Worked example on the application of the Precious Metals Consortium cost-sharing formula

Basic principles and assumptions

GENERAL: This "worked example" presumes that the costs will be incurred on a three years-period.

Generic costs: Shared equally among all members and paid **only once a year by each Member**, no matter how many and which Precious Metals substances the Member is joining the Consortium for. For the purposes of this "worked example", as stipulated above, the annual Generic costs (**+/- 145 000 €/year**) have been multiplied by 3.

Metal-specific costs: 50% are allocated based on the number of substances (f 2) and 50% of the Metal-specific costs are allocated based on the tonnage bands (f 3).
Metal-specific costs are indicative only. They have been calculated considering the highest costs of the testing costs ranges submitted by two consultancies, following a conservative data gap analysis.
Current worst case scenario: total testing costs have been multiplied by 1,5 = **1 200 000 € over 3 years.**

Values used in the spreadsheet: Silver substances number and tonnage bands extracted from the received substance inventories (Only substances: other materials such as secondary raw materials, refinables, preparations, alloys and isolated intermediates have **not been considered**).

Substance inventories received: 27

Date: 20-juin-07

	Cost-block 1 (f 1)			Cost-block 2 (f 2)				Cost-block 2 (f 3)							
Company	N° of Member Applied weight	Member's f 1	(3 years)-Share of Generic costs per Member	Number of silver substances	Total f 2	Member's f 2	(3 years)-Share 1 of Metal-specific costs per Member (Substances) (€)	subst. in tonnage band 1 5	subst. in tonnage band 2 20	subst. in tonnage band 3 100	subst. in tonnage band 4 1000	Total f 3	Member's f 3	(3 years)-Share 2 of Metal-specific costs per Member (Tonnage band) (€)	(3 years) Total share per Member (€)
1	1	0,037	16.111,11	4	6,667	0,067	40.000,00	0	2	2	0	240	0,059	35.207,82	**91.318,94**
2	1	0,037	16.111,11	3	5,000	0,050	30.000,00	2	0	1	0	110	0,027	16.136,92	**62.248,03**
3	1	0,037	16.111,11	1	1,667	0,017	10.000,00	1	0	0	0	5	0,001	733,50	**26.844,61**
4	1	0,037	16.111,11	1	1,667	0,017	10.000,00	0	0	1	0	100	0,024	14.669,93	**40.781,04**
5	1	0,037	16.111,11	4	6,667	0,067	40.000,00	4	0	0	0	20	0,005	2.933,99	**59.045,10**
6	1	0,037	16.111,11	1	1,667	0,017	10.000,00	0	1	0	0	20	0,005	2.933,99	**29.045,10**
7	1	0,037	16.111,11	1	1,667	0,017	10.000,00	0	0	1	0	100	0,024	14.669,93	**40.781,04**
8	1	0,037	16.111,11	4	6,667	0,067	40.000,00	4	0	0	0	20	0,005	2.933,99	**59.045,10**
9	1	0,037	16.111,11	2	3,333	0,033	20.000,00	0	2	0	0	40	0,010	5.867,97	**41.979,08**
10	1	0,037	16.111,11	1	1,667	0,017	10.000,00	1	0	0	0	5	0,001	733,50	**26.844,61**
11	1	0,037	16.111,11	3	5,000	0,050	30.000,00	1	1	1	0	125	0,031	18.337,41	**64.448,52**
12	1	0,037	16.111,11	1	1,667	0,017	10.000,00	0	1	0	0	20	0,005	2.933,99	**29.045,10**
13	1	0,037	16.111,11	2	3,333	0,033	20.000,00	0	1	1	0	120	0,029	17.603,91	**53.715,02**
14	1	0,037	16.111,11	3	5,000	0,050	30.000,00	0	2	1	0	140	0,034	20.537,90	**66.649,01**
15	1	0,037	16.111,11	3	5,000	0,050	30.000,00	1	1	1	0	125	0,031	18.337,41	**64.448,52**
16	1	0,037	16.111,11	1	1,667	0,017	10.000,00	0	0	0	1	1000	0,244	146.699,27	**172.810,38**
17	1	0,037	16.111,11	1	1,667	0,017	10.000,00	0	1	0	0	20	0,005	2.933,99	**29.045,10**
18	1	0,037	16.111,11	1	1,667	0,017	10.000,00	0	1	0	0	20	0,005	2.933,99	**29.045,10**
19	1	0,037	16.111,11	1	1,667	0,017	10.000,00	0	0	0	0	0	-	0,00	**26.111,11**
20	1	0,037	16.111,11	1	1,667	0,017	10.000,00	0	1	0	0	20	0,005	2.933,99	**29.045,10**
21 **	1	0,037	16.111,11	0	0,000	-	0,00	0	0	0	0	0	-	0,00	**16.111,11**
22	1	0,037	16.111,11	1	1,667	0,017	10.000,00	0	0	1	0	100	0,024	14.669,93	**40.781,04**
23	1	0,037	16.111,11	1	1,667	0,017	10.000,00	0	0	1	0	100	0,024	14.669,93	**40.781,04**
24	1	0,037	16.111,11	14	23,333	0,233	140.000,00	7	3	3	1	1395	0,341	204.645,48	**360.756,59**
25	1	0,037	16.111,11	1	1,667	0,017	10.000,00	1	0	0	0	5	0,001	733,50	**26.844,61**
26	1	0,037	16.111,11	4	6,667	0,067	40.000,00	0	2	2	0	240	0,059	35.207,82	**91.318,94**
27 **	1	0,037	16.111,11	0	0,000	-	0,00	0	0	0	0	0	-	0,00	**16.111,11**
TOTAL	27			60	100			22	19	16	2	4090			1.635.000,00 €

Generic Costs	435.000,00 €
Metal-specific Costs	1.200.000,00 €
Total Costs	1.635.000,00 €

50% of Metal-specific Costs: 600.000,00 €

50% of Metal-specific Costs: 600.000,00 €

** Those Members who have not declared/will not register any silver substances covered by the Precious Metals Consortium will not be charged for the silver Metal-specific costs, only for the Generic costs. Same applies for gold and platinum group metals substances.

TEST 2

Assumptions

Generic costs: Shared equally among all members.

Metal-specific costs: **1/3** are allocated based on the number of substances (f 2) and **2/3** of the Metal-specific costs are allocated based on the tonnage bands (f 3).
They **do not** include testing costs but only data gap analysis costs for silver compunds.

Values used in the spreadsheet: Extracted (with some adjustments for Confidentiality) from the received substance inventories (Only Ag, Au and PGM substances. Secondary raw materials, refinables, preparatic intermediates have **not been included**).

Substance inventories received: 23

Date: 7-mai-07

	N° of member	Individual f 1	Share of Generic costs per member	Substances	Total f 2	Individual f 2	First share of Metal-specific costs per member (Substances) (€)	subst. in tonnage band 1	subst. in tonnage band 2	subst. in tonnage band 3	subst. in tonnage band 4	Total f 3	Individual f 3	Second share of Metal-specific costs per member (Tonnage band) (€)
Company	Applied weight							5	20	100	1000			
1	1	0,0435	6.004,35	10	4,38596	0,0439	2.543,86	7	3	0	0	95	0,0132	1.532,68
2	1	0,0435	6.004,35	4	1,75439	0,0175	1.017,54	2	0	2	0	210	0,0292	3.388,04
3	1	0,0435	6.004,35	4	1,75439	0,0175	1.017,54	2	1	1	0	130	0,0181	2.097,36
4	1	0,0435	6.004,35	1	0,4386	0,0044	254,39	0	0	1	0	100	0,0139	1.613,35
5	1	0,0435	6.004,35	6	2,63158	0,0263	1.526,32	3	3	0	0	75	0,0104	1.210,01
6	1	0,0435	6.004,35	10	4,38596	0,0439	2.543,86	7	2	2	0	275	0,0382	4.436,72
7	1	0,0435	6.004,35	6	2,63158	0,0263	1.526,32	4	2	0	0	60	0,0083	968,01
8	1	0,0435	6.004,35	15	6,57895	0,0658	3.815,79	2	11	2	0	430	0,0598	6.937,41
9	1	0,0435	6.004,35	6	2,63158	0,0263	1.526,32	4	1	1	0	140	0,0195	2.258,69
10	1	0,0435	6.004,35	37	16,2281	0,1623	9.412,28	26	9	0	1	1310	0,1822	21.134,91
11	1	0,0435	6.004,35	6	2,63158	0,0263	1.526,32	4	1	1	0	140	0,0195	2.258,69
12	1	0,0435	6.004,35	5	2,19298	0,0219	1.271,93	0	2	3	0	340	0,0473	5.485,40
13	1	0,0435	6.004,35	3	1,31579	0,0132	763,16	2	1	0	0	30	0,0042	484,01
14	1	0,0435	6.004,35	9	3,94737	0,0395	2.289,47	4	5	0	0	120	0,0167	1.936,02
15	1	0,0435	6.004,35	37	16,2281	0,1623	9.412,28	32	5	0	0	260	0,0362	4.194,71
16	1	0,0435	6.004,35	3	1,31579	0,0132	763,16	3	0	0	0	15	0,0021	242,00
17	1	0,0435	6.004,35	18	7,89474	0,0789	4.578,95	7	9	2	0	415	0,0577	6.695,41
18	1	0,0435	6.004,35	25	10,9649	0,1096	6.359,65	14	10	1	0	370	0,0515	5.969,40
19	1	0,0435	6.004,35	5	2,19298	0,0219	1.271,93	2	3	0	0	70	0,0097	1.129,35
20	1	0,0435	6.004,35	3	1,31579	0,0132	763,16	2	1	0	0	30	0,0042	484,01
21	1	0,0435	6.004,35	6	2,63158	0,0263	1.526,32	4	6	3	2	2440	0,3394	39.365,79
22	1	0,0435	6.004,35	4	1,75439	0,0175	1.017,54	3	1	0	0	35	0,0049	564,67
23	1	0,0435	6.004,35	5	2,19298	0,0219	1.271,93	0	5	0	0	100	0,0139	1.613,35
TOTAL	**23**			228	**100**			139	101	119	1003	**7190**		

1/3 of Metal-specific Costs **2/3 of Metal-specific Costs**

Generic Costs	138.100,00 €
Metal-specific Costs	174.000,00 €
Total Costs	312.100,00 €

58.000,00 € **116.000,00 €**

0,33 - 0,66

ɔns, alloys and

Total share per member (€)
10.080,89
10.409,93
9.119,25
7.872,09
8.740,68
12.984,93
8.498,67
16.757,55
9.789,36
36.551,54
9.789,36
12.761,67
7.251,51
10.229,84
19.611,34
7.009,51
17.278,71
18.333,40
8.405,62
7.251,51
46.896,45
7.586,56
8.889,63
312.100,00 €

TEST 3

Assumptions

Generic costs: Shared equally among all members.
Metal-specific costs: **50%** are allocated based on the number of substances (f 2) and **50%** of the Metal-specific costs are allocated based on the tonnage bands (f 3).
They were **increased 2 times** to test the application of the formula for higher testing costs.
Values used in the spreadsheet: Extracted (with some adjustments for Confidentiality) from the received substance inventories (Only Ag, Au and PGM substances. Secondary raw materials, refinables, preparatio intermediates have **not been included**).
Substance inventories received: 23
Date: 7-mai-07

	N° of member	Individual f 1	Share of Generic costs per member	Substances	Total f 2	Individual f 2	First share of Metal-specific costs per member (Substances) (€)	subst. in tonnage band 1	subst. in tonnage band 2	subst. in tonnage band 3	subst. in tonnage band 4	Total f 3	Individual f 3	Second share of Metal-specific costs per member (Tonnage band) (€)
Company	Applied weight							5	20	100	1000			
1	1	0,0435	6.004,35	10	4,38596	0,0439	7.631,58	7	3	0	0	95	0,0132	2.299,03
2	1	0,0435	6.004,35	4	1,75439	0,0175	3.052,63	2	0	2	0	210	0,0292	5.082,06
3	1	0,0435	6.004,35	4	1,75439	0,0175	3.052,63	2	1	1	0	130	0,0181	3.146,04
4	1	0,0435	6.004,35	1	0,4386	0,0044	763,16	0	0	1	0	100	0,0139	2.420,03
5	1	0,0435	6.004,35	6	2,63158	0,0263	4.578,95	3	3	0	0	75	0,0104	1.815,02
6	1	0,0435	6.004,35	10	4,38596	0,0439	7.631,58	7	2	2	0	275	0,0382	6.655,08
7	1	0,0435	6.004,35	6	2,63158	0,0263	4.578,95	4	2	0	0	60	0,0083	1.452,02
8	1	0,0435	6.004,35	15	6,57895	0,0658	11.447,37	2	11	2	0	430	0,0598	10.406,12
9	1	0,0435	6.004,35	6	2,63158	0,0263	4.578,95	4	1	1	0	140	0,0195	3.388,04
10	1	0,0435	6.004,35	37	16,2281	0,1623	28.236,84	26	9	0	1	1310	0,1822	31.702,36
11	1	0,0435	6.004,35	6	2,63158	0,0263	4.578,95	4	1	1	0	140	0,0195	3.388,04
12	1	0,0435	6.004,35	5	2,19298	0,0219	3.815,79	0	2	3	0	340	0,0473	8.228,09
13	1	0,0435	6.004,35	3	1,31579	0,0132	2.289,47	2	1	0	0	30	0,0042	726,01
14	1	0,0435	6.004,35	9	3,94737	0,0395	6.868,42	4	5	0	0	120	0,0167	2.904,03
15	1	0,0435	6.004,35	37	16,2281	0,1623	28.236,84	32	5	0	0	260	0,0362	6.292,07
16	1	0,0435	6.004,35	3	1,31579	0,0132	2.289,47	3	0	0	0	15	0,0021	363,00
17	1	0,0435	6.004,35	18	7,89474	0,0789	13.736,84	7	9	2	0	415	0,0577	10.043,12
18	1	0,0435	6.004,35	25	10,9649	0,1096	19.078,95	14	10	1	0	370	0,0515	8.954,10
19	1	0,0435	6.004,35	5	2,19298	0,0219	3.815,79	2	3	0	0	70	0,0097	1.694,02
20	1	0,0435	6.004,35	3	1,31579	0,0132	2.289,47	2	1	0	0	30	0,0042	726,01
21	1	0,0435	6.004,35	6	2,63158	0,0263	4.578,95	4	6	3	2	2440	0,3394	59.048,68
22	1	0,0435	6.004,35	4	1,75439	0,0175	3.052,63	3	1	0	0	35	0,0049	847,01
23	1	0,0435	6.004,35	5	2,19298	0,0219	3.815,79	0	5	0	0	100	0,0139	2.420,03
TOTAL	**23**			228	**100**			139	101	119	1003	**7190**		

		50% of Metal-specific Costs	**50% of Metal-specific Costs**
Generic Costs	138.100,00 €		
Metal-specific Costs	348.000,00 €	**174.000,00 €**	**174.000,00 €**
Total Costs	486.100,00 €		

ɔns, alloys and

Total share per member (€)
15.934,95
14.139,04
12.203,02
9.187,53
12.398,32
20.291,00
12.035,31
27.857,84
13.971,33
65.943,55
13.971,33
18.048,23
9.019,83
15.776,80
40.533,26
8.656,83
29.784,31
34.037,40
11.514,16
9.019,83
69.631,97
9.903,99
12.240,17
486.100,00 €

TEST 4

Assumptions

Generic costs: Shared equally among all members.

Metal-specific costs: **1/3** are allocated based on the number of substances (f 2) and **2/3** of the Metal-specific costs are allocated based on the tonnage bands (f 3).
They were **increased 2 times** to test the application of the formula for higher testing costs.

Values used in the spreadsheet: Extracted (with some adjustments for Confidentiality) from the received substance inventories (Only Ag, Au and PGM substances. Secondary raw materials, refinables, preparations, alloys and intermediates have **not been included**).

Substance inventories received: 23

Date: 7-mai-07

Company	N° of member Applied weight	Individual f 1	Share of Generic costs per member	Substances	Total f 2	Individual f 2	First share of Metal-specific costs per member (Substances) (€)	subst. in tonnage band 1 5	subst. in tonnage band 2 20	subst. in tonnage band 3 100	subst. in tonnage band 4 1000	Total f 3	Individual f 3	Second share of Metal-specific costs per member (Tonnage band) (€)	Total share per member (€)
1	1	0,0435	6.004,35	10	4,38596	0,0439	5.087,72	7	3	0	0	95	0,0132	3.065,37	**14.157,44**
2	1	0,0435	6.004,35	4	1,75439	0,0175	2.035,09	2	0	2	0	210	0,0292	6.776,08	**14.815,51**
3	1	0,0435	6.004,35	4	1,75439	0,0175	2.035,09	2	1	1	0	130	0,0181	4.194,71	**12.234,15**
4	1	0,0435	6.004,35	1	0,4386	0,0044	508,77	0	0	1	0	100	0,0139	3.226,70	**9.739,82**
5	1	0,0435	6.004,35	6	2,63158	0,0263	3.052,63	3	3	0	0	75	0,0104	2.420,03	**11.477,01**
6	1	0,0435	6.004,35	10	4,38596	0,0439	5.087,72	7	2	2	0	275	0,0382	8.873,44	**19.965,50**
7	1	0,0435	6.004,35	6	2,63158	0,0263	3.052,63	4	2	0	0	60	0,0083	1.936,02	**10.993,00**
8	1	0,0435	6.004,35	15	6,57895	0,0658	7.631,58	2	11	2	0	430	0,0598	13.874,83	**27.510,75**
9	1	0,0435	6.004,35	6	2,63158	0,0263	3.052,63	4	1	1	0	140	0,0195	4.517,39	**13.574,36**
10	1	0,0435	6.004,35	37	16,2281	0,1623	18.824,56	26	9	0	1	1310	0,1822	42.269,82	**67.098,73**
11	1	0,0435	6.004,35	6	2,63158	0,0263	3.052,63	4	1	1	0	140	0,0195	4.517,39	**13.574,36**
12	1	0,0435	6.004,35	5	2,19298	0,0219	2.543,86	0	2	3	0	340	0,0473	10.970,79	**19.519,00**
13	1	0,0435	6.004,35	3	1,31579	0,0132	1.526,32	2	1	0	0	30	0,0042	968,01	**8.498,67**
14	1	0,0435	6.004,35	9	3,94737	0,0395	4.578,95	4	5	0	0	120	0,0167	3.872,04	**14.455,34**
15	1	0,0435	6.004,35	37	16,2281	0,1623	18.824,56	32	5	0	0	260	0,0362	8.389,43	**33.218,34**
16	1	0,0435	6.004,35	3	1,31579	0,0132	1.526,32	3	0	0	0	15	0,0021	484,01	**8.014,67**
17	1	0,0435	6.004,35	18	7,89474	0,0789	9.157,89	7	9	2	0	415	0,0577	13.390,82	**28.553,06**
18	1	0,0435	6.004,35	25	10,9649	0,1096	12.719,30	14	10	1	0	370	0,0515	11.938,80	**30.662,45**
19	1	0,0435	6.004,35	5	2,19298	0,0219	2.543,86	2	3	0	0	70	0,0097	2.258,69	**10.806,90**
20	1	0,0435	6.004,35	3	1,31579	0,0132	1.526,32	2	1	0	0	30	0,0042	968,01	**8.498,67**
21	1	0,0435	6.004,35	6	2,63158	0,0263	3.052,63	4	6	3	2	2440	0,3394	78.731,57	**87.788,55**
22	1	0,0435	6.004,35	4	1,75439	0,0175	2.035,09	3	1	0	0	35	0,0049	1.129,35	**9.168,78**
23	1	0,0435	6.004,35	5	2,19298	0,0219	2.543,86	0	5	0	0	100	0,0139	3.226,70	**11.774,91**
TOTAL	**23**			228	**100**			139	101	119	1003	**7190**			**486.100,00 €**

1/3 of Metal-specific Costs — **2/3 of Metal-specific Costs**

Generic Costs	138.100,00 €
Metal-specific Costs	348.000,00 €
Total Costs	486.100,00 €

116.000,00 € — **232.000,00 €**

0,33-0,66 x2

TEST 5

Assumptions

Generic costs: Shared equally among all members.

Metal-specific costs: **50%** are allocated based on the number of substances (f 2) and **50%** of the Metal-specific costs are allocated based on the tonnage bands (f 3).
They were **increased 10 times** to test the application of the formula for higher testing costs.

Values used in the spreadsheet: Extracted (with some adjustments for Confidentiality) from the received substance inventories (Only Ag, Au and PGM substances. Secondary raw materials, refinables, preparatio intermediates have **not been included**).

Substance inventories received: 23

Date: 7-mai-07

	N° of member	Individual f 1	Share of Generic costs per member	Substances	Total f 2	Individual f 2	First share of Metal-specific costs per member (Substances) (€)	subst. in tonnage band 1	subst. in tonnage band 2	subst. in tonnage band 3	subst. in tonnage band 4	Total f 3	Individual f 3	Second share of Metal-specific costs per member (Tonnage band) (€)
Company	Applied weight							5	20	100	1000			
1	1	0,0435	6.004,35	10	4,38596	0,0439	38.157,89	7	3	0	0	95	0,0132	11.495,13
2	1	0,0435	6.004,35	4	1,75439	0,0175	15.263,16	2	0	2	0	210	0,0292	25.410,29
3	1	0,0435	6.004,35	4	1,75439	0,0175	15.263,16	2	1	1	0	130	0,0181	15.730,18
4	1	0,0435	6.004,35	1	0,4386	0,0044	3.815,79	0	0	1	0	100	0,0139	12.100,14
5	1	0,0435	6.004,35	6	2,63158	0,0263	22.894,74	3	3	0	0	75	0,0104	9.075,10
6	1	0,0435	6.004,35	10	4,38596	0,0439	38.157,89	7	2	2	0	275	0,0382	33.275,38
7	1	0,0435	6.004,35	6	2,63158	0,0263	22.894,74	4	2	0	0	60	0,0083	7.260,08
8	1	0,0435	6.004,35	15	6,57895	0,0658	57.236,84	2	11	2	0	430	0,0598	52.030,60
9	1	0,0435	6.004,35	6	2,63158	0,0263	22.894,74	4	1	1	0	140	0,0195	16.940,19
10	1	0,0435	6.004,35	37	16,2281	0,1623	141.184,21	26	9	0	1	1310	0,1822	158.511,82
11	1	0,0435	6.004,35	6	2,63158	0,0263	22.894,74	4	1	1	0	140	0,0195	16.940,19
12	1	0,0435	6.004,35	5	2,19298	0,0219	19.078,95	0	2	3	0	340	0,0473	41.140,47
13	1	0,0435	6.004,35	3	1,31579	0,0132	11.447,37	2	1	0	0	30	0,0042	3.630,04
14	1	0,0435	6.004,35	9	3,94737	0,0395	34.342,11	4	5	0	0	120	0,0167	14.520,17
15	1	0,0435	6.004,35	37	16,2281	0,1623	141.184,21	32	5	0	0	260	0,0362	31.460,36
16	1	0,0435	6.004,35	3	1,31579	0,0132	11.447,37	3	0	0	0	15	0,0021	1.815,02
17	1	0,0435	6.004,35	18	7,89474	0,0789	68.684,21	7	9	2	0	415	0,0577	50.215,58
18	1	0,0435	6.004,35	25	10,9649	0,1096	95.394,74	14	10	1	0	370	0,0515	44.770,51
19	1	0,0435	6.004,35	5	2,19298	0,0219	19.078,95	2	3	0	0	70	0,0097	8.470,10
20	1	0,0435	6.004,35	3	1,31579	0,0132	11.447,37	2	1	0	0	30	0,0042	3.630,04
21	1	0,0435	6.004,35	6	2,63158	0,0263	22.894,74	4	6	3	2	2440	0,3394	295.243,39
22	1	0,0435	6.004,35	4	1,75439	0,0175	15.263,16	3	1	0	0	35	0,0049	4.235,05
23	1	0,0435	6.004,35	5	2,19298	0,0219	19.078,95	0	5	0	0	100	0,0139	12.100,14
TOTAL	**23**			228	**100**			139	101	119	1003	**7190**		

50% of Metal-specific Costs

870.000,00 €

50% of Metal-specific Costs

870.000,00 €

Generic Costs	138.100,00 €
Metal-specific Costs	1.740.000,00 €
Total Costs	1.878.100,00 €

ɔns, alloys and

Total share per member (€)
55.657,37
46.677,80
36.997,69
21.920,28
37.974,19
77.437,63
36.159,17
115.271,79
45.839,28
305.700,38
45.839,28
66.223,77
21.081,76
54.866,62
178.648,92
19.266,74
124.904,14
146.169,60
33.553,39
21.081,76
324.142,48
25.502,55
37.183,43
1.878.100,00 €

TEST 6

Assumptions

Generic costs: Shared equally among all members.
Metal-specific costs: **1/3** are allocated based on the number of substances (f 2) and **2/3** of the Metal-specific costs are allocated based on the tonnage bands (f 3).
They were **increased 10 times** to test the application of the formula for higher testing costs.
Values used in the spreadsheet: Extracted (with some adjustments for Confidentiality) from the received substance inventories (Only Ag, Au and PGM substances. Secondary raw materials, refinables, preparations, alloys and intermediates have **not been included**).
Substance inventories received: 23
Date: 7-mai-07

Company	N° of member	Individual f 1	Share of Generic costs per member	Substances	Total f 2	Individual f 2	First share of Metal-specific costs per member (Substances) (€)	subst. in tonnage band 1	subst. in tonnage band 2	subst. in tonnage band 3	subst. in tonnage band 4	Total f 3	Individual f 3	Second share of Metal-specific costs per member (Tonnage band) (€)	Total share per member (€)
	Applied weight							5	20	100	1000				
1	1	0,0435	6.004,35	10	4,38596	0,0439	25.438,60	7	3	0	0	95	0,0132	15.326,84	**46.769,79**
2	1	0,0435	6.004,35	4	1,75439	0,0175	10.175,44	2	0	2	0	210	0,0292	33.880,39	**50.060,18**
3	1	0,0435	6.004,35	4	1,75439	0,0175	10.175,44	2	1	1	0	130	0,0181	20.973,57	**37.153,36**
4	1	0,0435	6.004,35	1	0,4386	0,0044	2.543,86	0	0	1	0	100	0,0139	16.133,52	**24.681,73**
5	1	0,0435	6.004,35	6	2,63158	0,0263	15.263,16	3	3	0	0	75	0,0104	12.100,14	**33.367,64**
6	1	0,0435	6.004,35	10	4,38596	0,0439	25.438,60	7	2	2	0	275	0,0382	44.367,18	**75.810,12**
7	1	0,0435	6.004,35	6	2,63158	0,0263	15.263,16	4	2	0	0	60	0,0083	9.680,11	**30.947,62**
8	1	0,0435	6.004,35	15	6,57895	0,0658	38.157,89	2	11	2	0	430	0,0598	69.374,13	**113.536,37**
9	1	0,0435	6.004,35	6	2,63158	0,0263	15.263,16	4	1	1	0	140	0,0195	22.586,93	**43.854,43**
10	1	0,0435	6.004,35	37	16,2281	0,1623	94.122,81	26	9	0	1	1310	0,1822	211.349,10	**311.476,25**
11	1	0,0435	6.004,35	6	2,63158	0,0263	15.263,16	4	1	1	0	140	0,0195	22.586,93	**43.854,43**
12	1	0,0435	6.004,35	5	2,19298	0,0219	12.719,30	0	2	3	0	340	0,0473	54.853,96	**73.577,61**
13	1	0,0435	6.004,35	3	1,31579	0,0132	7.631,58	2	1	0	0	30	0,0042	4.840,06	**18.475,98**
14	1	0,0435	6.004,35	9	3,94737	0,0395	22.894,74	4	5	0	0	120	0,0167	19.360,22	**48.259,31**
15	1	0,0435	6.004,35	37	16,2281	0,1623	94.122,81	32	5	0	0	260	0,0362	41.947,15	**142.074,30**
16	1	0,0435	6.004,35	3	1,31579	0,0132	7.631,58	3	0	0	0	15	0,0021	2.420,03	**16.055,95**
17	1	0,0435	6.004,35	18	7,89474	0,0789	45.789,47	7	9	2	0	415	0,0577	66.954,10	**118.747,92**
18	1	0,0435	6.004,35	25	10,9649	0,1096	63.596,49	14	10	1	0	370	0,0515	59.694,02	**129.294,86**
19	1	0,0435	6.004,35	5	2,19298	0,0219	12.719,30	2	3	0	0	70	0,0097	11.293,46	**30.017,11**
20	1	0,0435	6.004,35	3	1,31579	0,0132	7.631,58	2	1	0	0	30	0,0042	4.840,06	**18.475,98**
21	1	0,0435	6.004,35	6	2,63158	0,0263	15.263,16	4	6	3	2	2440	0,3394	393.657,86	**414.925,36**
22	1	0,0435	6.004,35	4	1,75439	0,0175	10.175,44	3	1	0	0	35	0,0049	5.646,73	**21.826,52**
23	1	0,0435	6.004,35	5	2,19298	0,0219	12.719,30	0	5	0	0	100	0,0139	16.133,52	**34.857,16**
TOTAL	**23**			228	**100**			139	101	119	1003	**7190**			**1.878.100,00 €**

1/3 of Metal-specific Costs **2/3 of Metal-specific Costs**

Generic Costs	138.100,00 €
Metal-specific Costs	1.740.000,00 €
Total Costs	1.878.100,00 €

580.000,00 € **1.160.000,00 €**

0,33 - 0,66 x10

TEST 7

Assumptions

Generic costs: Shared equally among all members.

Metal-specific costs: **50%** are allocated based on the number of substances (f 2) and **50%** of the Metal-specific costs are allocated based on the tonnage bands (f 3).
They consider the **maximum** testing costs according to the Commission for 10 substance in the highest tonnage band (10 * 2 000 000 €) - worst case, quite improbable.

Values used in the spreadsheet: Extracted (with some adjustments for Confidentiality) from the received substance inventories (Only Ag, Au and PGM substances. Secondary raw materials, refinables, preparati
intermediates have **not been included**).

Substance inventories received: 23

Date: 7-mai-07

	N° of member	Individual f 1	Share of Generic costs per member	Substances	Total f 2	Individual f 2	First share of Metal-specific costs per member (Substances) (€)	subst. in tonnage band 1	subst. in tonnage band 2	subst. in tonnage band 3	subst. in tonnage band 4	Total f 3	Individual f 3	Second share of Metal-specific costs per member (Tonnage band) (€)
Company	Applied weight							5	20	100	1000			
1	1	0,0435	6.004,35	10	4,38596	0,0439	438.596,49	7	3	0	0	95	0,0132	132.127,96
2	1	0,0435	6.004,35	4	1,75439	0,0175	175.438,60	2	0	2	0	210	0,0292	292.072,32
3	1	0,0435	6.004,35	4	1,75439	0,0175	175.438,60	2	1	1	0	130	0,0181	180.806,68
4	1	0,0435	6.004,35	1	0,4386	0,0044	43.859,65	0	0	1	0	100	0,0139	139.082,06
5	1	0,0435	6.004,35	6	2,63158	0,0263	263.157,89	3	3	0	0	75	0,0104	104.311,54
6	1	0,0435	6.004,35	10	4,38596	0,0439	438.596,49	7	2	2	0	275	0,0382	382.475,66
7	1	0,0435	6.004,35	6	2,63158	0,0263	263.157,89	4	2	0	0	60	0,0083	83.449,24
8	1	0,0435	6.004,35	15	6,57895	0,0658	657.894,74	2	11	2	0	430	0,0598	598.052,85
9	1	0,0435	6.004,35	6	2,63158	0,0263	263.157,89	4	1	1	0	140	0,0195	194.714,88
10	1	0,0435	6.004,35	37	16,2281	0,1623	1.622.807,02	26	9	0	1	1310	0,1822	1.821.974,97
11	1	0,0435	6.004,35	6	2,63158	0,0263	263.157,89	4	1	1	0	140	0,0195	194.714,88
12	1	0,0435	6.004,35	5	2,19298	0,0219	219.298,25	0	2	3	0	340	0,0473	472.879,00
13	1	0,0435	6.004,35	3	1,31579	0,0132	131.578,95	2	1	0	0	30	0,0042	41.724,62
14	1	0,0435	6.004,35	9	3,94737	0,0395	394.736,84	4	5	0	0	120	0,0167	166.898,47
15	1	0,0435	6.004,35	37	16,2281	0,1623	1.622.807,02	32	5	0	0	260	0,0362	361.613,35
16	1	0,0435	6.004,35	3	1,31579	0,0132	131.578,95	3	0	0	0	15	0,0021	20.862,31
17	1	0,0435	6.004,35	18	7,89474	0,0789	789.473,68	7	9	2	0	415	0,0577	577.190,54
18	1	0,0435	6.004,35	25	10,9649	0,1096	1.096.491,23	14	10	1	0	370	0,0515	514.603,62
19	1	0,0435	6.004,35	5	2,19298	0,0219	219.298,25	2	3	0	0	70	0,0097	97.357,44
20	1	0,0435	6.004,35	3	1,31579	0,0132	131.578,95	2	1	0	0	30	0,0042	41.724,62
21	1	0,0435	6.004,35	6	2,63158	0,0263	263.157,89	4	6	3	2	2440	0,3394	3.393.602,23
22	1	0,0435	6.004,35	4	1,75439	0,0175	175.438,60	3	1	0	0	35	0,0049	48.678,72
23	1	0,0435	6.004,35	5	2,19298	0,0219	219.298,25	0	5	0	0	100	0,0139	139.082,06
TOTAL	**23**			228	**100**			139	101	119	1003	**7190**		

Generic Costs	138.100,00 €		
Metal-specific Costs	20.000.000,00 €	**50% of Metal-specific Costs**	**50% of Metal-specific Costs**
Total Costs	20.138.100,00 €	**10.000.000,00 €**	**10.000.000,00 €**

50-50 max

ons, alloys and

Total share per member (€)
576.728,79
473.515,27
362.249,62
188.946,06
373.473,79
827.076,50
352.611,48
1.261.951,94
463.877,12
3.450.786,33
463.877,12
698.181,59
179.307,91
567.639,66
1.990.424,72
158.445,60
1.372.668,57
1.617.099,19
322.660,03
179.307,91
3.662.764,47
230.121,66
364.384,65
20.138.100,00 €

Application of the cost-blocks cost-sharing formula with the values extracted from the received substance inventories

TEST 8

Assumptions

Generic costs: Shared equally among all members.

Metal-specific costs: **1/3** are allocated based on the number of substances (f 2) and **2/3** of the Metal-specific costs are allocated based on the tonnage bands (f 3).
They consider the **maximum** testing costs according to the Commission for 10 substance in the highest tonnage band (10 * 2 000 000 €) - worst case, quite improbable.

Values used in the spreadsheet: Extracted (with some adjustments for Confidentiality) from the received substance inventories (Only Ag, Au and PGM substances. Secondary raw materials, refinables, preparati intermediates have **not been included**).

Substance inventories received: 23

Date: 7-mai-07

	N° of member	Individual f 1	Share of Generic costs per member	Substances	Total f 2	Individual f 2	First share of Metal-specific costs per member (Substances) (€)	subst. in tonnage band 1	subst. in tonnage band 2	subst. in tonnage band 3	subst. in tonnage band 4	Total f 3	Individual f 3	Second share of Metal-specific costs per member (Tonnage band) (€)
Company	Applied weight							5	20	100	1000			
1	1	0,0435	6.004,35	10	4,38596	0,0439	292.397,66	7	3	0	0	95	0,0132	176.170,61
2	1	0,0435	6.004,35	4	1,75439	0,0175	116.959,06	2	0	2	0	210	0,0292	389.429,76
3	1	0,0435	6.004,35	4	1,75439	0,0175	116.959,06	2	1	1	0	130	0,0181	241.075,57
4	1	0,0435	6.004,35	1	0,4386	0,0044	29.239,77	0	0	1	0	100	0,0139	185.442,74
5	1	0,0435	6.004,35	6	2,63158	0,0263	175.438,60	3	3	0	0	75	0,0104	139.082,06
6	1	0,0435	6.004,35	10	4,38596	0,0439	292.397,66	7	2	2	0	275	0,0382	509.967,55
7	1	0,0435	6.004,35	6	2,63158	0,0263	175.438,60	4	2	0	0	60	0,0083	111.265,65
8	1	0,0435	6.004,35	15	6,57895	0,0658	438.596,49	2	11	2	0	430	0,0598	797.403,80
9	1	0,0435	6.004,35	6	2,63158	0,0263	175.438,60	4	1	1	0	140	0,0195	259.619,84
10	1	0,0435	6.004,35	37	16,2281	0,1623	1.081.871,35	26	9	0	1	1310	0,1822	2.429.299,95
11	1	0,0435	6.004,35	6	2,63158	0,0263	175.438,60	4	1	1	0	140	0,0195	259.619,84
12	1	0,0435	6.004,35	5	2,19298	0,0219	146.198,83	0	2	3	0	340	0,0473	630.505,33
13	1	0,0435	6.004,35	3	1,31579	0,0132	87.719,30	2	1	0	0	30	0,0042	55.632,82
14	1	0,0435	6.004,35	9	3,94737	0,0395	263.157,89	4	5	0	0	120	0,0167	222.531,29
15	1	0,0435	6.004,35	37	16,2281	0,1623	1.081.871,35	32	5	0	0	260	0,0362	482.151,14
16	1	0,0435	6.004,35	3	1,31579	0,0132	87.719,30	3	0	0	0	15	0,0021	27.816,41
17	1	0,0435	6.004,35	18	7,89474	0,0789	526.315,79	7	9	2	0	415	0,0577	769.587,39
18	1	0,0435	6.004,35	25	10,9649	0,1096	730.994,15	14	10	1	0	370	0,0515	686.138,15
19	1	0,0435	6.004,35	5	2,19298	0,0219	146.198,83	2	3	0	0	70	0,0097	129.809,92
20	1	0,0435	6.004,35	3	1,31579	0,0132	87.719,30	2	1	0	0	30	0,0042	55.632,82
21	1	0,0435	6.004,35	6	2,63158	0,0263	175.438,60	4	6	3	2	2440	0,3394	4.524.802,97
22	1	0,0435	6.004,35	4	1,75439	0,0175	116.959,06	3	1	0	0	35	0,0049	64.904,96
23	1	0,0435	6.004,35	5	2,19298	0,0219	146.198,83	0	5	0	0	100	0,0139	185.442,74
TOTAL	**23**			228	**100**			139	101	119	1003	**7190**		

Generic Costs	138.100,00 €		
Metal-specific Costs	20.000.000,00 €	**1/3 of Metal-specific Costs**	**2/3 of Metal-specific Costs**
Total Costs	20.138.100,00 €	**6.666.666,67 €**	**13.333.333,33 €**

0,33-0,66 max

ons, alloys and

Total share per member (€)
474.572,62
512.393,18
364.038,98
220.686,86
320.525,00
808.369,56
292.708,59
1.242.004,64
441.062,79
3.517.175,65
441.062,79
782.708,51
149.356,47
491.693,54
1.570.026,83
121.540,06
1.301.907,53
1.423.136,65
282.013,10
149.356,47
4.706.245,91
187.868,37
337.645,92
20.138.100,00 €

0,33-0,66 max