COST 526	"Automatic Process Optimization in Materials Technology" (APOMAT)	
Title of Proposal:	Optimization of process parameters in sheet metal forming	
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Work Packages		Coworker Months	2001				2002												2003												2004							
			9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8
WP 1	**Definition of optim. problems**	**7**	X	X	X	X	X	X	X																													
WP 1.1	Def. of Design variables for the tools and workpiece	2	X	X																																		
WP 1.2	Obj. function and constraints	3			X	X	X																															
WP 1.3	Def. of application problems academic(a) and industrial(i)	2						X	X																													
WP 2	**Optim. with Inverse Approach (REFORM)**	**7**								X	X	X	X	X	X	X																						
WP 2.1	Math. prog. optim. with ex.(a)	4								X	X	X	X																									
WP 2.2	Response surf. Optim, ex.(a)	3												X	X	X																						
WP 3	**Improvement of Resp. Surf.**	**7**															X	X	X	X	X	X	X															
WP 3.1	Handling of constraints	2															X	X																				
WP 3.2	Increasing Nb of design var.	2																	X	X																		
WP 3.3	Using sensitivity analysis	1																			X																	
WP 3.4	Validation on ex. (a)	2																				X	X															
WP 4	**Optim. with Incremental approach**	**12**																						X	X	X	X	X	X	X	X	X	X	X	X			
WP 4.1	Comparison of Inverse. and Incr. Analysis, ex. (a) and (i)	2																						X	X													
WP 4.2	Def Qual. func. for Incr. App.	2																								X	X											
WP4.3	Coupling Incr. Analysis. with Resp. surface Optim.	1																										X										
WP 4.4	Validation	1																											X									
WP 4.5	Application to ex (i), compar. of quality funct. and des. var.	6																												X	X	X	X	X	X			
WP 5	**Conclusion, Final report**	**3**																																		X	X	X