

Datum	Erste	KB	VIG	ri	Erste	KB	VIG
07.03.2014	693.30	4 769.00	985.00		-0.024483	0.006118	-0.007157
06.03.2014	710.70	4 740.00	992.10		0.017757	-0.010645	0.006187
05.03.2014	698.30	4 791.00	986.00		0.016153	0.000209	0.000406
04.03.2014	687.20	4 790.00	985.60		0.022619	0.014186	-0.004444
03.03.2014	672.00	4 723.00	990.00		-0.048024	-0.016042	-0.021739
28.02.2014	705.90	4 800.00	1 012.00		-0.089749	0.030043	0.004965
27.02.2014	775.50	4 660.00	1 007.00		-0.022068	0.006479	0.000994
26.02.2014	793.00	4 630.00	1 006.00		-0.008750	-0.010684	-0.009843
25.02.2014	800.00	4 680.00	1 016.00		-0.000625	-0.006580	-0.000983
24.02.2014	800.50	4 711.00	1 017.00		0.000000	-0.011955	0.005935
21.02.2014	800.50	4 768.00	1 011.00		0.009967	0.012314	0.031738
20.02.2014	792.60	4 710.00	979.90		-0.004146	-0.006329	-0.010202
19.02.2014	795.90	4 740.00	990.00		0.007213	0.002114	-0.016882
18.02.2014	790.20	4 730.00	1 007.00		0.009195	0.000000	0.009726
17.02.2014	783.00	4 730.00	997.30		0.011628	0.008959	0.000301
14.02.2014	774.00	4 688.00	997.00		0.003891	0.051121	-0.008946
13.02.2014	771.00	4 460.00	1 006.00		-0.006571	-0.008669	-0.001984
12.02.2014	776.10	4 499.00	1 008.00		0.018905	0.008744	0.014697
11.02.2014	761.70	4 460.00	993.40		-0.017922	-0.004020	0.003840
10.02.2014	775.60	4 478.00	989.60		0.004663	0.010835	0.007739
07.02.2014	772.00	4 430.00	982.00		0.000259	-0.006726	-0.005972
06.02.2014	771.80	4 460.00	987.90		0.020629	0.027650	0.027457
05.02.2014	756.20	4 340.00	961.50		0.026052	0.004630	-0.004452
04.02.2014	737.00	4 320.00	965.80		0.010974	-0.018182	-0.002479
03.02.2014	729.00	4 400.00	968.20		-0.011793	-0.004975	0.002174
31.01.2014	737.70	4 422.00	966.10		-0.033918	0.014220	-0.006070
30.01.2014	763.60	4 360.00	972.00		-0.010753	0.002299	-0.003281
29.01.2014	771.90	4 350.00	975.20		-0.017314	0.000000	-0.031579
28.01.2014	785.50	4 350.00	1 007.00		0.039159	0.011628	-0.001982
27.01.2014	755.90	4 300.00	1 009.00		-0.028905	-0.011494	-0.016569
24.01.2014	778.40	4 350.00	1 026.00		-0.022847	-0.003436	-0.011561
23.01.2014	796.60	4 365.00	1 038.00		0.010914	-0.003425	-0.014245
22.01.2014	788.00	4 380.00	1 053.00		0.012073	-0.000684	0.004771
21.01.2014	778.60	4 383.00	1 048.00		-0.008153	0.005737	-0.004748
20.01.2014	785.00	4 358.00	1 053.00		-0.005322	0.010199	-0.001896
17.01.2014	789.20	4 314.00	1 055.00		-0.001897	-0.015293	0.013449
16.01.2014	790.70	4 381.00	1 041.00		-0.013844	-0.028603	-0.009515
15.01.2014	801.80	4 510.00	1 051.00		0.027685	-0.002212	0.026367
14.01.2014	780.20	4 520.00	1 024.00		-0.006115	0.011186	-0.017274
13.01.2014	785.00	4 470.00	1 042.00		0.016313	0.021714	0.008712
10.01.2014	772.40	4 375.00	1 033.00		0.005467	0.017679	0.019743
09.01.2014	768.20	4 299.00	1 013.00		-0.000650	0.014873	0.010978
08.01.2014	768.70	4 236.00	1 002.00		0.052005	0.001418	0.012121
07.01.2014	730.70	4 230.00	990.00		0.042814	-0.030928	0.001011
06.01.2014	700.70	4 365.00	989.00		0.001143	-0.016892	0.000000
03.01.2014	699.90	4 440.00	989.00		0.005603	0.000000	0.001012

02.01.2014	696.00	4 440.00	988.00
30.12.2013	698.00	4 421.00	990.00
27.12.2013	699.80	4 385.00	990.00
23.12.2013	700.80	4 360.00	990.00
20.12.2013	694.20	4 315.00	978.70
19.12.2013	685.20	4 320.00	973.00
18.12.2013	685.30	4 303.00	973.70
17.12.2013	664.50	4 246.00	966.50
16.12.2013	674.80	4 269.00	968.00
13.12.2013	653.00	4 205.00	965.80
12.12.2013	658.80	4 345.00	972.50
11.12.2013	676.50	4 365.00	960.00
10.12.2013	678.50	4 220.00	957.20
09.12.2013	682.70	4 200.00	957.70
06.12.2013	675.00	4 340.00	961.30
05.12.2013	675.00	4 474.00	958.00
04.12.2013	682.10	4 500.00	998.00
03.12.2013	689.00	4 543.00	1 029.00
02.12.2013	699.70	4 505.00	1 051.00
29.11.2013	709.20	4 627.00	1 056.00
28.11.2013	706.60	4 586.00	1 054.00
27.11.2013	704.00	4 580.00	1 059.00
26.11.2013	697.00	4 450.00	1 061.00
25.11.2013	697.50	4 511.00	1 060.00
22.11.2013	693.00	4 510.00	1 034.00
21.11.2013	686.70	4 466.00	1 034.00
20.11.2013	676.00	4 585.00	1 024.00
19.11.2013	686.30	4 600.00	1 023.00
18.11.2013	693.70	4 630.00	1 021.00
15.11.2013	684.90	4 580.00	1 001.00
14.11.2013	680.20	4 500.00	995.80
13.11.2013	676.00	4 451.00	980.50
12.11.2013	696.90	4 430.00	1 022.00
11.11.2013	699.40	4 490.00	1 049.00
08.11.2013	687.60	4 560.00	1 020.00
07.11.2013	706.00	4 810.00	1 048.00
06.11.2013	687.30	4 810.00	1 012.00
05.11.2013	679.00	4 770.00	1 009.00
04.11.2013	691.90	4 790.00	1 009.00
01.11.2013	669.70	4 738.00	1 003.00
31.10.2013	672.80	4 718.00	1 006.00
30.10.2013	680.00	4 620.00	1 002.00
29.10.2013	642.00	4 590.00	1 016.00
25.10.2013	625.70	4 410.00	1 024.00
24.10.2013	631.20	4 425.00	1 013.00
23.10.2013	624.00	4 460.00	1 017.00
22.10.2013	635.50	4 519.00	1 022.00

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21.10.2013	635.50	4 550.00	1 031.00	0.004425	0.005525	0.012770
18.10.2013	632.70	4 525.00	1 018.00	0.020648	0.014574	0.009921
17.10.2013	619.90	4 460.00	1 008.00	-0.015876	-0.002237	0.003984
16.10.2013	629.90	4 470.00	1 004.00	0.008808	0.013605	0.012097
15.10.2013	624.40	4 410.00	992.00	0.011994	0.025820	0.000000
14.10.2013	617.00	4 299.00	992.00	0.001786	-0.000233	0.015353
11.10.2013	615.90	4 300.00	977.00	0.004403	-0.010357	-0.002756
10.10.2013	613.20	4 345.00	979.70	0.023364	0.026216	0.010000
09.10.2013	599.20	4 234.00	970.00	0.000334	0.005462	-0.005128
08.10.2013	599.00	4 211.00	975.00	-0.008770	-0.006840	0.001644
07.10.2013	604.30	4 240.00	973.40	-0.010642	0.003550	0.003505
04.10.2013	610.80	4 225.00	970.00	0.009587	-0.008449	0.005911
03.10.2013	605.00	4 261.00	964.30	-0.008197	-0.014798	-0.004850
02.10.2013	610.00	4 325.00	969.00	-0.006515	0.011696	-0.011527
01.10.2013	614.00	4 275.00	980.30	0.014876	0.011356	0.000510
30.09.2013	605.00	4 227.00	979.80	0.006656	-0.000709	-0.006892
27.09.2013	601.00	4 230.00	986.60	-0.004143	0.014875	0.009619
26.09.2013	603.50	4 168.00	977.20	-0.008706	0.004337	-0.009427
25.09.2013	608.80	4 150.00	986.50	-0.007014	-0.002644	-0.002629
24.09.2013	613.10	4 161.00	989.10	-0.003414	-0.002158	0.019060
23.09.2013	615.20	4 170.00	970.60	0.005557	0.007246	-0.001440
20.09.2013	611.80	4 140.00	972.00	-0.014021	-0.026341	-0.029940
19.09.2013	620.50	4 252.00	1 002.00	0.020224	-0.002112	0.012121
18.09.2013	608.20	4 261.00	990.00	-0.001314	0.003296	-0.007021
17.09.2013	609.00	4 247.00	997.00	-0.017742	0.006398	-0.011893
16.09.2013	620.00	4 220.00	1 009.00	0.033161	-0.003777	0.010415
13.09.2013	600.10	4 236.00	998.60	-0.036912	-0.014884	0.005639
12.09.2013	623.10	4 300.00	993.00	-0.024883	0.011765	-0.010956
11.09.2013	639.00	4 250.00	1 004.00	-0.006993	0.014562	-0.003968
10.09.2013	643.50	4 189.00	1 008.00	0.005469	0.034066	0.002985
09.09.2013	640.00	4 051.00	1 005.00	0.013781	-0.011951	0.010050
06.09.2013	631.30	4 100.00	995.00	-0.013594	-0.011572	-0.008964
05.09.2013	640.00	4 148.00	1 004.00	0.007398	-0.017760	0.023445
04.09.2013	635.30	4 223.00	981.00	-0.000315	-0.001891	-0.018411
03.09.2013	635.50	4 231.00	999.40	0.000315	0.007381	0.006445
02.09.2013	635.30	4 200.00	993.00	0.014694	0.000000	0.002018
30.08.2013	626.10	4 200.00	991.00	-0.010119	0.004544	-0.023645
29.08.2013	632.50	4 181.00	1 015.00	0.019339	0.000239	0.017034
28.08.2013	620.50	4 180.00	998.00	-0.002732	-0.012987	-0.014808
27.08.2013	622.20	4 235.00	1 013.00	-0.039222	-0.008661	-0.016505
26.08.2013	647.60	4 272.00	1 030.00	-0.011298	-0.001869	-0.020913
23.08.2013	655.00	4 280.00	1 052.00	-0.001372	0.008245	0.000000
22.08.2013	655.90	4 245.00	1 052.00	0.017530	0.008074	0.003817
21.08.2013	644.60	4 211.00	1 048.00	0.001243	-0.003314	-0.018727
20.08.2013	643.80	4 225.00	1 068.00	-0.038100	-0.003538	-0.016575
19.08.2013	669.30	4 240.00	1 086.00	-0.032244	0.005931	0.000000
16.08.2013	691.60	4 215.00	1 086.00	0.037037	0.001188	0.023563

15.08.2013	666.90	4 210.00	1 061.00	-0.014919	-0.020247	0.000000
14.08.2013	677.00	4 297.00	1 061.00	-0.004412	0.006559	-0.027498
13.08.2013	680.00	4 269.00	1 091.00	0.023480	-0.007209	0.017724
12.08.2013	664.40	4 300.00	1 072.00	-0.001503	0.000233	-0.009242
09.08.2013	665.40	4 299.00	1 082.00	0.017742	0.011529	-0.001845
08.08.2013	653.80	4 250.00	1 084.00	0.031230	0.031553	0.008372
07.08.2013	634.00	4 120.00	1 075.00	0.011971	0.041719	0.005613
06.08.2013	626.50	3 955.00	1 069.00	0.004812	0.014103	-0.004655
05.08.2013	623.50	3 900.00	1 074.00	0.005645	-0.032258	0.022857
02.08.2013	620.00	4 030.00	1 050.00	0.013403	0.005991	0.031434
01.08.2013	611.80	4 006.00	1 018.00	0.031355	0.054211	0.005929
31.07.2013	593.20	3 800.00	1 012.00	0.006447	0.000000	0.010989
30.07.2013	589.40	3 800.00	1 001.00	0.002893	0.027027	0.000000
29.07.2013	587.70	3 700.00	1 001.00	0.000511	0.017322	-0.005958
26.07.2013	587.40	3 637.00	1 007.00	0.025131	-0.012758	0.000994
25.07.2013	573.00	3 684.00	1 006.00	-0.003478	-0.002167	-0.000993
24.07.2013	575.00	3 692.00	1 007.00	0.045455	0.031285	-0.004941
23.07.2013	550.00	3 580.00	1 012.00	0.021545	0.028440	-0.020329
22.07.2013	538.40	3 481.00	1 033.00	-0.004438	-0.013881	0.009775
19.07.2013	540.80	3 530.00	1 023.00	-0.041135	-0.001414	0.000978
18.07.2013	564.00	3 535.00	1 022.00	0.021739	-0.012570	0.012884
17.07.2013	552.00	3 580.00	1 009.00	0.007299	-0.006659	-0.005911
16.07.2013	548.00	3 604.00	1 015.00	-0.019152	-0.010977	-0.008789
15.07.2013	558.70	3 644.00	1 024.00	0.001613	-0.009783	0.009862
12.07.2013	557.80	3 680.00	1 014.00	0.045548	0.013774	0.007952
11.07.2013	533.50	3 630.00	1 006.00	0.041992	0.019663	0.010954
10.07.2013	512.00	3 560.00	995.10	-0.015195	0.007072	0.011280
09.07.2013	519.90	3 535.00	984.00	-0.013847	-0.002258	0.004697
08.07.2013	527.20	3 543.00	979.40	0.018547	-0.004775	0.036292
04.07.2013	517.60	3 560.00	945.10	0.033340	0.007357	-0.006204
03.07.2013	500.90	3 534.00	951.00	-0.031516	-0.039674	0.003588
02.07.2013	517.20	3 680.00	947.60	-0.022306	0.005739	0.003814
01.07.2013	529.00	3 659.00	944.00	-0.001887	-0.013747	0.009626
28.06.2013	530.00	3 710.00	935.00	-0.023222	0.022039	-0.004260
27.06.2013	542.60	3 630.00	939.00	-0.000737	0.031836	0.008701
26.06.2013	543.00	3 518.00	930.90	0.040429	-0.017044	0.035484
25.06.2013	521.90	3 579.00	899.00	-0.005715	0.005337	0.006719
24.06.2013	524.90	3 560.00	893.00	-0.079123	0.005934	-0.044920
21.06.2013	570.00	3 539.00	935.00	-0.040081	0.014040	-0.015789
20.06.2013	593.80	3 490.00	950.00	-0.042567	-0.008523	-0.025141
19.06.2013	620.20	3 520.00	974.50	0.000484	0.000853	0.008799
18.06.2013	619.90	3 517.00	966.00	0.008952	-0.032728	0.000207
17.06.2013	614.40	3 636.00	965.80	-0.002921	-0.003836	-0.000207
14.06.2013	616.20	3 650.00	966.00	0.011823	0.005510	0.012154
13.06.2013	609.00	3 630.00	954.40	0.003130	-0.006840	-0.008416
12.06.2013	607.10	3 655.00	962.50	-0.004917	-0.016151	-0.003004
11.06.2013	610.10	3 715.00	965.40	-0.007160	-0.001881	-0.014898

10.06.2013	614.50	3 722.00	980.00
07.06.2013	622.80	3 732.00	975.00
06.06.2013	617.90	3 738.00	975.00
05.06.2013	641.00	3 726.00	977.00
04.06.2013	651.10	3 726.00	985.00
03.06.2013	640.00	3 711.00	969.00
31.05.2013	642.00	3 755.00	982.00
30.05.2013	662.00	3 860.00	1 010.00
29.05.2013	659.00	3 870.00	1 008.00
28.05.2013	664.10	3 855.00	1 032.00
27.05.2013	647.40	3 860.00	1 034.00
24.05.2013	641.20	3 825.00	1 020.00
23.05.2013	655.00	3 830.00	1 040.00
22.05.2013	670.00	3 745.00	1 060.00
21.05.2013	658.00	3 750.00	1 049.00
20.05.2013	667.30	3 756.00	1 031.00
17.05.2013	669.00	3 782.00	1 031.00
16.05.2013	662.00	3 791.00	1 036.00
15.05.2013	650.10	3 785.00	1 039.00
14.05.2013	639.90	3 810.00	1 031.00
13.05.2013	628.90	3 693.00	1 038.00
10.05.2013	623.90	3 630.00	1 060.00
09.05.2013	623.30	3 700.00	1 040.00
07.05.2013	619.40	3 819.00	1 029.00
06.05.2013	615.80	3 838.00	1 017.00
03.05.2013	605.00	3 850.00	1 020.00
02.05.2013	601.00	3 825.00	1 021.00
30.04.2013	614.90	3 744.00	1 035.00
29.04.2013	621.50	3 720.00	1 022.00
26.04.2013	618.20	3 682.00	1 029.00
25.04.2013	624.60	3 690.00	1 036.00
24.04.2013	626.00	3 700.00	1 028.00
23.04.2013	636.00	3 650.00	998.80
22.04.2013	616.00	3 589.00	998.30
19.04.2013	600.40	3 548.00	973.00
18.04.2013	595.10	3 400.00	977.00
17.04.2013	613.00	3 517.00	995.00
16.04.2013	614.60	3 590.00	1 009.00
15.04.2013	608.70	3 580.00	989.00
12.04.2013	619.60	3 800.00	992.00
11.04.2013	641.00	3 804.00	980.00
10.04.2013	622.00	3 766.00	973.30
09.04.2013	585.20	3 750.00	949.80
08.04.2013	567.60	3 710.00	961.80
05.04.2013	568.50	3 791.00	954.90
04.04.2013	577.50	3 881.00	963.00
03.04.2013	579.20	3 934.00	959.40

-0.013327	-0.002680	0.005128
0.007930	-0.001605	0.000000
-0.036037	0.003221	-0.002047
-0.015512	0.000000	-0.008122
0.017344	0.004042	0.016512
-0.003115	-0.011718	-0.013238
-0.030211	-0.027202	-0.027723
0.004552	-0.002584	0.001984
-0.007680	0.003891	-0.023256
0.025795	-0.001295	-0.001934
0.009669	0.009150	0.013725
-0.021069	-0.001305	-0.019231
-0.022388	0.022697	-0.018868
0.018237	-0.001333	0.010486
-0.013937	-0.001597	0.017459
-0.002541	-0.006875	0.000000
0.010574	-0.002374	-0.004826
0.018305	0.001585	-0.002887
0.015940	-0.006562	0.007759
0.017491	0.031682	-0.006744
0.008014	0.017355	-0.020755
0.000963	-0.018919	0.019231
0.006296	-0.031160	0.010690
0.005846	-0.004950	0.011799
0.017851	-0.003117	-0.002941
0.006656	0.006536	-0.000979
-0.022605	0.021635	-0.013527
-0.010619	0.006452	0.012720
0.005338	0.010320	-0.006803
-0.010247	-0.002168	-0.006757
-0.002236	-0.002703	0.007782
-0.015723	0.013699	0.029235
0.032468	0.016996	0.000501
0.025983	0.011556	0.026002
0.008906	0.043529	-0.004094
-0.029201	-0.033267	-0.018090
-0.002603	-0.020334	-0.013875
0.009693	0.002793	0.020222
-0.017592	-0.057895	-0.003024
-0.033385	-0.001052	0.012245
0.030547	0.010090	0.006884
0.062884	0.004267	0.024742
0.031008	0.010782	-0.012477
-0.001583	-0.021366	0.007226
-0.015584	-0.023190	-0.008411
-0.002935	-0.013472	0.003752
0.009059	0.001018	-0.023511

02.04.2013	574.00	3 930.00	982.50	0.015929	0.023704	0.021310	
28.03.2013	565.00	3 839.00	962.00	-0.003527	0.021011	0.012632	
27.03.2013	567.00	3 760.00	950.00	-0.006831	-0.005554	-0.033571	
26.03.2013	570.90	3 781.00	983.00	0.003339	-0.005000	-0.015030	
25.03.2013	569.00	3 800.00	998.00	-0.036899	0.000000	-0.021569	
22.03.2013	590.80	3 800.00	1 020.00	-0.013689	-0.006536	0.013917	
21.03.2013	599.00	3 825.00	1 006.00	0.006723	-0.009067	-0.009843	
20.03.2013	595.00	3 860.00	1 016.00	0.013629	-0.002584	-0.009747	
19.03.2013	587.00	3 870.00	1 026.00	-0.011285	-0.007692	0.010837	
18.03.2013	593.70	3 900.00	1 015.00	-0.026721	-0.012658	-0.000984	
15.03.2013	610.00	3 950.00	1 016.00	-0.023219	-0.024691	-0.011673	
14.03.2013	624.50	4 050.00	1 028.00	0.019259	-0.004914	0.002927	
13.03.2013	612.70	4 070.00	1 025.00	-0.022807	-0.015719	0.010848	
12.03.2013	627.00	4 135.00	1 014.00	-0.020313	-0.005292	-0.004907	
11.03.2013	640.00	4 157.00	1 019.00	-0.013564	0.006538	0.003941	
08.03.2013	648.80	4 130.00	1 015.00	0.016928	0.001212	0.018361	
07.03.2013	638.00	4 125.00	996.70				
				E(ri)	0.00054	0.00071	0.00005

250

wi	0.35	0.35	0.3
	0.333333	0.333333	0.333333

var	Erste	KB	VIG	covar	Erste	KB	VIG
	0.000626	2.93E-05	5.19E-05		-0.025028	0.005410	-0.007206
	0.000296	0.000129	3.77E-05		0.017213	-0.011354	0.006138
	0.000244	2.5E-07	1.27E-07		0.015608	-0.000500	0.000357
	0.000487	0.000182	2.02E-05		0.022074	0.013477	-0.004493
	0.002359	0.000281	0.000475		-0.048569	-0.016750	-0.021788
	0.008153	0.000861	2.42E-05		-0.090293	0.029334	0.004916
	0.000511	3.33E-05	8.93E-07		-0.022613	0.005771	0.000945
	8.64E-05	0.00013	9.78E-05		-0.009295	-0.011392	-0.009892
	1.37E-06	5.31E-05	1.07E-06		-0.001169	-0.007289	-0.001032
	2.97E-07	0.00016	3.46E-05		-0.000545	-0.012663	0.005886
	8.88E-05	0.000135	0.001004		0.009422	0.011606	0.031689
	2.2E-05	4.95E-05	0.000105		-0.004691	-0.007038	-0.010251
	4.45E-05	1.98E-06	0.000287		0.006669	0.001406	-0.016931
	7.48E-05	5.02E-07	9.36E-05		0.008651	-0.000709	0.009677
	0.000123	6.81E-05	6.34E-08		0.011083	0.008250	0.000252
	1.12E-05	0.002541	8.09E-05		0.003346	0.050413	-0.008995
	5.06E-05	8.79E-05	4.13E-06		-0.007116	-0.009377	-0.002033
	0.000337	6.46E-05	0.000215		0.018360	0.008036	0.014648
	0.000341	2.24E-05	1.44E-05		-0.018466	-0.004728	0.003791
	1.7E-05	0.000103	5.91E-05		0.004118	0.010127	0.007690
	8.16E-08	5.53E-05	3.63E-05		-0.000286	-0.007435	-0.006021
	0.000403	0.000726	0.000751		0.020085	0.026941	0.027408
	0.000651	1.54E-05	2.03E-05		0.025507	0.003921	-0.004501
	0.000109	0.000357	6.39E-06		0.010429	-0.018890	-0.002528
	0.000152	3.23E-05	4.51E-06		-0.012338	-0.005684	0.002125
	0.001188	0.000183	3.74E-05		-0.034463	0.013512	-0.006119
	0.000128	2.53E-06	1.11E-05		-0.011298	0.001590	-0.003330
	0.000319	5.02E-07	0.001		-0.017859	-0.000709	-0.031628
	0.001491	0.000119	4.13E-06		0.038614	0.010919	-0.002031
	0.000867	0.000149	0.000276		-0.029450	-0.012203	-0.016618
	0.000547	1.72E-05	0.000135		-0.023392	-0.004145	-0.011610
	0.000108	1.71E-05	0.000204		0.010369	-0.004133	-0.014294
	0.000133	1.94E-06	2.23E-05		0.011528	-0.001393	0.004722
	7.56E-05	2.53E-05	2.3E-05		-0.008698	0.005028	-0.004797
	3.44E-05	9.01E-05	3.78E-06		-0.005867	0.009491	-0.001945
	5.96E-06	0.000256	0.00018		-0.002442	-0.016002	0.013400
	0.000207	0.000859	9.15E-05		-0.014389	-0.029312	-0.009564
	0.000737	8.53E-06	0.000693		0.027140	-0.002921	0.026318
	4.43E-05	0.00011	0.0003		-0.006659	0.010477	-0.017323
	0.000249	0.000441	7.51E-05		0.015768	0.021006	0.008663
	2.42E-05	0.000288	0.000388		0.004923	0.016970	0.019694
	1.43E-06	0.000201	0.000119		-0.001195	0.014164	0.010929
	0.002648	5.04E-07	0.000146		0.051460	0.000710	0.012072
	0.001787	0.001001	9.26E-07		0.042270	-0.031636	0.000962
	3.58E-07	0.00031	2.4E-09		0.000598	-0.017600	-0.000049
	2.56E-05	5.02E-07	9.28E-07		0.005059	-0.000709	0.000963

1.16E-05	1.29E-05	4.28E-06	-0.003410	0.003589	-0.002069
9.72E-06	5.63E-05	2.4E-09	-0.003117	0.007501	-0.000049
3.89E-06	2.53E-05	2.4E-09	-0.001972	0.005025	-0.000049
8.03E-05	9.45E-05	0.000132	0.008963	0.009720	0.011497
0.000159	3.48E-06	3.37E-05	0.012590	-0.001866	0.005809
4.77E-07	1.05E-05	5.9E-07	-0.000691	0.003242	-0.000768
0.000946	0.000162	5.48E-05	0.030757	0.012716	0.007401
0.00025	3.72E-05	2.56E-06	-0.015809	-0.006096	-0.001599
0.001078	0.000211	4.97E-06	0.032840	0.014511	0.002229
8.74E-05	0.001084	4.81E-05	-0.009349	-0.032930	-0.006938
0.000713	2.8E-05	0.000168	-0.026709	-0.005290	0.012972
1.22E-05	0.001132	8.27E-06	-0.003492	0.033652	0.002876
4.48E-05	1.64E-05	3.26E-07	-0.006697	0.004053	-0.000571
0.000118	0.001087	1.44E-05	0.010863	-0.032967	-0.003794
2.97E-07	0.00094	1.15E-05	-0.000545	-0.030659	0.003396
0.00012	4.21E-05	0.00161	-0.010954	-0.006486	-0.040129
0.000111	0.000104	0.000911	-0.010559	-0.010174	-0.030175
0.000251	5.97E-05	0.00044	-0.015837	0.007727	-0.020981
0.000194	0.000733	2.29E-05	-0.013940	-0.027076	-0.004784
9.83E-06	6.78E-05	3.42E-06	0.003135	0.008232	0.001849
9.91E-06	3.62E-07	2.28E-05	0.003148	0.000601	-0.004770
9.02E-05	0.000813	3.74E-06	0.009498	0.028505	-0.001934
1.59E-06	0.000203	8E-07	-0.001262	-0.014231	0.000894
3.54E-05	2.37E-07	0.00063	0.005949	-0.000487	0.025096
7.45E-05	8.36E-05	2.4E-09	0.008629	0.009144	-0.000049
0.000234	0.000711	9.44E-05	0.015284	-0.026663	0.009717
0.000242	1.58E-05	8.62E-07	-0.015553	-0.003969	0.000929
0.000126	5.17E-05	3.65E-06	-0.011212	-0.007188	0.001910
0.000151	0.000104	0.000397	0.012304	0.010208	0.019931
4.05E-05	0.000291	2.68E-05	0.006365	0.017069	0.005173
3.21E-05	0.000106	0.000242	0.005668	0.010300	0.015555
0.000932	1.63E-05	0.001653	-0.030535	0.004032	-0.040656
1.7E-05	0.000198	0.000665	-0.004119	-0.014072	-0.025788
0.000276	0.000258	0.000806	0.016616	-0.016059	0.028382
0.000708	0.002776	0.000716	-0.026607	-0.052684	-0.026767
0.000711	5.02E-07	0.001262	0.026663	-0.000709	0.035524
0.000136	5.89E-05	8.55E-06	0.011679	0.007677	0.002924
0.000368	2.39E-05	2.4E-09	-0.019189	-0.004884	-0.000049
0.001063	0.000105	3.52E-05	0.032604	0.010267	0.005933
2.65E-05	1.25E-05	9.19E-06	-0.005152	0.003531	-0.003031
0.000124	0.00042	1.55E-05	-0.011133	0.020504	0.003943
0.003439	3.4E-05	0.000191	0.058645	0.005827	-0.013829
0.000651	0.001609	6.18E-05	0.025506	0.040108	-0.007862
8.57E-05	1.68E-05	0.000117	-0.009258	-0.004098	0.010810
0.000121	7.32E-05	1.59E-05	0.010994	-0.008556	-0.003982
0.000347	0.000189	2.44E-05	-0.018641	-0.013765	-0.004941
2.97E-07	5.66E-05	7.71E-05	-0.000545	-0.007522	-0.008778

1.51E-05	2.32E-05	0.000162	0.003881	0.004816	0.012721
0.000404	0.000192	9.74E-05	0.020104	0.013865	0.009872
0.00027	8.68E-06	1.55E-05	-0.016420	-0.002946	0.003935
6.83E-05	0.000166	0.000145	0.008264	0.012897	0.012048
0.000131	0.000631	2.4E-09	0.011449	0.025111	-0.000049
1.54E-06	8.86E-07	0.000234	0.001241	-0.000941	0.015304
1.49E-05	0.000122	7.87E-06	0.003858	-0.011065	-0.002805
0.000521	0.000651	9.9E-05	0.022820	0.025508	0.009951
4.45E-08	2.26E-05	2.68E-05	-0.000211	0.004753	-0.005177
8.68E-05	5.7E-05	2.54E-06	-0.009315	-0.007548	0.001595
0.000125	8.08E-06	1.19E-05	-0.011187	0.002842	0.003456
8.18E-05	8.39E-05	3.44E-05	0.009042	-0.009157	0.005862
7.64E-05	0.00024	2.4E-05	-0.008742	-0.015506	-0.004899
4.98E-05	0.000121	0.000134	-0.007059	0.010987	-0.011576
0.000205	0.000113	2.13E-07	0.014331	0.010647	0.000461
3.73E-05	2.01E-06	4.82E-05	0.006111	-0.001418	-0.006941
2.2E-05	0.000201	9.16E-05	-0.004687	0.014167	0.009570
8.56E-05	1.32E-05	8.98E-05	-0.009250	0.003629	-0.009476
5.71E-05	1.12E-05	7.17E-06	-0.007558	-0.003352	-0.002678
1.57E-05	8.22E-06	0.000361	-0.003958	-0.002867	0.019011
2.51E-05	4.27E-05	2.22E-06	0.005013	0.006538	-0.001489
0.000212	0.000732	0.000899	-0.014566	-0.027049	-0.029989
0.000387	7.96E-06	0.000146	0.019679	-0.002821	0.012072
3.45E-06	6.7E-06	5E-05	-0.001858	0.002588	-0.007070
0.000334	3.24E-05	0.000143	-0.018287	0.005690	-0.011942
0.001064	2.01E-05	0.000107	0.032616	-0.004486	0.010366
0.001403	0.000243	3.13E-05	-0.037457	-0.015592	0.005590
0.000647	0.000122	0.000121	-0.025427	0.011056	-0.011005
5.68E-05	0.000192	1.61E-05	-0.007538	0.013853	-0.004017
2.42E-05	0.001113	8.62E-06	0.004924	0.033357	0.002936
0.000175	0.00016	0.0001	0.013236	-0.012660	0.010001
0.0002	0.000151	8.12E-05	-0.014139	-0.012280	-0.009013
4.7E-05	0.000341	0.000547	0.006853	-0.018468	0.023396
7.39E-07	6.76E-06	0.000341	-0.000860	-0.002599	-0.018460
5.29E-08	4.45E-05	4.09E-05	-0.000230	0.006672	0.006396
0.0002	5.02E-07	3.88E-06	0.014149	-0.000709	0.001969
0.000114	1.47E-05	0.000561	-0.010663	0.003836	-0.023694
0.000353	2.2E-07	0.000288	0.018794	-0.000469	0.016985
1.07E-05	0.000188	0.000221	-0.003277	-0.013696	-0.014857
0.001581	8.78E-05	0.000274	-0.039767	-0.009370	-0.016554
0.00014	6.64E-06	0.000439	-0.011843	-0.002578	-0.020962
3.67E-06	5.68E-05	2.4E-09	-0.001917	0.007536	-0.000049
0.000289	5.43E-05	1.42E-05	0.016985	0.007366	0.003768
4.87E-07	1.62E-05	0.000353	0.000698	-0.004022	-0.018776
0.001493	1.8E-05	0.000276	-0.038644	-0.004246	-0.016624
0.001075	2.73E-05	2.4E-09	-0.032789	0.005223	-0.000049
0.001332	2.3E-07	0.000553	0.036492	0.000479	0.023514

0.000239	0.000439	2.4E-09	-0.015464	-0.020955	-0.000049
2.46E-05	3.42E-05	0.000759	-0.004957	0.005850	-0.027547
0.000526	6.27E-05	0.000312	0.022935	-0.007918	0.017675
4.19E-06	2.27E-07	8.63E-05	-0.002048	-0.000476	-0.009291
0.000296	0.000117	3.59E-06	0.017198	0.010821	-0.001894
0.000942	0.000951	6.93E-05	0.030685	0.030845	0.008323
0.000131	0.001682	3.1E-05	0.011426	0.041011	0.005564
1.82E-05	0.000179	2.21E-05	0.004267	0.013394	-0.004705
2.6E-05	0.001087	0.00052	0.005100	-0.032967	0.022808
0.000165	2.79E-05	0.000985	0.012858	0.005282	0.031385
0.000949	0.002862	3.46E-05	0.030811	0.053502	0.005880
3.48E-05	5.02E-07	0.00012	0.005902	-0.000709	0.010940
5.51E-06	0.000693	2.4E-09	0.002348	0.026318	-0.000049
1.16E-09	0.000276	3.61E-05	-0.000034	0.016613	-0.006007
0.000604	0.000181	8.93E-07	0.024586	-0.013466	0.000945
1.62E-05	8.27E-06	1.09E-06	-0.004023	-0.002875	-0.001042
0.002017	0.000935	2.49E-05	0.044910	0.030576	-0.004990
0.000441	0.000769	0.000415	0.021000	0.027732	-0.020378
2.48E-05	0.000213	9.46E-05	-0.004983	-0.014590	0.009726
0.001737	4.51E-06	8.64E-07	-0.041680	-0.002123	0.000929
0.000449	0.000176	0.000165	0.021194	-0.013278	0.012835
4.56E-05	5.43E-05	3.55E-05	0.006754	-0.007368	-0.005960
0.000388	0.000137	7.81E-05	-0.019696	-0.011686	-0.008838
1.14E-06	0.00011	9.63E-05	0.001069	-0.010491	0.009813
0.002025	0.000171	6.25E-05	0.045003	0.013066	0.007903
0.001718	0.000359	0.000119	0.041447	0.018954	0.010905
0.000248	4.05E-05	0.000126	-0.015740	0.006364	0.011231
0.000207	8.8E-06	2.16E-05	-0.014392	-0.002967	0.004648
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3.71E-09	2.09E-08	7.66E-05	-0.000061	0.000144	0.008750
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1.2E-05	2.06E-05	6.56E-08	-0.003466	-0.004544	-0.000256
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Var	0.000422	0.000256	0.000192	0.000000	0.000000	0.000000	covar
riziko	0.020553	0.01601	0.01386	-0.000545	-0.000709	-0.000049	fce

fce 0.000422 0.000256 0.000192
0.020553 0.01601 0.01386

R(p) 0.000453
součin.skala 0.000453

Sigma(p) 0.012145

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Sigma(p) 0.011994

M_covar
Erste
KB
VIG

sigma_i
M_correl

sigma
0.020553 Erste
0.01601 KB
0.01386 VIG

Erste-KB	Erste-Vig	KB-VIG
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-0.0001833	6.12E-05	-0.00033911
-3E-05	6.23E-05	-6.6496E-05
-6.6205E-05	-5.2E-05	1.14388E-05
3.56097E-05	-6.3E-06	-5.9932E-06
-0.00048444	0.000314	-0.00028408
-6.4117E-05	-0.00014	7.27709E-05
4.60724E-05	-3.3E-05	-6.5858E-05
3.10424E-05	7.34E-05	1.95774E-05
9.48757E-06	-2.2E-05	-2.638E-05
-0.00021132	-0.00047	0.000379129
0.000519951	1.44E-05	7.35941E-06
0.00027593	0.00066	0.000281519
0.000358036	-3.5E-05	-0.00017741
0.001010619	0.00054	0.000616299
6.62458E-05	4.38E-05	0.000293003
1.9071E-05	0.000185	4.20561E-05
0.001062877	5.57E-05	0.0001801
5.97203E-05	-0.00041	-2.1466E-05
0.000281468	0.000205	6.4122E-05
0.000221811	0.001539	8.78602E-05
0.000306856	-0.00038	-0.00012617
4.69741E-05	-1.5E-05	-0.00015843
0.000385464	0.000136	0.000202187
4.9348E-05	-1.3E-05	-5.2516E-05
2.63302E-06	-0.0002	-7.2859E-06

0.000353772 0.000327 0.000488902
 -8.2673E-05 -5.1E-05 0.000255452
 4.61942E-05 0.000248 0.000210549
 -1.5952E-05 -4.2E-05 8.608E-05
 2.65316E-05 0.000809 1.53176E-05
 0.000103121 -0.0002 -0.00010046
 -6.0394E-05 -6.1E-05 9.66989E-05
 -4.3079E-05 -0.00013 3.22525E-05
 9.93822E-05 -0.00013 -9.0632E-05
 0.000364461 2.82E-05 1.38115E-05
 0.000603589 0.000279 0.000297742
 -0.00010522 5.39E-05 -1.6181E-05
 0.000383625 -0.00025 -0.00017741
 0.000125162 0.000103 2.97389E-05
 -8.2237E-05 -5.5E-05 2.26856E-05
 8.24973E-06 0.0003 9.22082E-06

7.2575E-05 0.000119 2.06317E-05
 7.2575E-05 0.000119 2.06317E-05

Erste	KB	VIG
0.000422	0.000073	0.000119
0.000073	0.000256	0.000021
0.000119	0.000021	0.000192

0.020553008 0.01601 0.013859909

Erste	KB	VIG
1	0.220558	0.416938396
0.220557746	1	0.092979131
0.416938396	0.092979	1

Datum	CETV	Orco	Pegas	PM	UNI	CETV	Orco
07.03.2014	78.15	41.50	611.00	10 925.00	142.50	0.012305699	0
06.03.2014	77.20	41.50	615.00	10 950.00	144.60	-0.022165928	-0.03263
05.03.2014	78.95	42.90	606.40	10 950.00	150.00	-0.05562201	0.008226
04.03.2014	83.60	42.55	606.00	10 890.00	147.00	0.006622517	0.010689
03.03.2014	83.05	42.10	604.00	10 930.00	143.55	-0.022941176	-0.01405
28.02.2014	85.00	42.70	611.50	10 880.00	140.00	0.615969582	-0.01839
27.02.2014	52.60	43.50	605.00	10 880.00	140.45	-0.048824593	-0.01361
26.02.2014	55.30	44.10	609.70	10 840.00	139.00	-0.0125	-0.01562
25.02.2014	56.00	44.80	606.10	10 776.00	140.00	0.00810081	0.029885
24.02.2014	55.55	43.50	604.50	10 770.00	138.00	-0.025438596	-0.02247
21.02.2014	57.00	44.50	604.00	10 800.00	146.15	-0.016393443	-0.01111
20.02.2014	57.95	45.00	607.00	10 800.00	147.20	-0.04214876	0.021566
19.02.2014	60.50	44.05	604.60	10 770.00	147.45	0	-0.02544
18.02.2014	60.50	45.20	609.00	10 800.00	148.45	0.018518519	-0.01632
17.02.2014	59.40	45.95	611.00	10 730.00	148.50	-0.018181818	-0.00863
14.02.2014	60.50	46.35	610.00	10 740.00	147.00	-0.016260163	-0.00962
13.02.2014	61.50	46.80	609.50	10 730.00	152.00	-0.008064516	-0.00952
12.02.2014	62.00	47.25	603.00	10 770.00	153.00	-0.028974158	0.011777
11.02.2014	63.85	46.70	611.00	10 790.00	153.00	0.039056143	0.003222
10.02.2014	61.45	46.55	607.90	10 740.00	153.00	0.025876461	0.011957
07.02.2014	59.90	46.00	601.00	10 770.00	153.00	0.007569386	-0.01075
06.02.2014	59.45	46.50	601.20	10 740.00	152.90	0.030329289	0
05.02.2014	57.70	46.50	602.00	10 740.00	152.90	-0.060260586	-0.01483
04.02.2014	61.40	47.20	605.00	10 790.00	152.00	0.031932773	-0.01871
03.02.2014	59.50	48.10	610.00	10 850.00	157.80	-0.006677796	0.017989
31.01.2014	59.90	47.25	600.00	10 899.00	153.40	-0.011551155	-0.01151
30.01.2014	60.60	47.80	600.20	10 850.00	158.30	0.03501281	-0.01646
29.01.2014	58.55	48.60	601.00	10 832.00	156.00	-0.011814346	-0.0041
28.01.2014	59.25	48.80	605.80	10 720.00	155.00	-0.003364172	-0.00408
27.01.2014	59.45	49.00	605.00	10 722.00	158.00	-0.03802589	-0.01705
24.01.2014	61.80	49.85	606.80	10 850.00	159.00	-0.03286385	-0.076
23.01.2014	63.90	53.95	602.20	10 900.00	161.50	-0.019186493	0.065153
22.01.2014	65.15	50.65	605.00	10 890.00	159.30	-0.006859756	-0.02031
21.01.2014	65.60	51.70	605.00	10 950.00	161.00	-0.004552352	0.030907
20.01.2014	65.90	50.15	610.80	10 889.00	158.80	0.003808073	-0.00693
17.01.2014	65.65	50.50	609.00	10 699.00	163.70	0.01233616	-0.01942
16.01.2014	64.85	51.50	610.00	10 560.00	165.25	-0.015933232	0.001946
15.01.2014	65.90	51.40	610.00	10 540.00	167.50	0.062046737	0.03006
14.01.2014	62.05	49.90	615.00	10 600.00	166.00	-0.022834646	0.010121
13.01.2014	63.50	49.40	612.00	10 600.00	168.50	-0.015503876	-0.02852
10.01.2014	64.50	50.85	615.00	10 600.00	167.95	-0.016768293	0.008929
09.01.2014	65.60	50.40	605.00	10 550.00	166.30	0.025801407	-0.00885
08.01.2014	63.95	50.85	602.60	10 560.00	168.45	-0.082496413	0.017
07.01.2014	69.70	50.00	598.00	10 600.00	169.20	-0.056833559	0.057082
06.01.2014	73.90	47.30	599.00	10 578.00	168.00	-0.021192053	0.005313
03.01.2014	75.50	47.05	598.00	10 600.00	168.15	0	-0.01155
02.01.2014	75.50	47.60	593.00	10 600.00	169.45	0.031420765	0.070866

30.12.2013	73.20	44.45	592.00	10 579.00	168.00	-0.010810811	0.017162
27.12.2013	74.00	43.70	592.80	10 600.00	169.90	0.114457831	-0.00456
23.12.2013	66.40	43.90	594.90	10 600.00	166.40	0.071832123	0.006881
20.12.2013	61.95	43.60	595.00	10 600.00	169.50	0.0316403	0.016317
19.12.2013	60.05	42.90	594.00	10 550.00	167.95	0.000833333	-0.01266
18.12.2013	60.00	43.45	591.00	10 600.00	167.00	-0.016393443	0.030842
17.12.2013	61.00	42.15	590.00	10 521.00	167.00	0.01582015	-0.01519
16.12.2013	60.05	42.80	589.00	10 550.00	167.30	0.01779661	0.05679
13.12.2013	59.00	40.50	591.80	10 520.00	167.50	0.114258735	-0.0146
12.12.2013	52.95	41.10	588.00	10 600.00	166.00	0.009532888	-0.06591
11.12.2013	52.45	44.00	592.00	10 650.00	168.00	0.004789272	0.010333
10.12.2013	52.20	43.55	591.00	10 510.00	169.00	0.003846154	-0.03757
09.12.2013	52.00	45.25	590.00	10 600.00	168.00	-0.015151515	-0.06508
06.12.2013	52.80	48.40	591.00	10 604.00	170.00		

E(ri)	0.009415419	-0.00218
var_fce	0.007482765	0.000752
Covar_M		
	CETV	Orco
CETV	0.007482765	-0.00014
Orco	-0.000144636	0.000752
Pegas	0.000100468	-5.4E-06
PM	-1.46206E-05	3.21E-05
UNI	5.25147E-05	0.00016

wi	a	0.25	0.05
	b	0.2	0.2
R(p)	a	0.00212091	
	b	0.001102338	
Sigma(p)	a	0.02221511	
	b	0.01887216	

Pegas	PM	UNI
-0.0065	-0.00228	-0.01452
0.014182	0	-0.036
0.00066	0.00551	0.020408
0.003311	-0.00366	0.024033
-0.01226	0.004596	0.025357
0.010744	0	-0.0032
-0.00771	0.00369	0.010432
0.00594	0.005939	-0.00714
0.002647	0.000557	0.014493
0.000828	-0.00278	-0.05576
-0.00494	0	-0.00713
0.00397	0.002786	-0.0017
-0.00722	-0.00278	-0.00674
-0.00327	0.006524	-0.00034
0.001639	-0.00093	0.010204
0.00082	0.000932	-0.03289
0.010779	-0.00371	-0.00654
-0.01309	-0.00185	0
0.0051	0.004655	0
0.011481	-0.00279	0
-0.00033	0.002793	0.000654
-0.00133	0	0
-0.00496	-0.00463	0.005921
-0.0082	-0.00553	-0.03676
0.016667	-0.0045	0.028683
-0.00033	0.004516	-0.03095
-0.00133	0.001662	0.014744
-0.00792	0.010448	0.006452
0.001322	-0.00019	-0.01899
-0.00297	-0.0118	-0.00629
0.007639	-0.00459	-0.01548
-0.00463	0.000918	0.01381
0	-0.00548	-0.01056
-0.0095	0.005602	0.013854
0.002956	0.017759	-0.02993
-0.00164	0.013163	-0.00938
0	0.001898	-0.01343
-0.00813	-0.00566	0.009036
0.004902	0	-0.01484
-0.00488	0	0.003275
0.016529	0.004739	0.009922
0.003983	-0.00095	-0.01276
0.007692	-0.00377	-0.00443
-0.00167	0.00208	0.007143
0.001672	-0.00208	-0.00089
0.008432	0	-0.00767
0.001689	0.001985	0.008631

-0.00135	-0.00198	-0.01118
-0.00353	0	0.021034
-0.00017	0	-0.01829
0.001684	0.004739	0.009229
0.005076	-0.00472	0.005689
0.001695	0.007509	0
0.001698	-0.00275	-0.00179
-0.00473	0.002852	-0.00119
0.006463	-0.00755	0.009036
-0.00676	-0.00469	-0.0119
0.001692	0.013321	-0.00592
0.001695	-0.00849	0.005952
-0.00169	-0.00038	-0.01176

0.000576	0.000511	-0.00281
4.15E-05	2.79E-05	0.000257

Pegas	PM	UNI
0.0001	-1.5E-05	5.25E-05
-5.4E-06	3.21E-05	0.00016
4.15E-05	-2.3E-06	-6.8E-06
-2.3E-06	2.79E-05	-9.6E-08
-6.8E-06	-9.6E-08	0.000257

0.25	0.3	0.15
0.2	0.2	0.2

Trh	CP	r_i	riziko	korelace _{A,B}
I	A	0.22	0.3	0.15
	B	0.31	0.32	
II	A	0.26	0.29	-0.06
	B	0.34	0.33	
III	A	0.18	0.2	0.09
	B	0.41	0.38	

R(p)
Sigma(p)
Sharpe_ratio

I

Covar_M

	0.09	0.0144
	0.0144	0.1024

Matice soustavy

	0.18	0.0288	1
	0.0288	0.2048	1
	1	1	0

VPS

	0
	0
	1

Inverzni matice

	3.056234719	-3.05623	0.537897
	-3.05623472	3.056235	0.462103
	0.537897311	0.462103	-0.11013

wi

w1	0.537897	0.537897
w2	0.462103	0.462103
lambda1	-0.11013	-0.11013

II

Covar_M

	0.0841	-0.00574
	-0.005742	0.1089

Matice soustavy

	0.1682	-0.01148	1
	-0.011484	0.2178	1
	1	1	0

VPS

	0
	0
	1

Inverzni matice

	2.445179085	-2.44518	0.56064
	-2.44517908	2.445179	0.43936
	0.560640441	0.43936	-0.08925

wi

w1	0.56064	0.56064
w2	0.43936	0.43936
lambda1	-0.08925	-0.08925

III

Covar_M

	0.04	0.00684
	0.00684	0.1444

Matice soustavy

0.08	0.01368	1
0.01368	0.2888	1
1	1	0

VPS

0
0
1

Inverzni matice

2.928772259	-2.92877	0.805764
-2.92877226	2.928772	0.194236
0.805763824	0.194236	-0.06712

wi

w1	0.805764	0.805764
w2	0.194236	0.194236
lambda1	-0.06712	-0.06712

I	II	III
0.261589	0.295149	0.224674
0.234659	0.211251	0.183192
1.114761	1.397146	1.226445
0.897053	0.715745	0.815365

Zkouska

1.00	0.00	0.00
0.00	1.00	0.00
0.00	0.00	1.00

R(p) 0.261589
Sigma(p) 0.234659

Zkouska

1.00	0.00	0.00
0.00	1.00	0.00
0.00	0.00	1.00

R(p) 0.295149
Sigma(p) 0.211251

Zkouska

1.00	0.00	0.00
0.00	1.00	0.00
0.00	0.00	1.00

R(p) 0.224674

Sigma(p) 0.183192

	Firma 1	Firma 2	Firma 3		Kovariance	
μ	0.8	0.3	0.6		$\sigma_{1,2}$	-0.1
σ	1.2	0.8	1.1		$\sigma_{1,3}$	-0.5
					$\sigma_{2,3}$	0.3

C_M

1.44	-0.1	-0.5
-0.1	0.64	0.3
-0.5	0.3	1.21

Mat_soustavy

2.88	-0.2	-1	1	0.8
-0.2	1.28	0.6	1	0.3
-1	0.6	2.42	1	0.6
1	1	1	0	0
0.8	0.3	0.6	0	0

Inv_M

0.219576	-0.23012	0.01054	0.332139
-0.23012	0.641161	-0.41105	0.379918
0.01054	-0.41105	0.400506	0.287943
0.332139	0.379918	0.287943	-0.59263

wi

w1	0.332139
w2	0.379918
w3	0.287943
lambda1	-0.59263

R(p) 0.55245222
Sigma(p) 0.544349842

zk 1

Inverzní_M

0.084002	0.056001	-0.14	-0.33097	1.200299
0.056001	0.037334	-0.09334	1.779354	-2.53313
-0.14	-0.09334	0.23334	-0.44839	1.332836
-0.33097	1.779354	-0.44839	-3.83598	5.870823
1.200299	-2.53313	1.332836	5.870823	-10.6268

wi

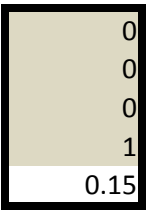
w1	-0.15092
w2	1.399384
w3	-0.24846
lambda1	-2.95536
lambda2	4.276797

R(p) 0.15
Sigma(p) 1.075602119

zk 1

0.332138842 0.379918494 0.287942664

VPS



zk

1.00	0.00	0.00	0.00
0.00	1.00	0.00	0.00
0.00	0.00	1.00	0.00
0.00	0.00	0.00	1.00

-0.150924025 1.399383984 -0.248459959

zk

1.00	0.00	0.00	0.00	0.00
0.00	1.00	0.00	0.00	0.00
0.00	0.00	1.00	0.00	0.00
0.00	0.00	0.00	1.00	0.00
0.00	0.00	0.00	0.00	1.00

Emise	CP ₁	CP ₂	CP ₃	CP ₄	CP ₅	CP ₆	CP ₇
CP ₁	80.5	82.7	85.3	85.1	123.9	22	3.5
CP ₂	82.7	184.7	131.5	69.4	49.5	58	-9.9
CP ₃	85.3	131.5	374.2	384.5	366.5	103.8	343.5
CP ₄	85.1	69.4	384.5	684.8	599.1	51.6	502.7
CP ₅	123.9	49.5	366.5	599.1	871.4	-21.2	520.4
CP ₆	22	58	103.8	51.6	-21.2	89.7	74.4
CP ₇	3.5	-9.9	343.5	502.7	520.4	74.4	574.6

Matice soustavy

161	165.4	170.6	170.2	247.8	44
165.4	369.4	263	138.8	99	116
170.6	263	748.4	769	733	207.6
170.2	138.8	769	1369.6	1198.2	103.2
247.8	99	733	1198.2	1742.8	-42.4
44	116	207.6	103.2	-42.4	179.4
7	-19.8	687	1005.4	1040.8	148.8
1	1	1	1	1	1
1.9	6.1	2.9	4	5.7	3.4

Inverzni matice

0.077542	-0.006186729	0.008788	-0.00971	-0.03769	-0.07775
-0.00619	0.007803096	-0.00362	0.000167	0.001056	-0.00048
0.008788	-0.003616667	0.007544	-0.00229	-0.00426	-0.00879
-0.00971	0.000167497	-0.00229	0.004278	0.004072	0.01066
-0.03769	0.001056212	-0.00426	0.004072	0.02058	0.040175
-0.07775	-0.000477668	-0.00879	0.01066	0.040175	0.086382
0.045002	0.001254258	0.002623	-0.00718	-0.02394	-0.0502
2.1372	0.04443472	-0.29067	-0.23027	-0.77333	-1.1224

wi

w1	2.137199771
w2	0.04443472
w3	-0.290668798
w4	-0.230272848
w5	-0.773325871
w6	-1.12240341
w7	1.235036437
lambda1	-30.28748412

R(p)

Sigma(p)

zk

1

Inverzni_M

0.016039	0.007660609	-0.00407	-0.00315	-0.00914	-0.02351
0.007661	0.00468536	-0.00072	-0.00131	-0.00537	-0.01269
-0.00407	-0.000721958	0.004856	-0.00092	0.001708	0.002544

-0.00315	-0.001309155	-0.00092	0.003579	0.001028	0.004877
-0.00914	-0.00537105	0.001708	0.001028	0.00733	0.015
-0.02351	-0.012689387	0.002544	0.004877	0.015	0.038551
0.016171	0.007745581	-0.0034	-0.00411	-0.01055	-0.02477
2.286871	0.010736227	-0.25938	-0.24623	-0.8428	-1.2544
-0.37867	0.085258694	-0.07916	0.040381	0.175762	0.333946

wi	
w1	0.393500391
w2	0.437029695
w3	-0.655179483
w4	-0.044328174
w5	0.036014728
w6	0.415333712
w7	0.417629131
lambda1	-26.04406632
lambda2	-10.73603689
zk	1

R(p)

Sigma(p)

r_i (v %)
1.9
6.1
2.9
4
5.7
3.4
4.9

7	1	1.9
-19.8	1	6.1
687	1	2.9
1005.4	1	4
1040.8	1	5.7
148.8	1	3.4
1149.2	1	4.9
1	0	0
4.9	0	0

VPS

0
0
0
0
0
0
0
1
5

zk

0.045002	2.1372	1.00	0.00	0.00	0.00
0.001254	0.044435	0.00	1.00	0.00	0.00
0.002623	-0.29067	0.00	0.00	1.00	0.00
-0.00718	-0.23027	0.00	0.00	0.00	1.00
-0.02394	-0.77333	0.00	0.00	0.00	0.00
-0.0502	-1.1224	0.00	0.00	0.00	0.00
0.032436	1.235036	0.00	0.00	0.00	0.00
1.235036	-30.2875	0.00	0.00	0.00	0.00

0.39525

3.891496

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	2.137199771	0.04443472	-0.290668798
2.1372	367.6936402	7.85367765	-52.98983461
0.044435	7.85367765	0.364679863	-1.698425925
-0.29067	-52.98983461	-1.698425925	31.61554051
-0.23027	-41.8810356	-0.710108395	25.73578923
-0.77333	-204.7759573	-1.700944652	82.38249347
-1.1224	-52.77360681	-2.892673482	33.86450601
1.235036	9.238318563	-0.543297127	-123.311882

součet-Matice 15.14374206

0.016171	2.286871	-0.37867
0.007746	0.010736	0.085259
-0.0034	-0.25938	-0.07916

-0.00411	-0.24623	0.040381
-0.01055	-0.8428	0.175762
-0.02477	-1.2544	0.333946
0.01892	1.305199	-0.17751
1.305199	-30.6517	0.921531
-0.17751	0.921531	-2.33151

5

6.313646

0.393500391 0.437029695 -0.655179483

0.3935	12.46482586	14.22203112	-21.99148151
0.43703	14.22203112	35.27676809	-37.65277498
-0.65518	-21.99148151	-37.65277498	160.6291498
-0.04433	-1.484412384	-1.344467347	11.16699892
0.036015	1.755887217	0.779105534	-8.647974707
0.415334	3.595547509	10.52776359	-28.24586151
0.417629	0.575180292	-1.806911685	-93.98917008

39.86212538

0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00
0.00	1.00	0.00	0.00
0.00	0.00	1.00	0.00
0.00	0.00	0.00	1.00

-0.230272848	-0.773325871	-1.12240341	1.235036437
-41.8810356	-204.7759573	-52.77360681	9.238318563
-0.710108395	-1.700944652	-2.892673482	-0.543297127
25.73578923	82.38249347	33.86450601	-123.311882
36.31192041	106.6853023	13.33648596	-142.9655466
106.6853023	521.1258721	-18.40125221	-497.0265612
13.33648596	-18.40125221	113.0031104	-103.1339576
-142.9655466	-497.0265612	-103.1339576	876.4459992

-0.044328174	0.036014728	0.415333712	0.417629131
-1.484412384	1.755887217	3.595547509	0.575180292
-1.344467347	0.779105534	10.52776359	-1.806911685
11.16699892	-8.647974707	-28.24586151	-93.98917008
1.3456231	-0.956443464	-0.950006826	-9.306352769
-0.956443464	1.130258656	-0.317112373	7.827232162
-0.950006826	-0.317112373	15.47343764	12.90508601
-9.306352769	7.827232162	12.90508601	100.2183368

Riziková portfolia	A	B	C	D
\bar{r}_p	6.20%	4%	7.50%	8.40%
σ_p	14.50%	9.70%	17%	20%

0.035

	1.	2.	3.	4.	5.
\bar{r}_p	0.2	0.4	0.5	0.6	0.8
Portfolio	0.8	0.6	0.5	0.4	0.2

Portfolio:

R(p)	1.	2.	3.	4.	5.
A	0.0566	0.0512	0.0485	0.0458	0.0404
B	0.039	0.038	0.0375	0.037	0.036
C	0.067	0.059	0.055	0.051	0.043
D	0.0742	0.0644	0.0595	0.0546	0.0448

Sigma(p)	1.	2.	3.	4.	5.
A	0.116	0.087	0.0725	0.058	0.029
B	0.0776	0.0582	0.0485	0.0388	0.0194
C	0.136	0.102	0.085	0.068	0.034
D	0.16	0.12	0.1	0.08	0.04