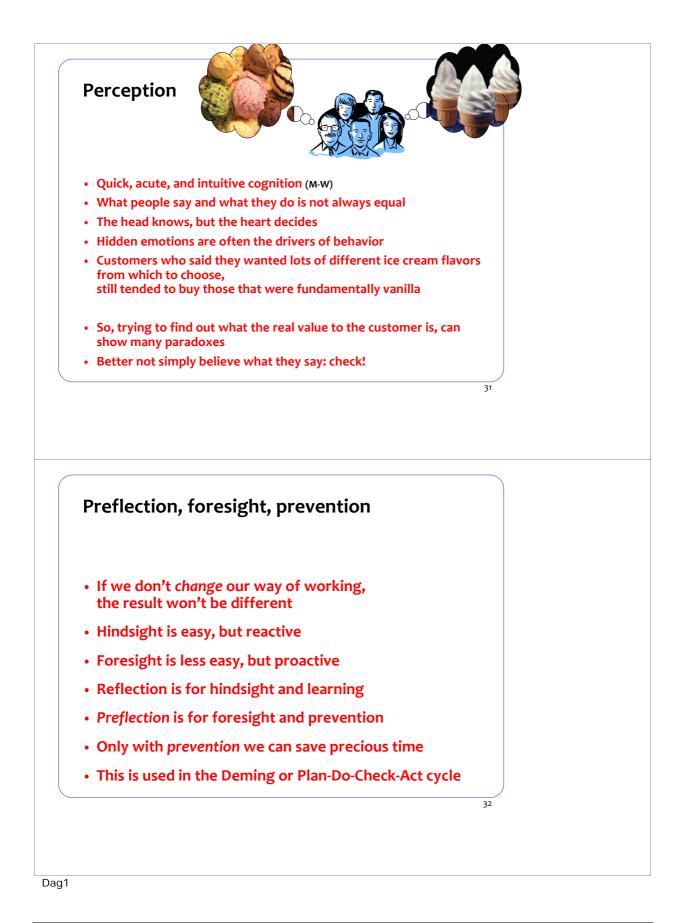


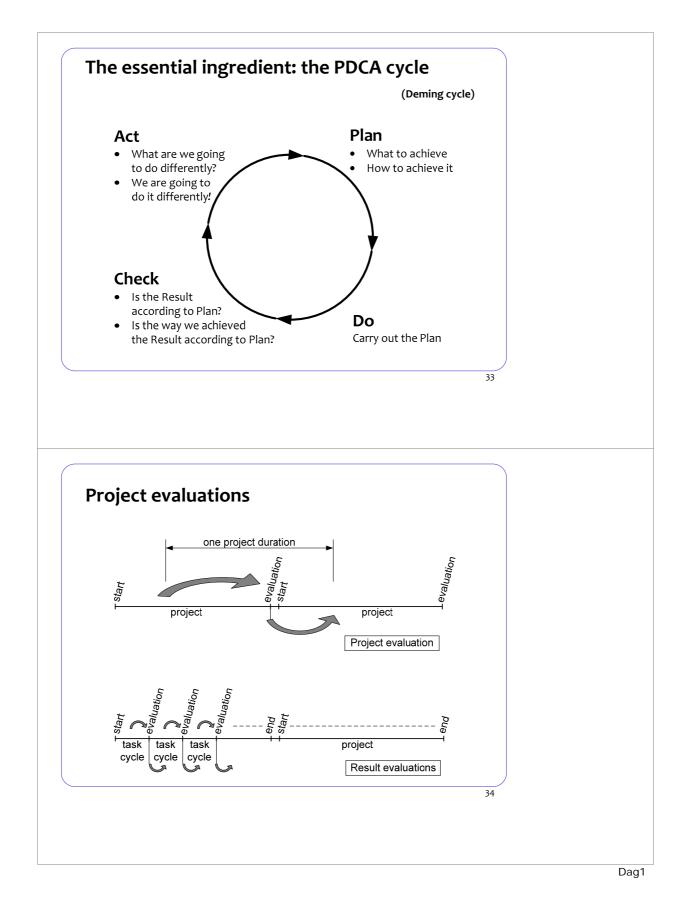






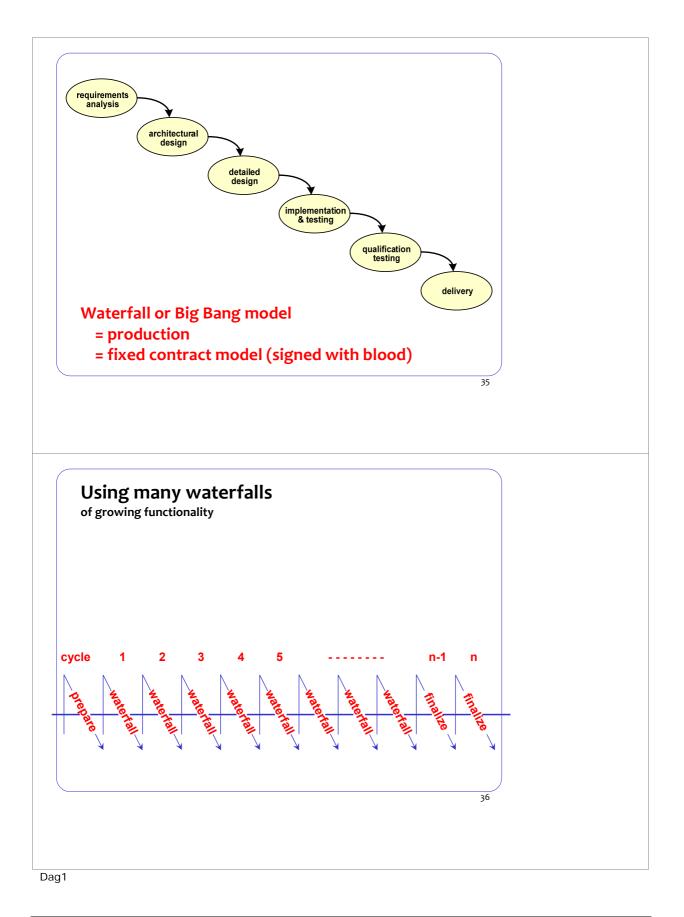


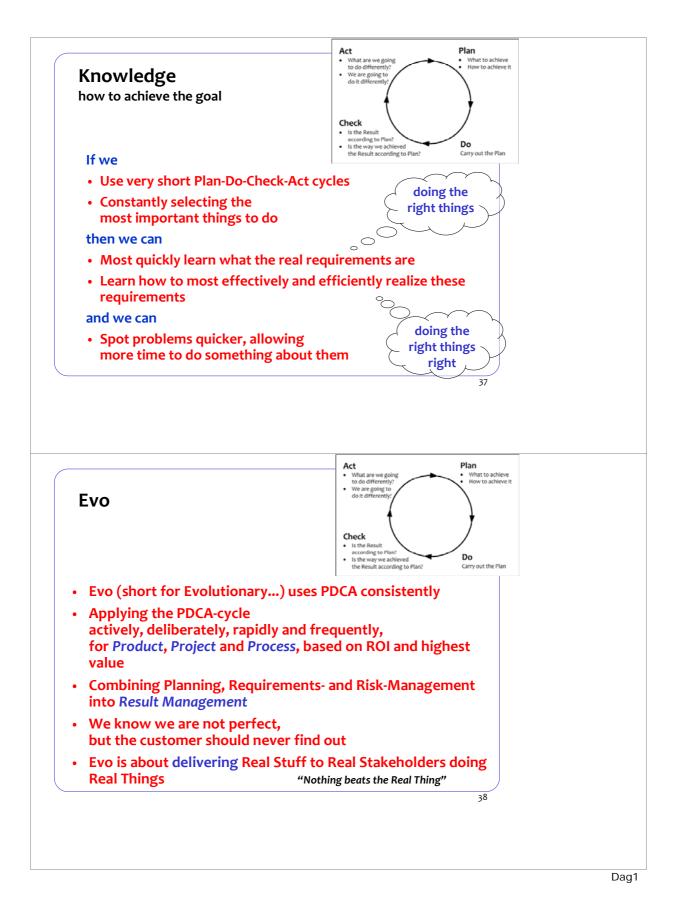


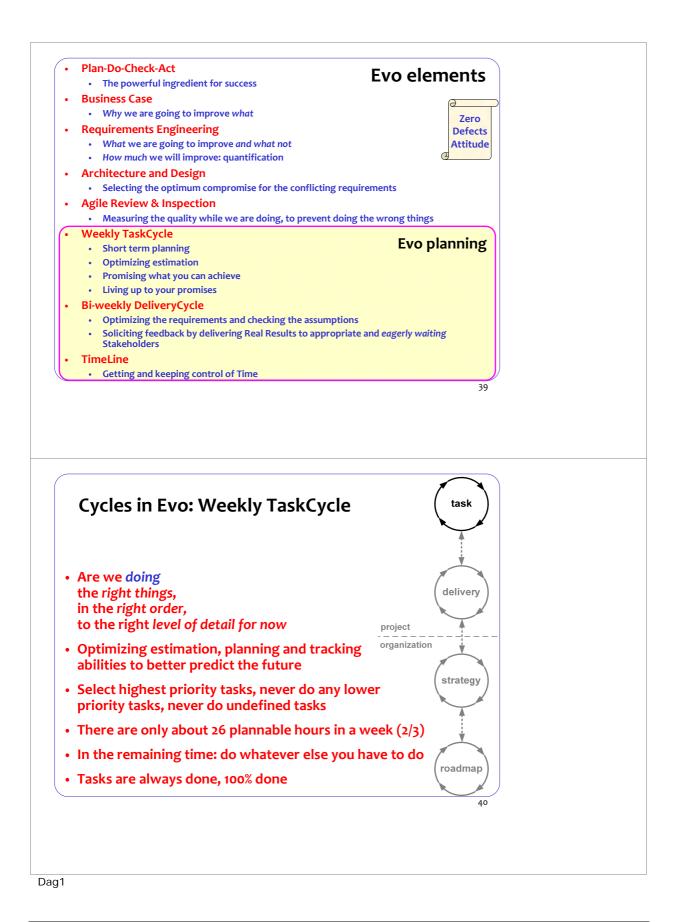


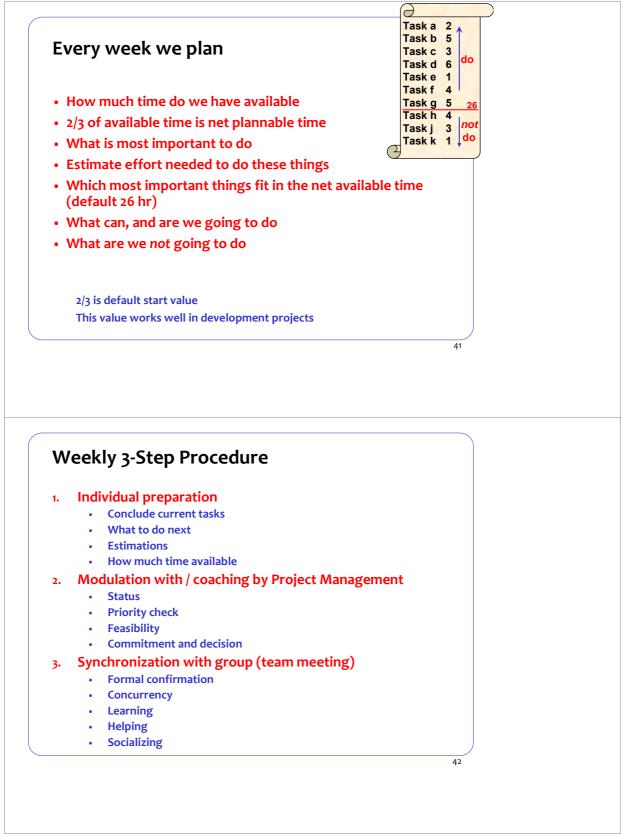
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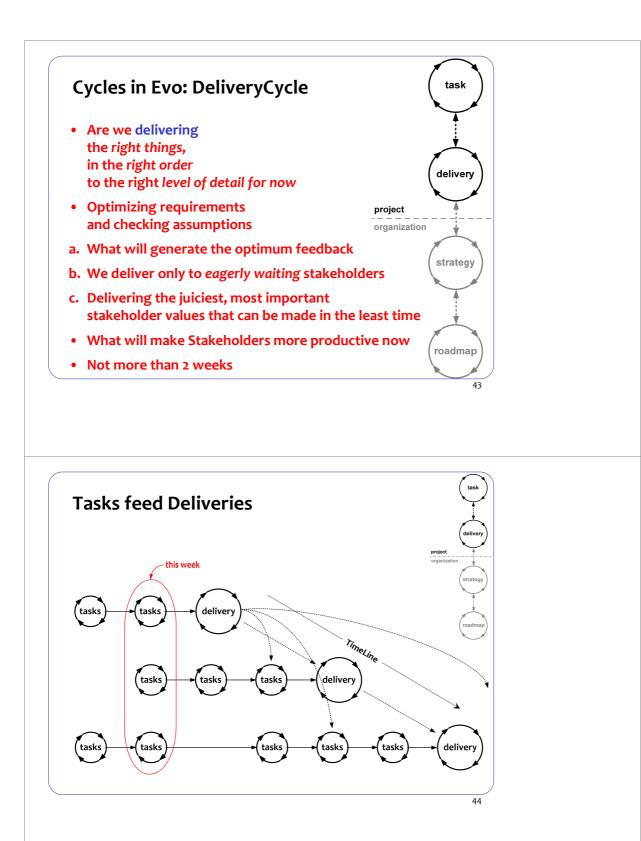




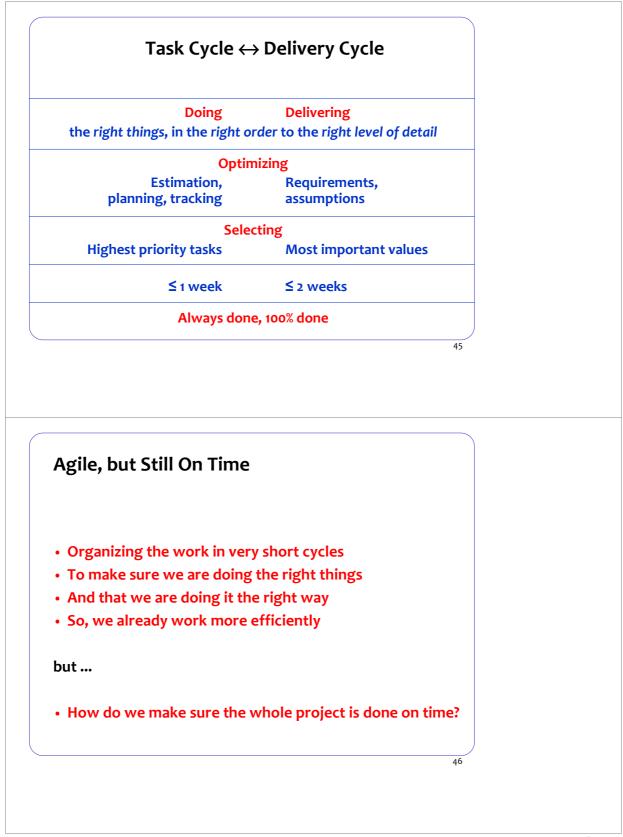


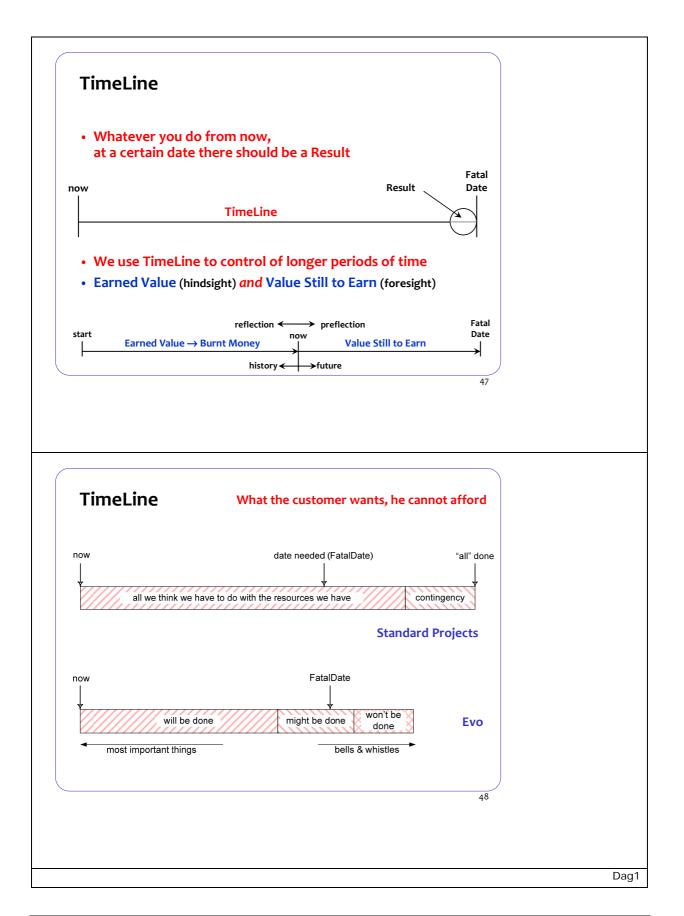


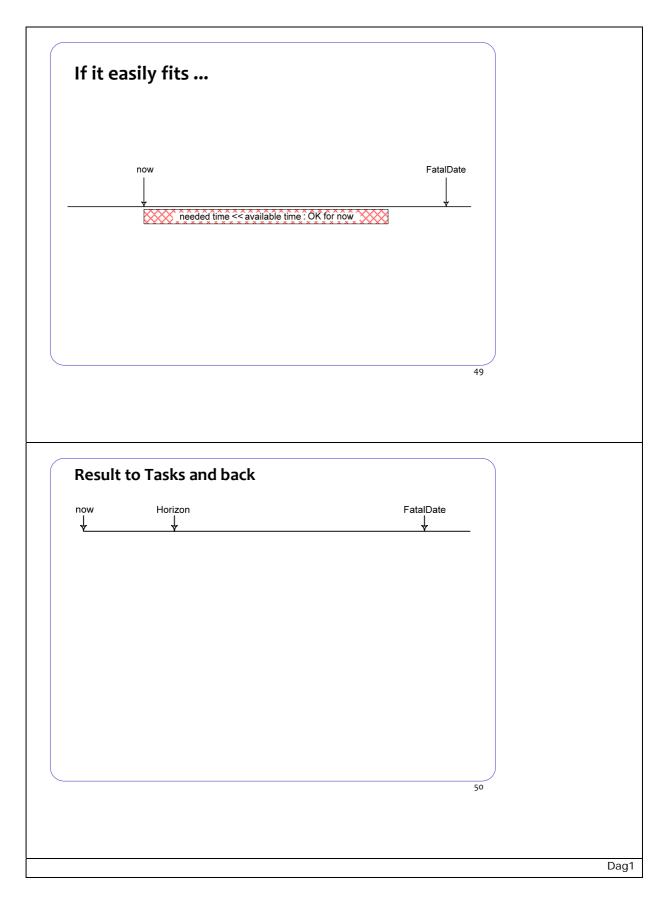
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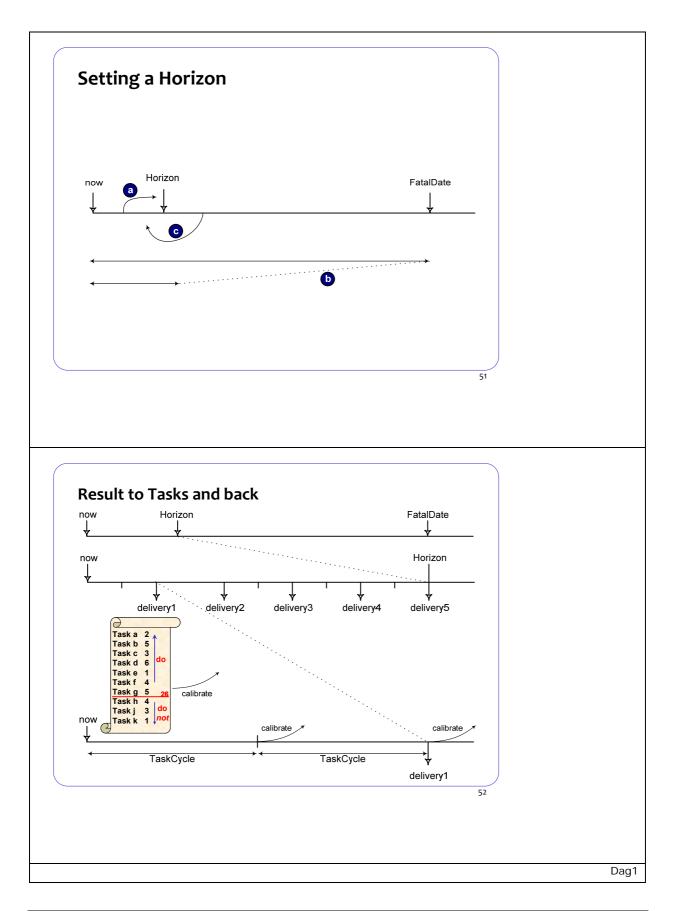


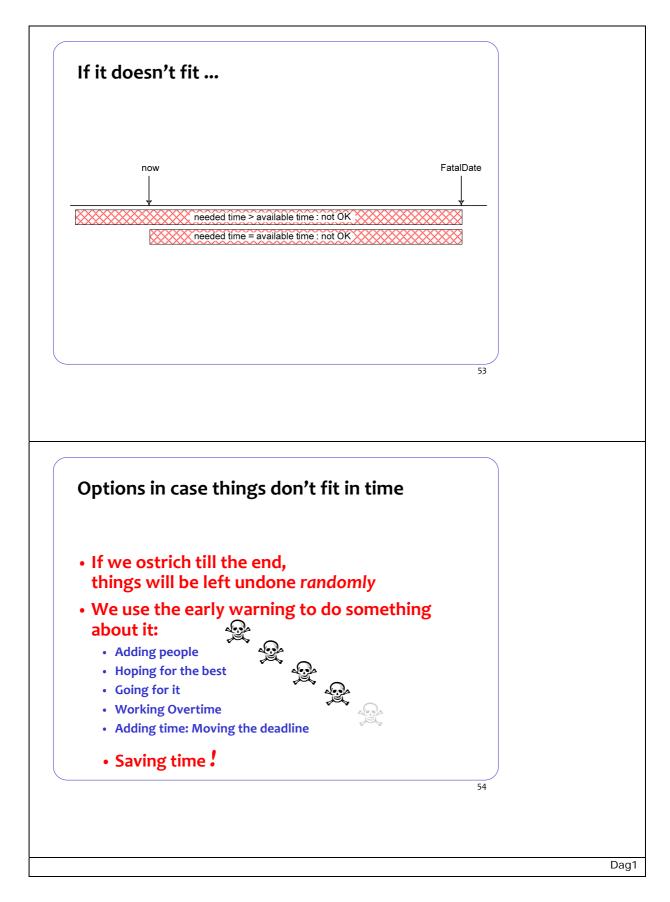




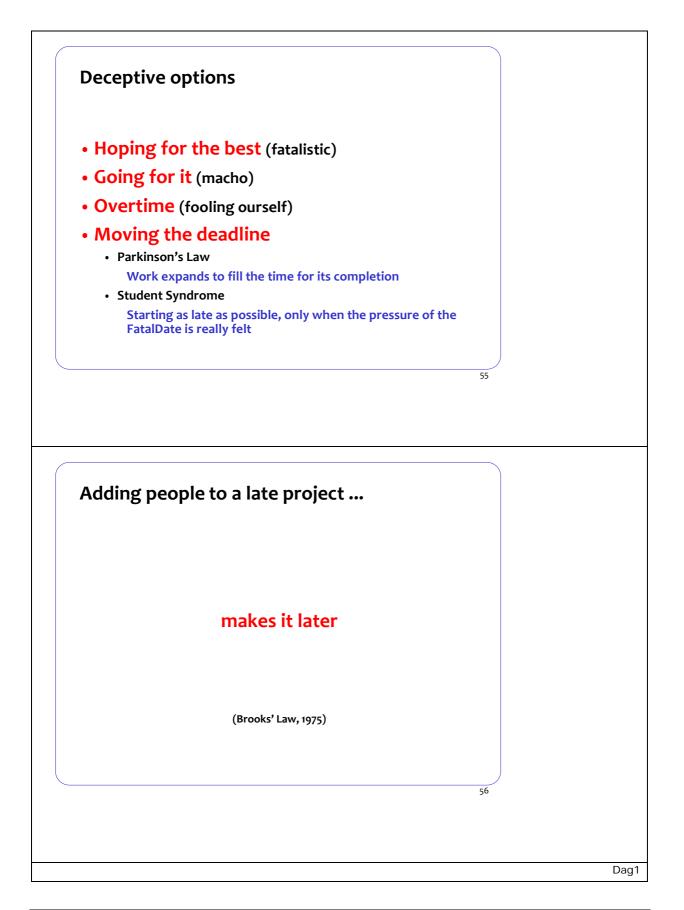
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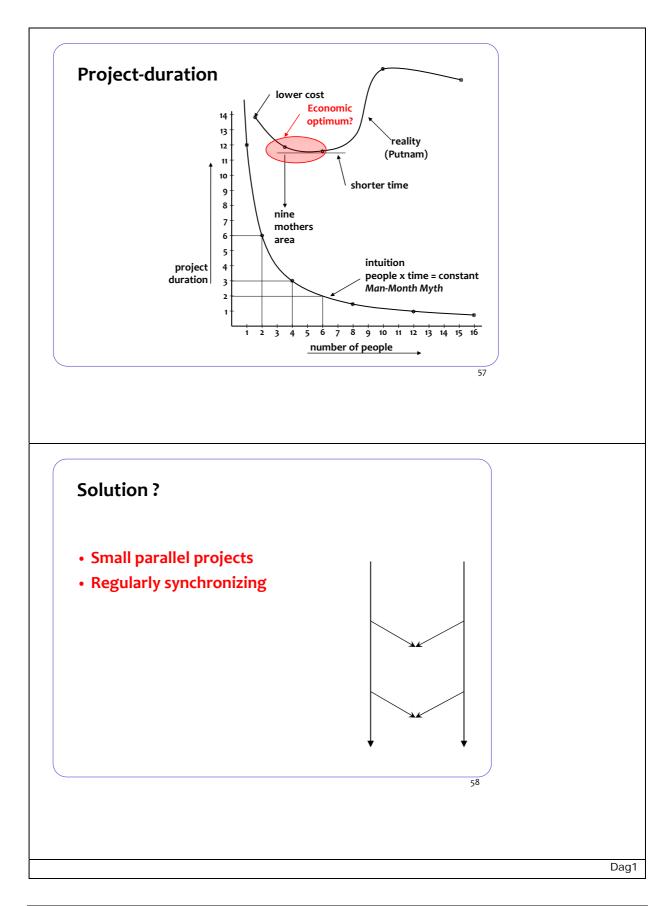
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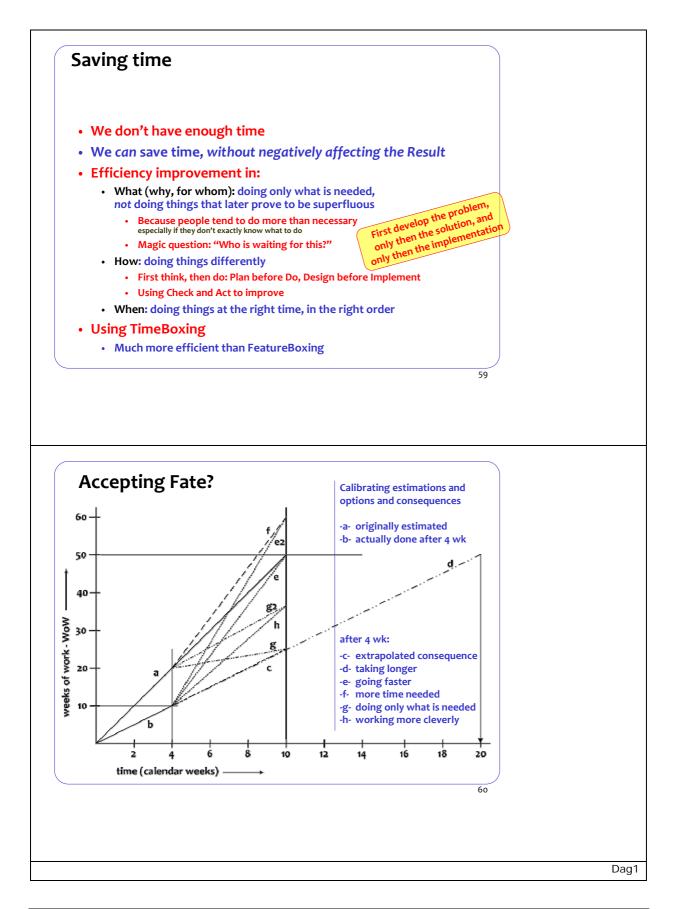
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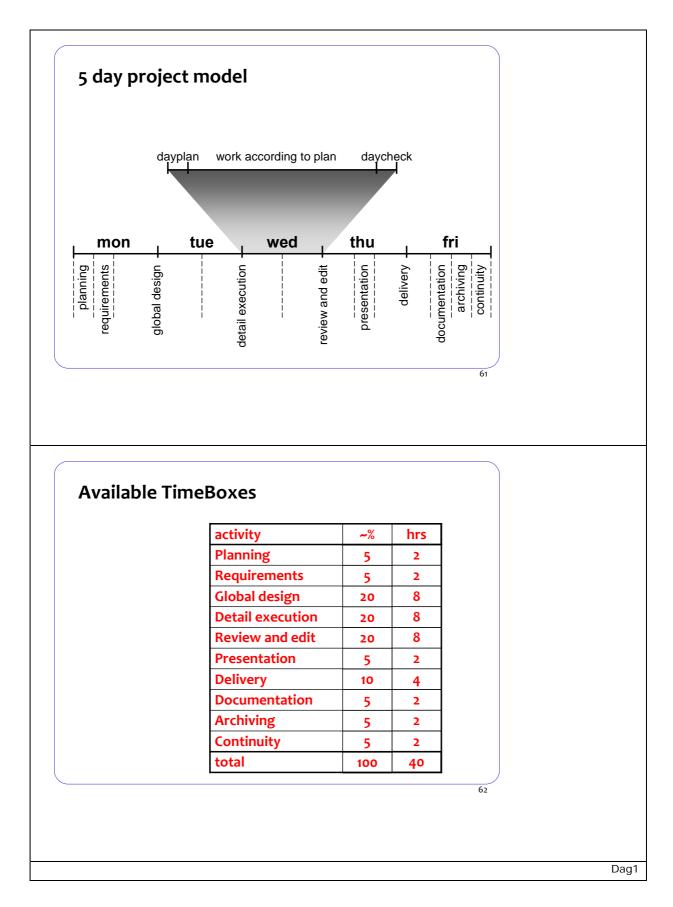




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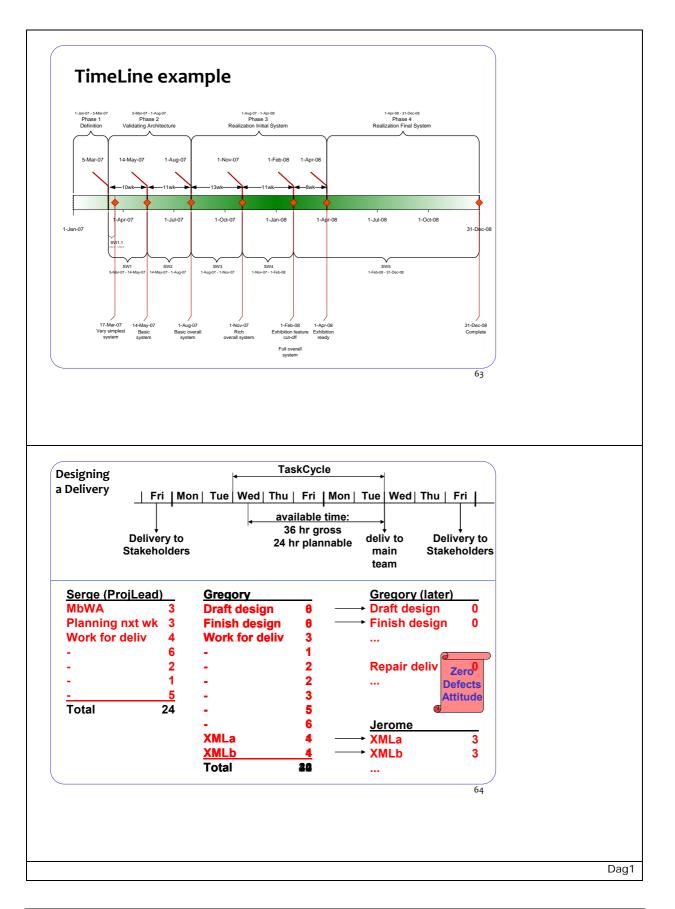
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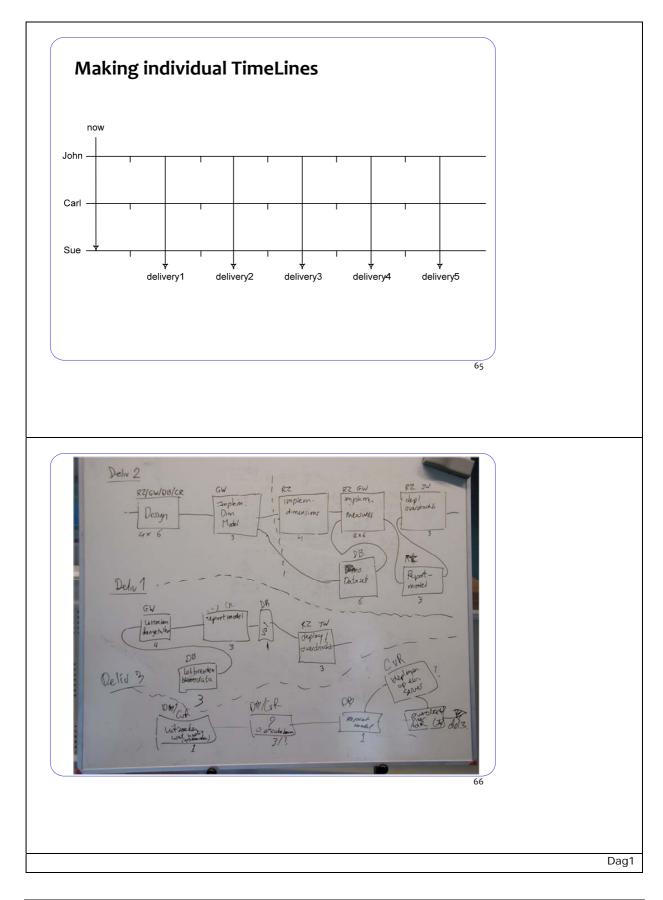




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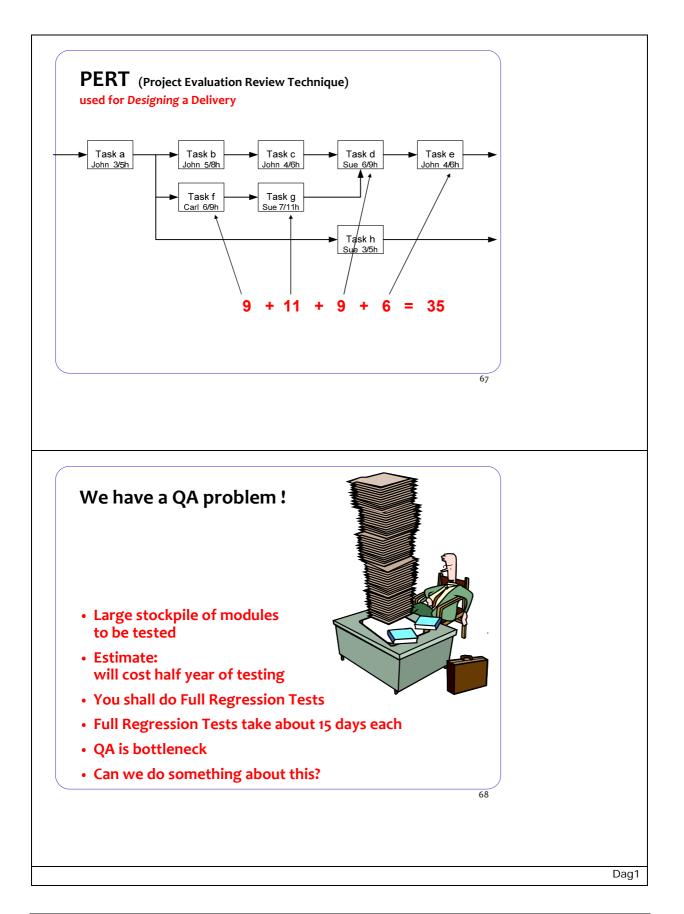
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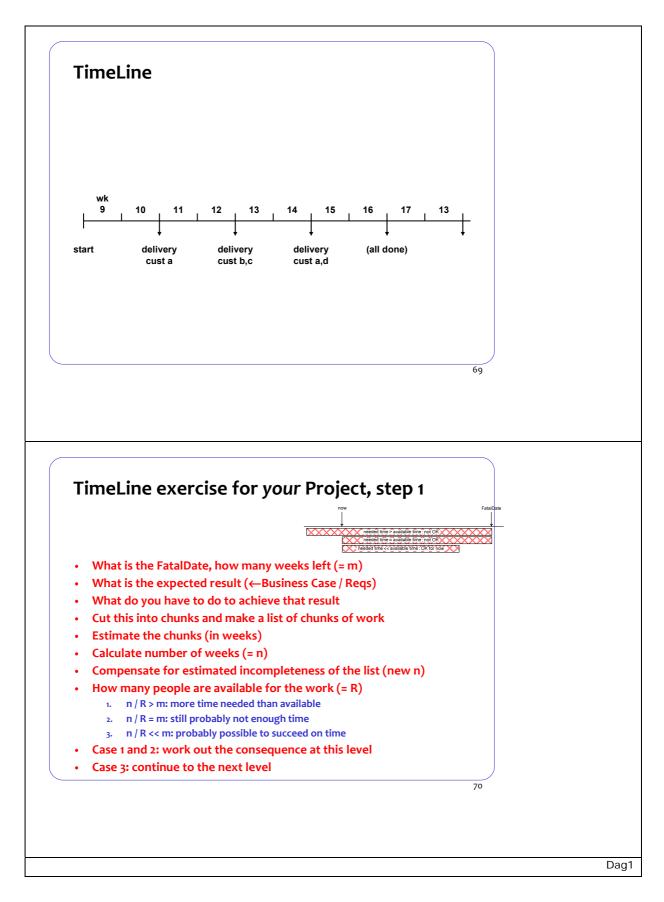




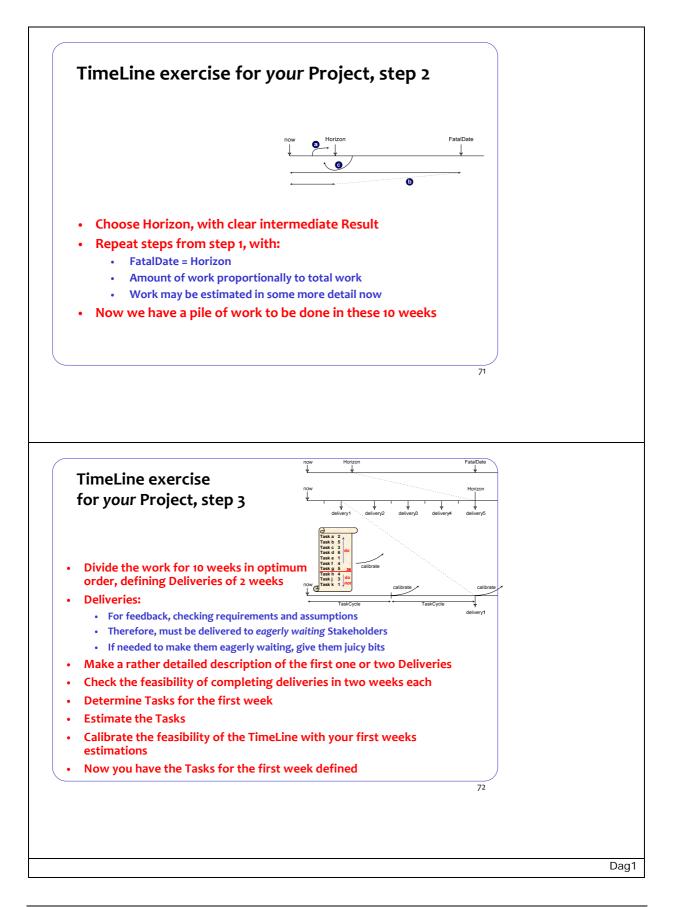
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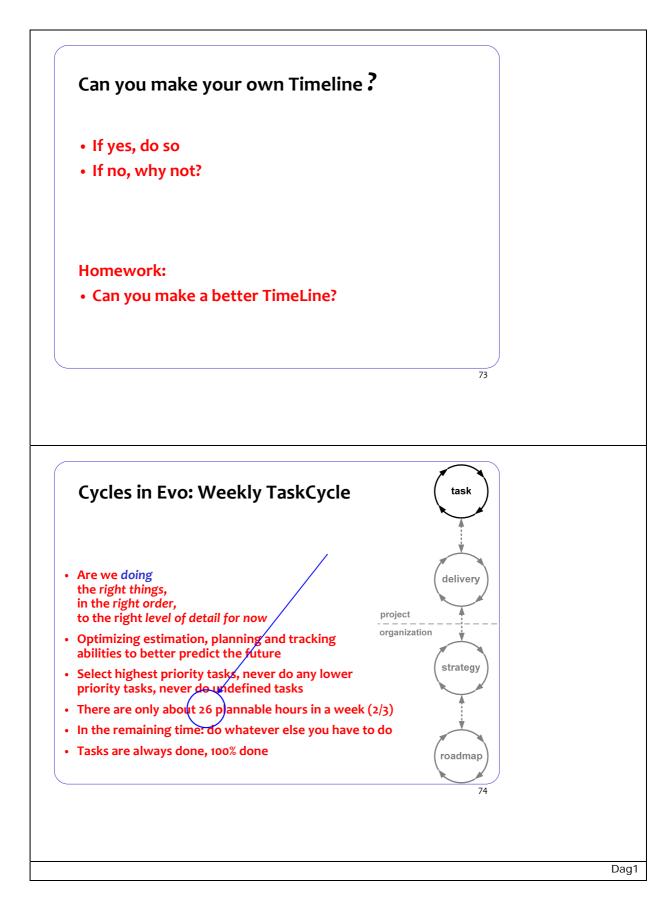
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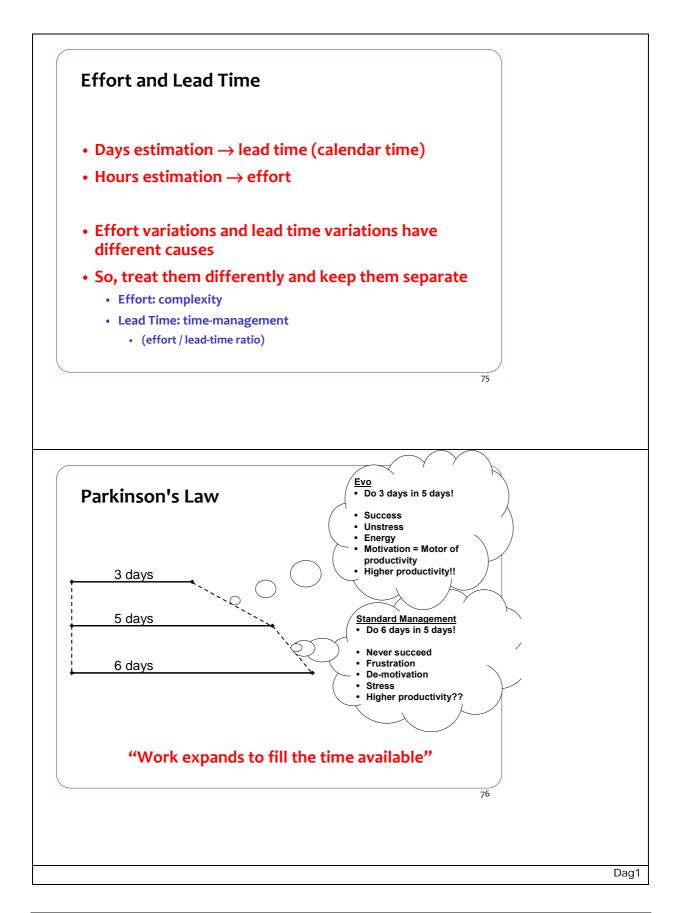


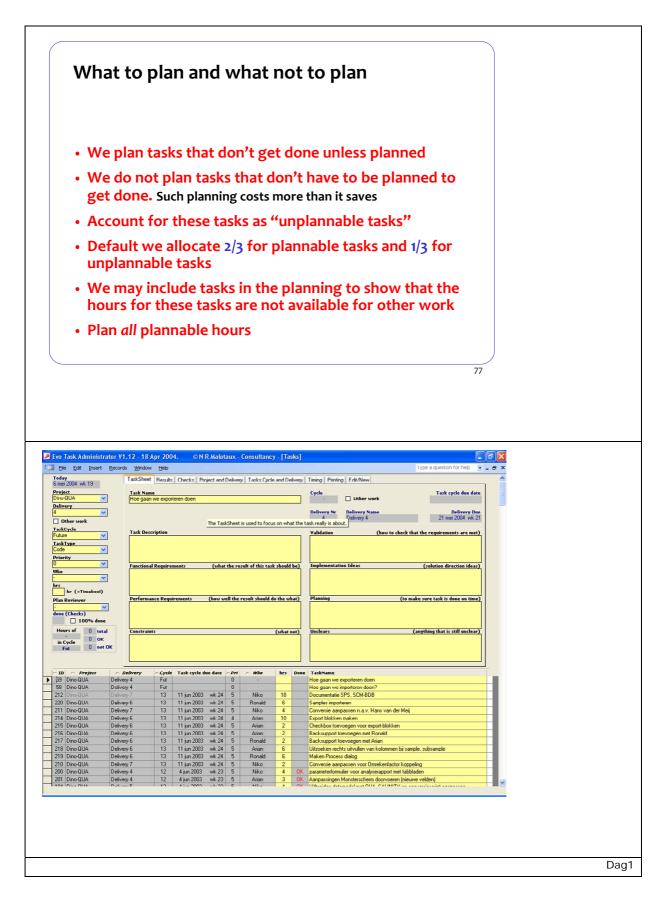
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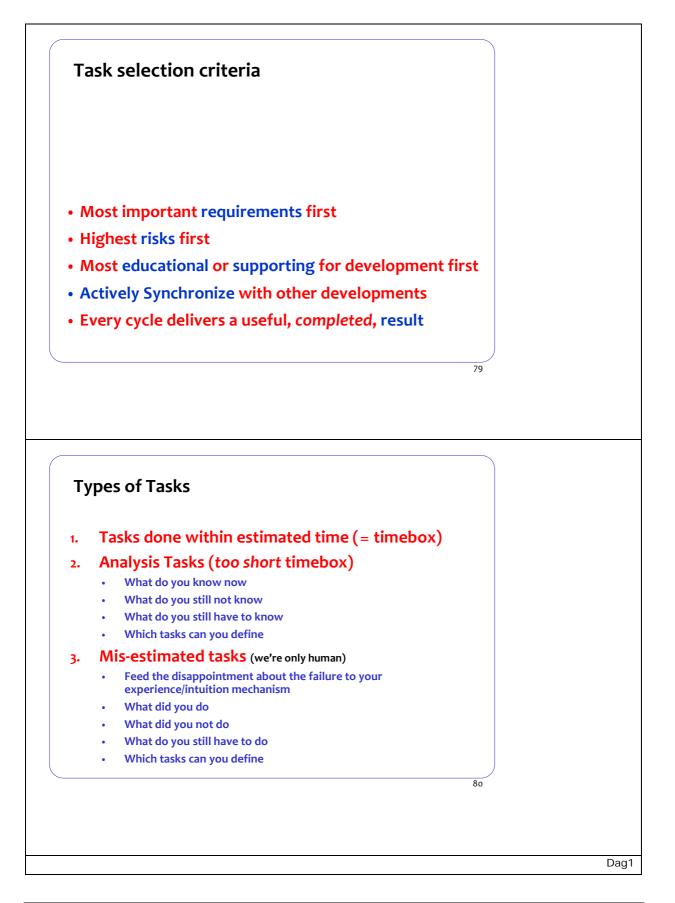
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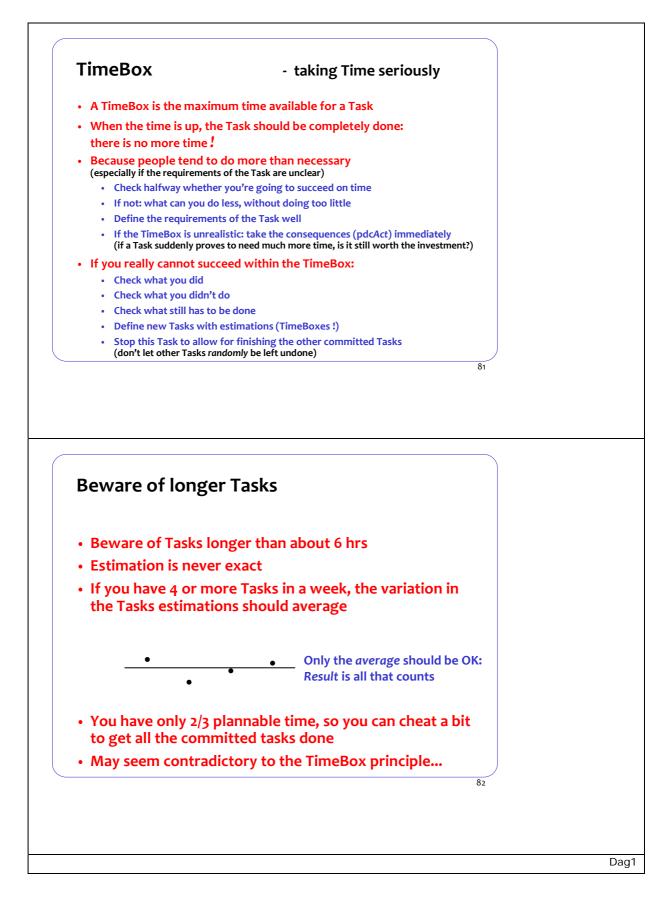




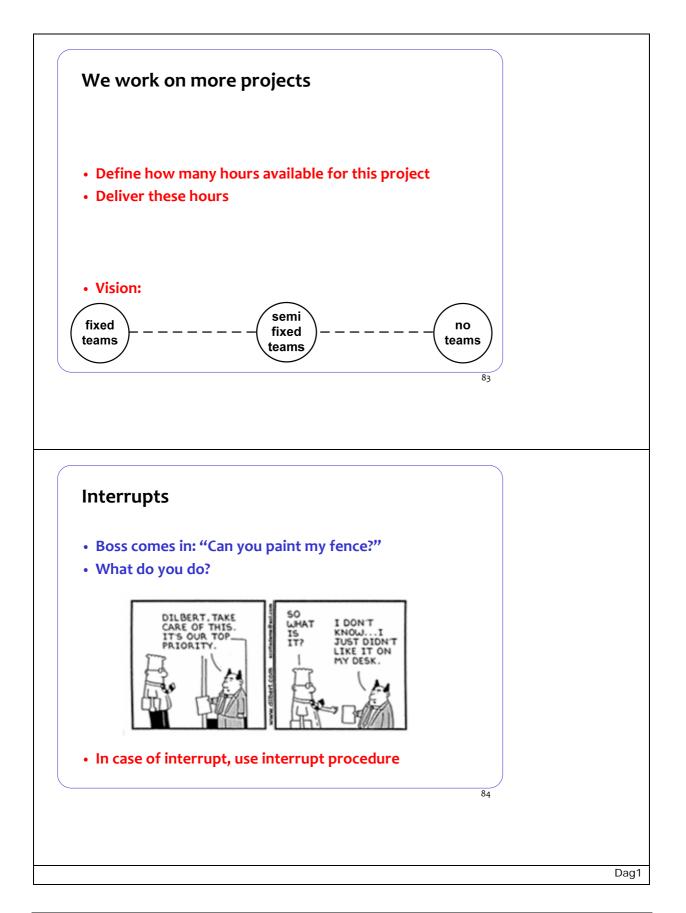
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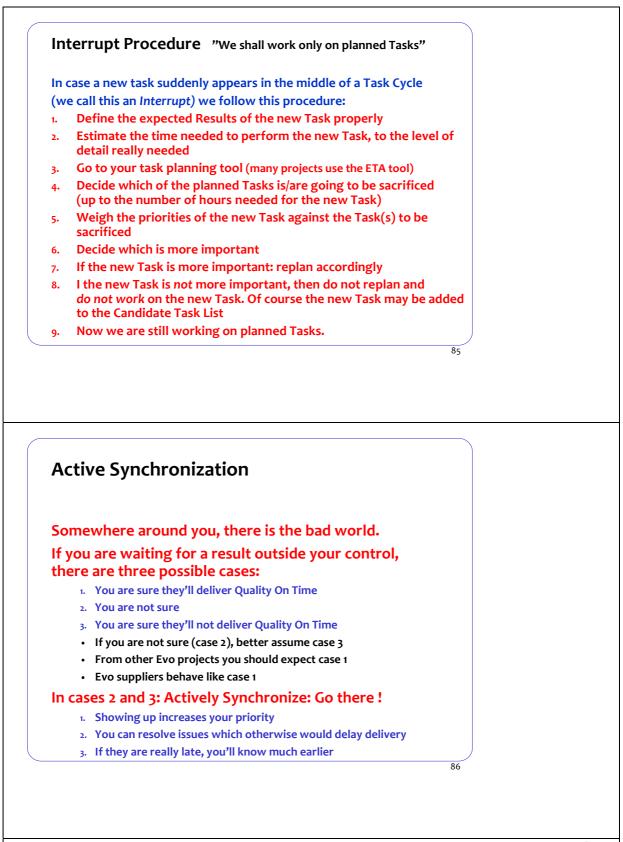
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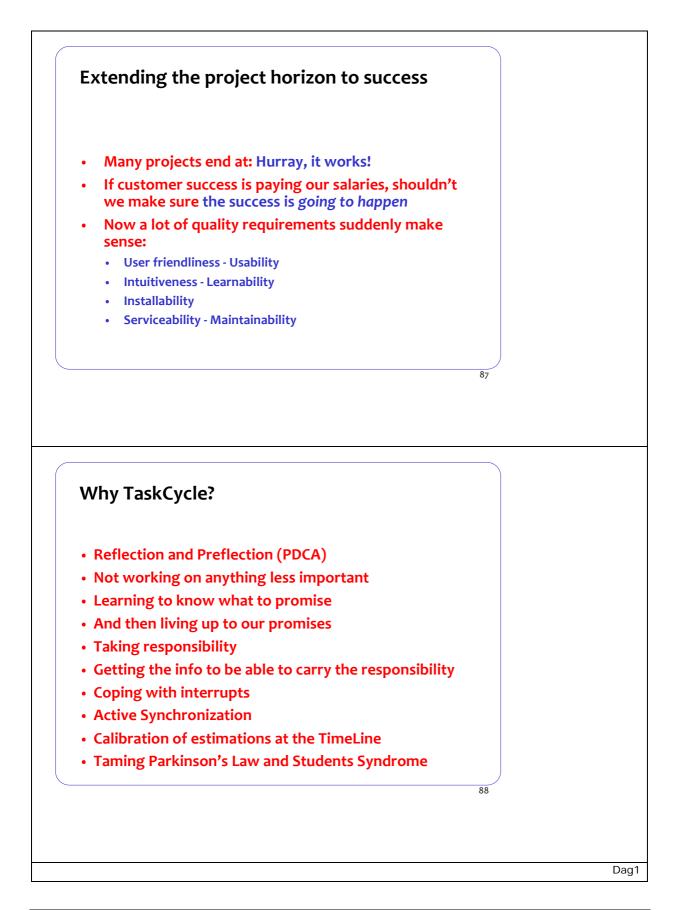
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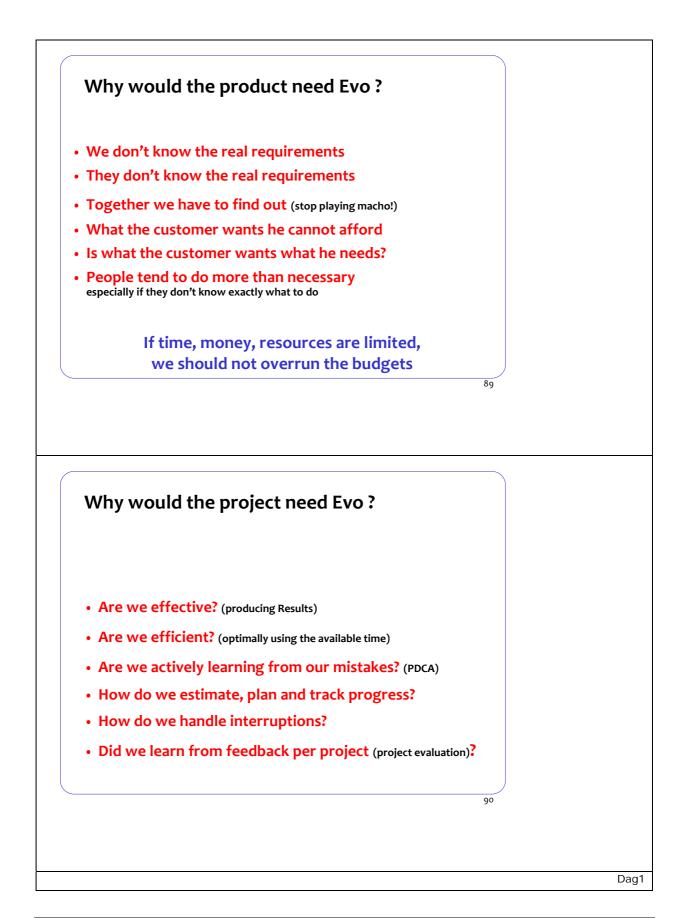




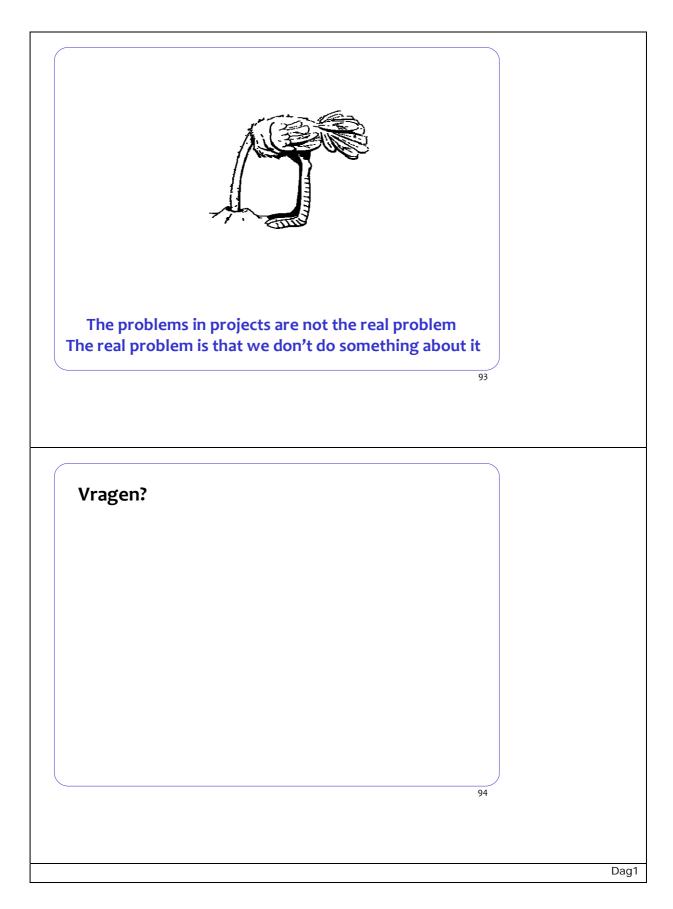
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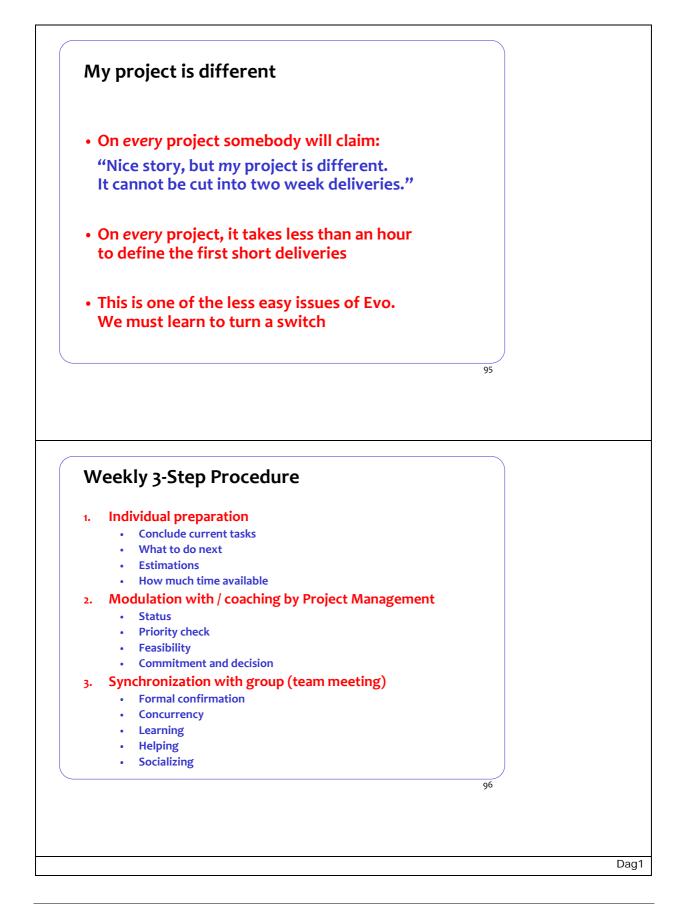
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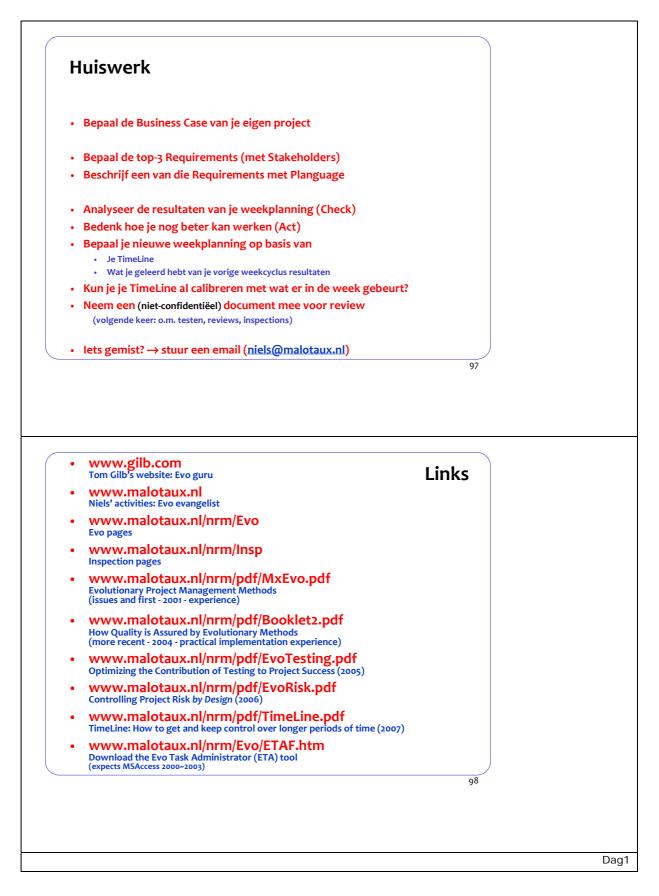










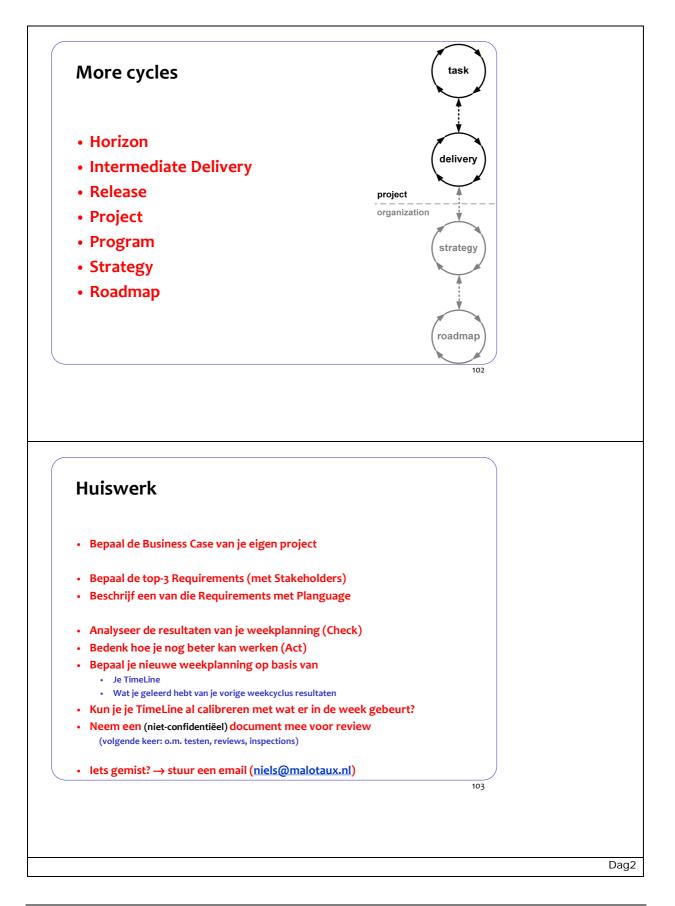


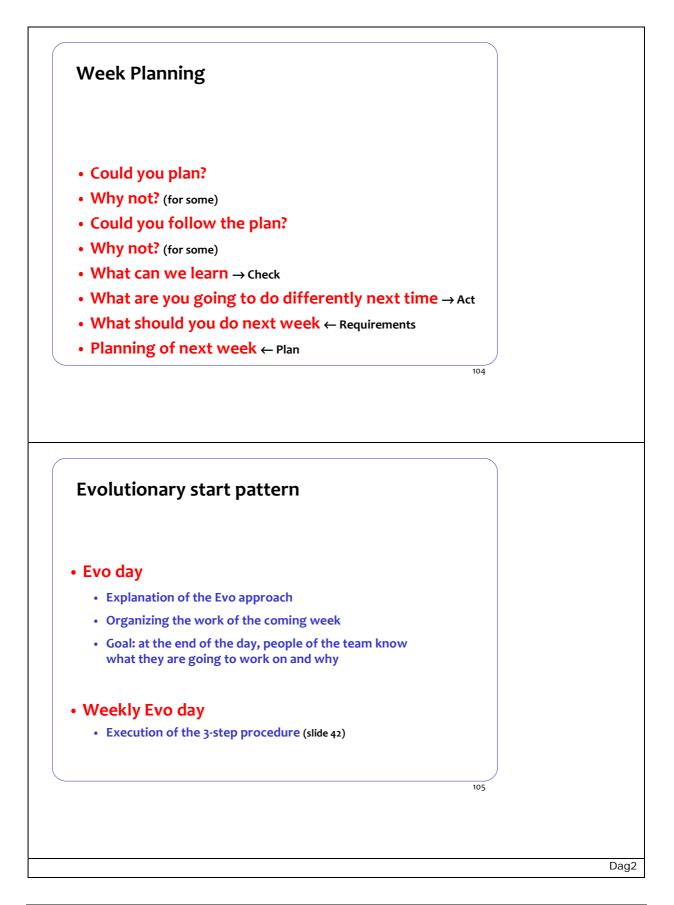
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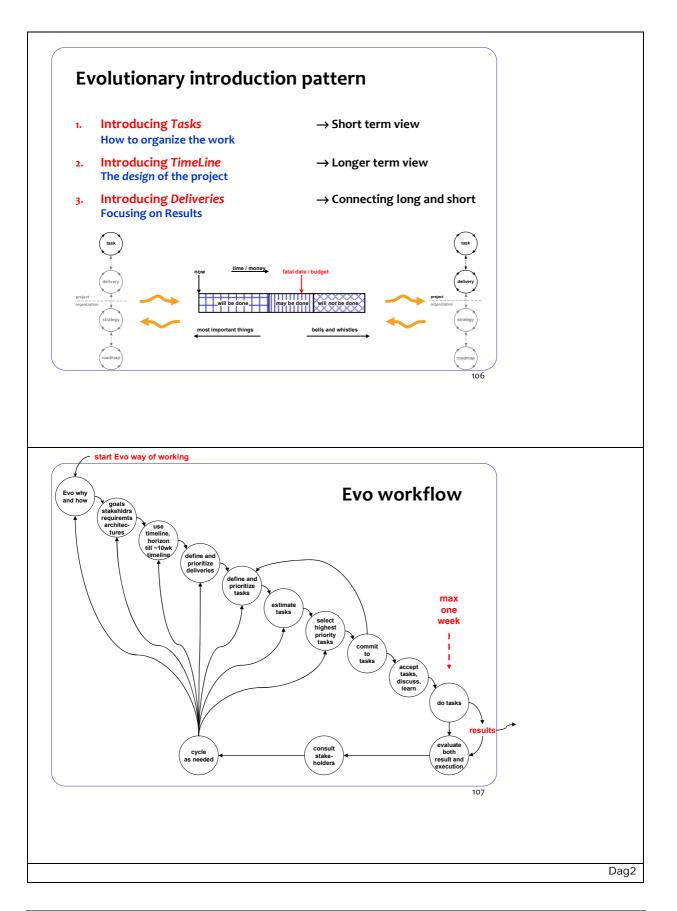
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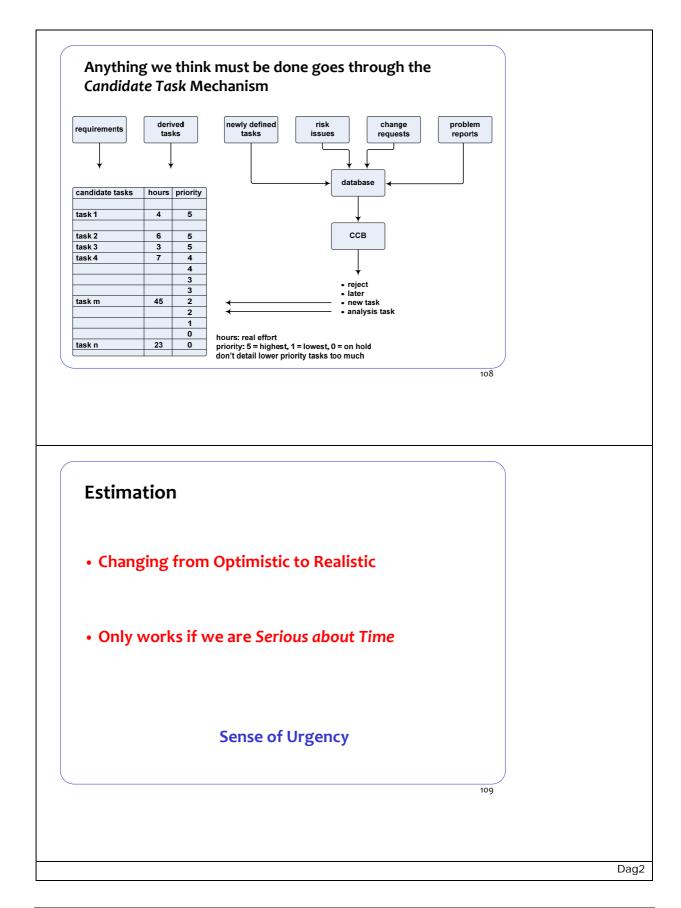
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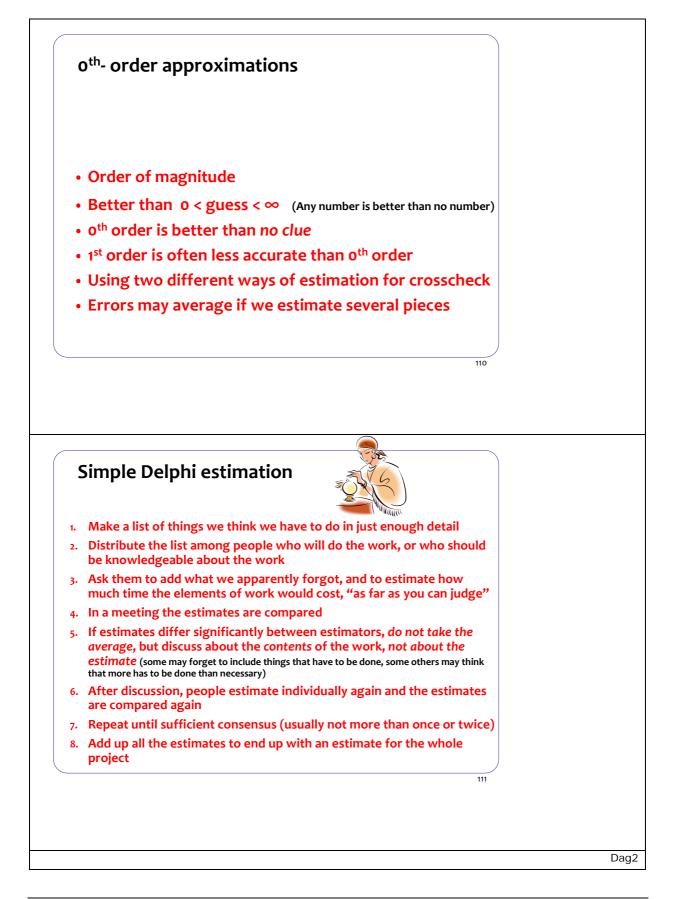
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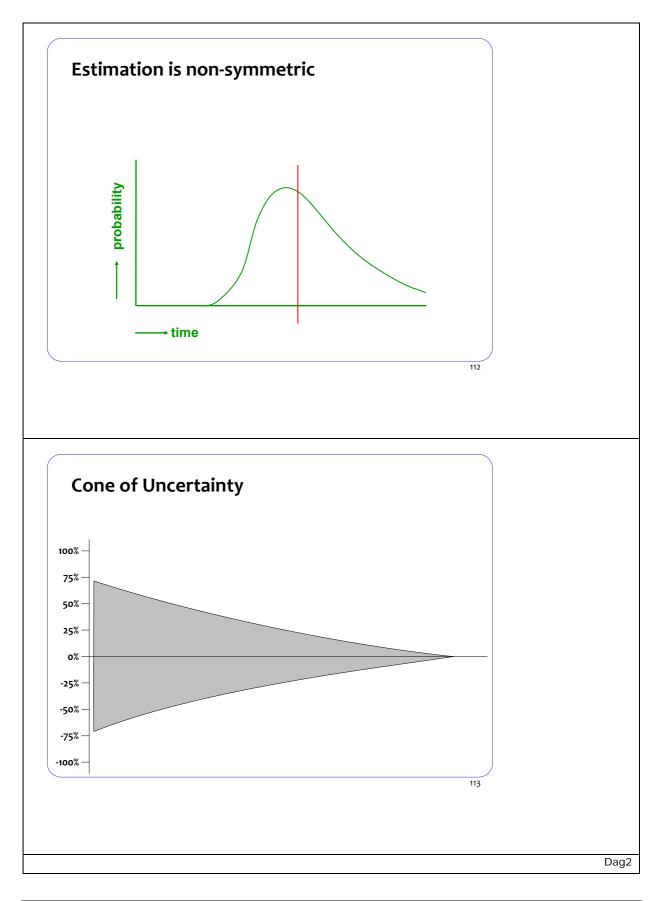






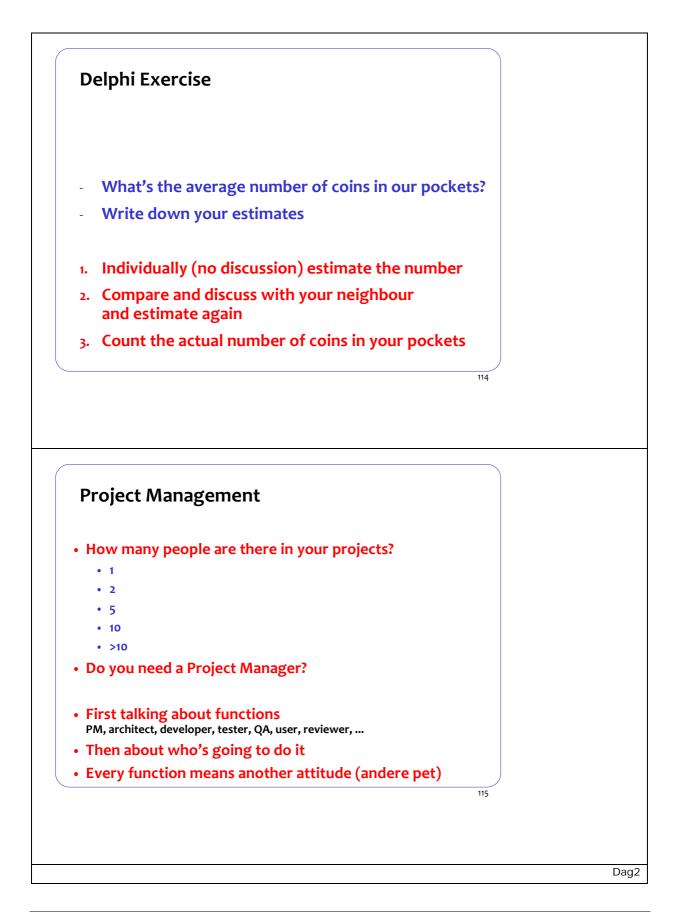


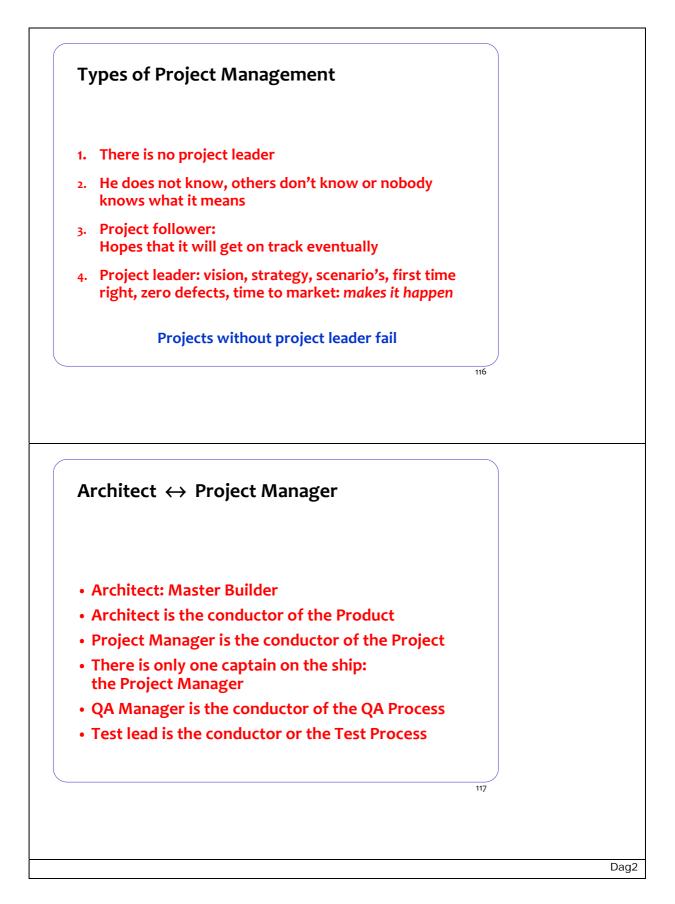


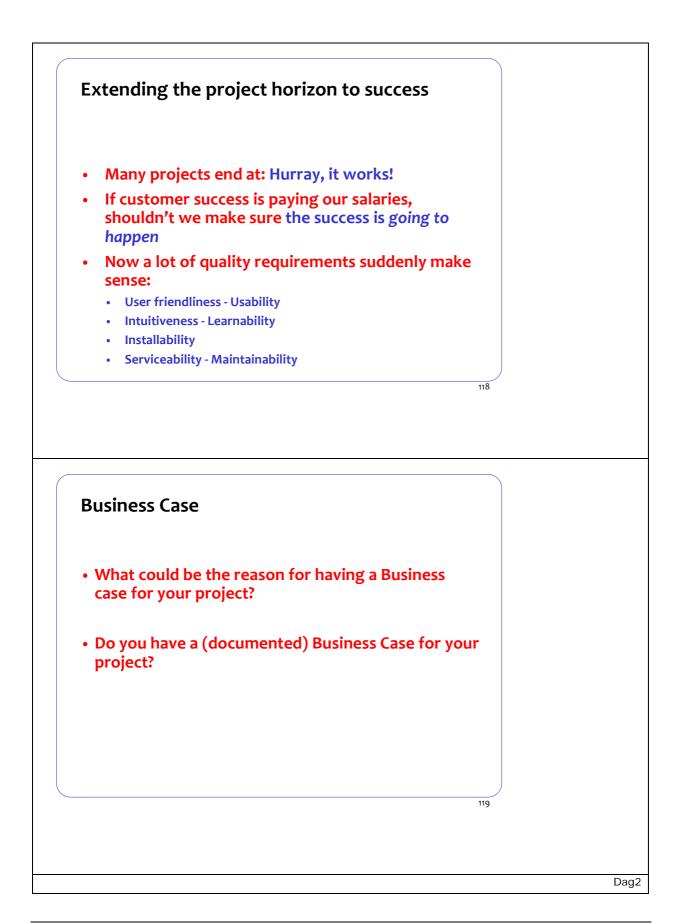


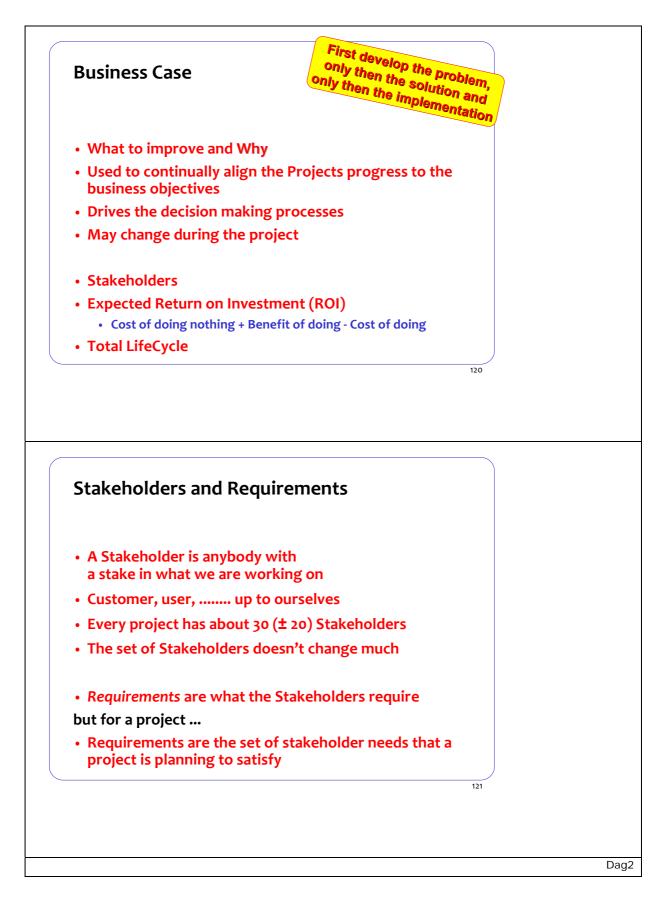
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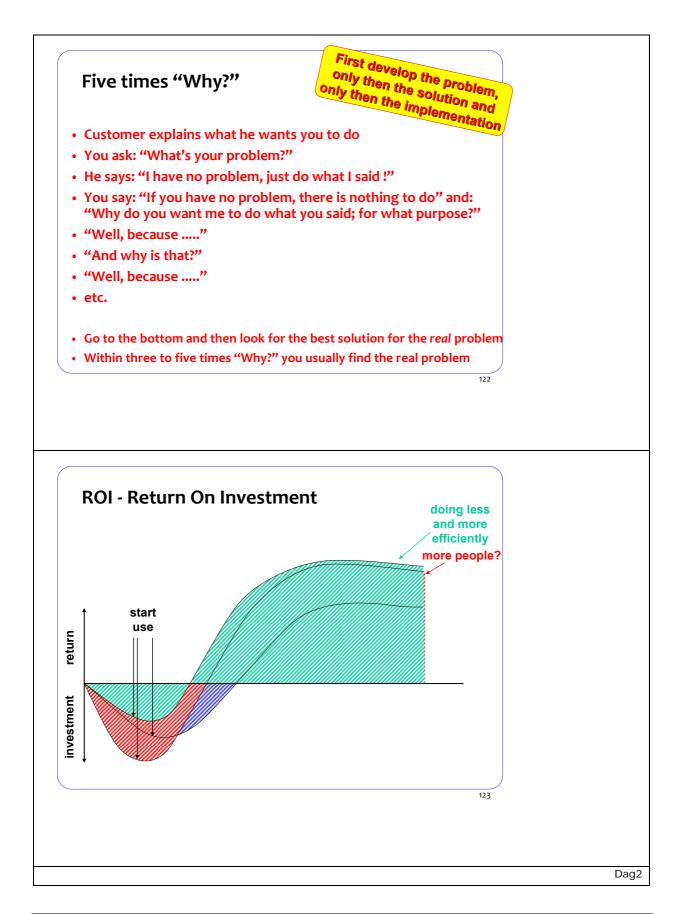
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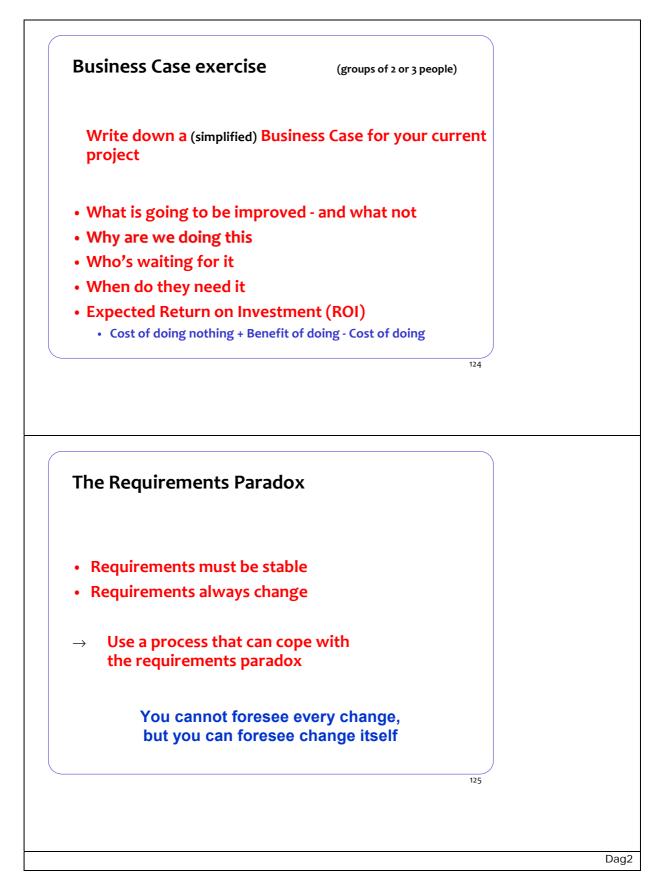




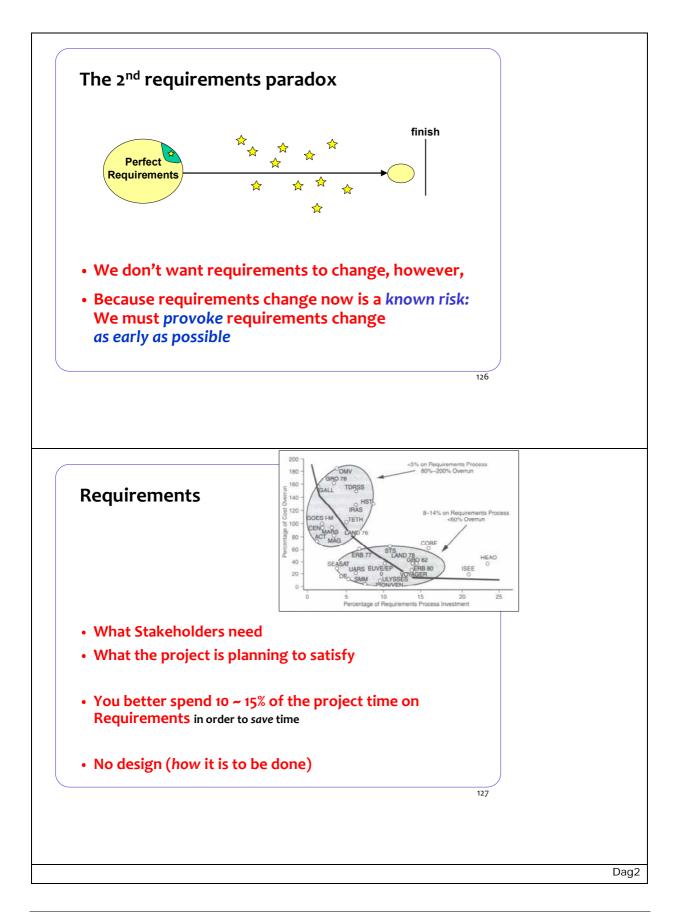


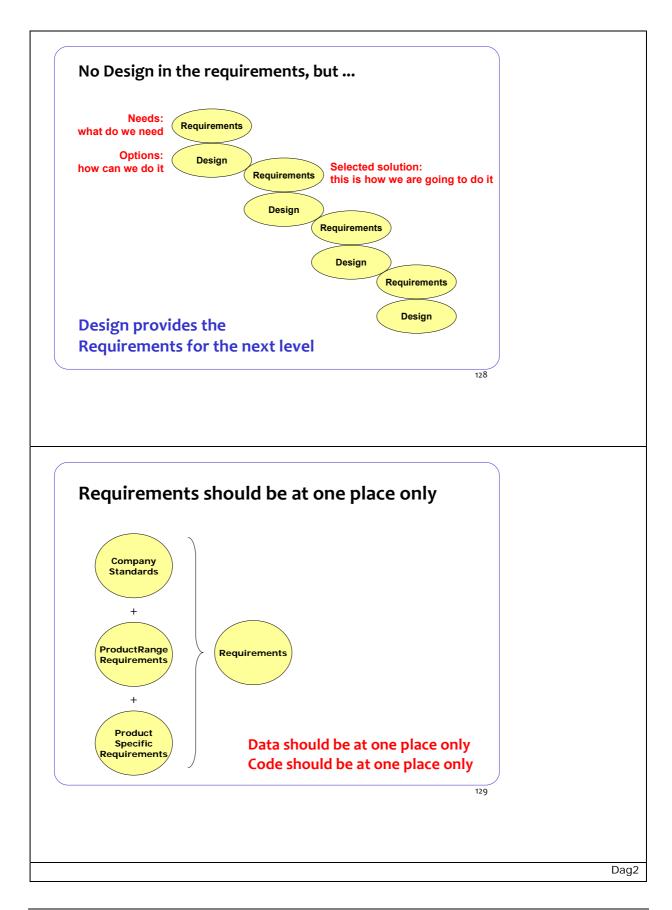






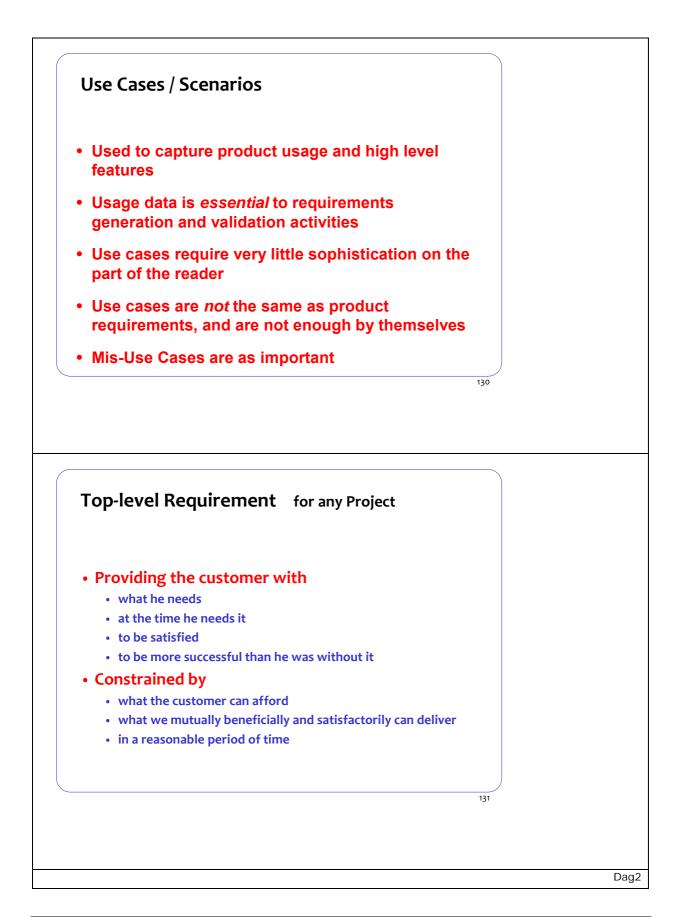
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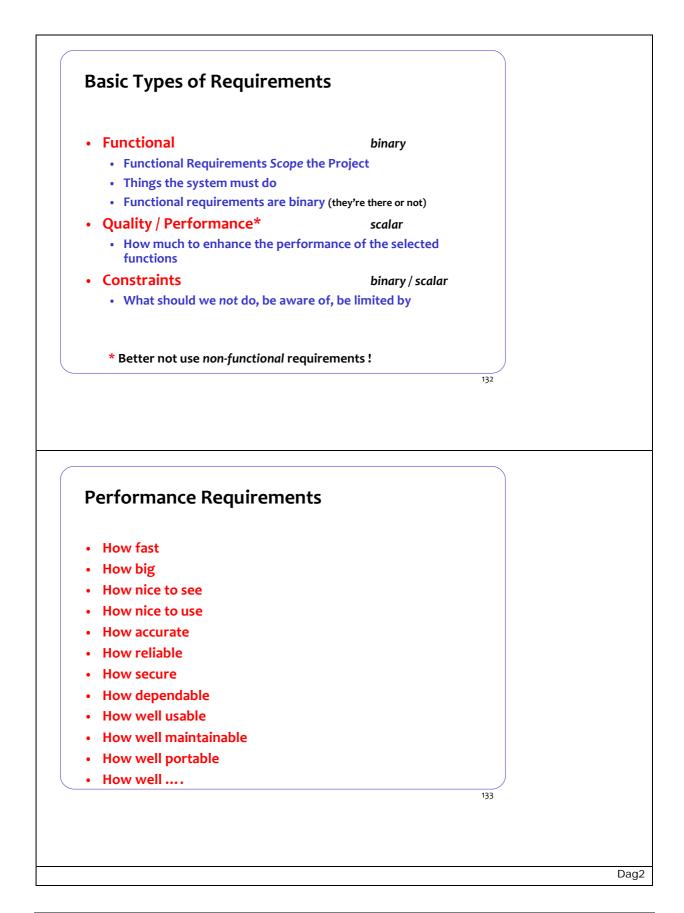


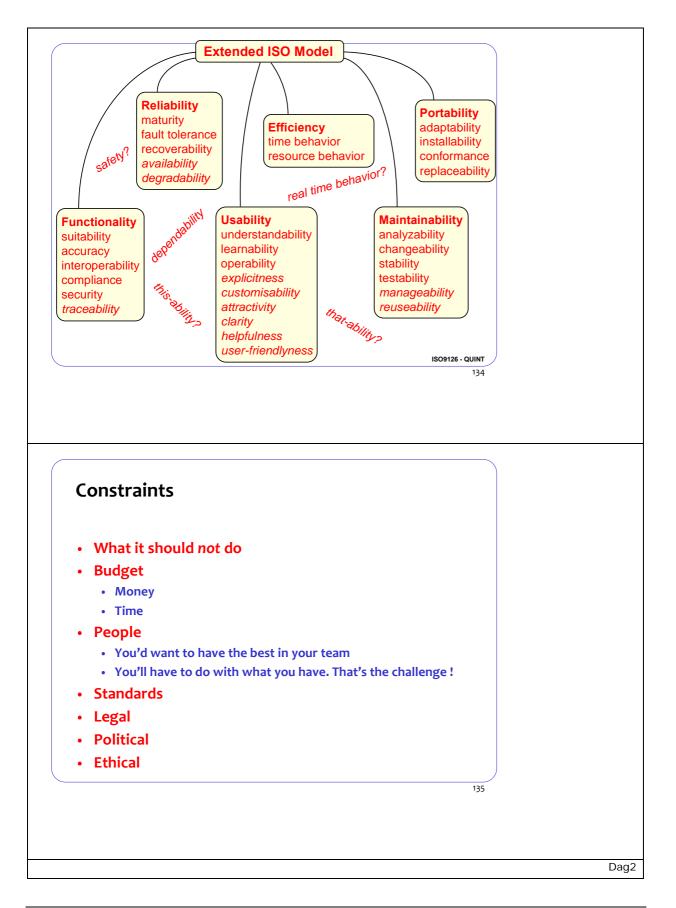


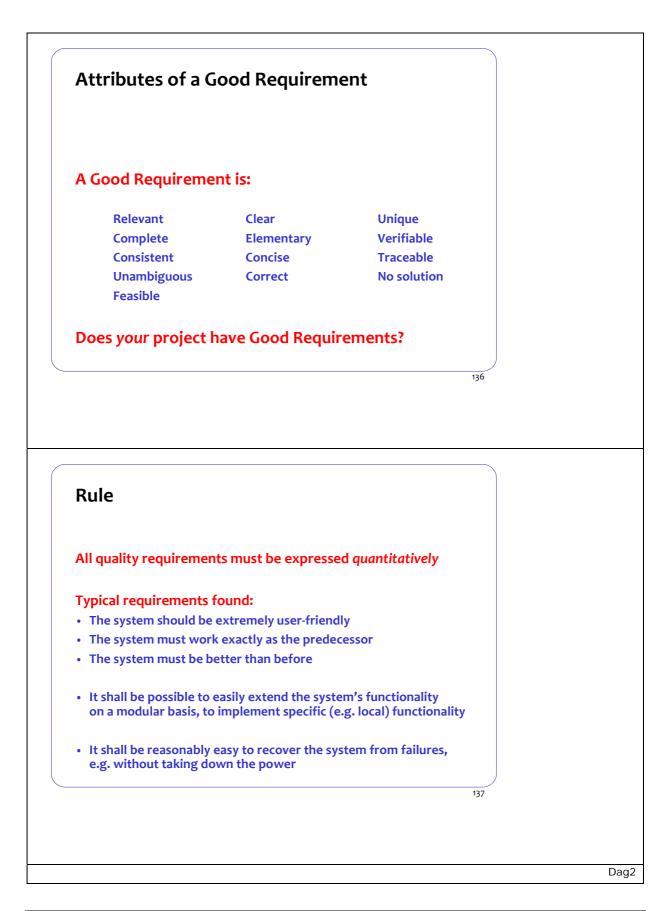
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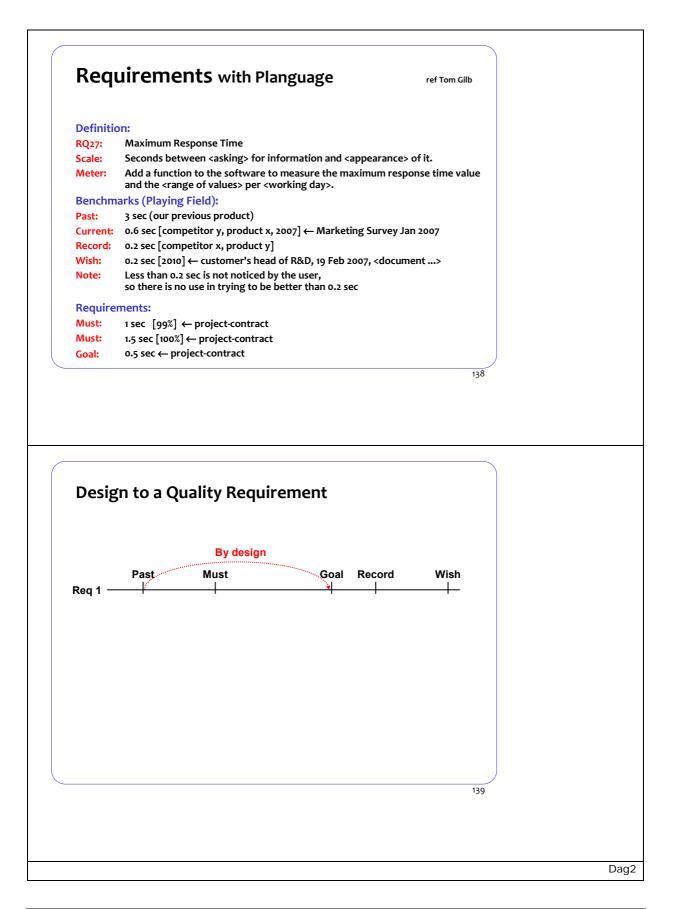
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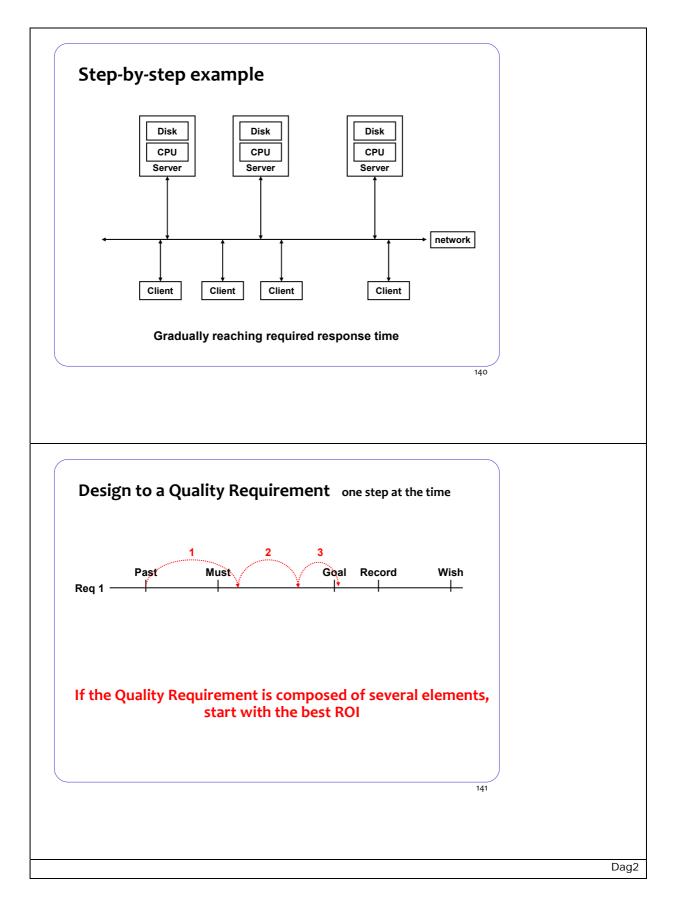


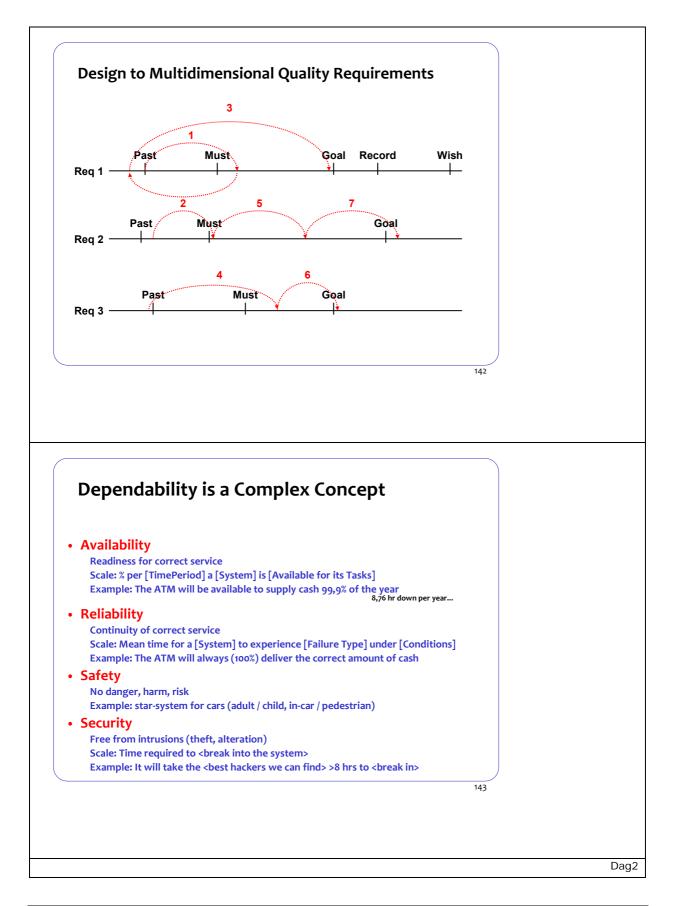


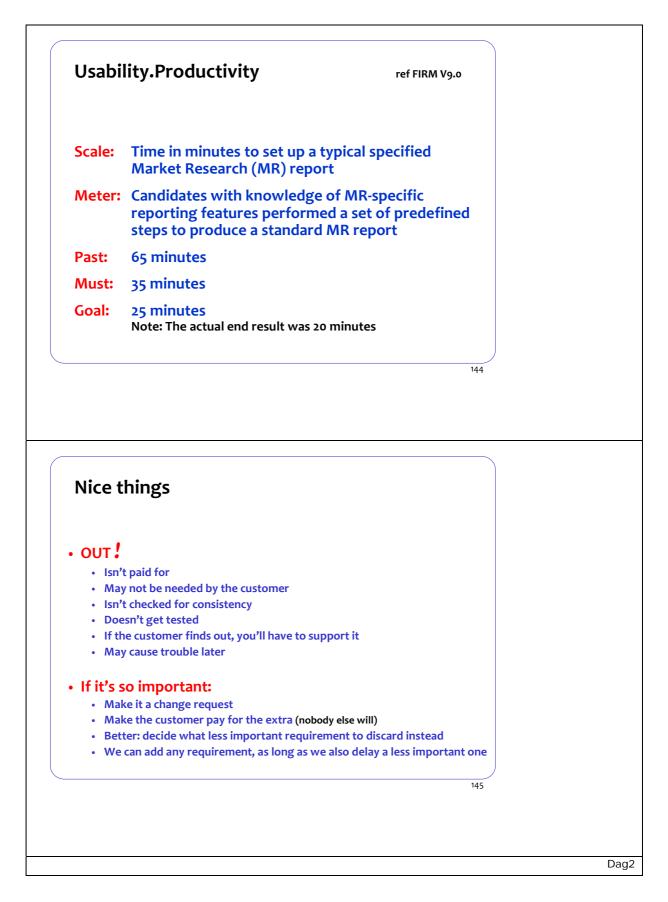


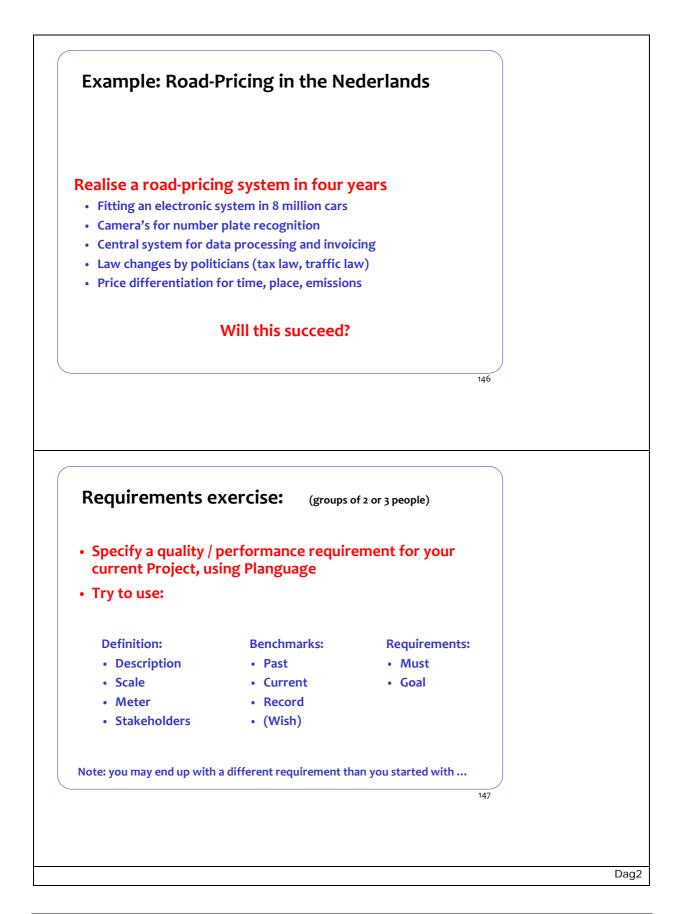


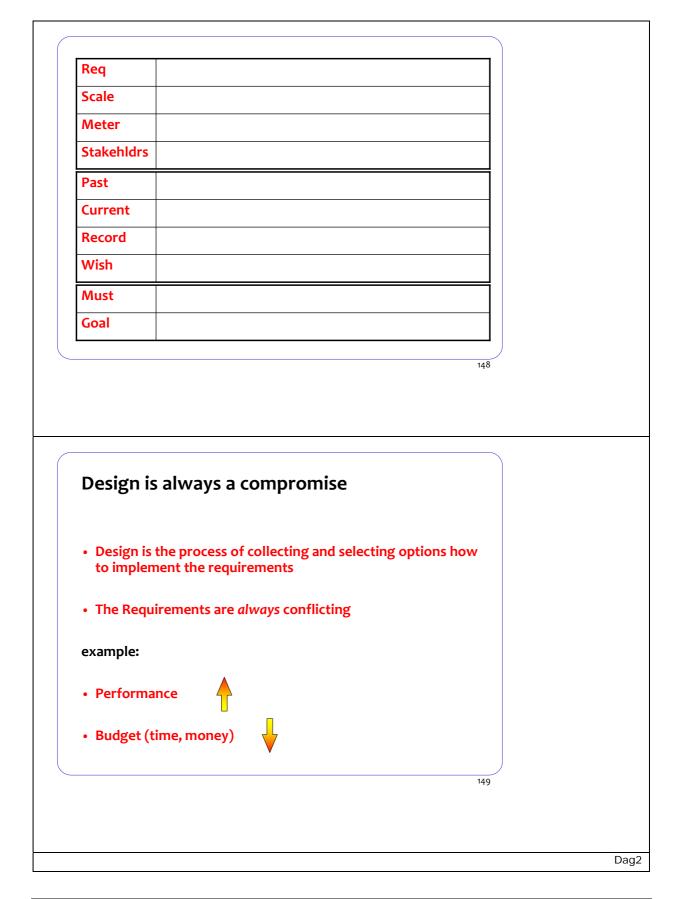












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- Collect obvious (voor de hand liggend) design(s)
- Search for one non-obvious design
- Compare the relative ROI of the designs
- Select the best compromise
- Describe the selected design

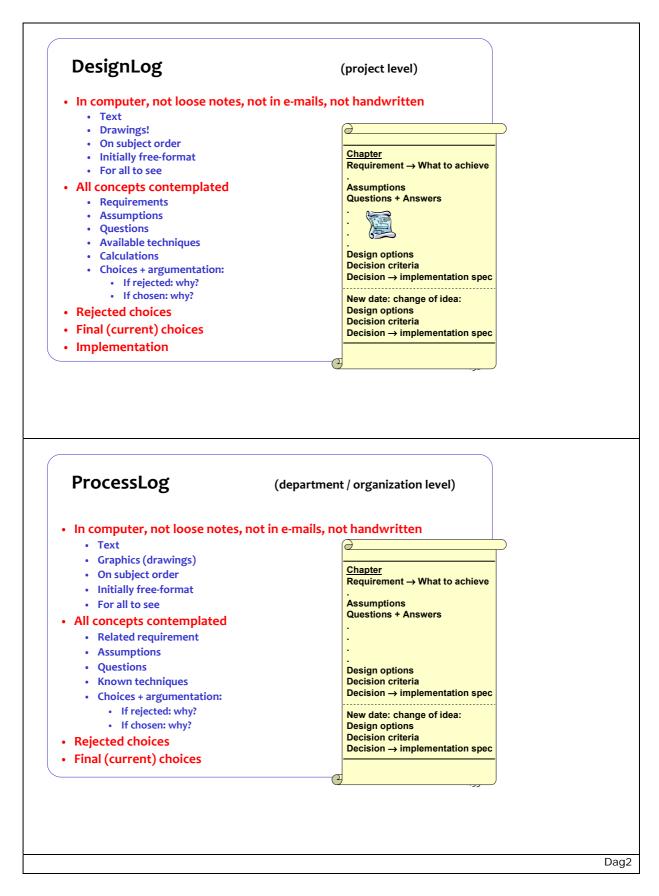
• Books:

- Ralph L. Keeyney: Value Focused Thinking
- Gerd Gigerenzer: Simple Heuristics That Make Us Smart

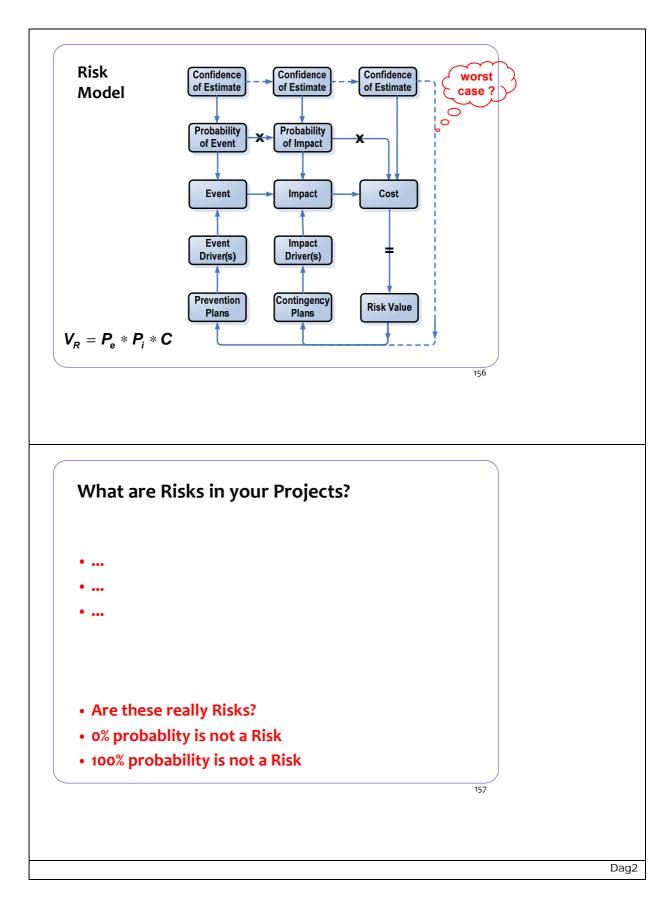
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Impact		On-line Support	On-line Help	Picture Handbook	On-line Help + Access Index
Estimation	Learning 60 minutes <-> 10 r	minutes			
	Scale Impact	5 min.	10 min.	30 min.	8 min.
	Scale Uncertainty	±3 min.	±5 min.	± 10 min.	±5 min.
	Percentage Impact	110%	100%	60%	104%
	Percentage Uncertainty	±6% (3 of 50 minutes)	$\pm 10\%$	±20%?	±10%
	Evidence	Project Ajax: 7 minutes	Other Systems	Guess	Other Systems + Guess
	Source	Ajax Report, p.6	World Report, p.17	John B	World Report, p.17 + John B
	Credibility	0.7	8.0	0.2	0.6
	Development Cost	120 K	25 K	10 K	26 K
	Performance to Cost Ratio	110/120 = 0.92	100/25 = 4.0	60/10 = 6.0	104/26 = 4.0
ref Tom Gilb Competitive Engineering	Credibility-adjusted Performance to Cost Ratio (to 1 decimal place)	0.92*0.7=0.6	4.0°0.8=3.2	6.0°0.2 = 1.2	4.0%0.6 = 2.4
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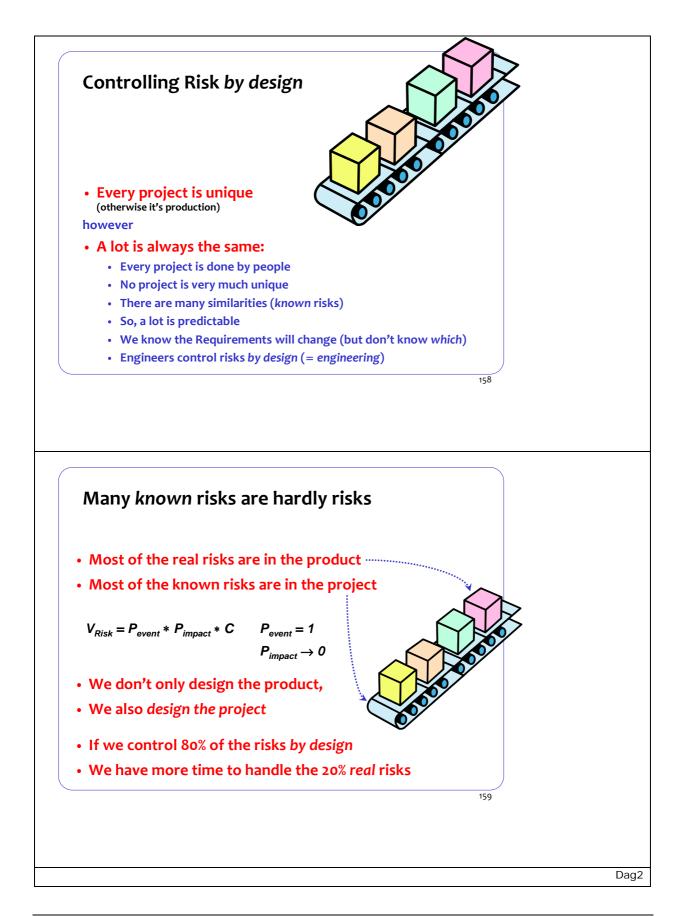
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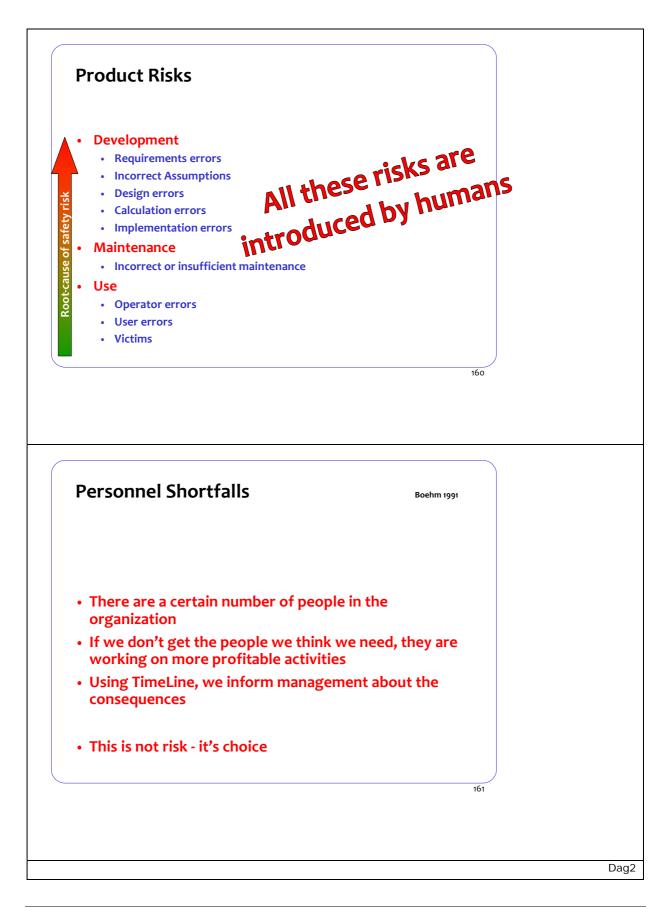


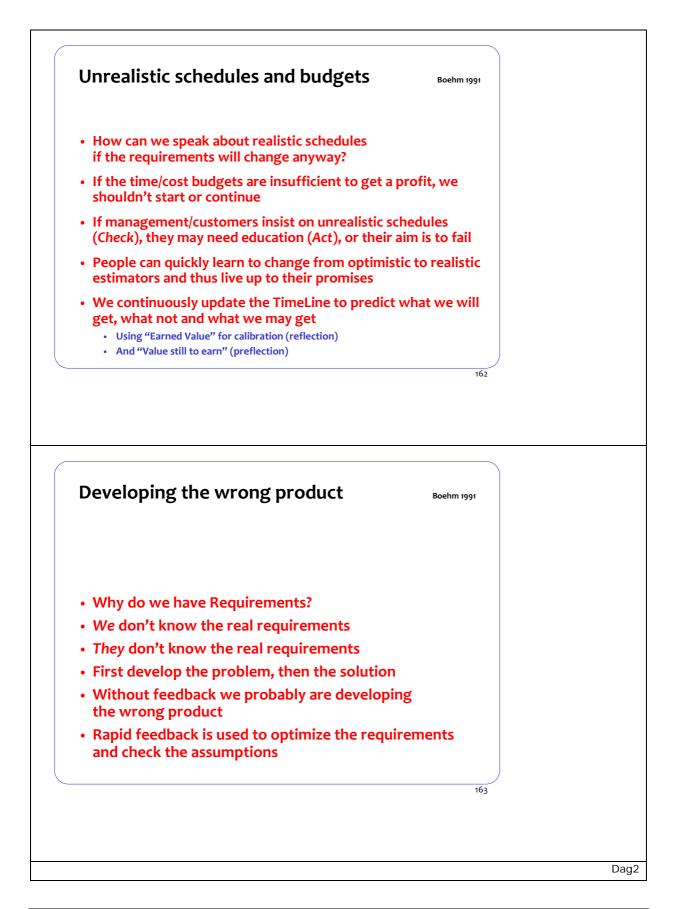
An uncertain event or condition that,		
if it occurs,		
has a negative effect		
on a project's objectives	(РМВОК)	
	(TIMBOR)	
> 0% probability is not a risk		
> 100% probability is an issue or a problem		
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Defect and Risk		
Defect and Risk		
If a Defect is:		
If a Defect is: a cause of a problem experienced by a stak		
If a Defect is: a cause of a problem experienced by a stak of the system, ultimately by the customer		
If a Defect is: a cause of a problem experienced by a stak of the system, ultimately by the customer then		
If a Defect is: a cause of a problem experienced by a stak of the system, ultimately by the customer then • Not satisfying the Goal is a defect		
If a Defect is: a cause of a problem experienced by a stak of the system, ultimately by the customer then • Not satisfying the Goal is a defect • Being late may be a defect		
If a Defect is: a cause of a problem experienced by a stak of the system, ultimately by the customer then • Not satisfying the Goal is a defect • Being late may be a defect • Being over budget may be a defect		

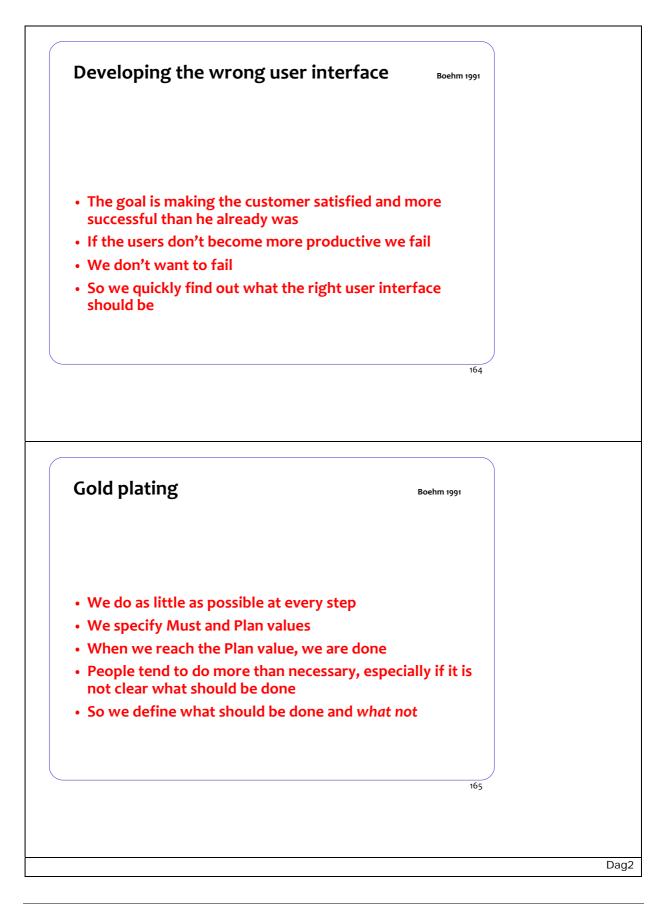


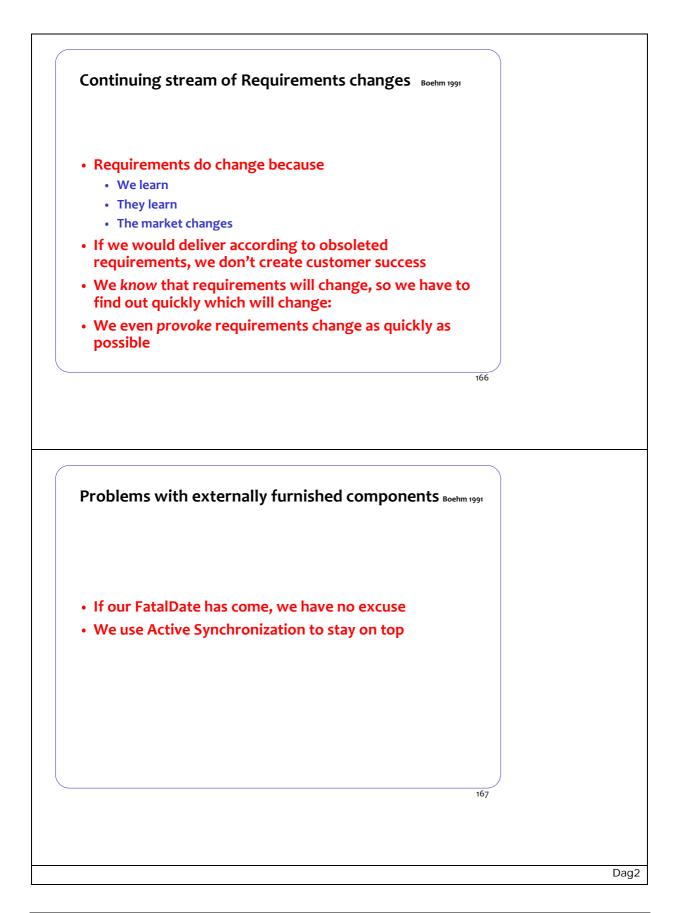
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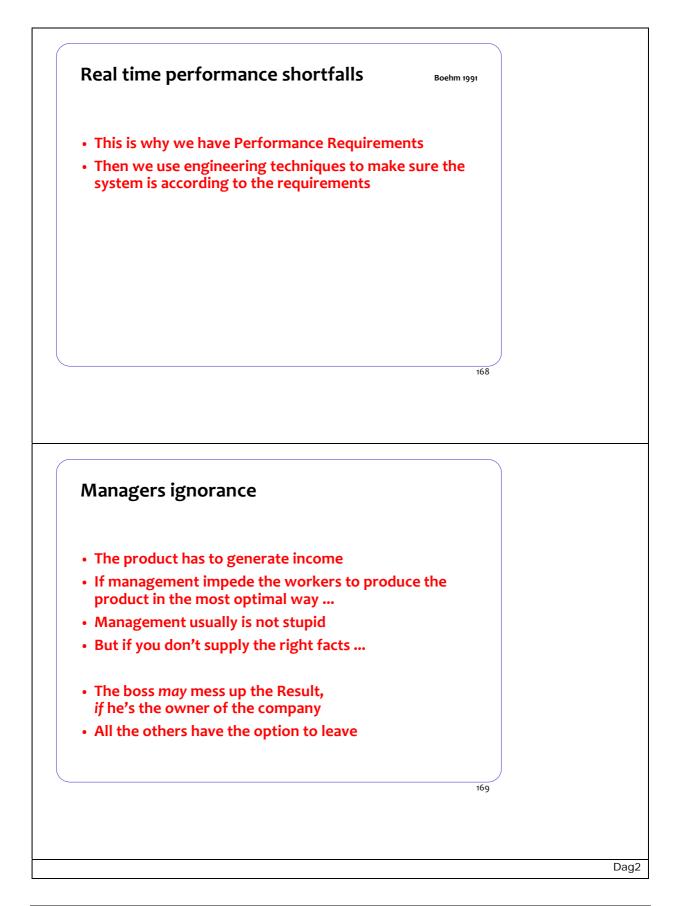


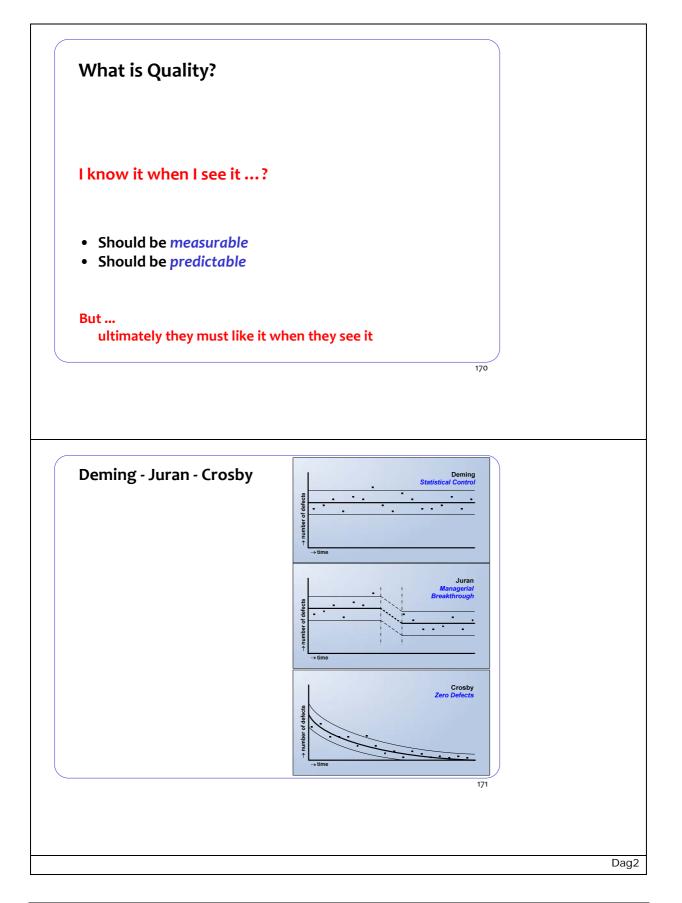


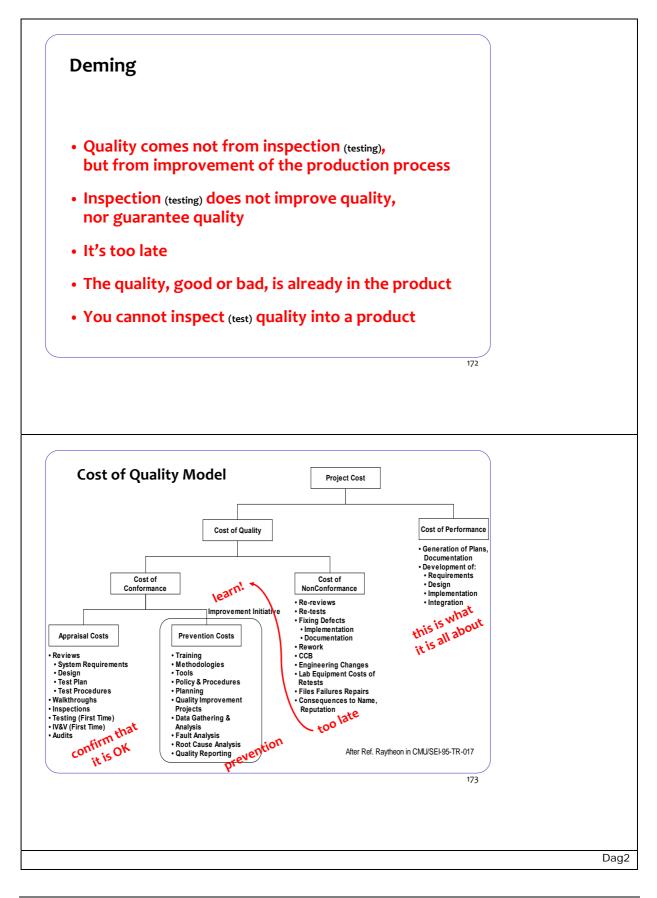






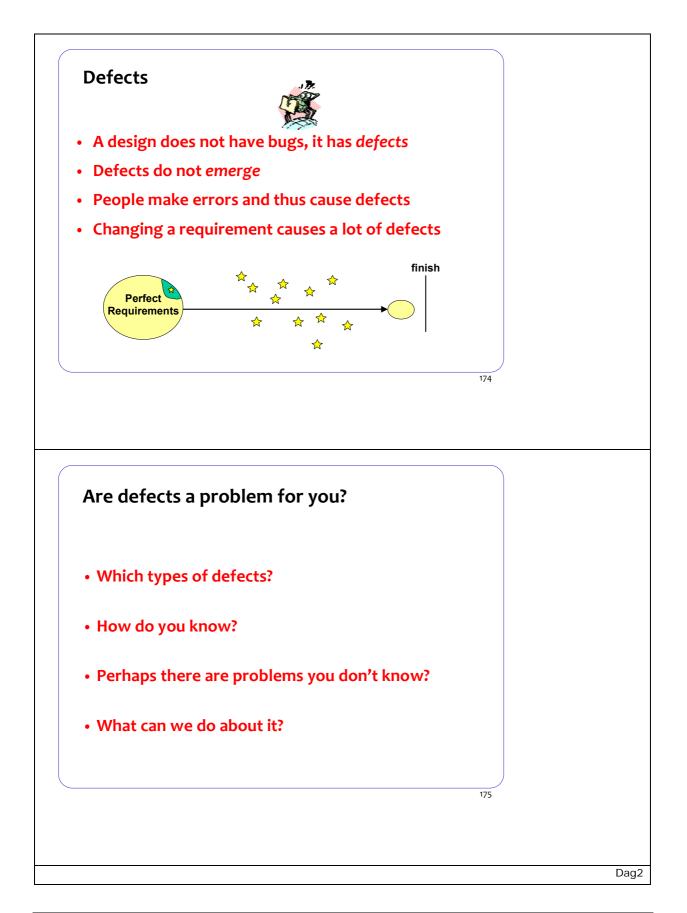


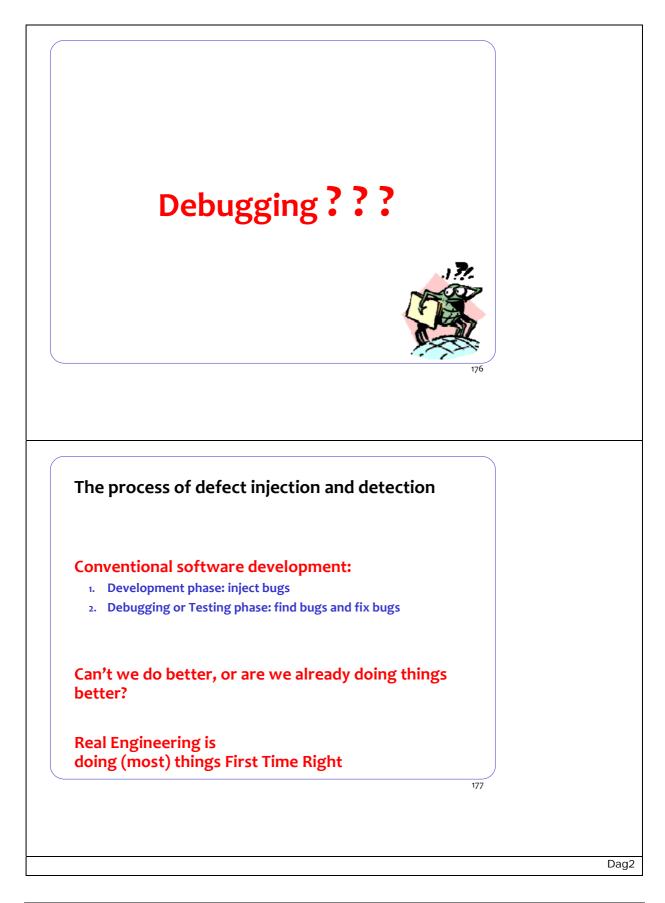


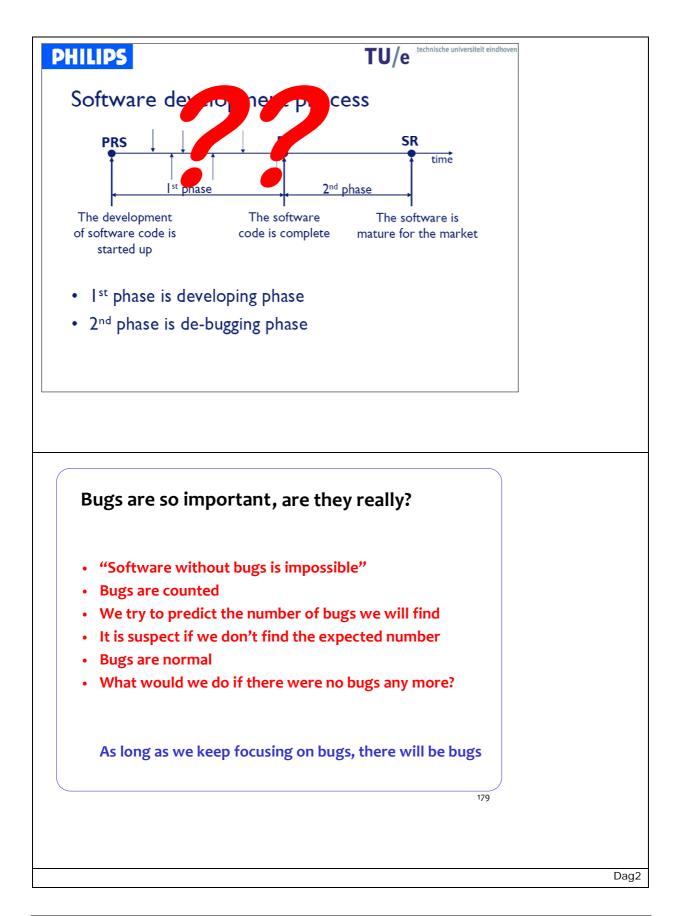


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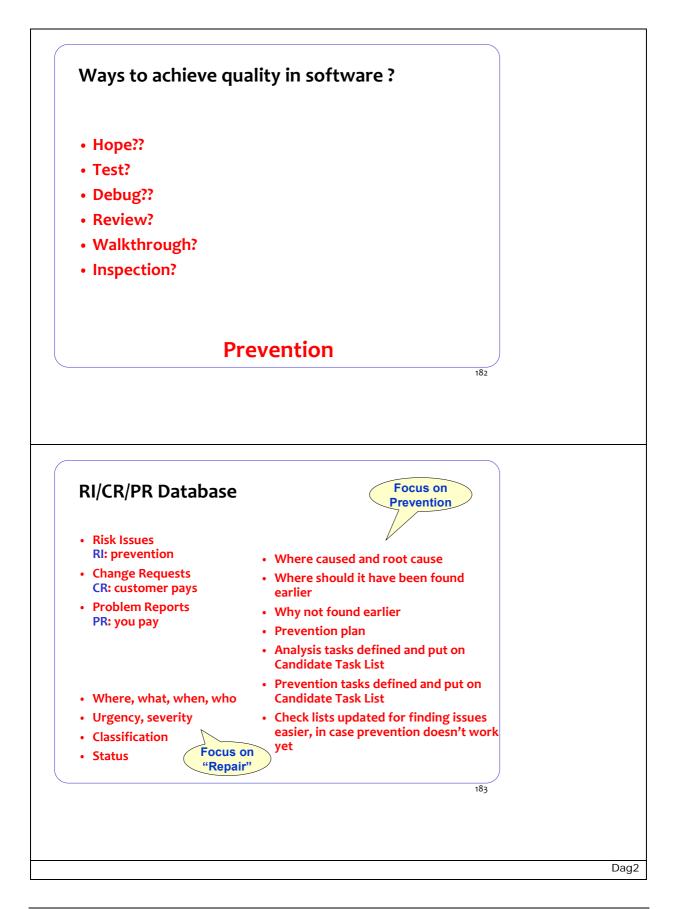


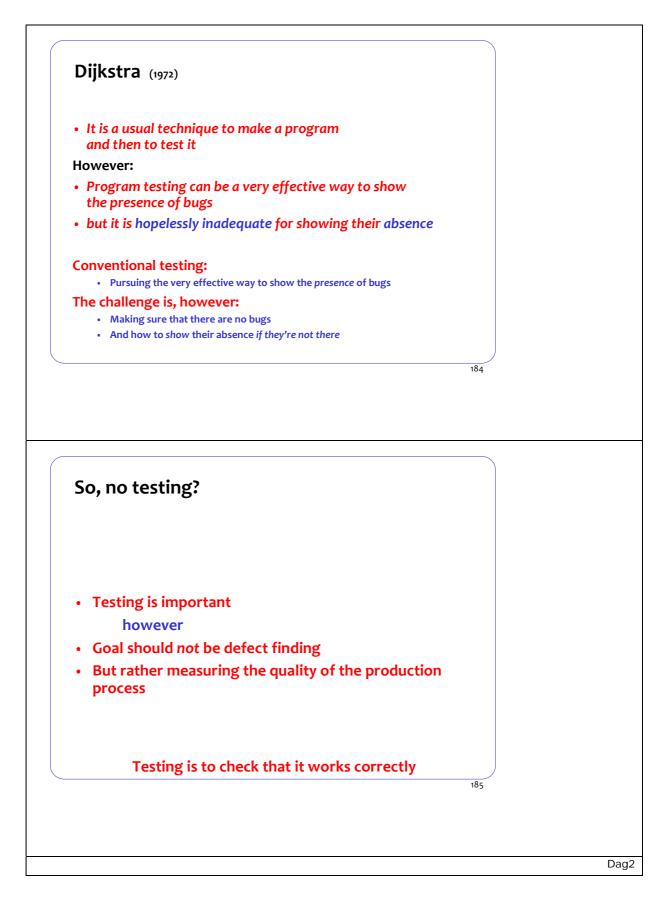


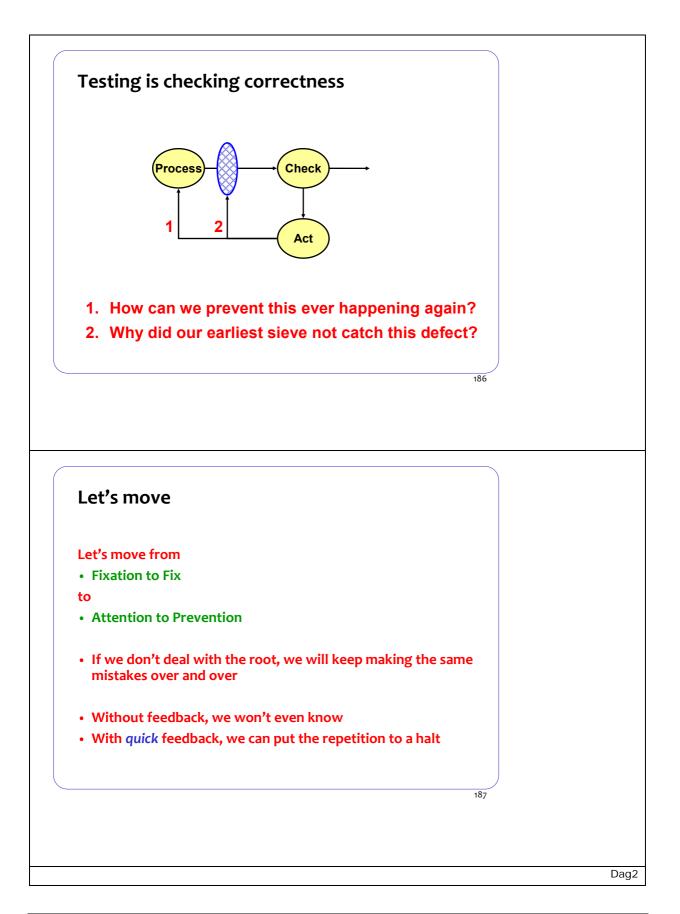


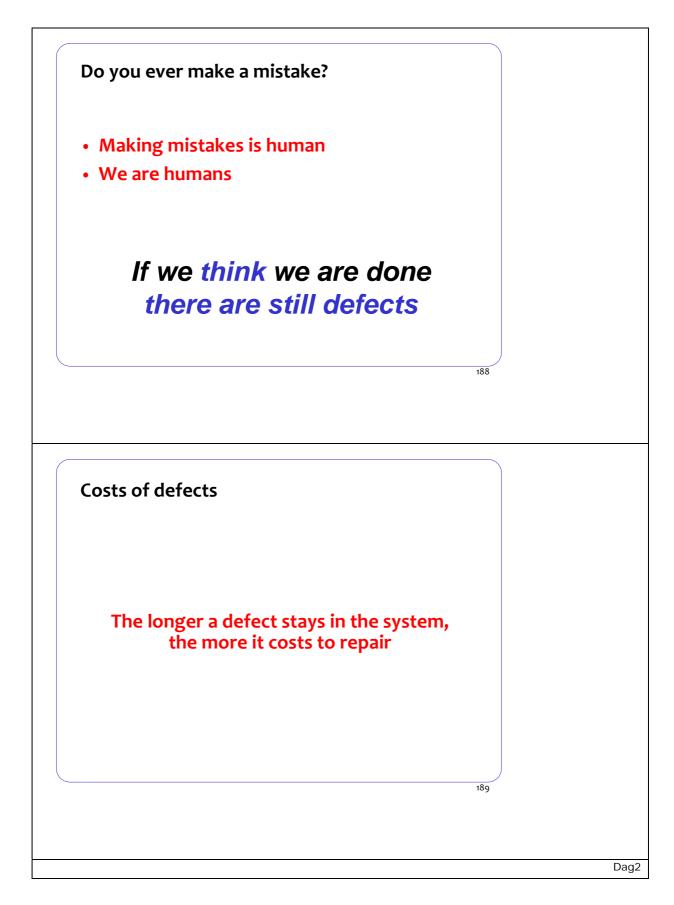
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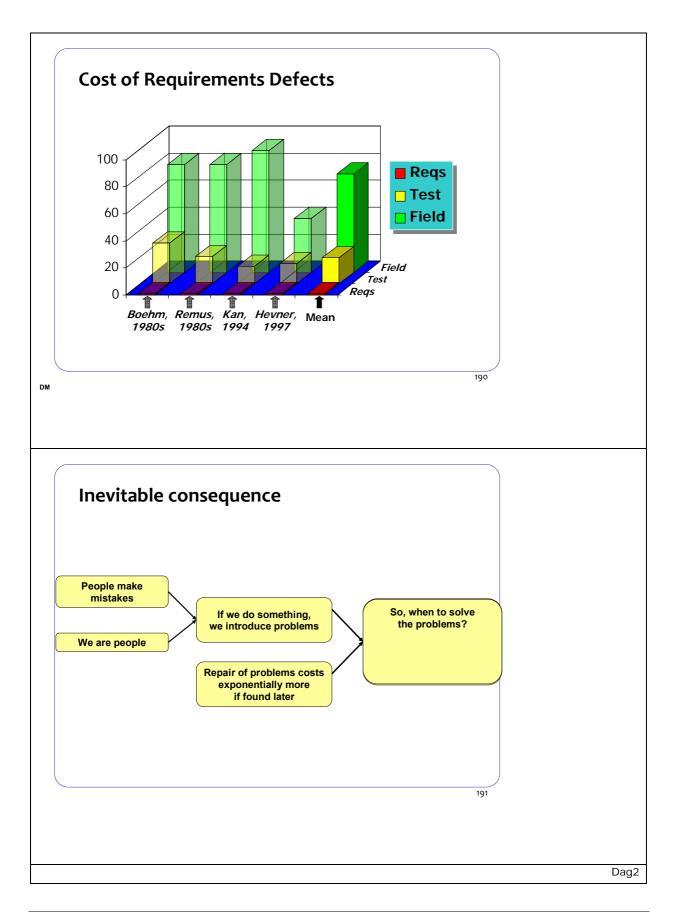
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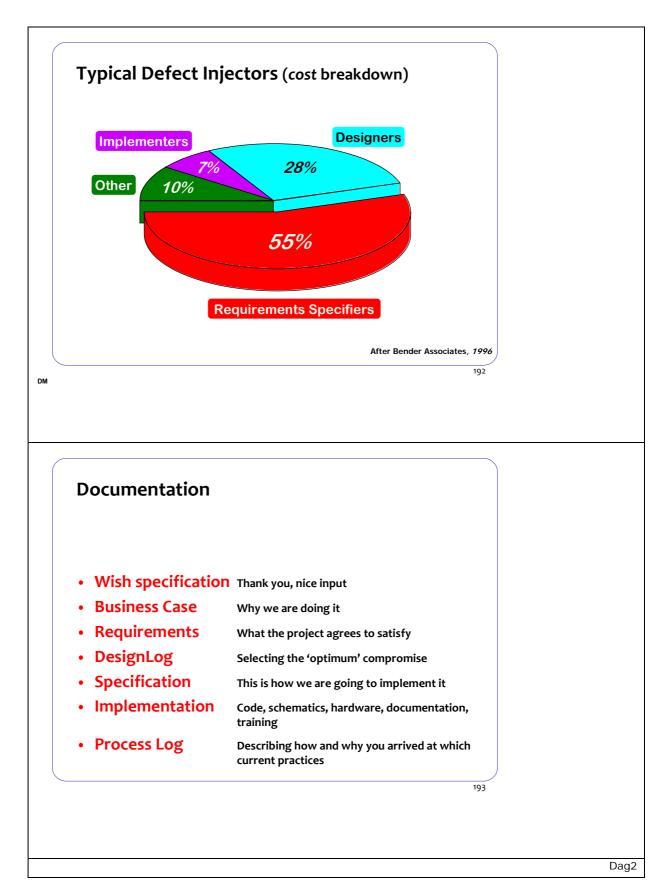


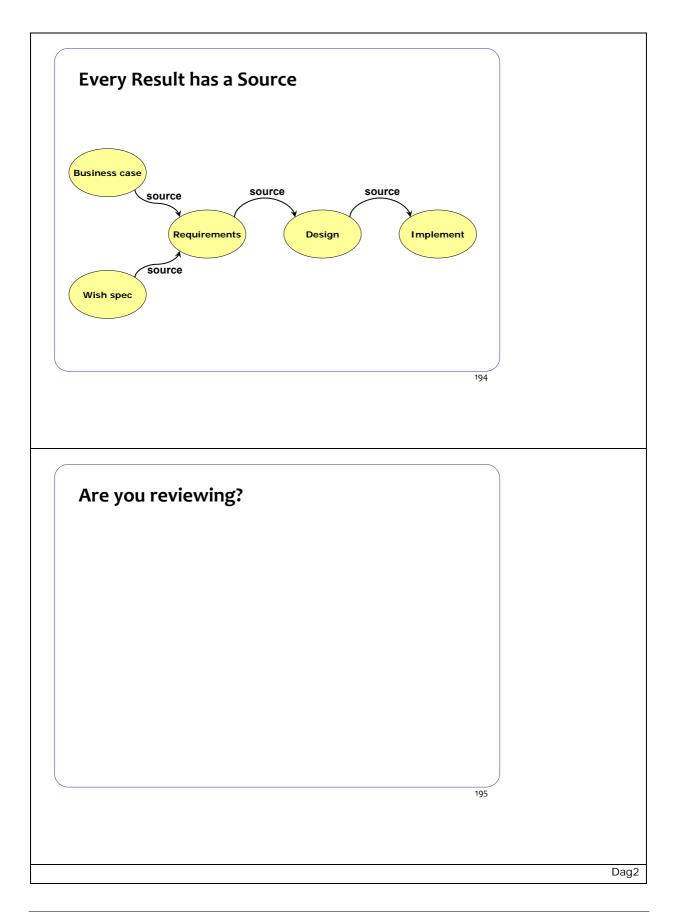


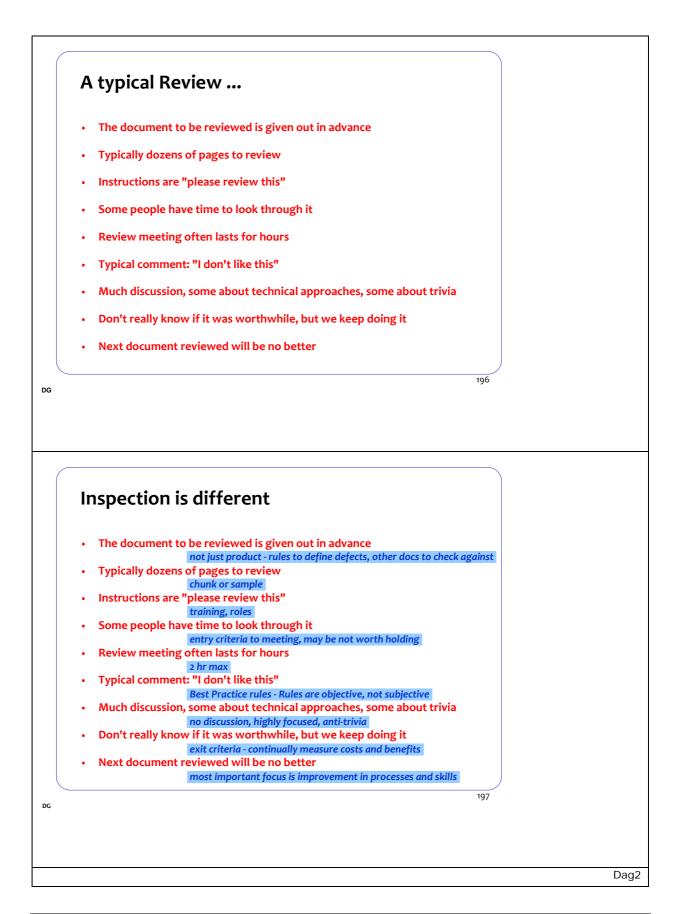




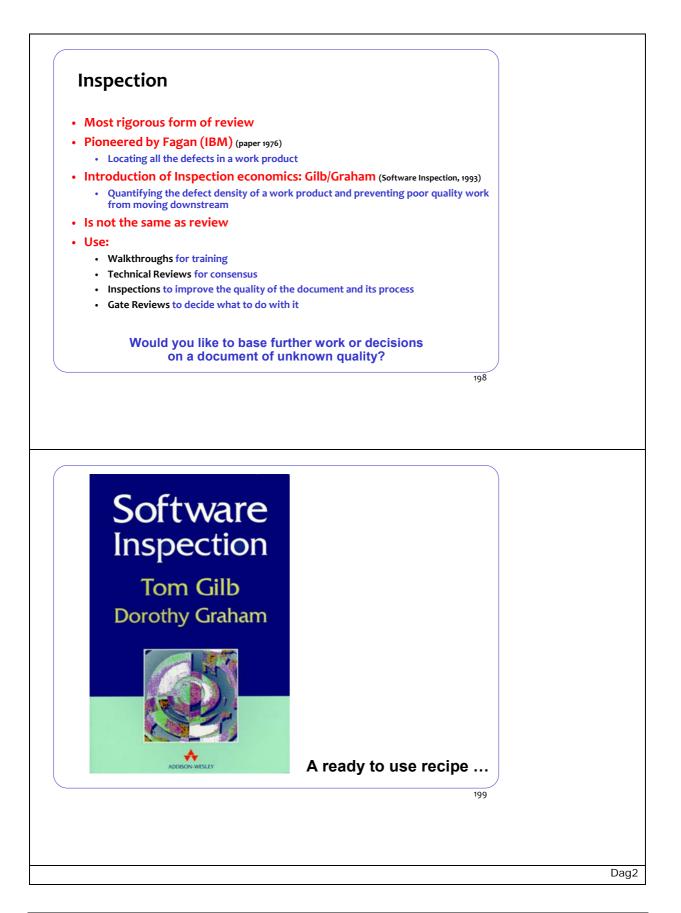


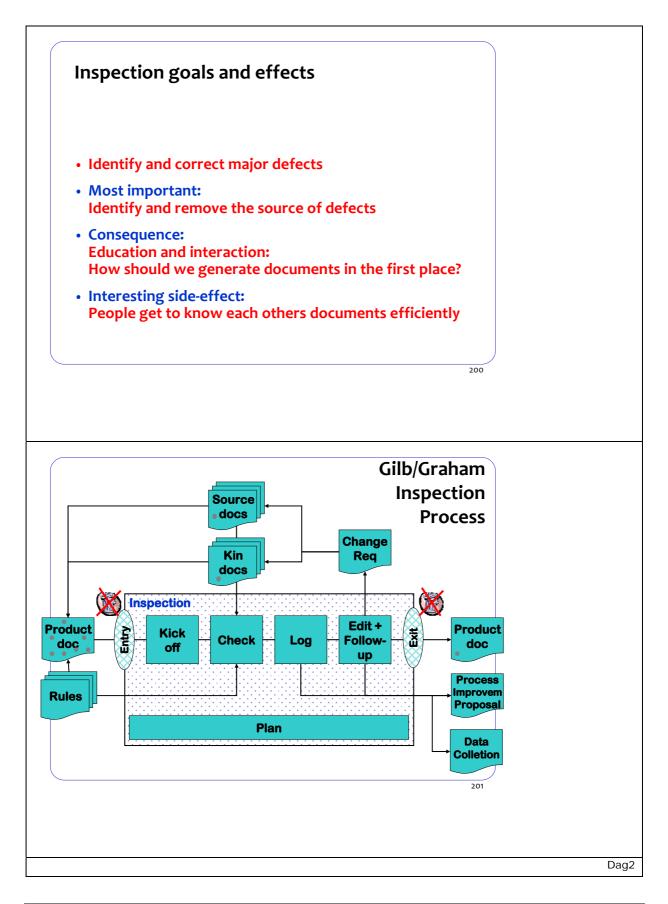






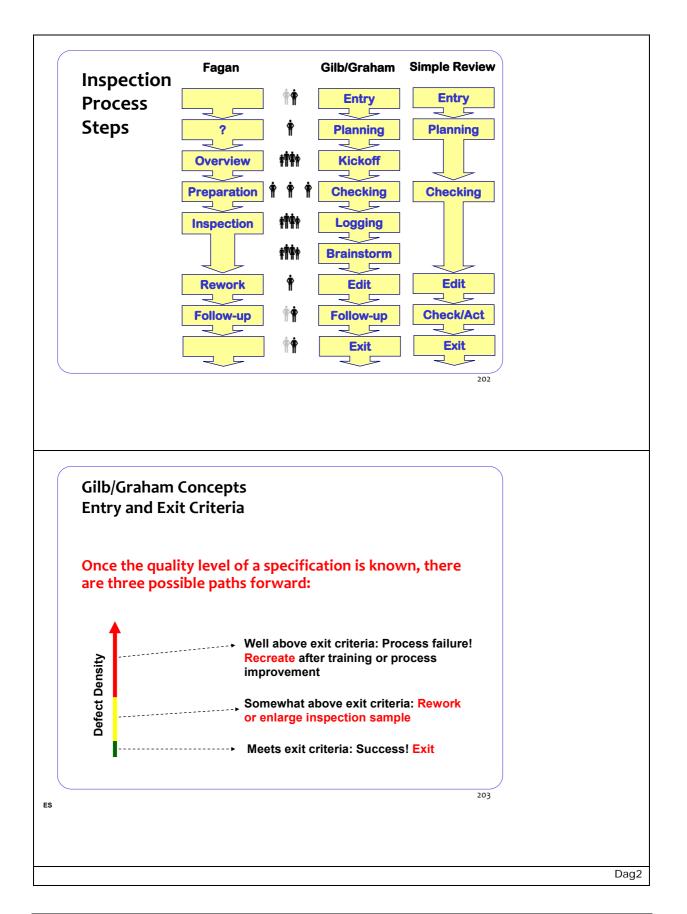
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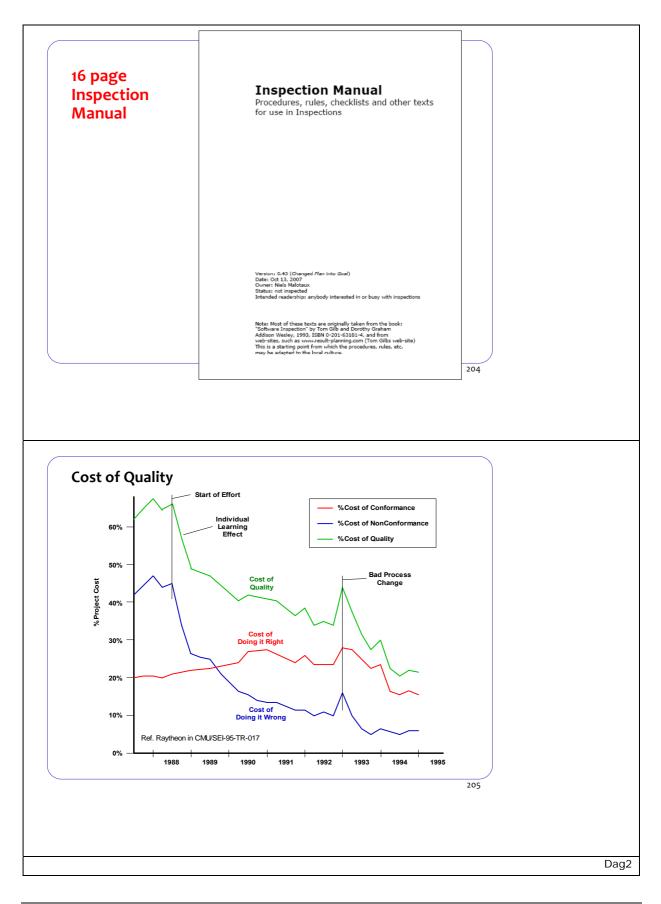




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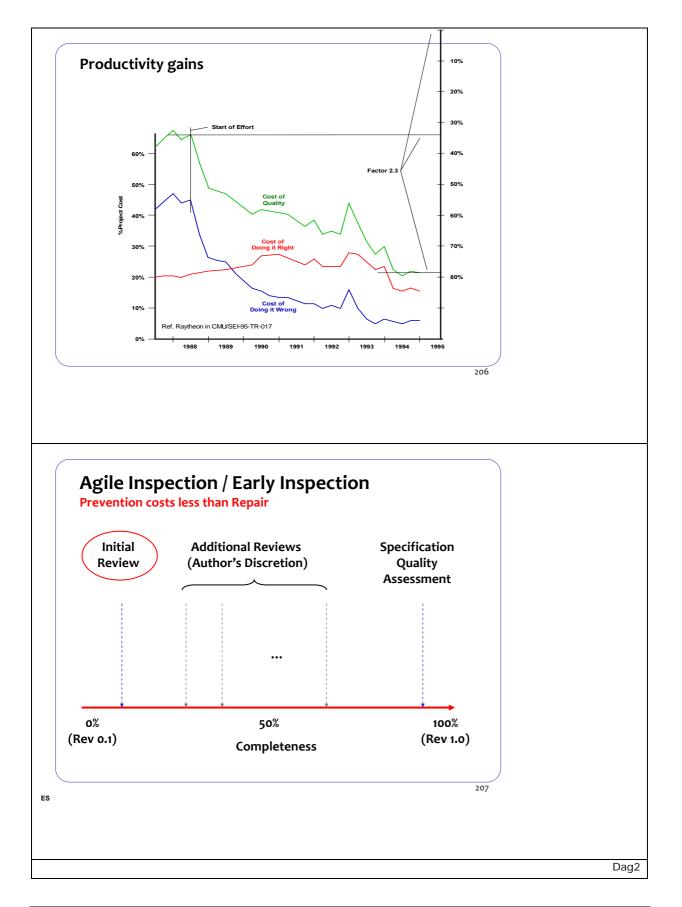
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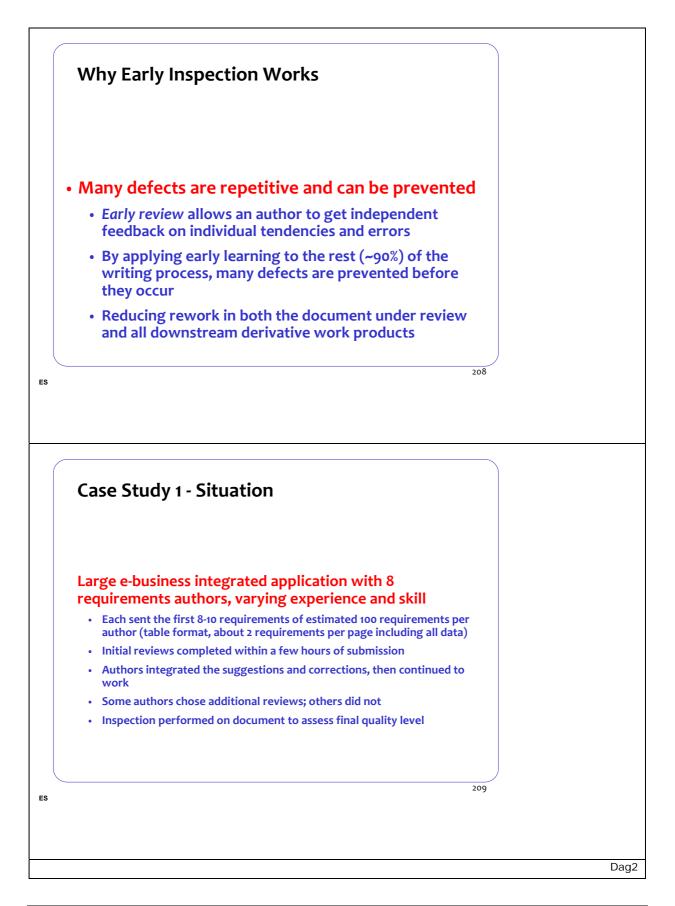




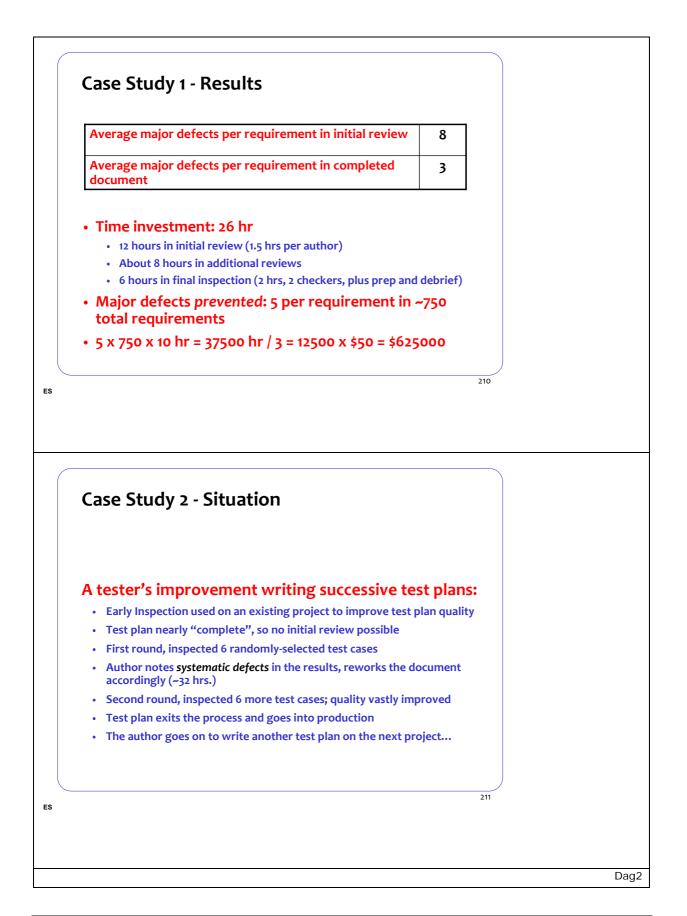
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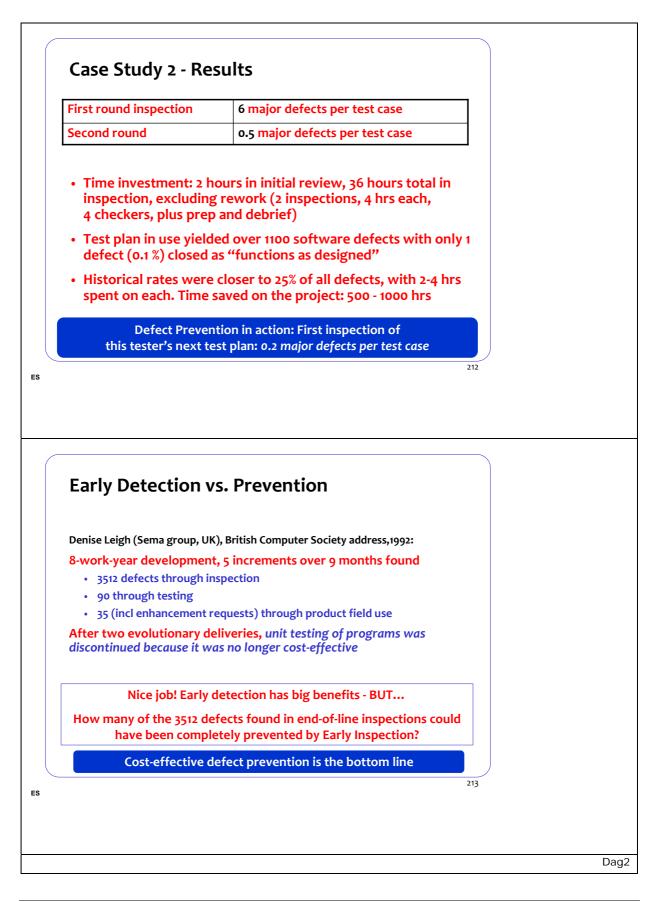
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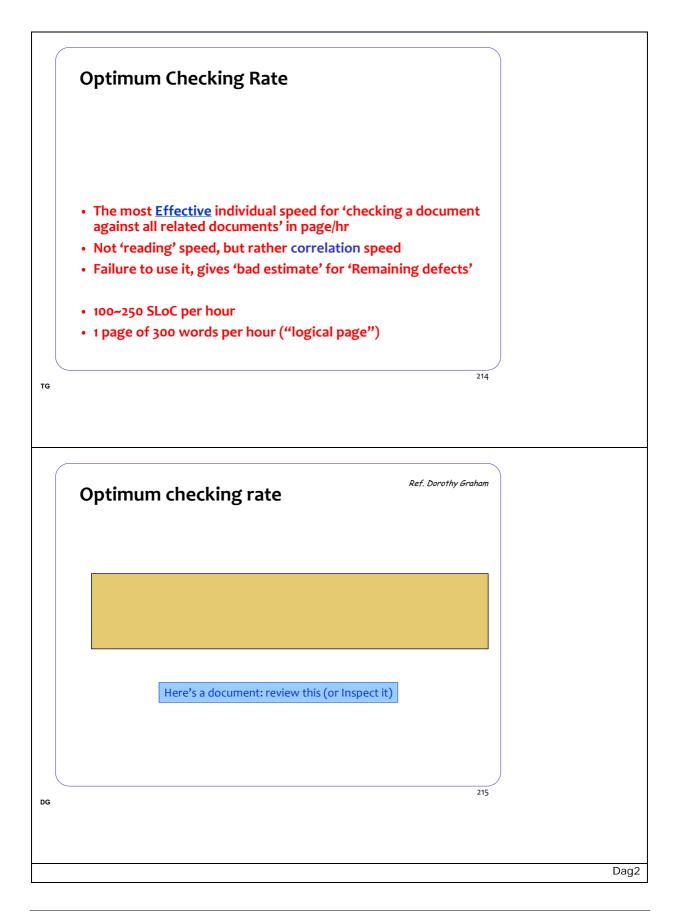


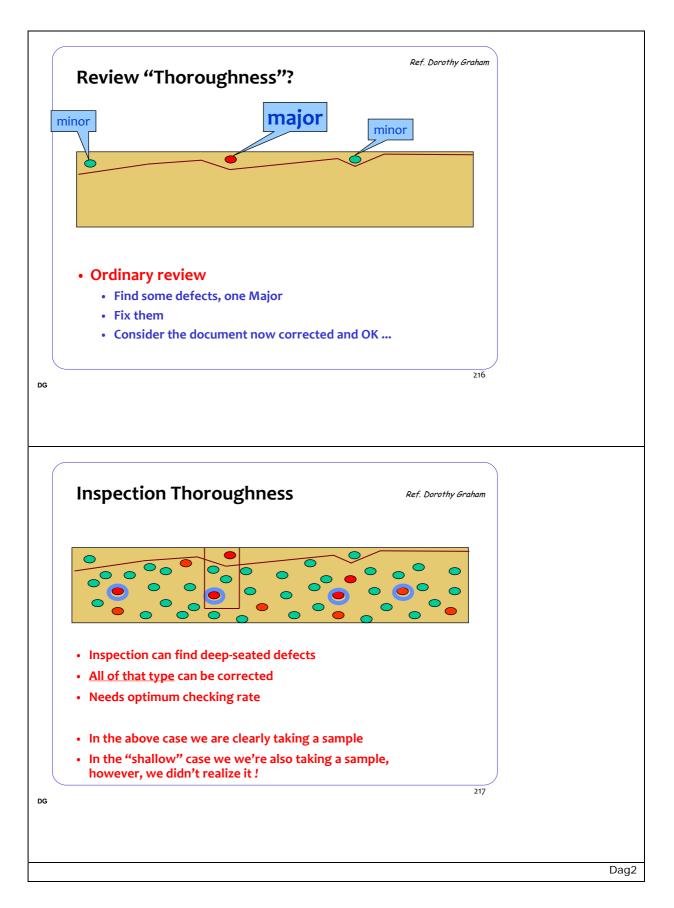
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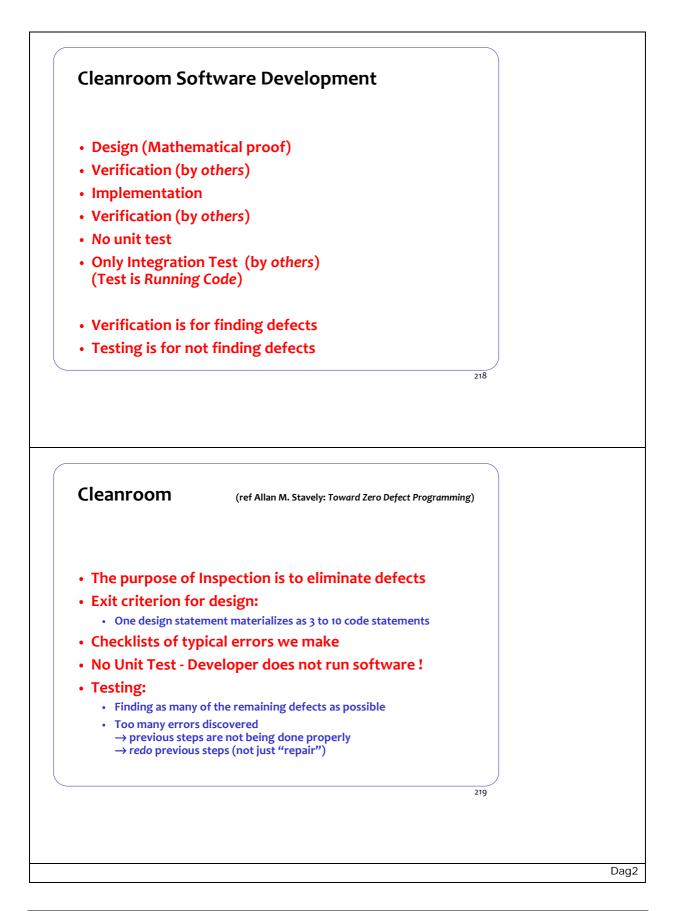


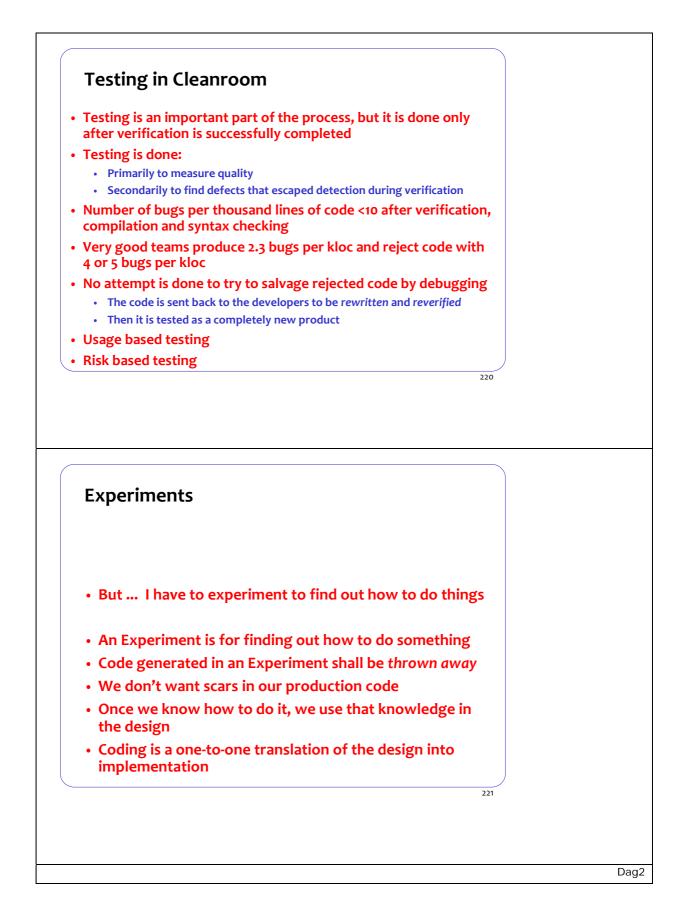
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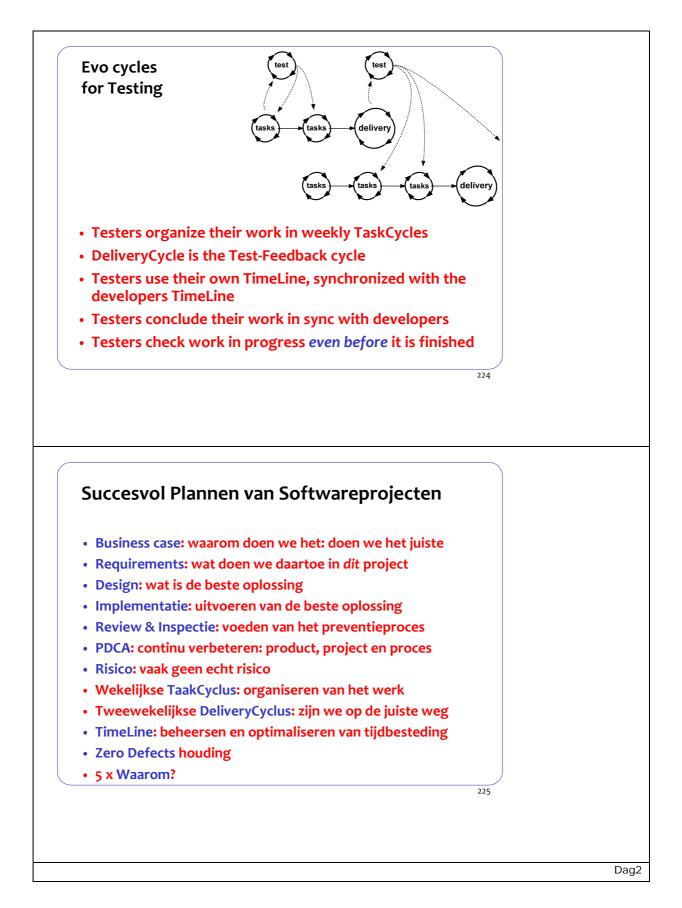


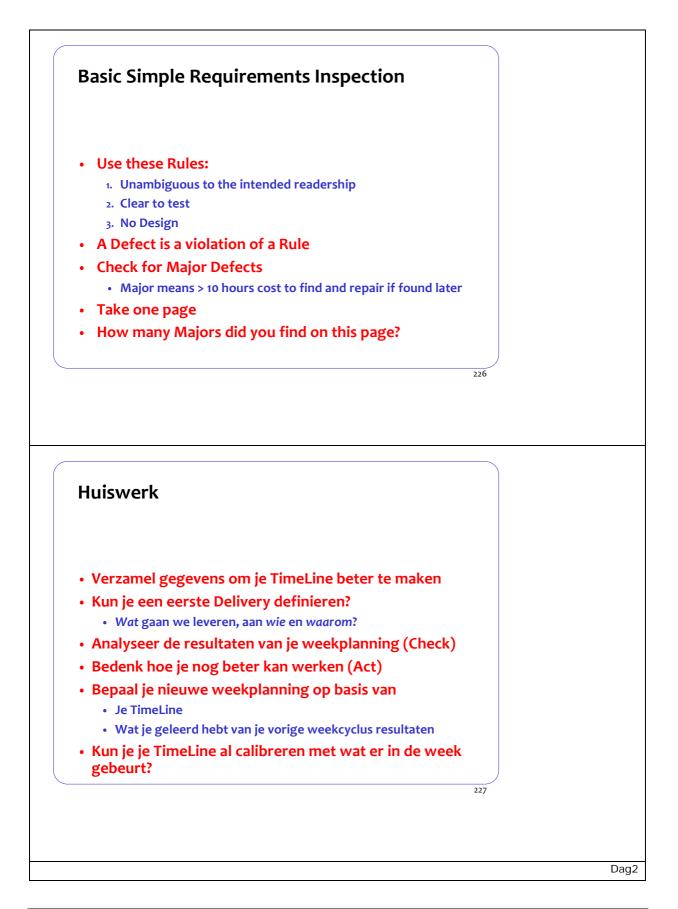
Boekjes:





		evolutionary proj	ect track				
delivery	ivery delivery delivery delivery delivery						
✦ measure quality	◆ measure quality	♥ measure quality	♥ measure quality	♥ measure quality	✦ final validation		
	how far are we fro	om the goal of zer	o defect delivery	?			
Final valiEarlier version					pers:		
how far f	from goal a	and what s	still to lear	'n			
• Evo has r	no debuggi	ng phase!					
					222		
 Testers for 	ocus on a cle	ear goal					
Further I • Testers fo • Finding do • The Cool	ocus on a cle efects is not	ear goal t the goal					
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	Can you afford not to use Evo?						
Niels Malotaux		N R Malotaux Consultancy	_				
030-228 88 68	niels@malotaux.nl	www.malotaux.nl/nrm					
		2	28				
			Dag2				

Task Cycle Plan	
Name	
Taskcycle	Available plannable hrs

project	delivery due	task due	hrs	tsk sht	done	description

Та	skSheet for week	Assigned to	Estimated duration
Та	sk description	1	
Ø	Requirements for this task to	be used as reference for v	erification
	• Functions (what should it	do?)	
		/ork, like "no bugs", or "no leaks": yo	"usability", "user-friendly", "response time", etc. our work is supposed to be Quality On Time.
	Constraints		
Ø			ts stated? What has to be done before I can task is a modification, state what modifications
Ø	Implementation details (how a	am I going to implement it)	
Ø	Verification approach – test d How can I make sure that it does what it	-	vhat it should not do.
Ø	Planning (in which order am I going to What to do first, what to do then: evolution		rds the final result?)
Ø	Is everything really clear?		
	Have this document (and related	ted docs, if any) reviewed	
V	Clarify any unclearness until		eed with the reviewer
V	Detail the design		
V	Convert the detailed design to	o code	
Ø	Verify against the written requ according to the defined test.		ore) and against the design
Ø	Checklist for 100% done:		
	☑ The code compiles and lin	nks with all files in integrat	ion promotion level
	☑ The code simply does what	at it should do: no bugs	
	☑ There are no memory leak	S	
		neasures have been impler	nented
	☑ All files are labeled accord	ding to the rules agreed	
	☑ File promotion is done		
	☑ I feel confident that the test	ster will find no problems	
\square	Project manager is informed a	about task completion	