

	2011												2012												2013											
	month 1	month 2	month 3	month 4	month 5	month 6	month 7	month 8	month 9	month 10	month 11	month 12	month 13	month 14	month 15	month 16	month 17	month 18	month 19	month 20	month 21	month 22	month 23	month 24	month 25	...	month 36									
RESEARCH PROJECT PLANET	→ ...																																			
1. KNOWLEDGE UPDATE																																				
1.1 Type of asphalt plants																																				
1.2 WMA impacts on plant																																				
2. NATIONAL / INTERNATIONAL SURVEY																																				
2.1 Questionnaire to selected plants																																				
3. EMISSIONS MEASUREMENTS CAMPAIGNS																																				
3.1 Plant selection																																				
3.2 Measurements																																				
3.3 Data analysis and treatment																																				
4. ENERGY CONSIDERATIONS																																				
4. Energy considerations																																				
5. IMPACTS OF WMA PRODUCTION ON PLANTS																																				
5. Impacts of WMA production on plants																																				
6. COST BENEFIT ANALYSIS (CBA)																																				
6. Cost Benefit Analysis (CBA)																																				
7. BEST PRACTICE FOR WMA PRODUCTION																																				
7. Best Practice for WMA production																																				
8. CONCLUSIONS AND RECOMMENDATIONS																																				
8. Conclusions and recommendations																																				

◊ : intermediate report / final report

◊ : Intermediate report / final report

Coordination meetings: to be defined by the project management (RS-0)

Figure 3: Planning for RS-1

WORKING STEPS	Costs												
	Personal costs								Total hours [h]	Tot. personal costs [CHF]	Material Costs[CHF]	Investments Costs[CHF]	Total per step [CHF]
	Cat. A*	Cat. B*	Cat. B	Cat. C*	Cat. C	Cat. D	Cat. E	Cat. F					
	140	120	180	103.35	155	132	110	100					
1. KNOWLEDHGE UPDATE									74	7'961	500	0	8'461
1.1 Type of asphalt plants	2	5		30					37	3'981	250		
1.2 WMA impacts on plant	2	5		30					37	3'981	250		
2. NATIONAL / INTERNATIONAL SURVEY									55	5'837	500	0	6'337
2.1 Questionnaire to selected plants	3	5		35				12	55	5'837	500		
3. EMISSIONS MEASUREMENTS CAMPAIGNS									336	40'475	900	13'000	54'375
3.1 Plant selection	3	2		25		7			37	4'168	250		
3.2 Measurements	5	10	20	60	15	30	30		170	21'286	400	12'000	
3.3 Data analysis and treatment	6	15	4	60	4	20	20		129	15'021	250	1'000	
4. ENERGY CONSIDERATIONS									93	9'821	250	0	10'071
4. Energy considerations	3	6		84					93	9'821	250		
5. IMPACTS OF WMA PRODUCTION ON PLANTS									212	25'165	250	2'000	27'415
5. Impacts of WMA production on plants	5	10	12	85		60	40		212	25'165	250	2'000	
6. COST BENEFIT ANALYSIS (CBA)									99	10'581	250	0	10'831
6. Cost Benefit Analysis (CBA)	5	10		84					99	10'581	250		
7. BEST PRACTICE FOR WMA PRODUCTION									65	7'068	250	0	7'318
7. Best Practice for WMA production	5	10		50					65	7'068	250		
8. CONCLUSIONS AND RECOMMENDATIONS									120	13'068	2'124	0	15'192
8. Conclusions and recommendations	10	20		80				10	120	13'068	2'124		
Complete Budget	49	98	36	623	19	117	90	22	1'054	119'976	5'024	15'000	140'000

* : Reduced costs (EPF) for LAVOC

Ammann personal costs for a total amount of 9425 CHF

Figure 4: Financial planning for RS-1