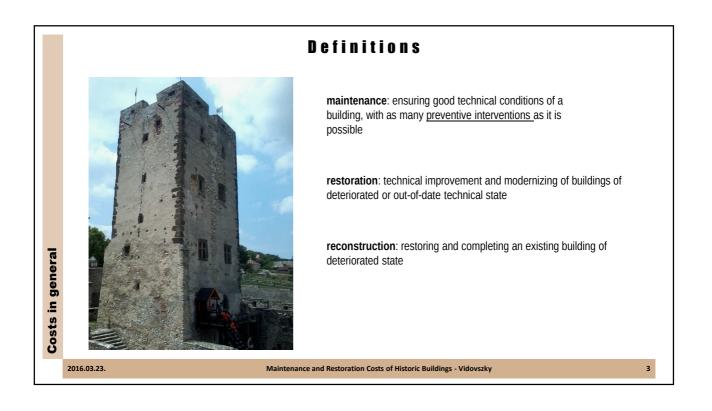
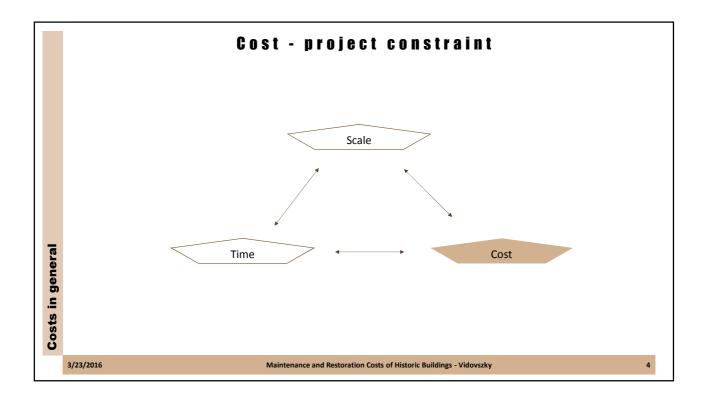
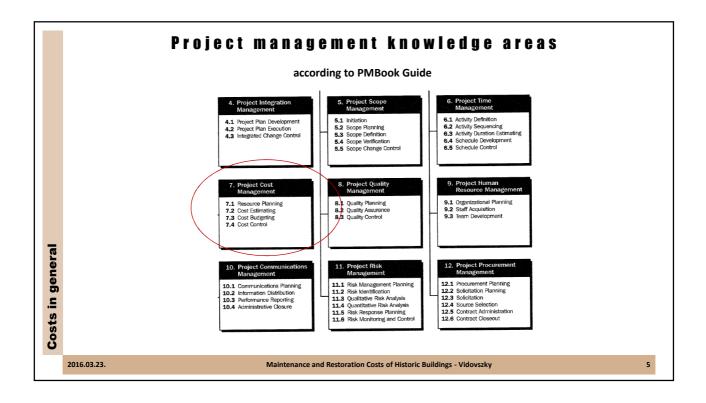
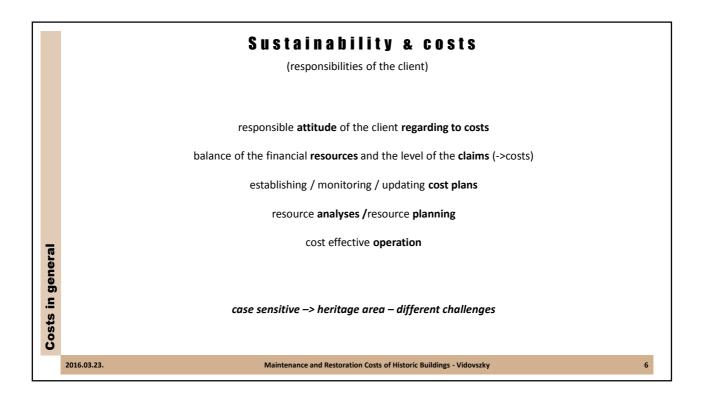
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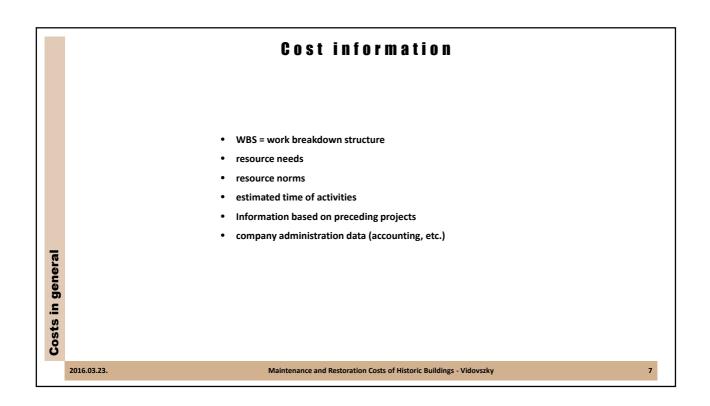


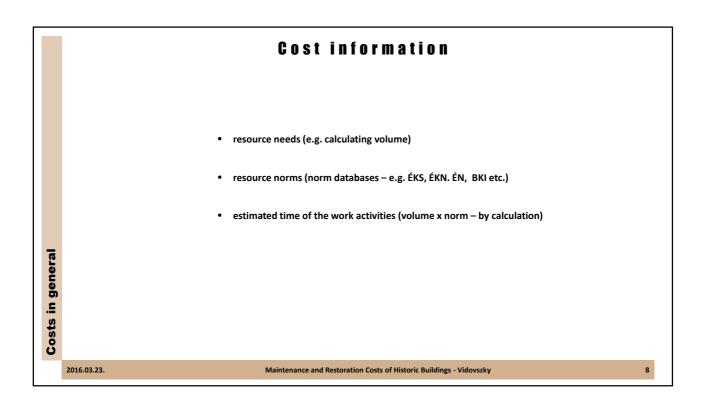


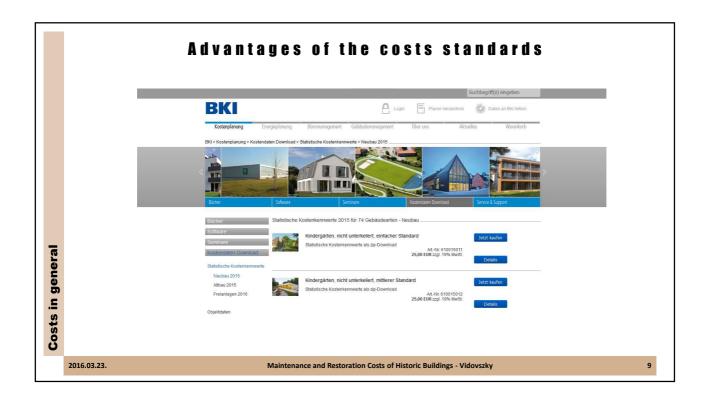


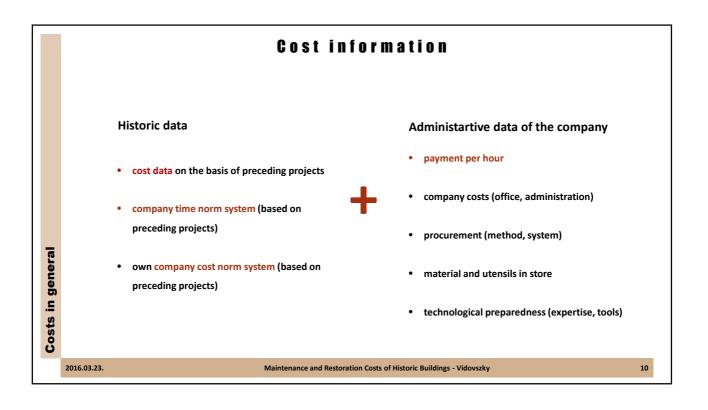




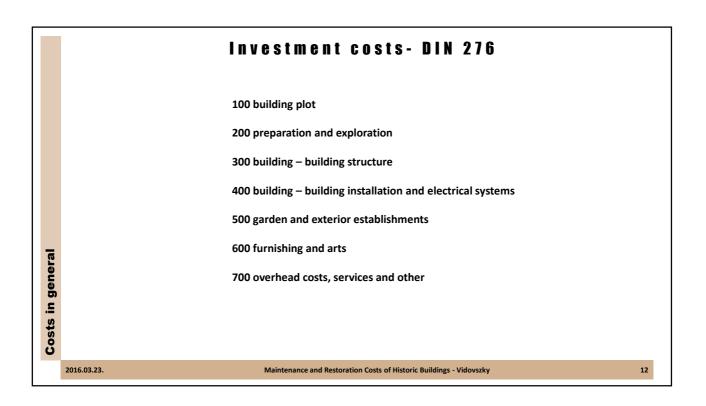


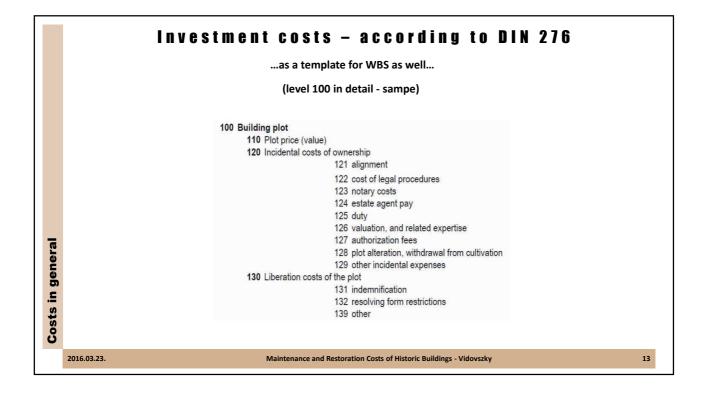




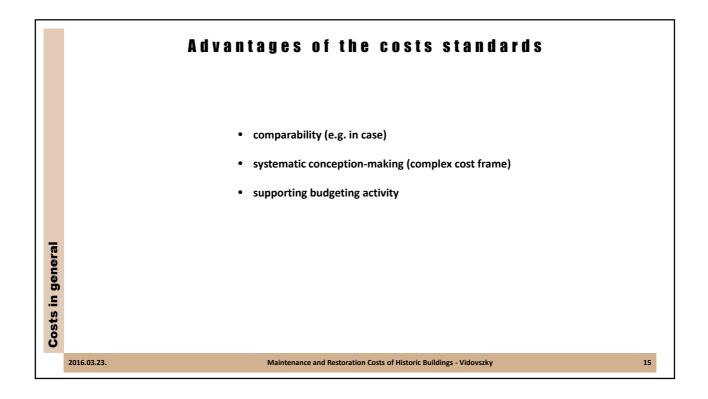


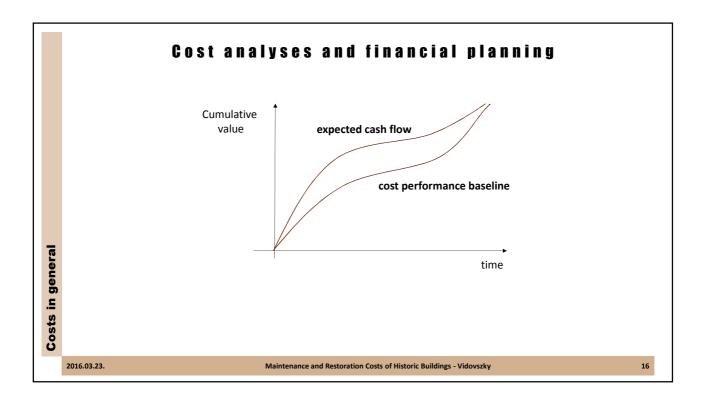
Investment costs			
	cost type	content	
1.	service fees	expertices, planning fees, fee of the quality surveyor, etc.	
2.	procedure fees, tax	Fees and dues, local taxes	
3.	cost of the plot	building plot, public utilities, traffic	
4.	construction cost	one or more item according to contract	
5.	furnishing	installation, furniture, pieces of art	
6.	operation costs	fees of the public services, cleaning of the building, maintenance, gardening	

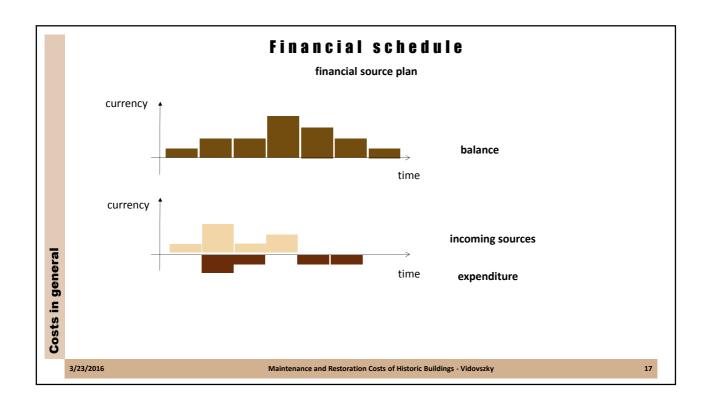




	Fields of cost:	•0: Basement	
		•1: Exploration	
		•2: Building – Superstructure	
		 Building – Building installation 	
		 4: Building – Finishing works 	
		•5: Furnishing	
		 6: Exterior estalishmets 	
		•7: Fees	
		•8: Overheads	
		•9: Reserve	
	Group of fields:	2+3+4 field = Building costs	
	croup of fictus.	1+2+3+4+5+6 field = Construction costs	
		1+2+3+4+5+6+7+8+9 field = Establishmet costs	
		0+1+2+3+4+5+6+7+8+9 field = Total costs	
2016.03.23.		Maintenance and Restoration Costs of Historic Buildings - Vidovszky	14

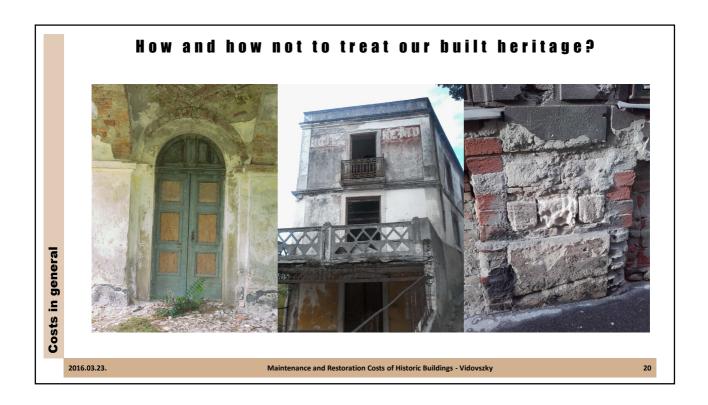




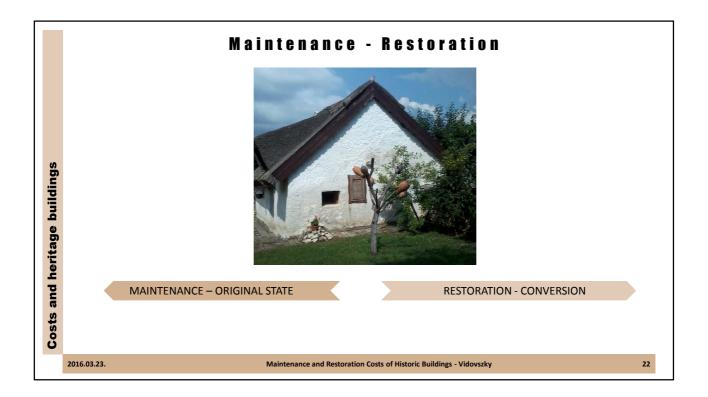


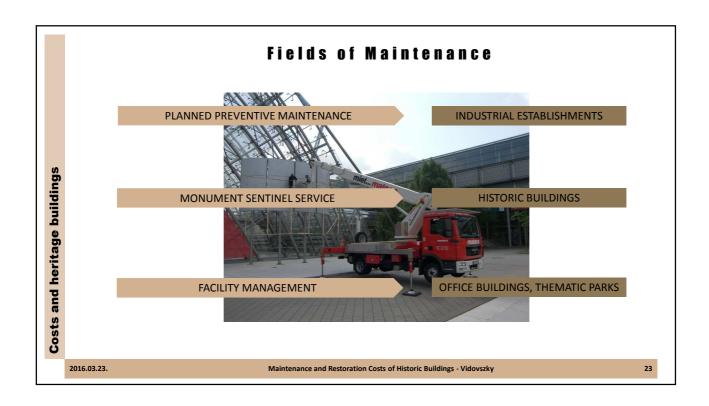
Phase	Cost analyses	Basis of calculation	Method	
1. preparation	Preliminary cost estimation	Architectural program	e.g. market benchmarking	
2. start-up	Building model-based cost estimation	Draft plan, competition plan	e.g. surface based calculation – based o general cost norms	
3. planning	Structural-based cost estimation	Building consents	e.g. structural element based calculation with structural element or construction activity related general cost norms	
4. quotation	Detailed cost calculation	Construction plan or detailed technical specification (tender plan)	e.g. structural element and/or construction activity based calculation with structural element or construction activity related company cost norms (historic data)	

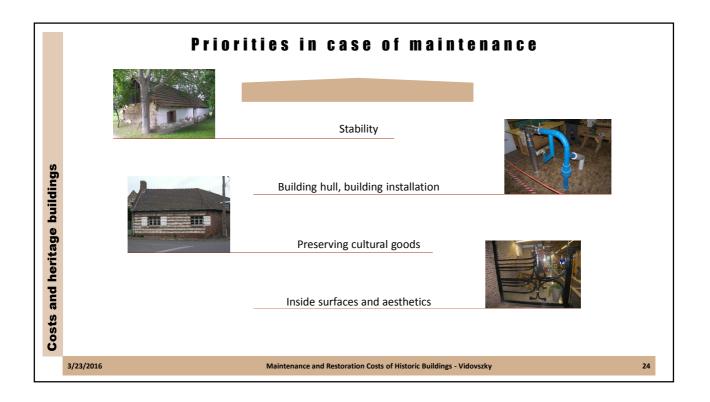
Phase of cost analyses	Basis of comparison	Phase of financial planning
1. preparation	Preliminary cost estimation	Preliminary financial source analyses
2. start-up	Building model-based cost estimation	Financial planning, preliminar financial schedule
3. planning	Structural-based cost estimation	Budgeting, detailed financial schedule
4. Quotation	Detailed cost calculation	Financial monitoring

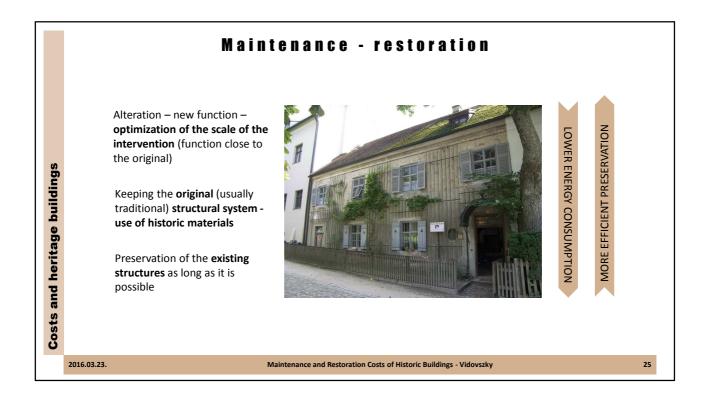


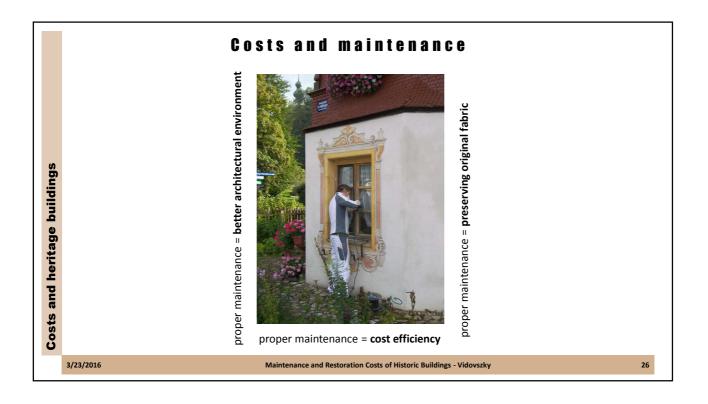


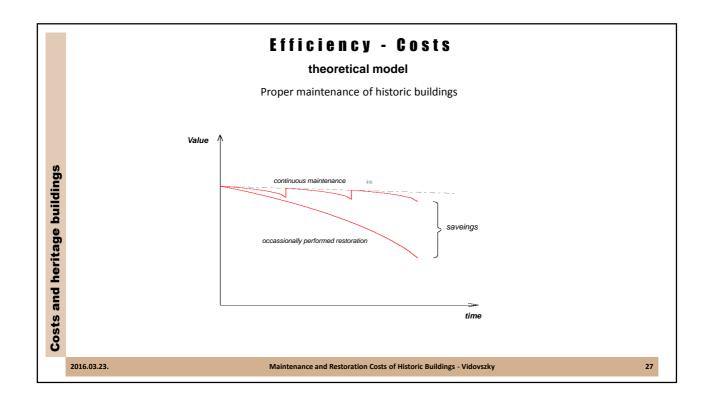


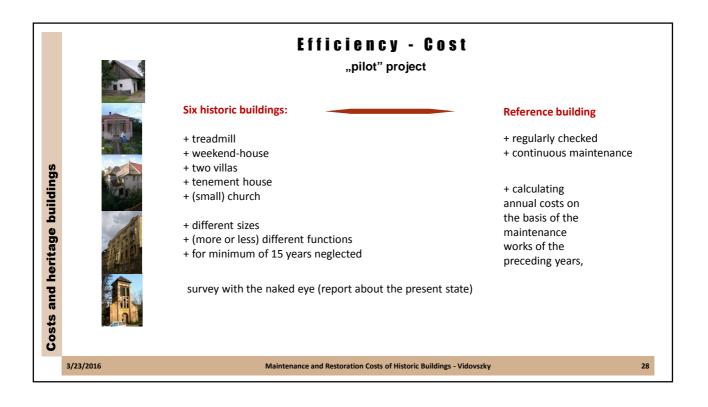












	"pilot" project - results							
C	omparised cost							
	Building type	Annualized cost of the restoration after 15 years of negligence (EUR)	Annual average costs in case of regular maintenance (EUR)	Savings (EUR)	Savings (%)			
	treadmill	335	183	152,03	45%			
	cottage	2 359	1 337	1021,84	43%			
	smaller villa	2 518	2 095	423,72	16%			
	church	1 124	722	401,71	36%			
	larger villa	4 596	839	3757,56	82%			
	apartment house	2 555	419	2135,97	84%			
16.03.23.		Maintenance and Res						

