

Operating costs of the project, in EUR**Fixed operating expenses (other than for maintenance of assets), EUR/year**

Labour unit costs (including employers contributions), 2008			
Category	Lei (RON) per month	= EUR per year	Category N°
Labour unit costs (including employers contrib.)			
Worker, unskilled	1.920	6.227	1
Driver, handler	2.400	7.784	2
Worker, skilled	2.080	6.746	3
Technician	2.400	7.784	4
Supervisor	3.840	12.454	5
Chief engineer	5.760	18.681	6

Labour, 2010-2016

	Category						Sum
	1	2	3	4	5	6	
	Worker, unskilled Nr/ann.cost	Driver, handler Nr/ann.cost	Worker, skilled Nr/ann.cost	Technician Nr/ann.cost	Supervisor Nr/ann.cost	Chief engineer Nr/ann.cost	
MBT plant	Nr. 4 Annual cost 24.908	Nr. 6 Annual cost 46.703	Nr. 3 Annual cost 23.351	Nr. 4 Annual cost 49.816	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 18.681	144.778
Transfer station zone 2	Nr. 4 Annual cost 31.135	Nr. 2 Annual cost 13.492	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 18.681	57.081
Transfer station zone 3	Nr. 4 Annual cost 31.135	Nr. 2 Annual cost 13.492	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 18.681	57.081
Transfer station zone 4	Nr. 4 Annual cost 31.135	Nr. 2 Annual cost 13.492	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 18.681	57.081
Sorting station (MRF)	Nr. 36 Annual cost 224.173	Nr. 4 Annual cost 26.984	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 18.681	263.611
Landfill	Nr. 3 Annual cost 23.351	Nr. 4 Annual cost 26.984	Nr. 2 Annual cost 24.908	Nr. 1 Annual cost 18.681	Nr. 1 Annual cost 18.681	Nr. 1 Annual cost 18.681	75.243

Labour, 2017-2037

	Category						Sum
	1	2	3	4	5	6	
	Worker, unskilled Nr/ann.cost	Driver, handler Nr/ann.cost	Worker, skilled Nr/ann.cost	Technician Nr/ann.cost	Supervisor Nr/ann.cost	Chief engineer Nr/ann.cost	
MBT plant	Nr. 4 Annual cost 24.908	Nr. 9 Annual cost 70.054	Nr. 2 Annual cost 13.492	Nr. 3 Annual cost 23.351	Nr. 5 Annual cost 62.270	Nr. 1 Annual cost 12.454	194.076
Transfer station zone 2	Nr. 4 Annual cost 31.135	Nr. 2 Annual cost 13.492	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 18.681	57.081
Transfer station zone 3	Nr. 4 Annual cost 31.135	Nr. 2 Annual cost 13.492	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 18.681	57.081
Transfer station zone 4	Nr. 4 Annual cost 31.135	Nr. 2 Annual cost 13.492	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 18.681	57.081
Sorting station (MRF)	Nr. 50 Annual cost 311.351	Nr. 6 Annual cost 40.476	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 12.454	Nr. 1 Annual cost 18.681	364.281
Landfill	Nr. 3 Annual cost 23.351	Nr. 4 Annual cost 26.984	Nr. 2 Annual cost 24.908	Nr. 1 Annual cost 18.681	Nr. 1 Annual cost 18.681	Nr. 1 Annual cost 18.681	75.243

Landfill Maintenance, monitoring, insurance, aftercare Amount required in 2037 3.800.000 EUR

Variable operating costs, EUR

MBT plant Electricity 95 kWh/t of composting capacity Price per kWh 0,11 EUR

Landfill Energy 3 EUR/t of landfill capacity

Financial analysis of measures proposed by the Master Plan, Salaj County

Annex 8/2 (Salaj scenario 1)

Performance									
	2008	2009	2010	2011	2012	2013	2014	2015	2016
Composting capacity (t/yr)			30.284	30.432	30.582	31.613	31.769	31.925	32.170
Landfill capacity (t/yr)			21.082	28.402	28.540	28.677	28.817	30.275	30.422
from sorting + other zones			9.935	14.294	14.363	14.431	14.500	15.446	15.519
from composting			11.147	14.108	14.177	14.246	14.317	14.829	14.902
Cash flow, EUR									
1. Additional expenses through the project (level from transfer stations up to central installations)									
Investments and replacements									
- Project, not including collection equipment		24.512.776	1.102.772						264.665
Total composting plant		3.221.673							
Total transfer station zone 2		1.295.943							
Total transfer station zone 3		1.135.736							
Total transfer station zone 4		1.135.736							
Total sorting station (MRF)		4.212.600							
Total landfill		4.411.088	1.102.772						264.665
Total additional measures		9.100.000							
- Collection equipment		3.978.219							
Maintenance of assets not including collection equ.			327.223	327.223	327.223	327.223	327.223	327.223	327.223
Composting plant			74.105	74.105	74.105	74.105	74.105	74.105	74.105
Transfer station zone 2			29.418	29.418	29.418	29.418	29.418	29.418	29.418
Transfer station zone 3			24.447	24.447	24.447	24.447	24.447	24.447	24.447
Transfer station zone 4			24.447	24.447	24.447	24.447	24.447	24.447	24.447
Sorting station (MRF)			75.827	75.827	75.827	75.827	75.827	75.827	75.827
Landfill			98.978	98.978	98.978	98.978	98.978	98.978	98.978
Maintenance of bins for collection			10.982	10.982	10.982	10.982	10.982	10.982	10.982
Labour			554.205	554.205	554.205	554.205	554.205	554.205	554.205
Composting plant			67.459	67.459	67.459	67.459	67.459	67.459	67.459
Transfer station zone 2			57.081	57.081	57.081	57.081	57.081	57.081	57.081
Transfer station zone 3			49.297	49.297	49.297	49.297	49.297	49.297	49.297
Transfer station zone 4			49.297	49.297	49.297	49.297	49.297	49.297	49.297
Sorting station (MRF)			263.611	263.611	263.611	263.611	263.611	263.611	263.611
Landfill			67.459	67.459	67.459	67.459	67.459	67.459	67.459
Maintenance, monitoring, insurance and aftercare of landfills¹⁾ (also old landfills)			556.500	556.500	556.500	321.500	321.500	321.500	321.500
Variable costs, not including collection			650.584	675.322	678.583	713.093	716.511	723.884	730.712
Composting plant, energy			209.126	210.145	211.184	218.299	219.377	220.455	222.147
Landfill, energy			63.245	85.205	85.620	86.031	86.451	90.826	91.265
Transport from transfer stations to landfill									
- Zone 2			269.093	270.356	271.655	286.440	287.810	289.180	293.315
- Zone 3			55.607	55.855	56.135	62.327	62.607	62.888	63.182
- Zone 4			53.513	53.762	53.990	59.997	60.266	60.535	60.802
Total expenses, not including collection and transport to transfer stations		24.512.776	3.191.284	2.113.250	2.116.511	1.916.021	1.919.439	1.926.812	2.198.306
of which for central installations and addit. measures		20.945.361	2.579.082	1.499.289	1.500.743	1.273.269	1.274.767	1.280.220	1.547.017
for zone 2		1.295.943	355.593	356.855	358.154	372.939	374.310	375.680	379.815
for zone 3		1.135.736	129.352	129.599	129.880	136.071	136.352	136.632	136.927
for zone 4		1.135.736	127.258	127.507	127.734	133.741	134.010	134.280	134.547
+ Administrative costs (25% on operating costs)			522.128	528.313	529.128	479.005	479.860	481.703	483.410
of which									
Central installations and addit. measures			369.077	374.822	375.186	318.317	318.692	320.055	320.588
Zone 2			88.898	89.214	89.538	93.235	93.577	93.920	94.954
Zone 3			32.338	32.400	32.470	34.018	34.088	34.158	34.232
Zone 4			31.814	31.877	31.934	33.435	33.503	33.570	33.637
2. Total expenses related to waste service up to the transfer stations									
Cost per t excluding landfilling		42,80							
EUR /t =			2.394.993	2.406.573	2.418.398	2.521.496	2.533.809	2.546.122	2.564.790
3. Total all expenses		24.512.776	6.108.405	5.048.136	5.064.037	4.916.522	4.933.108	4.954.637	5.246.506
4. Receipts with the project									
Total receipts from billing net of VAT (at a collection efficiency of	90,0%	1.953.202	2.250.894	2.547.656	2.678.158	2.817.998	2.947.798	3.819.896	3.718.298
Sales of recyclables at average price per t of EUR	50,0		929.014	933.430	937.937	973.136	977.787	982.497	987.216
1) Of which annuity 55,500 for an amount of	3.800.000	EUR to be available at the end of the project, at an interest rate of 6.0% p.a.							

Financial analysis of measures proposed by the Master Plan, Salaj County

Annex 8/2 (Salaj scenario 1)

Performance								
	2017	2018	2019	2020	2021	2022	2023	2024
Composting capacity (t/yr)	32.241	32.400	32.633	32.865	33.098	33.337	33.577	33.816
Landfill capacity (t/yr)	30.568	30.784	30.864	31.014	31.236	31.459	31.681	31.909
from sorting + other zones	15.593	15.693	15.741	15.817	15.930	16.043	16.156	16.272
from composting	14.975	15.092	15.123	15.197	15.307	15.416	15.525	15.637
Cash flow, EUR								
1. Additional expenses through the project (level from transfer								
Investments and replacements								
- Project, not including collection equipment	5.600.962							5.445.255
Total composting plant	858.535							1.666.000
Total transfer station zone 2	1.568.858							393.943
Total transfer station zone 3	503.400							386.750
Total transfer station zone 4	394.500							386.750
Total sorting station (MRF)	337.008							1.685.040
Total landfill	1.938.661							926.772
Total additional measures								
- Collection equipment	3.477.069							1.098.219
Maintenance of assets not including collection equ.	327.223	413.244	413.244	413.244	413.244	413.244	413.244	413.244
Composting plant	74.105	88.926	88.926	88.926	88.926	88.926	88.926	88.926
Transfer station zone 2	29.418	63.487	63.487	63.487	63.487	63.487	63.487	63.487
Transfer station zone 3	24.447	26.625	26.625	26.625	26.625	26.625	26.625	26.625
Transfer station zone 4	24.447	25.536	25.536	25.536	25.536	25.536	25.536	25.536
Sorting station (MRF)	75.827	85.937	85.937	85.937	85.937	85.937	85.937	85.937
Landfill	98.978	122.733	122.733	122.733	122.733	122.733	122.733	122.733
Maintenance of bins for collection	10.982	12.630	12.630	12.630	12.630	12.630	12.630	12.630
Labour	656.432	656.432	656.432	656.432	656.432	656.432	656.432	656.432
Composting plant	81.470	81.470	81.470	81.470	81.470	81.470	81.470	81.470
Transfer station zone 2	57.081	57.081	57.081	57.081	57.081	57.081	57.081	57.081
Transfer station zone 3	49.297	49.297	49.297	49.297	49.297	49.297	49.297	49.297
Transfer station zone 4	49.297	49.297	49.297	49.297	49.297	49.297	49.297	49.297
Sorting station (MRF)	351.827	351.827	351.827	351.827	351.827	351.827	351.827	351.827
Landfill	67.459	67.459	67.459	67.459	67.459	67.459	67.459	67.459
Maintenance, monitoring, insurance and aftercare of landfills¹⁾ (also old landfills)	321.500	321.500	321.500	321.500	321.500	321.500	321.500	321.500
Variable costs, not including collection	730.817	734.522	739.357	744.400	749.662	755.036	760.409	765.799
Composting plant, energy	222.635	223.733	225.341	226.949	228.558	230.209	231.859	233.510
Landfill, energy	91.704	92.353	92.593	93.042	93.709	94.376	95.044	95.727
Transport from transfer stations to landfill								
- Zone 2	291.939	293.327	295.423	297.519	299.615	301.763	303.912	306.060
- Zone 3	63.465	63.745	64.201	64.657	65.113	65.575	66.036	66.498
- Zone 4	61.074	61.364	61.798	62.233	62.668	63.113	63.558	64.003
Total expenses, not including collection and transport to transfer stations	7.636.934	2.125.699	2.130.534	2.135.577	2.140.839	2.146.212	2.151.586	7.602.230
of which for central installations and addit. measures	4.519.709	1.435.938	1.437.787	1.439.843	1.442.119	1.444.437	1.446.755	5.726.902
for zone 2	1.947.297	413.895	415.991	418.087	420.183	422.331	424.480	820.571
for zone 3	640.610	139.668	140.124	140.580	141.036	141.498	141.959	529.171
for zone 4	529.318	136.197	136.632	137.067	137.501	137.946	138.392	525.587
+ Administrative costs (25% on operating costs)	508.993	531.425	532.633	533.894	535.210	536.553	537.896	539.244
of which								
Central installations and addit. measures	346.376	358.984	359.447	359.961	360.530	361.109	361.689	362.272
Zone 2	94.610	103.474	103.998	104.522	105.046	105.583	106.120	106.657
Zone 3	34.302	34.917	35.031	35.145	35.259	35.374	35.490	35.605
Zone 4	33.705	34.049	34.158	34.267	34.375	34.487	34.598	34.709
2. Total expenses related to waste service up to the transfer sta								
Cost per t excluding landfilling	42,80							
EUR /t =	2.571.035	2.583.594	2.602.145	2.620.696	2.639.247	2.658.267	2.677.288	2.696.308
3. Total all expenses	10.716.963	5.240.717	5.265.312	5.290.167	5.315.296	5.341.033	5.366.770	10.837.782
4. Receipts with the project								
Total receipts from billing net of VAT (at a collection efficiency of	3.599.631	3.462.742	3.609.958	3.764.288	3.926.078	4.095.562	4.272.775	4.457.662
Sales of recyclables at average price per t of EUR	1.044.856	1.049.864	1.057.373	1.064.882	1.072.392	1.080.090	1.087.787	1.095.485
1) Of which annuity 55,500 for an amount of								

Financial analysis of measures proposed by the Master Plan, Salaj County

Annex 8/2 (Salaj scenario 1)

Performance						
	2025	2026	2027	2028	2029	2030
Composting capacity (t/yr)	34.055	34.301	34.548	34.795	35.042	35.288
Landfill capacity (t/yr)	32.137	32.365	32.593	32.828	33.063	33.299
from sorting + other zones	16.388	16.504	16.620	16.739	16.859	16.978
from composting	15.749	15.861	15.973	16.089	16.205	16.320
Cash flow, EUR						
1. Additional expenses through the project (level from transfer						
Investments and replacements						
- Project, not including collection equipment	2.873.944					
Total composting plant	257.040					
Total transfer station zone 2	954.504					
Total transfer station zone 3	285.600					
Total transfer station zone 4	285.600					
Total sorting station (MRF)						
Total landfill	1.091.200					
Total additional measures						
- Collection equipment	3.312.243					
Maintenance of assets not including collection equ.	413.244	413.244	413.244	413.244	413.244	413.244
Composting plant	88.926	88.926	88.926	88.926	88.926	88.926
Transfer station zone 2	63.487	63.487	63.487	63.487	63.487	63.487
Transfer station zone 3	26.625	26.625	26.625	26.625	26.625	26.625
Transfer station zone 4	25.536	25.536	25.536	25.536	25.536	25.536
Sorting station (MRF)	85.937	85.937	85.937	85.937	85.937	85.937
Landfill	122.733	122.733	122.733	122.733	122.733	122.733
Maintenance of bins for collection	12.630	12.630	12.630	12.630	12.630	12.630
Labour	656.432	656.432	656.432	656.432	656.432	656.432
Composting plant	81.470	81.470	81.470	81.470	81.470	81.470
Transfer station zone 2	57.081	57.081	57.081	57.081	57.081	57.081
Transfer station zone 3	49.297	49.297	49.297	49.297	49.297	49.297
Transfer station zone 4	49.297	49.297	49.297	49.297	49.297	49.297
Sorting station (MRF)	351.827	351.827	351.827	351.827	351.827	351.827
Landfill	67.459	67.459	67.459	67.459	67.459	67.459
Maintenance, monitoring, insurance and aftercare of landfills¹⁾ (also old landfills)	321.500	321.500	321.500	321.500	321.500	251.500
Variable costs, not including collection	771.188	776.733	782.277	787.844	793.412	798.979
Composting plant, energy	235.161	236.865	238.569	240.273	241.977	243.681
Landfill, energy	96.411	97.095	97.778	98.484	99.190	99.896
Transport from transfer stations to landfill						
- Zone 2	308.209	310.428	312.648	314.867	317.087	319.307
- Zone 3	66.959	67.437	67.915	68.394	68.872	69.350
- Zone 4	64.448	64.907	65.367	65.827	66.286	66.746
Total expenses, not including collection and transport to transfer stations	5.036.309	2.167.909	2.173.454	2.179.021	2.184.588	2.120.155
of which for central installations and addit. measures	2.799.664	1.453.812	1.456.199	1.458.609	1.461.019	1.393.429
for zone 2	1.383.281	430.996	433.216	435.435	437.655	439.875
for zone 3	428.482	143.360	143.838	144.316	144.794	145.272
for zone 4	424.882	139.741	140.201	140.660	141.120	141.579
+ Administrative costs (25% on operating costs)	540.591	541.977	543.364	544.755	546.147	530.039
of which						
Central installations and addit. measures	362.856	363.453	364.050	364.652	365.255	348.357
Zone 2	107.194	107.749	108.304	108.859	109.414	109.969
Zone 3	35.721	35.840	35.960	36.079	36.199	36.318
Zone 4	34.820	34.935	35.050	35.165	35.280	35.395
2. Total expenses related to waste service up to the transfer sta						
Cost per t excluding landfilling						
42,80						
EUR /t =	2.715.329	2.734.966	2.754.604	2.774.241	2.793.878	2.813.516
3. Total all expenses	8.292.229	5.444.853	5.471.421	5.498.017	5.524.614	5.463.710
4. Receipts with the project						
Total receipts from billing net of VAT						
(at a collection efficiency of	4.650.255	4.850.684	5.059.082	5.275.763	5.501.336	5.736.343
Sales of recyclables						
at average price per t of EUR	1.103.183	1.111.140	1.157.209	1.165.437	1.173.664	1.181.892
1) Of which annuity 55,500 for an amount of						

Financial analysis of measures proposed by the Master Plan, Salaj County

Annex 8/2 (Salaj scenario 1)

Performance								
	2031	2032	2033	2034	2035	2036	2037	Resid.val.
Composting capacity (t/yr)	35.546	35.804	36.061	36.319	36.577	36.834	37.092	
Landfill capacity (t/yr)	33.534	33.769	34.015	34.260	34.506	34.751	34.997	
from sorting + other zones	17.098	17.218	17.342	17.467	17.592	17.717	17.841	
from composting	16.436	16.552	16.672	16.793	16.914	17.035	17.156	
Cash flow, EUR								
1. Additional expenses through the project (level from transfer								
Investments and replacements								
- Project, not including collection equipment		1.833.688	2.873.944					4.372.056
Total composting plant		333.200	257.040					751.650
Total transfer station zone 2		614.354	954.504					973.081
Total transfer station zone 3		217.800	285.600					370.459
Total transfer station zone 4		108.900	285.600					297.859
Total sorting station (MRF)		337.008						617.848
Total landfill		222.425	1.091.200					1.361.159
Total additional measures								
- Collection equipment		164.826	3.312.243					1.912.435
Maintenance of assets not including collection equ.	413.244	413.244	413.244	413.244	413.244	413.244	413.244	
Composting plant	88.926	88.926	88.926	88.926	88.926	88.926	88.926	
Transfer station zone 2	63.487	63.487	63.487	63.487	63.487	63.487	63.487	
Transfer station zone 3	26.625	26.625	26.625	26.625	26.625	26.625	26.625	
Transfer station zone 4	25.536	25.536	25.536	25.536	25.536	25.536	25.536	
Sorting station (MRF)	85.937	85.937	85.937	85.937	85.937	85.937	85.937	
Landfill	122.733	122.733	122.733	122.733	122.733	122.733	122.733	
Maintenance of bins for collection	12.630	12.630	12.630	12.630	12.630	12.630	12.630	
Labour	656.432	656.432	656.432	656.432	656.432	656.432	656.432	
Composting plant	81.470	81.470	81.470	81.470	81.470	81.470	81.470	
Transfer station zone 2	57.081	57.081	57.081	57.081	57.081	57.081	57.081	
Transfer station zone 3	49.297	49.297	49.297	49.297	49.297	49.297	49.297	
Transfer station zone 4	49.297	49.297	49.297	49.297	49.297	49.297	49.297	
Sorting station (MRF)	351.827	351.827	351.827	351.827	351.827	351.827	351.827	
Landfill	67.459	67.459	67.459	67.459	67.459	67.459	67.459	
Maintenance, monitoring, insurance and aftercare of landfills¹⁾ (also old landfills)	251.500	251.500	251.500	251.500	251.500	251.500	251.500	
Variable costs, not including collection	804.753	810.528	816.334	822.139	827.945	833.750	839.556	
Composting plant, energy	245.460	247.239	249.018	250.797	252.576	254.355	256.135	
Landfill, energy	100.602	101.308	102.045	102.781	103.518	104.254	104.991	
Transport from transfer stations to landfill								
- Zone 2	321.620	323.934	326.248	328.562	330.876	333.190	335.504	
- Zone 3	69.846	70.343	70.840	71.337	71.834	72.331	72.828	
- Zone 4	67.225	67.704	68.183	68.662	69.141	69.620	70.099	
Total expenses, not including collection and transport to transfer stations	2.125.930	3.965.393	5.011.454	2.143.316	2.149.121	2.154.927	2.160.732	
of which for central installations and addit. measures	1.395.914	2.291.032	2.749.155	1.403.431	1.405.946	1.408.462	1.410.978	2.730.657
for zone 2	442.189	1.058.857	1.401.320	449.130	451.444	453.758	456.072	973.081
for zone 3	145.769	364.066	432.363	147.260	147.756	148.253	148.750	370.459
for zone 4	142.058	251.437	428.616	143.496	143.975	144.454	144.933	297.859
+ Administrative costs (25% on operating costs)	531.483	532.926	534.378	535.829	537.280	538.732	540.183	
of which								
Central installations and addit. measures	348.979	349.600	350.229	350.858	351.487	352.115	352.744	
Zone 2	110.547	111.126	111.704	112.283	112.861	113.440	114.018	
Zone 3	36.442	36.566	36.691	36.815	36.939	37.063	37.188	
Zone 4	35.515	35.634	35.754	35.874	35.994	36.113	36.233	
2. Total expenses related to waste service up to the transfer sta								
Cost per t excluding landfilling								
42,80								
EUR /t =	2.834.012	2.854.508	2.875.003	2.895.499	2.915.995	2.936.491	2.956.987	
3. Total all expenses	5.491.424	7.352.826	8.420.835	5.574.644	5.602.397	5.630.150	5.657.902	
4. Receipts with the project								
Total receipts from billing net of VAT (at a collection efficiency of	5.949.205	6.164.484	6.382.107	6.601.818	6.823.425	7.046.704	7.271.486	
Sales of recyclables at average price per t of EUR	1.190.474	1.199.057	1.207.640	1.216.222	1.224.805	1.233.388	1.241.970	
1) Of which annuity 55,500 for an amount of								

Financial analysis of measures proposed by the Master Plan, Salaj County

Annex 8/2 (Salaj scenario 2)

Performance							
		2009	2010	2011	2012	2013	2014
Composting capacity (t/yr)			30.200	30.347	30.497	31.523	31.678
Landfill capacity (t/yr)			24.263	24.379	24.498	25.805	25.929
from sorting + other zones			14.481	14.550	14.620	15.576	15.650
from composting			9.782	9.829	9.878	10.229	10.280
Cash flow, EUR							
1. Additional expenses through the projec (level from transfer stations up to central installations)							
Investments and replacements							
- Project, not including collection equipment		40.095.703	1.102.772				
Total MBT plant		18.804.600					
Total transfer station zone 2		1.295.943					
Total transfer station zone 3		1.135.736					
Total transfer station zone 4		1.135.736					
Total sorting station (MRF)		4.212.600					
Total landfill		4.411.088	1.102.772				
Total additional measures		9.100.000					
- Collection equipment		3.440.472		537.747			
Maintenance of assets not including collection eqt			687.695	687.695	687.695	687.695	687.695
MBT plant			434.578	434.578	434.578	434.578	434.578
Transfer station zone 2			29.418	29.418	29.418	29.418	29.418
Transfer station zone 3			24.447	24.447	24.447	24.447	24.447
Transfer station zone 4			24.447	24.447	24.447	24.447	24.447
Sorting station (MRF)			75.827	75.827	75.827	75.827	75.827
Landfill			98.978	98.978	98.978	98.978	98.978
Maintenance of bins for collection			10.982	10.982	10.982	10.982	10.982
Labour			654.876	654.876	654.876	654.876	654.876
MBT plant			144.778	144.778	144.778	144.778	144.778
Transfer station zone 2			57.081	57.081	57.081	57.081	57.081
Transfer station zone 3			57.081	57.081	57.081	57.081	57.081
Transfer station zone 4			57.081	57.081	57.081	57.081	57.081
Sorting station (MRF)			263.611	263.611	263.611	263.611	263.611
Landfill			75.243	75.243	75.243	75.243	75.243
Maintenance, monitoring, insurance and aftercare of landfills			556.500	556.500	556.500	321.500	321.500
Fixed operating costs MBT plant			365.844	365.844	365.844	365.844	365.844
Variable costs, not including collector			761.162	764.781	768.486	809.924	813.816
MBT plant, electricity			310.159	311.671	313.212	323.746	325.345
Landfill, energy			72.789	73.138	73.494	77.415	77.788
Transport from transfer stations to landfill							
- Zone 2			269.093	270.356	271.655	286.440	287.810
- Zone 3			55.607	55.855	56.135	62.327	62.607
- Zone 4			53.513	53.762	53.990	59.997	60.266
Total expenses, not including collection and transport to transfer stations		40.095.703	4.128.849	3.029.697	3.033.402	2.839.839	2.843.731
of which for central installations and closure old landfills		36.528.288	3.501.079	2.400.168	2.402.066	2.181.520	2.183.492
for zone 2		1.295.943	355.593	356.855	358.154	372.939	374.310
for zone 3		1.135.736	137.136	137.383	137.664	143.855	144.136
for zone 4		1.135.736	135.042	135.290	135.518	141.525	141.794
+ Administrative costs (25% on operating costs)			756.519	757.424	758.350	709.960	710.933
of which							
Central installations and addit. measures			508.116	508.581	509.055	453.919	454.412
Zone 2			88.898	89.214	89.538	93.235	93.577
Zone 3			34.284	34.346	34.416	35.964	36.034
Zone 4			33.760	33.823	33.880	35.381	35.449
2. Total expenses related to waste service up to the transfer station							
Cost per t excluding landfilling	43,22						
EUR/t =			2.418.396	2.430.090	2.442.030	2.546.135	2.558.568
3. Total all expenses		40.095.703	7.303.764	6.217.211	6.233.782	6.095.934	6.113.233
4. Receipts with the project							
Total receipts from billing net of VAT (at a collection efficiency of	90,0%	1.953.202	2.250.894	2.547.656	2.678.158	2.817.998	2.947.798
Sales of recyclables							
at average price per t of EUR	50,0		929.014	933.430	937.937	973.136	977.787
1) Of which annuity 55,500 for an amount of	3.800.000	EUR to be available at the end of the project, at an interest rate of 6.0% p.a.					

Financial analysis of measures proposed by the Master Plan, Salaj County

Annex 8/2 (Salaj scenario 2)

Performance									
	2015	2016	2017	2018	2019	2020	2021	2022	2023
Composting capacity (t/yr)	31.834	32.078	32.149	32.307	32.540	32.772	33.004	33.242	33.481
Landfill capacity (t/yr)	26.054	26.234	26.305	26.432	26.622	26.812	27.001	27.195	27.389
from sorting + other zones	15.724	15.825	15.874	15.949	16.063	16.178	16.292	16.409	16.525
from composting	10.330	10.409	10.432	10.483	10.559	10.634	10.709	10.787	10.864
Cash flow, EUR									
1. Additional expenses through the projec (level from transfer stations up to central installations)									
Investments and replacements									
- Project, not including collection equipment		220.554	9.248.292						
Total MBT plant			4.289.450						
Total transfer station zone 2			1.624.709						
Total transfer station zone 3			503.400						
Total transfer station zone 4			394.500						
Total sorting station (MRF)			674.016						
Total landfill		220.554	1.762.218						
Total additional measures									
- Collection equipment			3.477.069						
Maintenance of assets not including collection eqt	687.695	687.695	687.695	858.001	858.001	858.001	858.001	858.001	858.001
MBT plant	434.578	434.578	434.578	524.739	524.739	524.739	524.739	524.739	524.739
Transfer station zone 2	29.418	29.418	29.418	66.280	66.280	66.280	66.280	66.280	66.280
Transfer station zone 3	24.447	24.447	24.447	26.625	26.625	26.625	26.625	26.625	26.625
Transfer station zone 4	24.447	24.447	24.447	25.536	25.536	25.536	25.536	25.536	25.536
Sorting station (MRF)	75.827	75.827	75.827	96.047	96.047	96.047	96.047	96.047	96.047
Landfill	98.978	98.978	98.978	118.774	118.774	118.774	118.774	118.774	118.774
Maintenance of bins for collection	10.982	10.982	10.982	12.630	12.630	12.630	12.630	12.630	12.630
Labour	654.876	654.876	804.843	804.843	804.843	804.843	804.843	804.843	804.843
MBT plant	144.778	144.778	194.076	194.076	194.076	194.076	194.076	194.076	194.076
Transfer station zone 2	57.081	57.081	57.081	57.081	57.081	57.081	57.081	57.081	57.081
Transfer station zone 3	57.081	57.081	57.081	57.081	57.081	57.081	57.081	57.081	57.081
Transfer station zone 4	57.081	57.081	57.081	57.081	57.081	57.081	57.081	57.081	57.081
Sorting station (MRF)	263.611	263.611	364.281	364.281	364.281	364.281	364.281	364.281	364.281
Landfill	75.243	75.243	75.243	75.243	75.243	75.243	75.243	75.243	75.243
Maintenance, monitoring, insurance and aftercare of landfills	321.500	321.500	321.500	321.500	321.500	321.500	321.500	321.500	321.500
Fixed operating costs MBT plant	365.844	365.844	365.844	365.844	365.844	365.844	365.844	365.844	365.844
Variable costs, not including collector	817.708	825.449	825.571	829.539	835.479	841.419	847.360	853.445	859.531
MBT plant, electricity	326.944	329.447	330.177	331.805	334.190	336.575	338.961	341.409	343.857
Landfill, energy	78.161	78.702	78.916	79.297	79.866	80.435	81.003	81.585	82.168
Transport from transfer stations to landfill									
- Zone 2	289.180	293.315	291.939	293.327	295.423	297.519	299.615	301.763	303.912
- Zone 3	62.888	63.182	63.465	63.745	64.201	64.657	65.113	65.575	66.036
- Zone 4	60.535	60.802	61.074	61.364	61.798	62.233	62.668	63.113	63.558
Total expenses, not including collection and transport to transfer stations	2.847.623	3.075.919	12.253.746	3.179.728	3.185.668	3.191.608	3.197.548	3.203.634	3.209.720
of which for central installations and closure old landfills	2.185.464	2.409.062	9.065.103	2.471.607	2.474.561	2.477.514	2.480.468	2.483.499	2.486.529
for zone 2	375.690	379.815	2.003.147	416.688	418.784	420.879	422.975	425.124	427.272
for zone 3	144.416	144.711	648.393	147.452	147.908	148.364	148.820	149.281	149.743
for zone 4	142.064	142.331	537.102	143.981	144.416	144.851	145.285	145.730	146.175
+ Administrative costs (25% on operating costs)	711.906	713.841	751.363	794.932	796.417	797.902	799.387	800.909	802.430
of which									
Central installations and addit. measures	454.905	455.666	493.394	526.441	527.179	527.918	528.656	529.414	530.171
Zone 2	93.920	94.954	94.610	104.172	104.696	105.220	105.744	106.281	106.818
Zone 3	36.104	36.178	36.248	36.863	36.977	37.091	37.205	37.320	37.436
Zone 4	35.516	35.583	35.651	35.995	36.104	36.213	36.321	36.433	36.544
2. Total expenses related to waste service up to the transfer station									
Cost per t excluding landfilling	43,22								
EUR /t =	2.571.002	2.589.853	2.596.159	2.608.840	2.627.572	2.646.304	2.665.037	2.684.243	2.703.449
3. Total all expenses	6.130.531	6.379.612	15.601.268	6.583.500	6.609.657	6.635.815	6.661.972	6.688.786	6.715.599
4. Receipts with the project									
Total receipts from billing net of VAT (at a collection efficiency of	3.819.896	3.718.298	3.599.631	3.462.742	3.609.958	3.764.288	3.926.078	4.095.562	4.272.775
Sales of recyclables at average price per t of EUR	982.497	987.216	1.044.856	1.049.864	1.057.373	1.064.882	1.072.392	1.080.090	1.087.787
1) Of which annuity 55,500 for an amount of									

Financial analysis of measures proposed by the Master Plan, Salaj County

Annex 8/2 (Salaj scenario 2)

Performance								
	2024	2025	2026	2027	2028	2029	2030	2031
Composting capacity (t/yr)	33.719	33.958	34.204	34.450	34.696	34.942	35.188	35.445
Landfill capacity (t/yr)	27.583	27.777	27.978	28.178	28.379	28.579	28.780	28.989
from sorting + other zones	16.642	16.759	16.880	17.000	17.121	17.241	17.362	17.488
from composting	10.941	11.018	11.098	11.178	11.258	11.338	11.418	11.501
Cash flow, EUR								
1. Additional expenses through the projec (level from transfer stations up to central installations)								
Investments and replacements								
- Project, not including collection equipment	15.005.834	3.187.554						
Total MBT plant	11.226.579	550.000						
Total transfer station zone 2	393.943	1.010.354						
Total transfer station zone 3	386.750	285.600						
Total transfer station zone 4	386.750	285.600						
Total sorting station (MRF)	1.685.040							
Total landfill	926.772	1.056.000						
Total additional measures								
- Collection equipment	1.098.219	3.312.243						
Maintenance of assets not including collection eqt	858.001	858.001	858.001	858.001	858.001	858.001	858.001	858.001
MBT plant	524.739	524.739	524.739	524.739	524.739	524.739	524.739	524.739
Transfer station zone 2	66.280	66.280	66.280	66.280	66.280	66.280	66.280	66.280
Transfer station zone 3	26.625	26.625	26.625	26.625	26.625	26.625	26.625	26.625
Transfer station zone 4	25.536	25.536	25.536	25.536	25.536	25.536	25.536	25.536
Sorting station (MRF)	96.047	96.047	96.047	96.047	96.047	96.047	96.047	96.047
Landfill	118.774	118.774	118.774	118.774	118.774	118.774	118.774	118.774
Maintenance of bins for collection	12.630	12.630	12.630	12.630	12.630	12.630	12.630	12.630
Labour	804.843	804.843	804.843	804.843	804.843	804.843	804.843	804.843
MBT plant	194.076	194.076	194.076	194.076	194.076	194.076	194.076	194.076
Transfer station zone 2	57.081	57.081	57.081	57.081	57.081	57.081	57.081	57.081
Transfer station zone 3	57.081	57.081	57.081	57.081	57.081	57.081	57.081	57.081
Transfer station zone 4	57.081	57.081	57.081	57.081	57.081	57.081	57.081	57.081
Sorting station (MRF)	364.281	364.281	364.281	364.281	364.281	364.281	364.281	364.281
Landfill	75.243	75.243	75.243	75.243	75.243	75.243	75.243	75.243
Maintenance, monitoring, insurance and aftercare of landfills	321.500	321.500	321.500	321.500	321.500	321.500	251.500	251.500
Fixed operating costs MBT plant	365.844	365.844	365.844	365.844	365.844	365.844	365.844	365.844
Variable costs, not including collector	865.616	871.702	877.988	884.273	890.559	896.844	903.130	909.685
MBT plant, electricity	346.306	348.754	351.281	353.808	356.335	358.862	361.389	364.028
Landfill, energy	82.750	83.332	83.934	84.535	85.136	85.738	86.339	86.966
Transport from transfer stations to landfill								
- Zone 2	306.060	308.209	310.428	312.648	314.867	317.087	319.307	321.620
- Zone 3	66.498	66.959	67.437	67.915	68.394	68.872	69.350	69.846
- Zone 4	64.003	64.448	64.907	65.367	65.827	66.286	66.746	67.225
Total expenses, not including collection and transport to transfer stations	18.221.639	6.409.445	3.228.176	3.234.462	3.240.747	3.247.033	3.183.318	3.189.874
of which for central installations and closure old landfills	16.327.951	4.098.590	2.495.719	2.498.847	2.501.975	2.505.104	2.438.232	2.441.498
for zone 2	823.364	1.441.924	433.789	436.008	438.228	440.448	442.667	444.981
for zone 3	536.954	436.266	151.144	151.622	152.100	152.578	153.056	153.553
for zone 4	533.370	432.665	147.525	147.984	148.444	148.904	149.363	149.842
+ Administrative costs (25% on operating costs)	803.951	805.473	807.044	808.615	810.187	811.758	795.830	797.469
of which								
Central installations and addit. measures	530.929	531.687	532.469	533.251	534.033	534.815	518.097	518.913
Zone 2	107.355	107.892	108.447	109.002	109.557	110.112	110.667	111.245
Zone 3	37.551	37.666	37.786	37.905	38.025	38.144	38.264	38.388
Zone 4	36.655	36.766	36.881	36.996	37.111	37.226	37.341	37.461
2. Total expenses related to waste service up to the transfer station								
Cost per t excluding landfilling	43,22							
EUR /t =	2.722.656	2.741.862	2.761.691	2.781.521	2.801.350	2.821.179	2.841.009	2.861.705
3. Total all expenses	21.748.246	9.956.780	6.796.912	6.824.598	6.852.284	6.879.970	6.820.157	6.849.047
4. Receipts with the project								
Total receipts from billing net of VAT (at a collection efficiency of	4.457.662	4.650.255	4.850.684	5.059.082	5.275.763	5.501.336	5.736.343	5.949.205
Sales of recyclables at average price per t of EUR	1.095.485	1.103.183	1.111.140	1.157.209	1.165.437	1.173.664	1.181.892	1.190.474
1) Of which annuity 55,500 for an amount of								

Financial analysis of measures proposed by the Master Plan, Salaj County

Annex 8/2 (Salaj scenario 2)

Performance							
	2032	2033	2034	2035	2036	2037	Resid.val.
Composting capacity (t/yr)	35.702	35.959	36.216	36.472	36.729	36.986	
Landfill capacity (t/yr)	29.198	29.407	29.616	29.825	30.034	30.243	
from sorting + other zones	17.614	17.739	17.865	17.991	18.117	18.243	
from composting	11.584	11.667	11.751	11.834	11.917	12.001	
Cash flow, EUR							
1. Additional expenses through the projec (level from transfer stations up to central installations)							
Investments and replacements							
- Project, not including collection equipment	4.438.775	3.187.554					8.147.607
Total MBT plant	2.638.350	550.000					4.366.345
Total transfer station zone 2	614.354	1.010.354					1.001.006
Total transfer station zone 3	217.800	285.600					370.459
Total transfer station zone 4	108.900	285.600					297.859
Total sorting station (MRF)	674.016						842.520
Total landfill	185.354	1.056.000					1.269.418
Total additional measures							
- Collection equipment	164.826	3.312.243					1.912.435
Maintenance of assets not including collection equ	858.001	858.001	858.001	858.001	858.001	858.001	
MBT plant	524.739	524.739	524.739	524.739	524.739	524.739	
Transfer station zone 2	66.280	66.280	66.280	66.280	66.280	66.280	
Transfer station zone 3	26.625	26.625	26.625	26.625	26.625	26.625	
Transfer station zone 4	25.536	25.536	25.536	25.536	25.536	25.536	
Sorting station (MRF)	96.047	96.047	96.047	96.047	96.047	96.047	
Landfill	118.774	118.774	118.774	118.774	118.774	118.774	
Maintenance of bins for collection	12.630	12.630	12.630	12.630	12.630	12.630	
Labour	804.843	804.843	804.843	804.843	804.843	804.843	
MBT plant	194.076	194.076	194.076	194.076	194.076	194.076	
Transfer station zone 2	57.081	57.081	57.081	57.081	57.081	57.081	
Transfer station zone 3	57.081	57.081	57.081	57.081	57.081	57.081	
Transfer station zone 4	57.081	57.081	57.081	57.081	57.081	57.081	
Sorting station (MRF)	364.281	364.281	364.281	364.281	364.281	364.281	
Landfill	75.243	75.243	75.243	75.243	75.243	75.243	
Maintenance, monitoring, insurance and aftercare of landfills	251.500	251.500	251.500	251.500	251.500	251.500	
Fixed operating costs MBT plant	365.844	365.844	365.844	365.844	365.844	365.844	
Variable costs, not including collector	916.241	922.797	929.352	935.908	942.464	949.019	
MBT plant, electricity	366.666	369.305	371.943	374.582	377.220	379.859	
Landfill, energy	87.593	88.221	88.848	89.475	90.103	90.730	
Transport from transfer stations to landfill							
- Zone 2	323.934	326.248	328.562	330.876	333.190	335.504	
- Zone 3	70.343	70.840	71.337	71.834	72.331	72.828	
- Zone 4	67.704	68.183	68.662	69.141	69.620	70.099	
Total expenses, not including collection and transport to transfer stations	7.635.205	6.390.540	3.209.541	3.216.097	3.222.653	3.229.208	
of which for central installations and closure old landfills	5.942.484	4.054.030	2.451.296	2.454.562	2.457.827	2.461.093	6.478.283
for zone 2	1.061.649	1.459.963	451.923	454.237	456.551	458.864	1.001.006
for zone 3	371.850	440.147	155.043	155.540	156.037	156.534	370.459
for zone 4	259.221	436.400	151.279	151.758	152.237	152.717	297.859
+ Administrative costs (25% on operating costs)	799.107	800.746	802.385	804.024	805.663	807.302	
of which							
Central installations and addit. measures	519.730	520.546	521.363	522.179	522.996	523.812	
Zone 2	111.824	112.402	112.981	113.559	114.138	114.716	
Zone 3	38.512	38.637	38.761	38.885	39.009	39.133	
Zone 4	37.580	37.700	37.820	37.940	38.059	38.179	
2. Total expenses related to waste service up to the transfer station							
Cost per t excluding landfilling	43,22						
EUR /t =	2.882.401	2.903.097	2.923.793	2.944.489	2.965.186	2.985.882	
3. Total all expenses	11.316.713	10.094.383	6.935.720	6.964.611	6.993.501	7.022.392	
4. Receipts with the project							
Total receipts from billing net of VAT (at a collection efficiency of	6.164.484	6.382.107	6.601.818	6.823.425	7.046.704	7.271.486	
Sales of recyclables at average price per t of EUR	1.199.057	1.207.640	1.216.222	1.224.805	1.233.388	1.241.970	
1) Of which annuity 55,500 for an amount of							