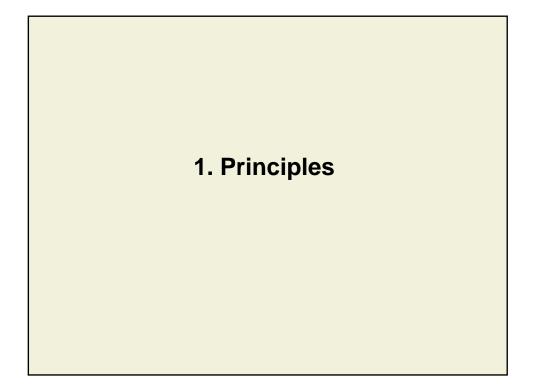
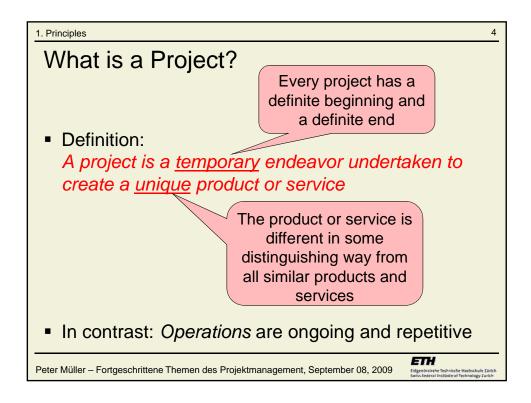
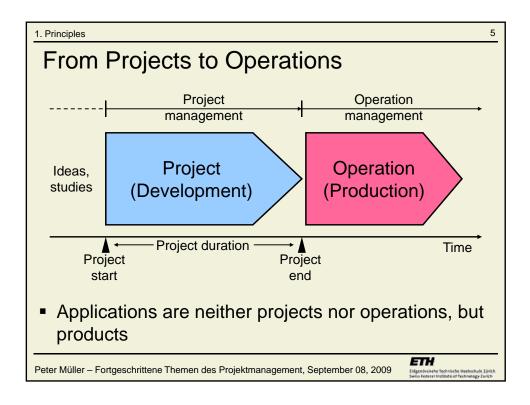
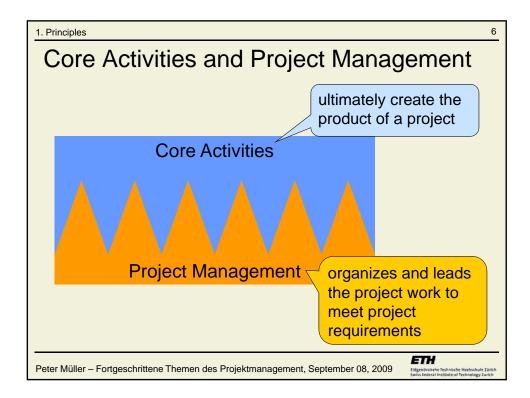


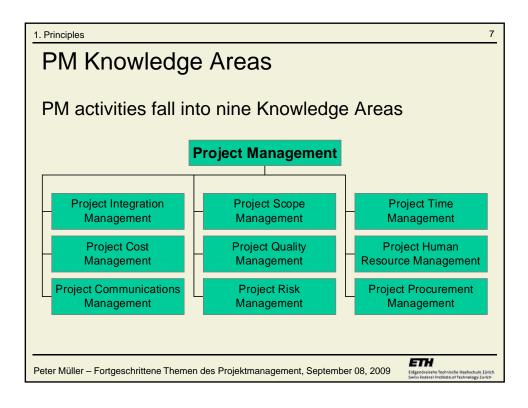
Introduction		2
Agenda for To	oday	
9:15 - 10:00	Principles	
10:00 - 10:45	Earned Value Method	
10:45 – 11:00 Br	eak	
11:00 – 11:45	Software Estimation	
11:45 – 12:30	Risk Management	
12:30 – 13:45 Lu	inch	
13:45 – 14:30	Agile Methods	
14:30 – 15:15	Scrum	
15:15 – 15: 30 Bi	eak	
15:30 – 16:15	Tools	
16:15 – 16:45	Discussion	
Peter Müller – Fortgeschrittene Theme	en des Projektmanagement, September 08, 2009	EICH Eidgenössische Technische Hoehschule Zürich Swiss Lederal Institute of Technology Zurich

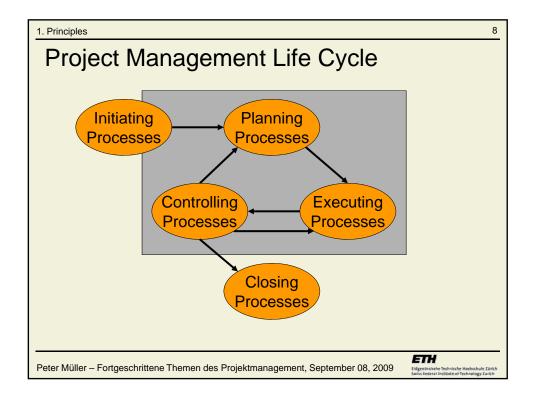


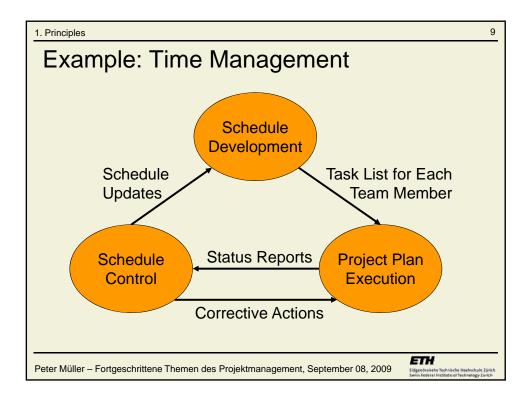


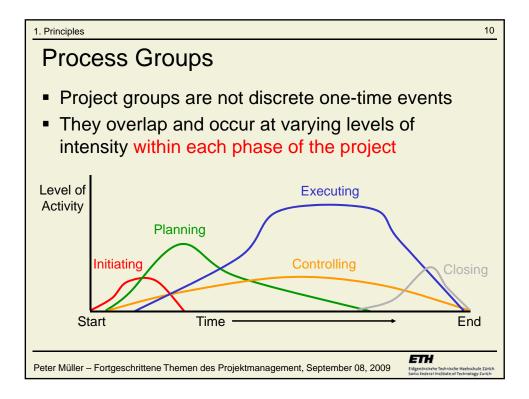


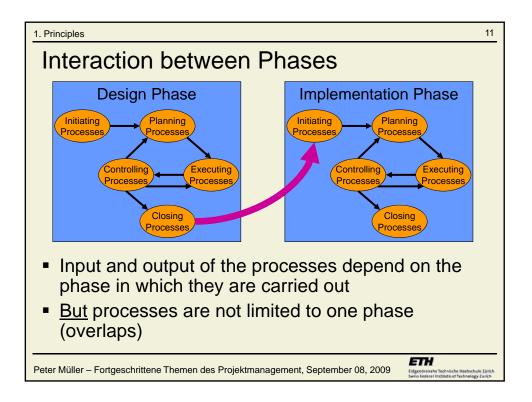


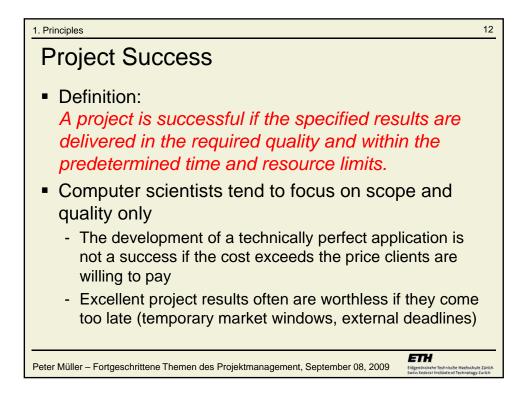


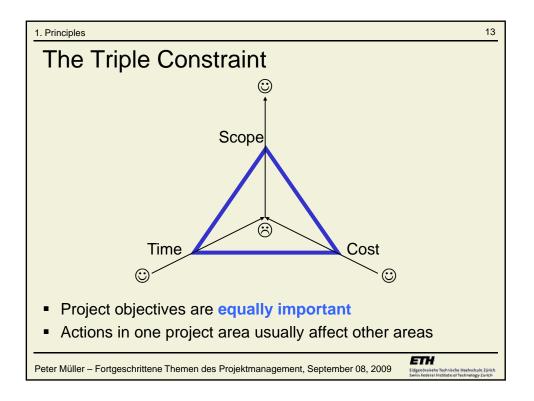


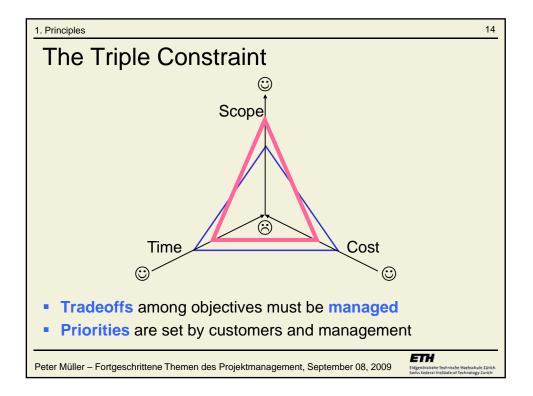


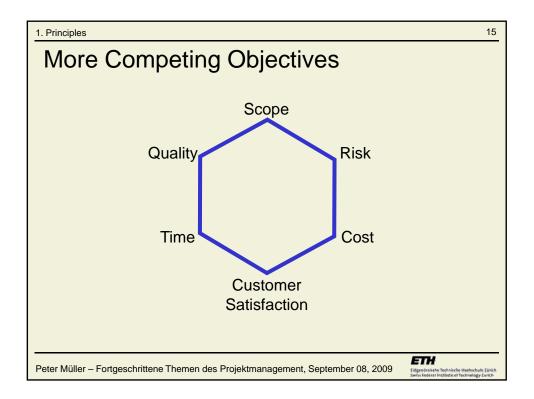


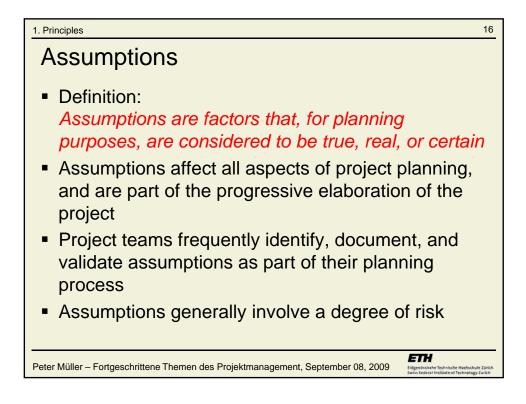


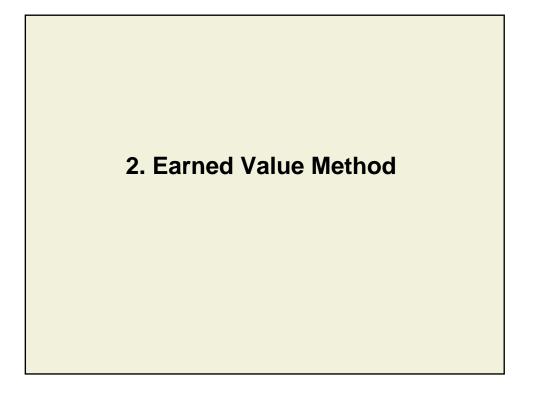


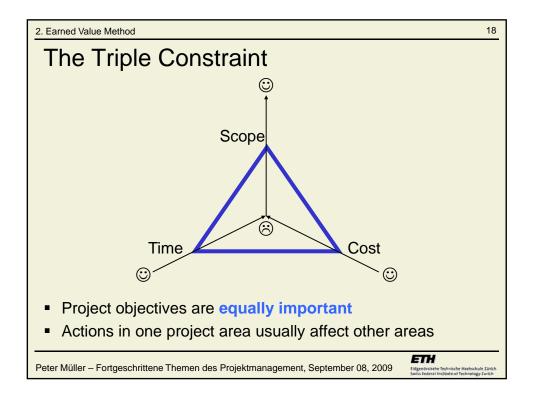


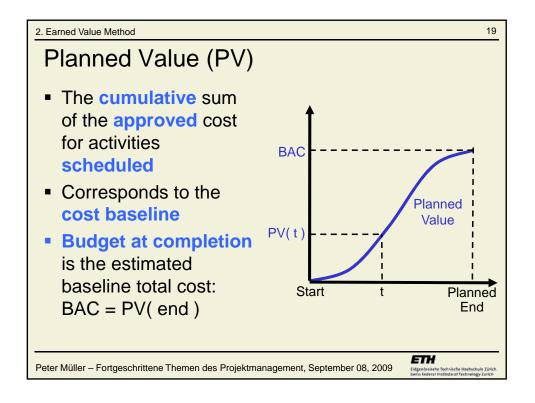


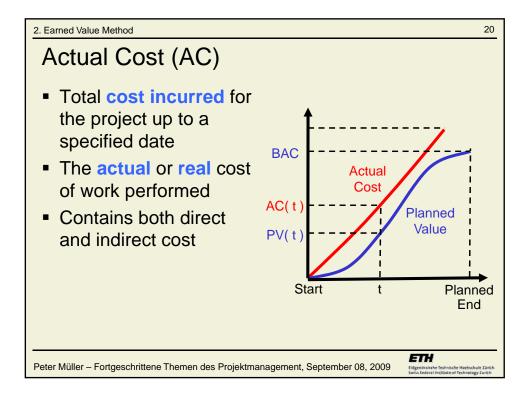


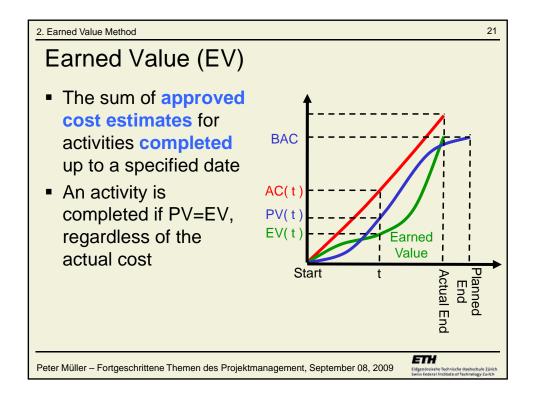


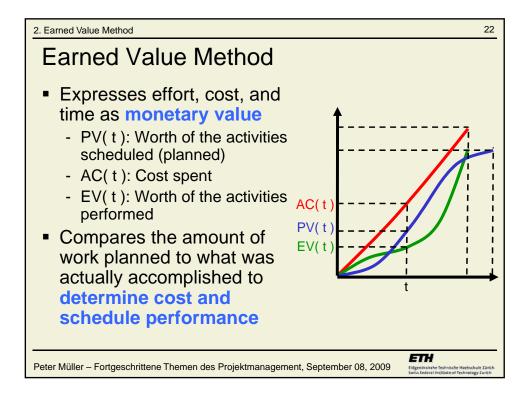


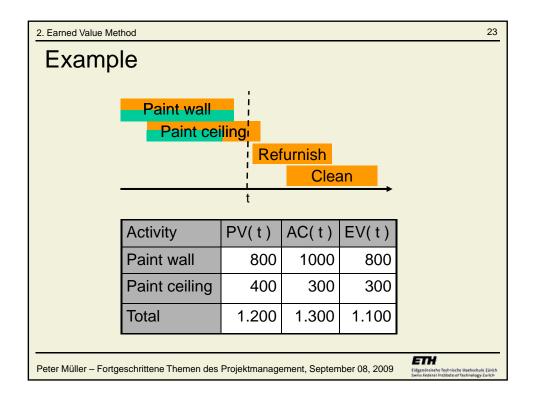


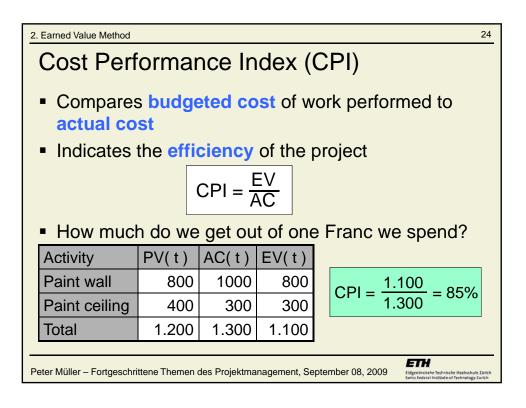


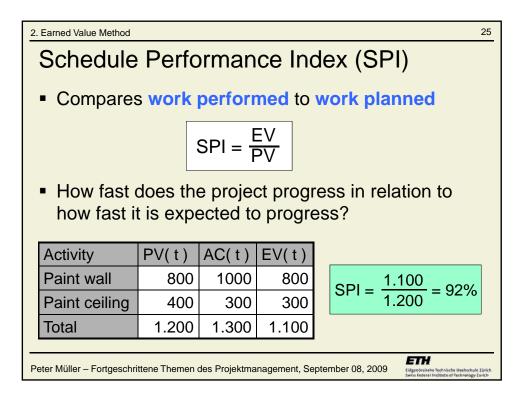


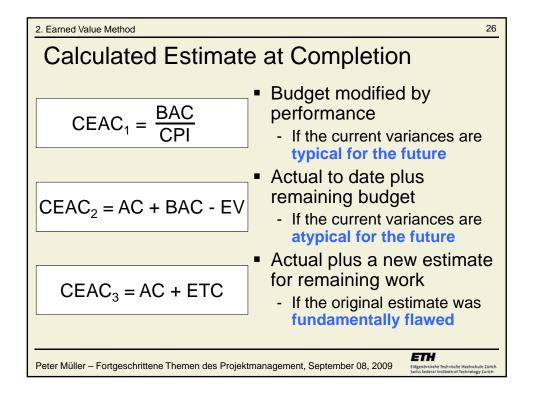


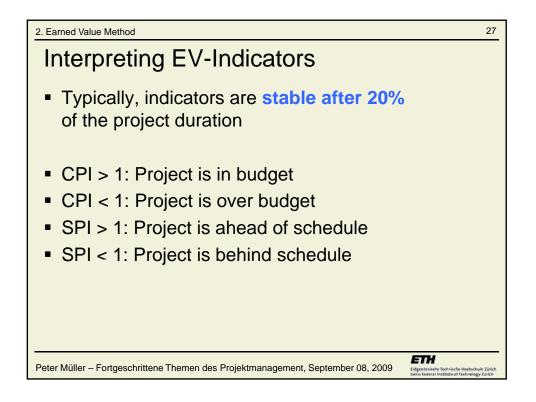


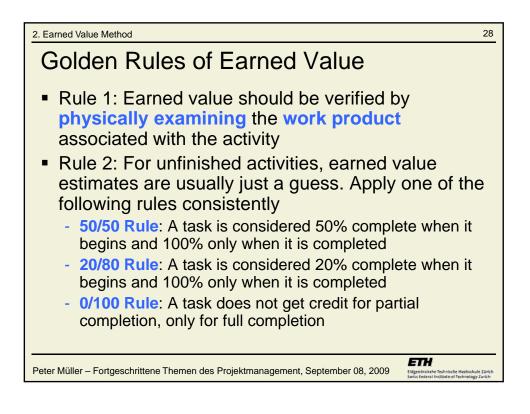


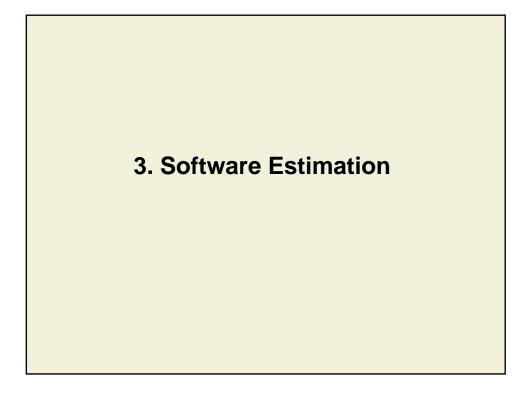


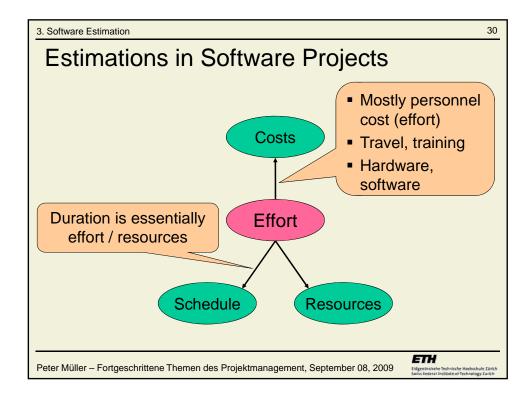


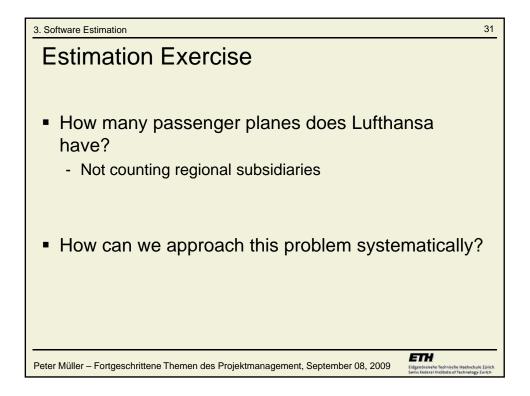


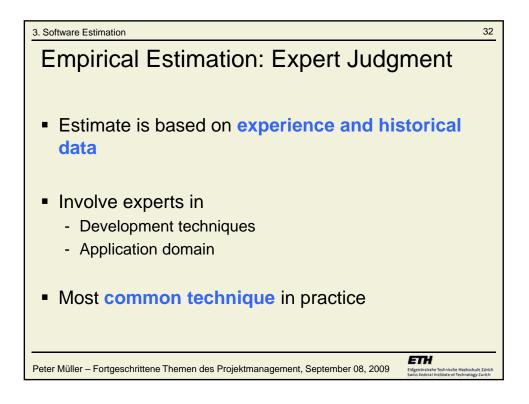


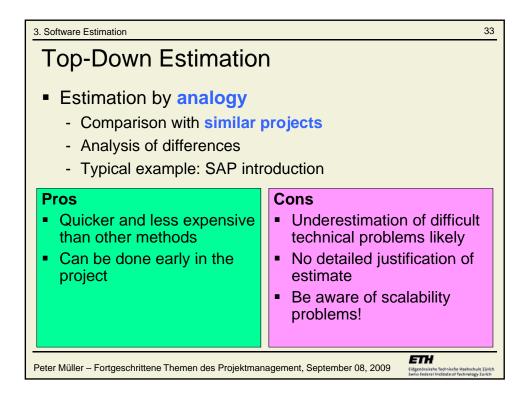


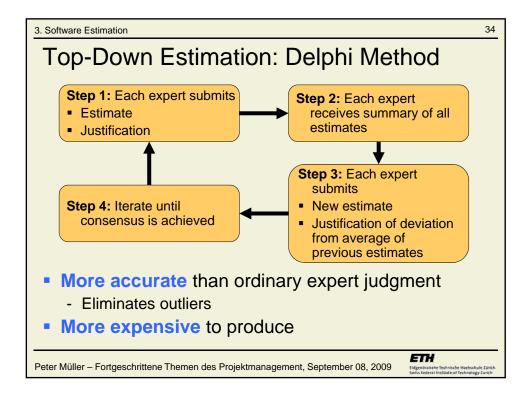


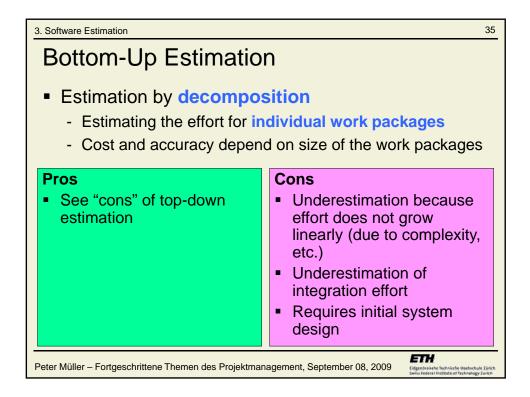


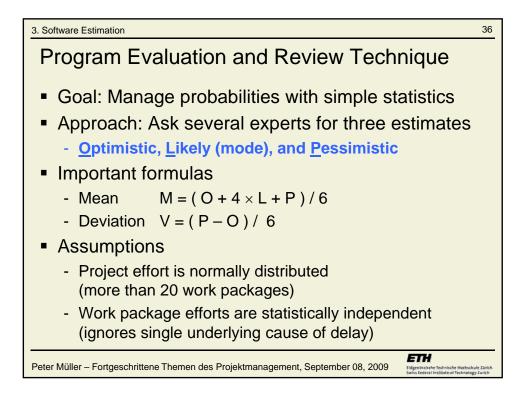


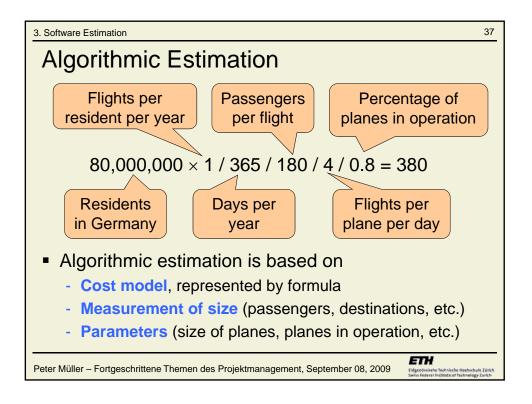


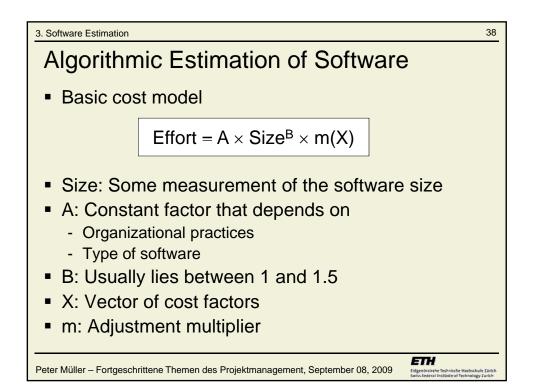


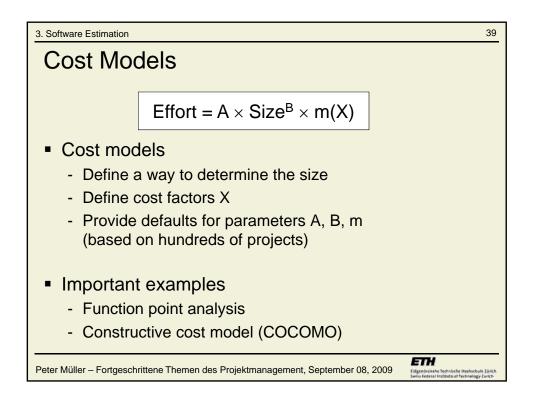


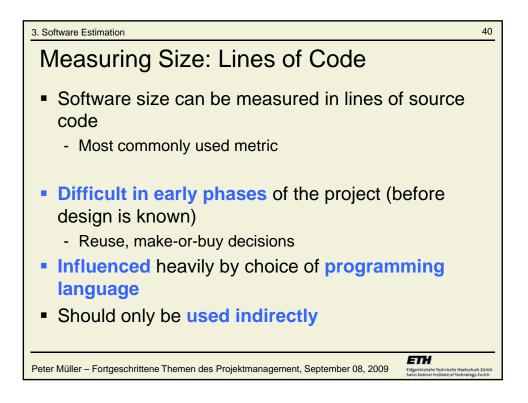


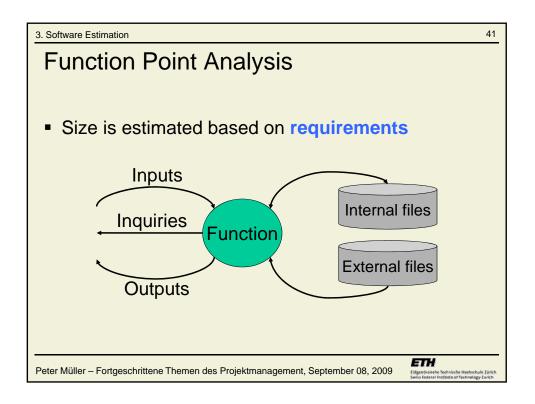


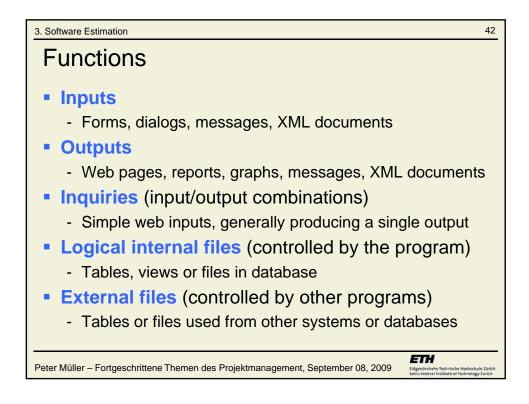




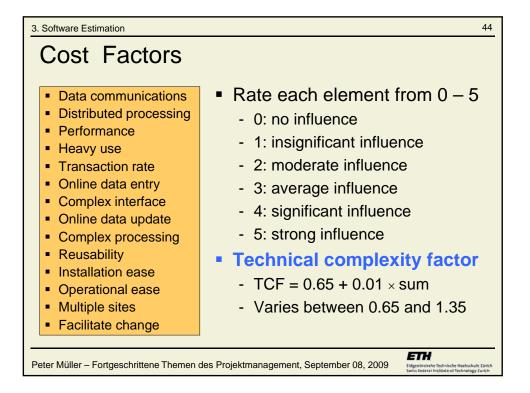




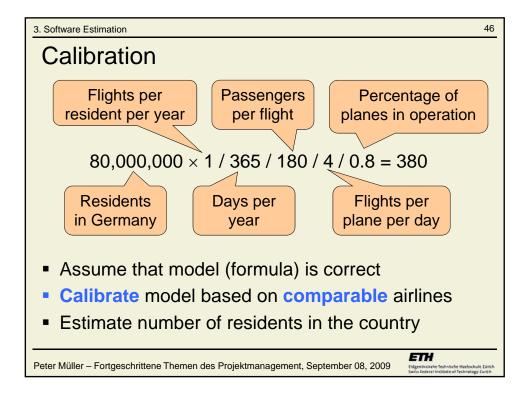


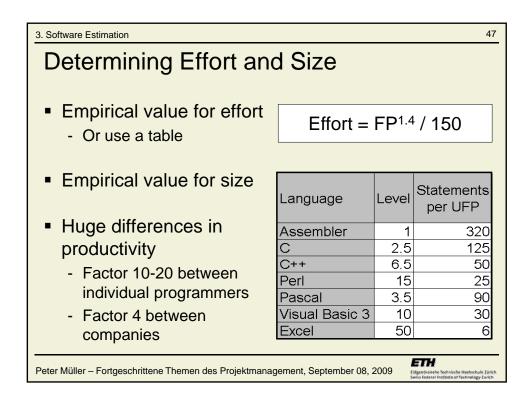


3. Software Estimation				43
Complexity o	f Func	tions		
 Determine 	Input	Simple	Average	Complex
complexity of each	Data elements	1-5	6-10	>10
function	Checking	Formal	Formal, logical	Formal, logical, requires DB access
Weight each	Factor	Simple	Average	Complex
· · · · · · · · · · · · · · · · · · ·	Inputs	3	4	6
function	Outputs	4	5	7
according to	Inquiries	3	4	6
complexity	Ext. files	7	10	15
	Int. files	5	7	10
Peter Müller – Fortgeschrittene The	men des Projekt	management	, September 08	5, 2009 Eidgenösiskthe Technische Haufschule Zürich Swiss Federal Institute of Technology Zurich

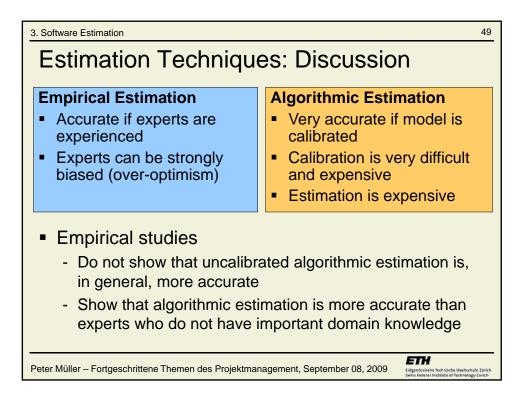


3. Software Estimation			45
Functior	Point Com	putation	
	Simple	Average	Complex
Inputs	6 x 3 = 18	2 x 4 = 8	3 x 6 = 18
Outputs	7 x 4 = 28	7 x 5 = 35	0 x 7 = 0
Inquiries	0 x 3 = 0	2 x 4 = 8	4 x 6 = 24
Ext. files	9 x 5 = 45	0 x 7 = 0	2 x 10 = 20
Int. files	5 x 7 = 35	2 x 10 = 20	3 x 15 = 45
Unadjust	ed function p	oints (UFP)	304
Technica	I complexity f	factor (TCF)	1.15
Adjusted	function poir	nts	350
 Adjuste 	d function poi	nts: FP = UFP	× TCF
Peter Müller – Fortgesc	hrittene Themen des Projektr	nanagement, September 08, 2	2009 Eidgenössische Technische Hindhschule Zürich Swiss Lederal Institute of Technology Zurich

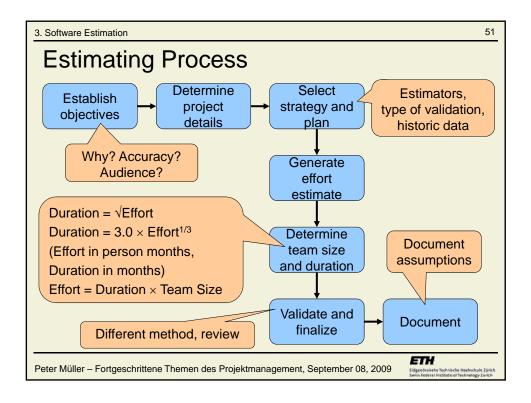




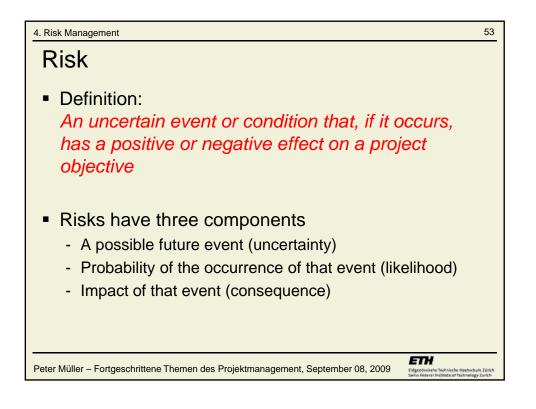
 Pros Based on requirements (instead of code size) Can be applied in early project phases Can be calibrated (for company, project type) Counting standards by "International Function Points User Group" Technology-independent 	 Cons Estimation of overall effort (not per phase) Tailored towards functional decomposition (rather than OO) Tailored towards information systems Needs calibration to produce reliable results
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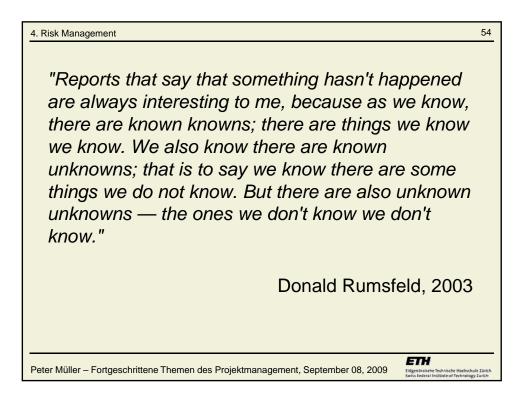


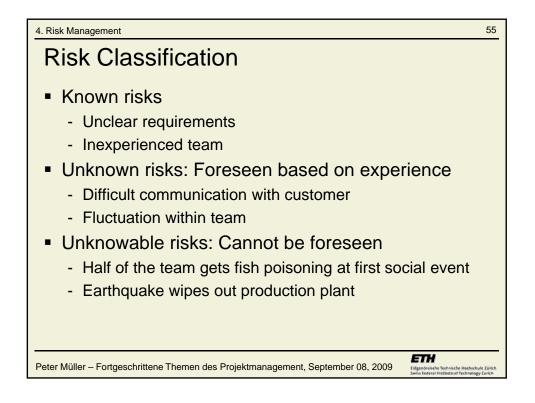
3. Software Estimation	50
Other Estimation Stra	ategies
 Parkinson's Law Work expands to fill the time available Gold plating Effort is determined by available resources Important for team management 	 Pricing to win Cost is estimated to whatever the customer is willing to spend Common strategy to win projects Features are negotiated later, constrained by agreed costs Costs are fixed, not requirements
Peter Müller – Fortgeschrittene Themen des Projektmar	nagement, September 08, 2009

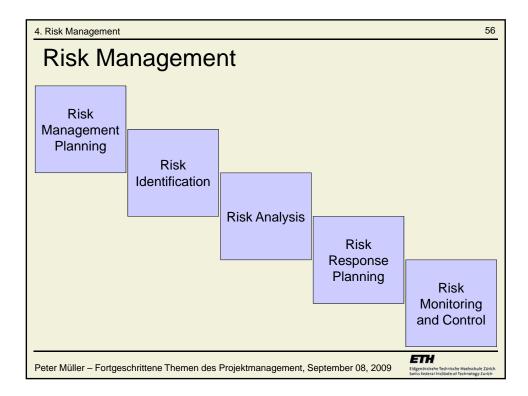


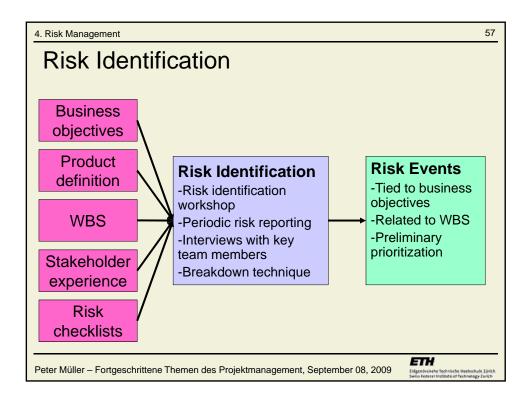


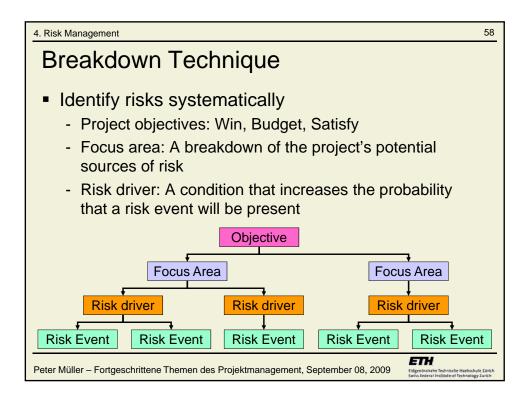


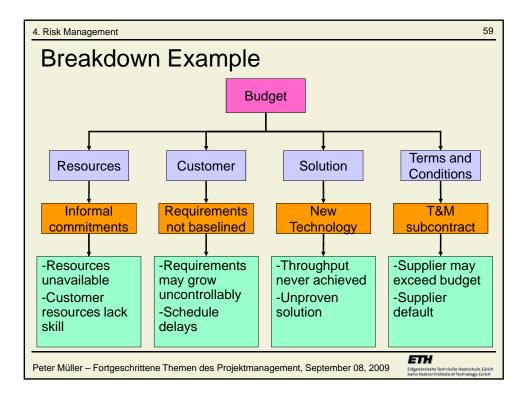


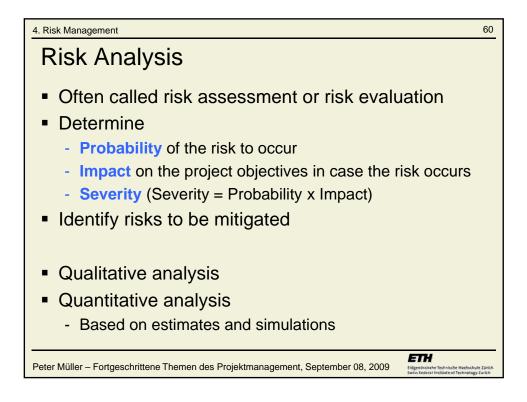












4. Risk Manag	ability Ci	riteria		61
1 100				
	Qualitative Rating	Quantitative Rating	Description	
	Very High	>84%	Almost assured to happen	
	High	60-84%	Likely to happen	
	Medium	35-59%	Somewhat likely to happen	
	Low	10-34%	Not very likely to happen	
Peter Müller –	Fortgeschrittene The	men des Projektmanage		BARM dgenössische Technische Hachschule Zürich viss Rederal Institate of Technology Zurich

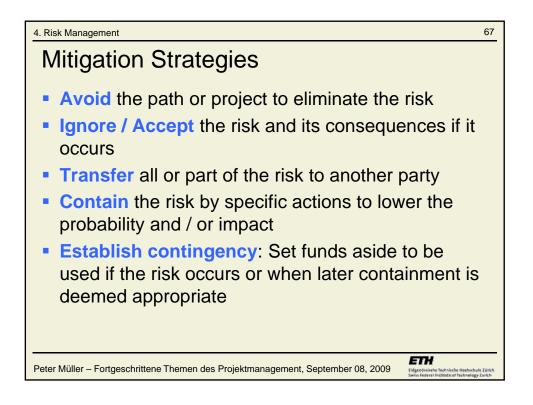
4. Risk Management	62
Impact (Criteria
Risk Rating	Description
Very High	Has potential to cause cancellation of the project
High	Likely to cause significant disruption to schedule, increase in cost, or degradation of performance
Medium	Has potential to cause some disruption to schedule, increase in cost, or degradation of performance
Low	Has little potential to cause some disruption to schedule, increase in cost, or degradation of performance
Peter Müller – Fortgese	chrittene Themen des Projektmanagement, September 08, 2009

	Management	of Individual	Risks		63
	Severity		Impact	t	
	Seventy	Very High	High	Medium	Low
Pr	Very High	Unacceptable	Very High	High	High
oba	High	Very High	High	High	Medium
Probability	Medium	High	High	Medium	Medium
ity	Low	High	Medium	Medium	Low
Peter	Müller – Fortgeschrit	tene Themen des Projektma	nagement, Septemb	er 08. 2009	ETH idgenössische Technische Heebschule Zürich wiss Tederal Insätlate of Technology Zurich

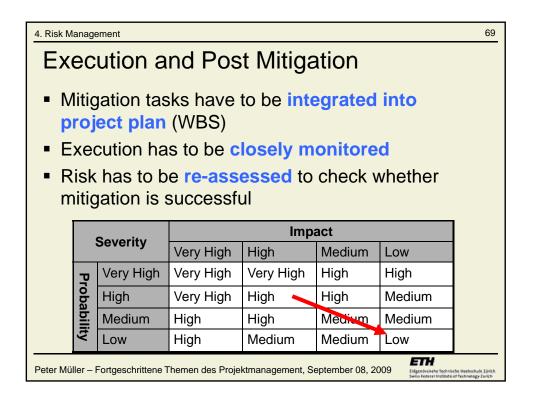


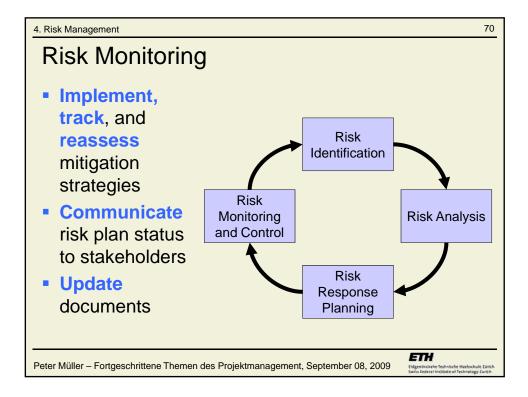
4. Risk Manag Risk			nenta	ation						65
Risk ID	WB Nur	S nber	Ri	sk Event		Owner	Im	ea of pact //B/S)		
1	2.	04.05		ments will controllably		PM		B/S		
					_					
			obable act Date	Risk Probability	R	lisk Imp	act	Seve	erity	Rank
		20.	.07.2004	High		Very hig	h	Very	high	1
					F					
Peter Müller –	Fortge	schritten	e Themen de	s Projektmanageme	ent,	September (08, 20	09 Eidge Swiss	nössische Techni Federal Instituti	sche Heehschule Züric zof Technølagy Zurich

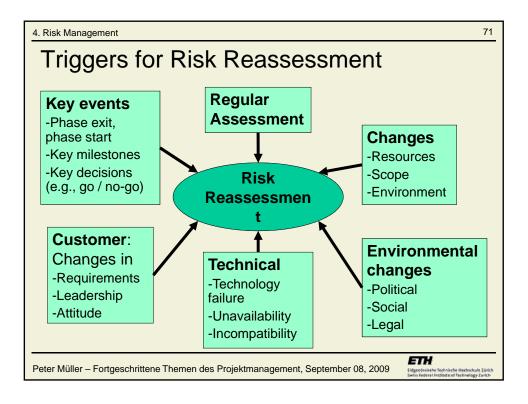


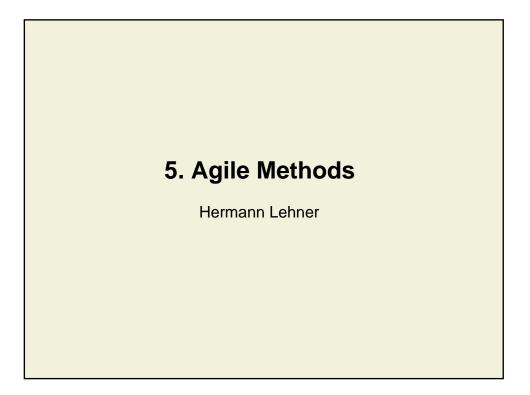


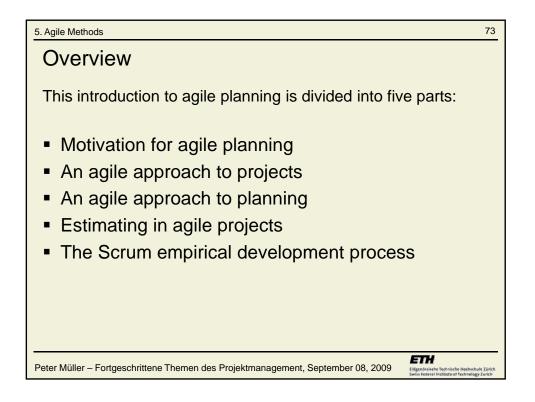
Risk ID	Mitigation Strategy	Mitigation Task	Responsible	Status
1	Contain	Use phased approach	PM	in progress

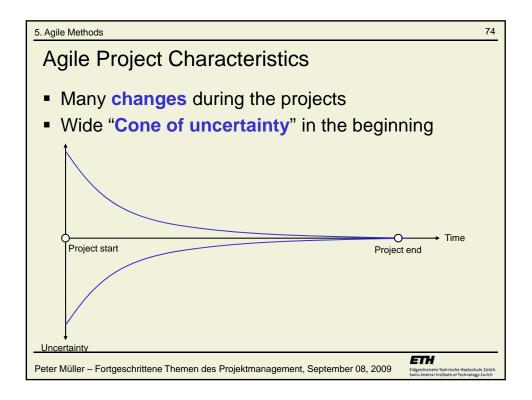


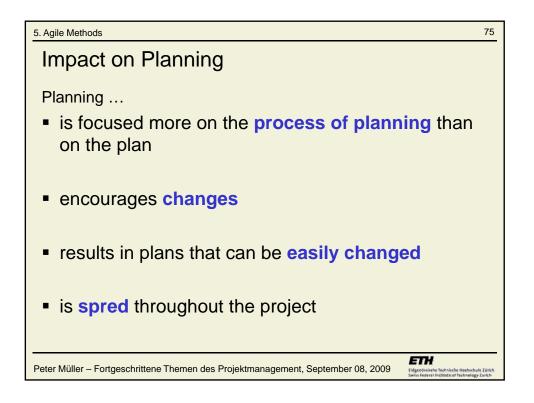


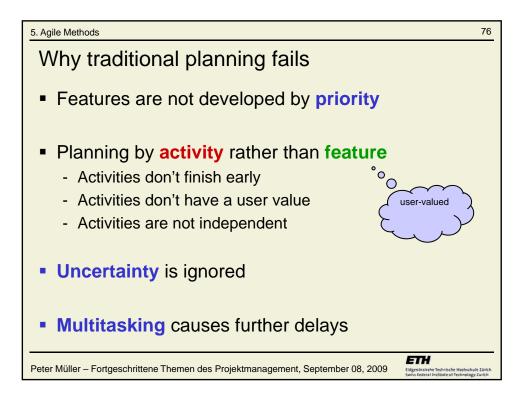


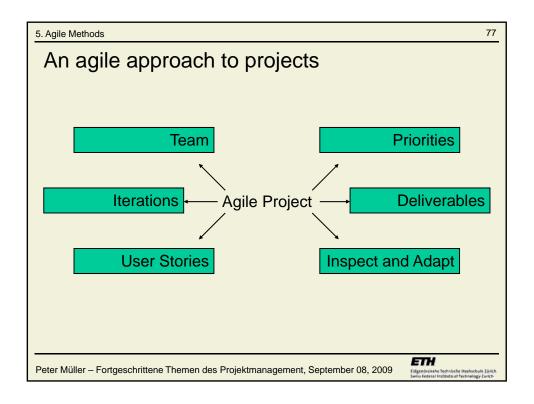


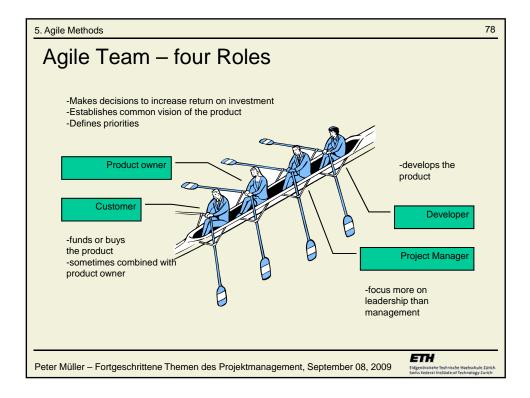


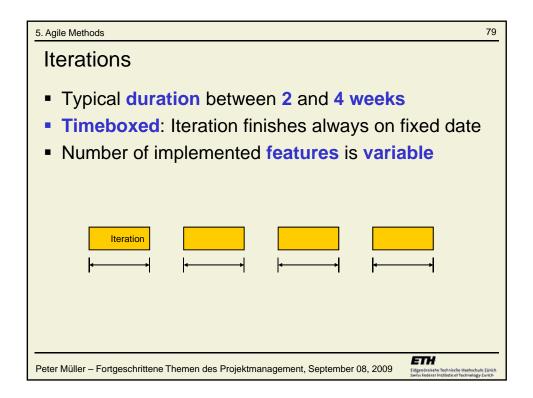


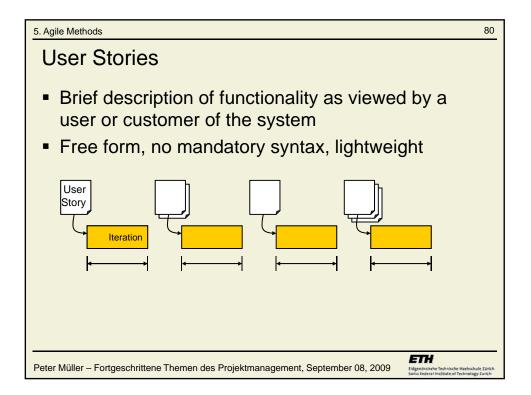


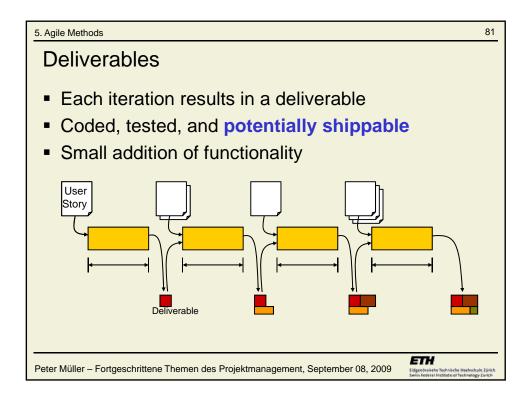


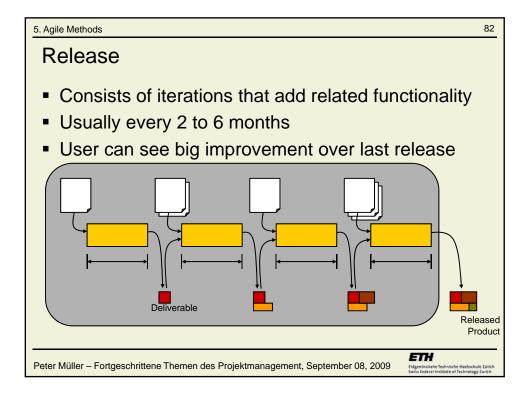


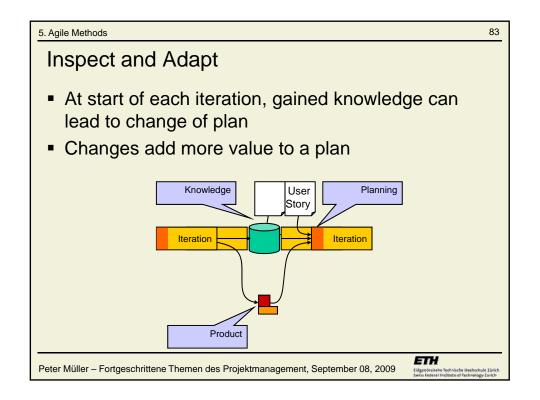




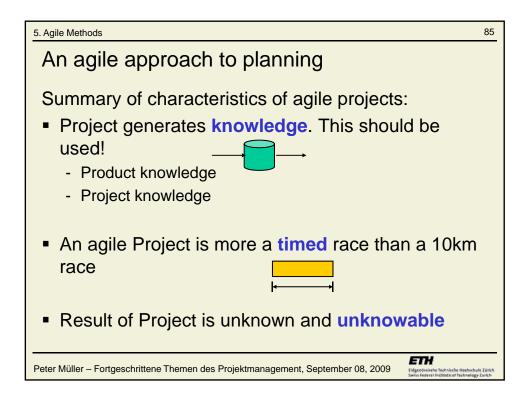


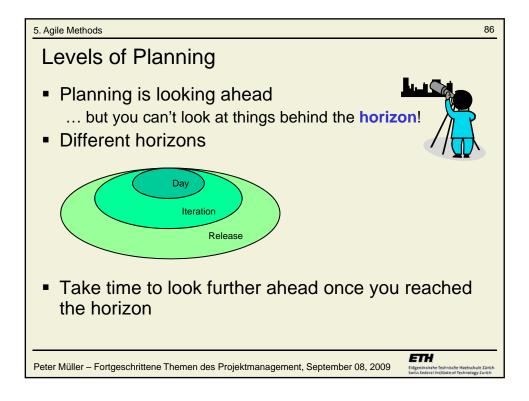


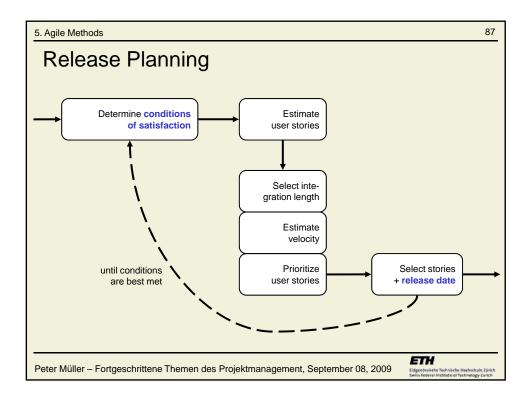


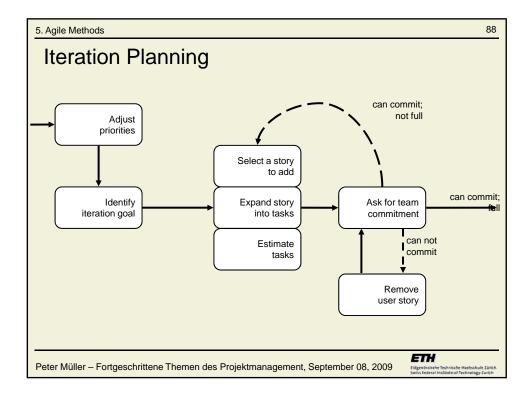


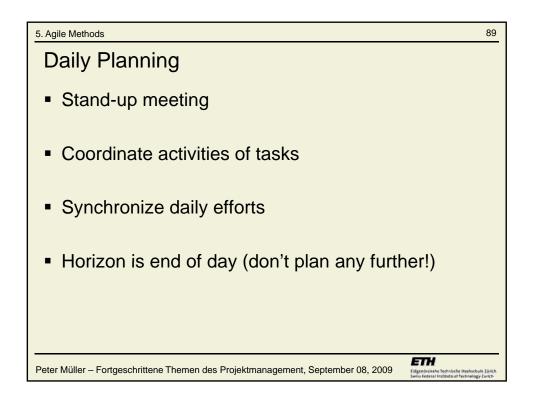


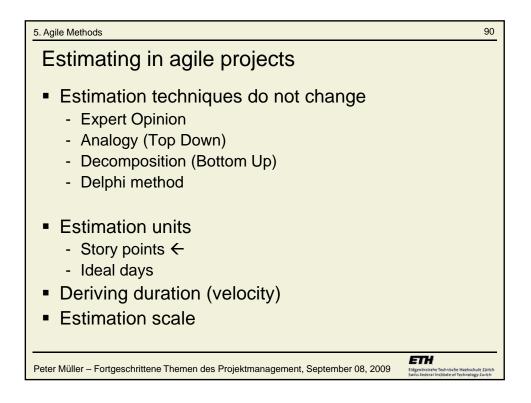


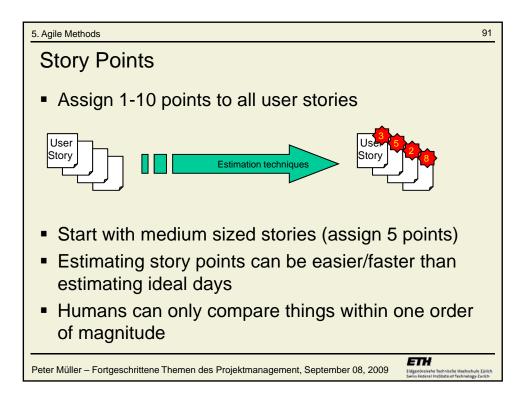


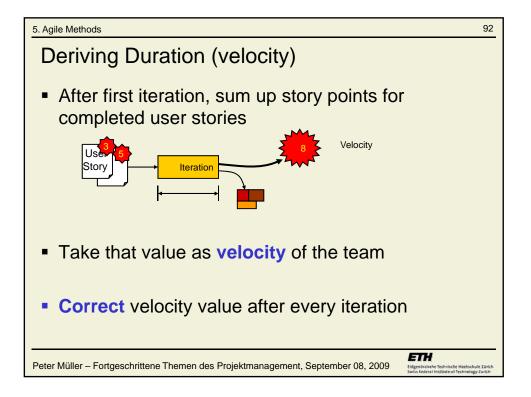


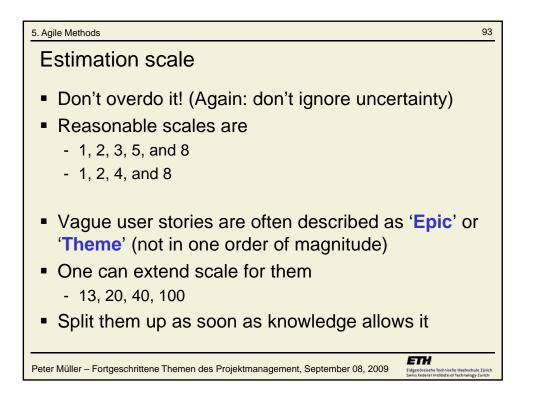




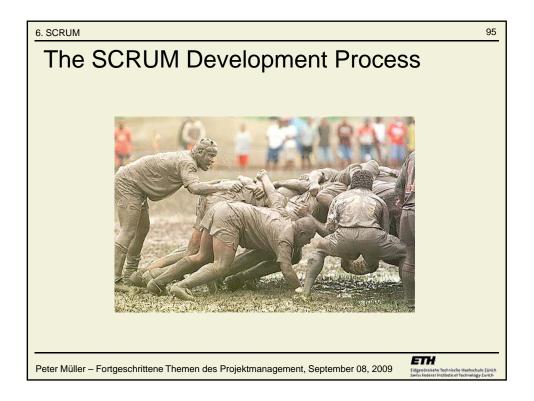


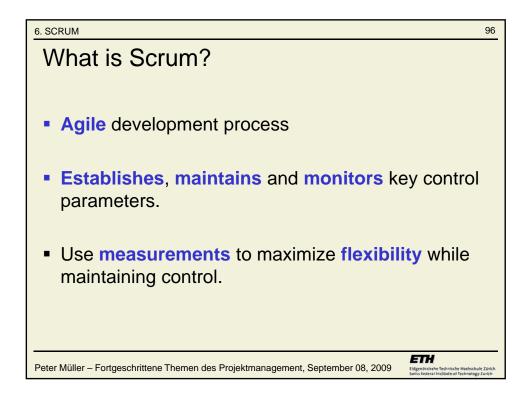


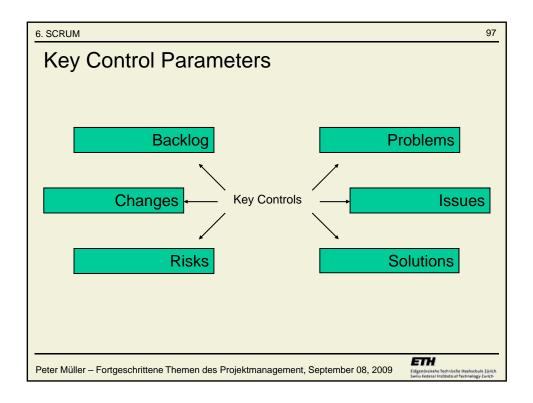


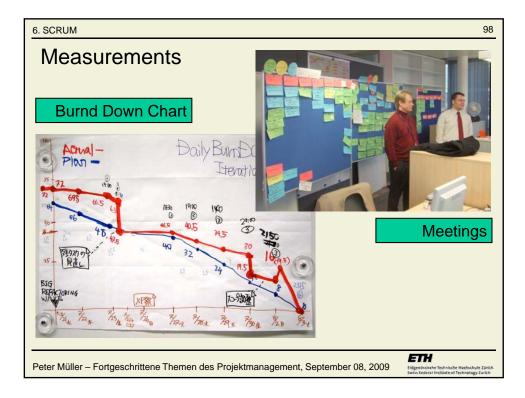


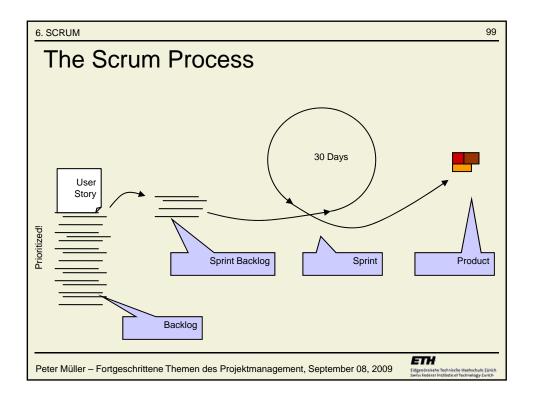


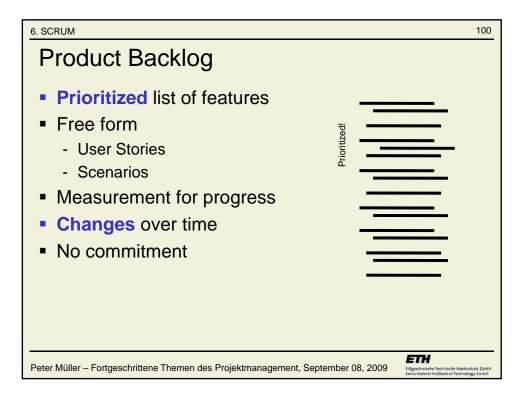


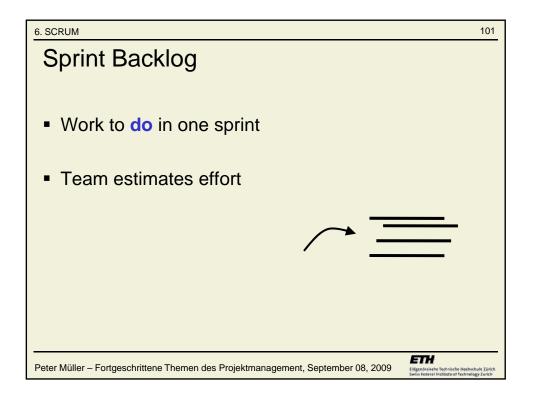


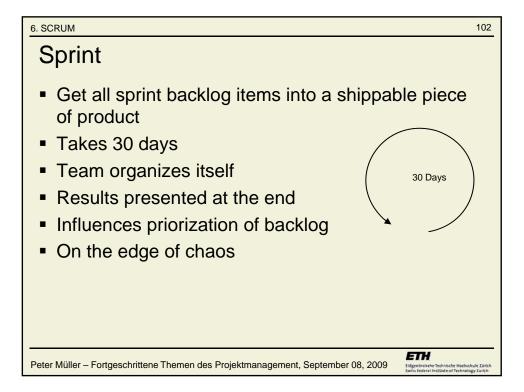


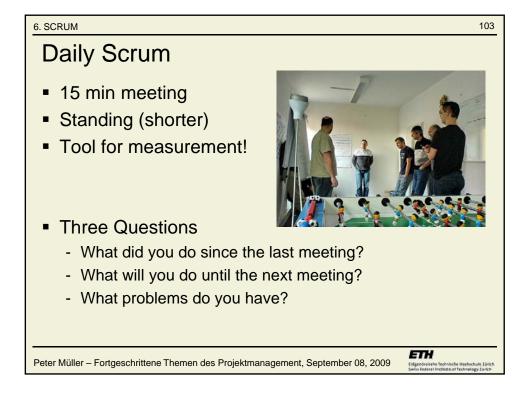


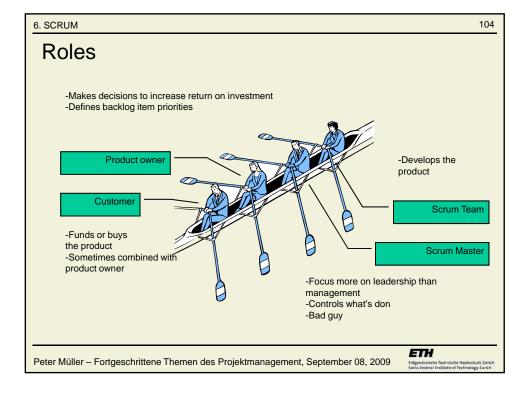


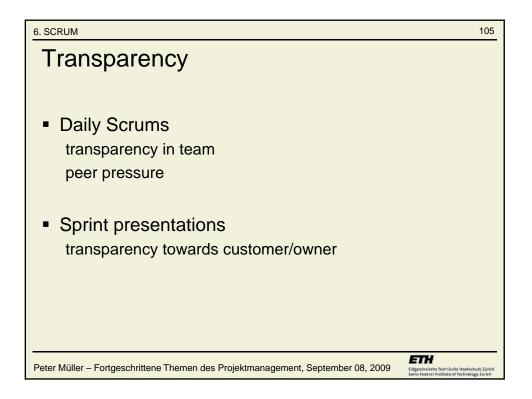


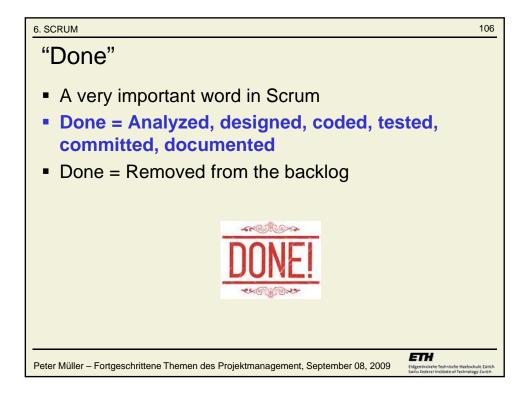


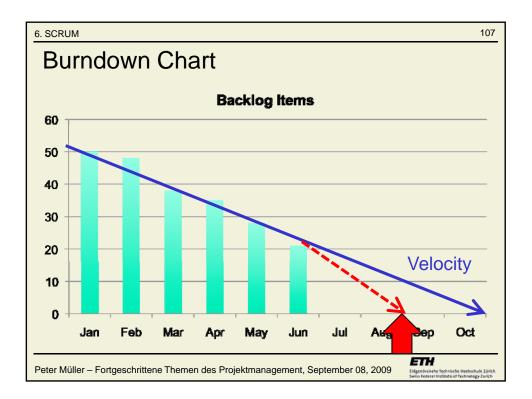


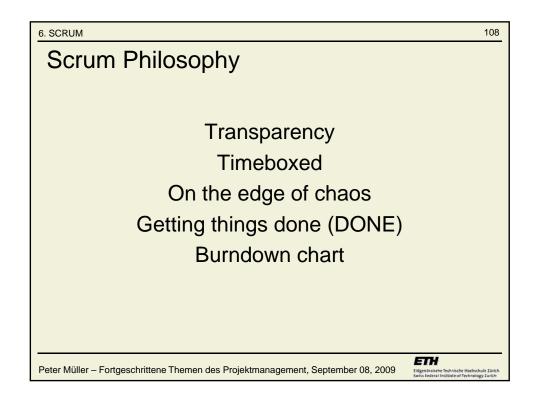












7. Tools

