

# Table 1: The parameter space of Outokumpu at the minimum risk point (core 1408)

The parameter space Input	Historical accounts											Predicted accounts					Parametric variation for the risk surface									
	2012	2013	2014	2015	2016	Mean	2017	2018	2019	2020	2021	range of linear variation ( $d\mu$ )	range of stochastic variation ( $\Delta$ )	average inflation: 2.00 %	cash tol.	$\kappa_1$	$\kappa_2$	$b_0$	$b_1$	$t_0$	0.5	kappaSwitch_point [0,1]	Low	High		
Outokumpu Oyj												-0.075	0.100	0.100	0.100	0.34969	0.00718	0.2	10	10	0.5	10	-0.0750	-0.0750	0.0100	0.2000
<b>Balance sheet</b>																										
1. Intangibles	0.6290	0.5700	0.5670	0.4980	0.5040	0.5536	0.5536	0.5536	0.5536	0.5536																
2. Other financial assets	1.9620	2.6130	0.4520	0.4910	0.7050	1.2446	0.7050	0.7050	0.7050	0.7050																
3. Other restricted equity	0.7140	0.7140	0.7140	0.7140	0.7140	0.7140																				
4. Accumulated depreciation difference																										
5. Reserves																										
6. Valuation items (liabilities)																										
7. Current liabilities ratio	0.6738	0.4548	0.2972	0.2753	0.3780	0.4158	0.3780	0.3780	0.3780	0.3780																
8. Sales price/unit	1.7468	1.3797	1.4395	1.5852	1.6880	1.5679	1.7218	1.7562	1.7913	1.8271	1.8637															
9. Sales receivables ratio	0.1870	0.0833	0.0778	0.0646	0.0815	0.0989	0.0815	0.0815	0.0815	0.0815																
10. Max new issue ratio																										
11. Debt (t) < $k_2$ * Eq(t)	1.2228	2.0048	1.0610	0.7746	0.6315	1.1389	0.6315																			
12. Amortization ratio					-0.1547	-0.0309	0.0300																			
<b>Statement of Income</b>																										
13. Interest margin							7.9990 %																			
14. Depreciation ratio	0.0906	0.1147	0.1106	0.1008	0.0839	0.1001	0.0950																			
15. Fixed costs	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0400	2.0808	2.1224	2.1649	2.2082															
16. Interest rate ratio	0.0474	0.0852	0.0999	0.0881	0.0793	0.0800	7.9990 %	7.9990 %	7.9990 %	7.9990 %	7.9990 %															
17. Other financial income	0.0168	0.0042	0.0221	0.1181	0.0071	0.0337																				
18. Extraordinary income and expenses						0.0000																				
19. Tax ratio	-0.0442	-0.0317	-2.2500	0.0899	-0.6856	-0.5843	0.1059																			
<b>Restrictions</b>																										
20. Operating cost per unit	1.01	1.02	0.98	0.92	0.94	0.9754	1.0200	1.0404	1.0612	1.0824	1.1041															
21. Efficiency factor							0.9987																			
22. Use factor cost (0/1)							1.0000																			
23. Factor cost per unit							1.0000	1.0000	1.0000	1.0000	1.0000															
<b>Other</b>																										
24. Discount rate for present value (WACC)							0.1500																			
25. Investment profile																										
26. Inertia							1.0000																			
27. Dividend ratio							0.0100																			
28. Default MC-iterations																										
29. Default number of local grid points (s)							1.0000																			

**use market share (0-4):** 2

Market volume: 3.457230, 3.491802, 3.526720, 3.561988, 3.597607

Gross share: 100.00 %, 100.00 %, 100.00 %, 100.00 %, 100.00 %

SMI: 1.00, 1.00, 1.00, 1.00, 1.00

Market share: 100.00 %, 100.00 %, 100.00 %, 100.00 %, 100.00 %

Max sales: 3.457230, 3.491802, 3.526720, 3.561988, 3.597607

$H_1$ : parametric sales ceiling: 3.701572, 3.738587, 3.775973, 3.813733, 3.851870

sales price: 1.682933, 1.716591, 1.750923, 1.785942, 1.821660

$\kappa_1$

$H_2$ : capital structure: 0.700625

$\kappa_2$

$H_2$ : interest rate: 1.994004, 2.033884, 2.074562, 2.116053, 2.158374

$\kappa_1$ : 0.074077, 0.074077, 0.074077, 0.074077, 0.074077

adjust prod.cost: 1

$\kappa_1$ : 1.020000, 1.040400, 1.061208, 1.082432, 1.104081

1.00

$H_3$ : factor cost: 0.890486, 0.890486, 0.890486, 0.890486, 0.890486

$\kappa_1$

Operations=Efficiency factor\*Business driving assets

Factor cost per unit