## Socio-technical analysis result ( Krita )

	range.date		devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio.sponsored	sponsored.core.dev	ratio.sponsored.cor	num.tz	core.global.devs	core.mail.devs	3	org.suo prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover	code.turnover
1	2013-0			13	19		0.3611	0.5278	0.1111	2	0.0556	0	0.0000	1	14	9	3 2	3 0	2	0	24	0.1111	0.6329	0.0000	0.0000
2		09 - 2013		8	20			0.6061	0.1515	4	0.1212	0	0.0000	1	13	7	3 2	6 0	0	0	26	0.1333	0.6507	0.4058	0.2917
3		12 - 2014		19	29			0.5577	0.0769	12	0.2308	3	0.0909	1		10	_	-	4	0	26	0.1034	0.6520	0.2353	0.1724
4		03 - 2014		11	23		0.2750	0.5750	0.1500	6	0.1500	2	0.0690	1	13	8	3	2  0	0	0	34	0.1282	0.6676	0.6522	0.6129
5		05 - 2014		8	23		0.2286	0.6571	0.1143	3	0.0857	1	0.0370	1	10	6	2	7 0	0	0	28	0.0968	0.7097	0.5600	0.4643
$\epsilon$		08 - 2014		9	21			0.5833	0.1667	5	0.1389	0	0.0000	1	10	7	2	7 0	8	0	31	0.1622	0.6837	0.4789	0.4074
7		11 - 2015		11	19	-		0.4750	0.2500	2	0.0500	0	0.0000	1		11  1	_		3	0	47	0.2034	0.6663	0.4737	0.3929
8		02 - 2015		23	21			0.4118	0.1373	2	0.0392	0	0.0000	1	16	13	_	-	9	0	23	0.2333	0.7738	0.3077	0.2456
S		05 - 2015		7	26			0.6341	0.1951	2	0.0488	0	0.0000	1	13	7	3		4	0	41	0.1277	0.7353	0.5217	0.1290
10		08 - 2015		12	13			0.3714	0.2857	2	0.0571	0	0.0000	1		11	_	-	5	0	31	0.2439	0.6341	0.6053	0.6667
11		11 - 2016		11	13		0.3793	0.4483	0.1724	2	0.0690	0	0.0000	1	11	8	5 1	-	0	0	13	0.3158	0.7456	0.5625	0.4878
12		02 - 2016	-05 36	15	15	6	0.4167	0.4167	0.1667	2	0.0556	0	0.0000	1	12	9	3	0 0	6	0	31	0.1389	0.6349	0.4000	0.2564
	core.global.turnover	.mail.turnover	core.code.turnover		ratio.smelly.quitters	smelly.devs	· <del>- </del>	<b>;</b>		¥	.centr	sa centr									core.devs	core.devs	e.devs	only.core only.core	de.core
	core.glc	core.ma			ratio.sme	ratio	ylobal triick			code.truck	closeness	botwoonnoss			global.mod		mail.mod	code.mod		density	mail.only.cc	code.only.co		ratio.code.only.core	ratio.ml.code.core
1	0.0000	0.0000 eore	0.0000	0.00	000	0.5000 ratio	0.6111	0.470	6 0.652	22	closeness	0.3270	0.4778		[reqolg] .1249	0.03	$\frac{83}{12}$	0.1024		1222		code.only.	3 0.428	6 0.3571	0.2143
$\frac{1}{2}$	$0.0000 \\ 0.3704$	0.0000 0.3750	$0.0000 \\ 0.3750$	0.50	000	0.5000 0.4242	0.6111 0.6061	0.470 0.461	0.652 5 0.680	22 (	Closeness 0.0595 0.0471	0.3270 $0.2802$	0.4778 2 0.5189	0.	[reqola] .1249 .0105	0.26	iiem	0.1024 0.0094	0.	1222 1061	squoilem 6 4	code.only.	3 0.428 3 0.333	6 0.3571 3 0.4167	0.2143 0.2500
$\begin{array}{c} 1\\2\\3\end{array}$	0.0000 0.3704 0.4000	0.0000 0.3750 0.3529	0.0000 0.3750 0.4706	0.50	000	0.5000 0.4242 0.4423	0.6111 0.6061 0.6731	0.470 0.461 0.565	$ \begin{array}{ccc} 0.652 \\ 0.680 \\ 0.727 \end{array} $	22 (20) 00 (73)	0.0595 0.0471 0.0304	$0.3270 \\ 0.2802 \\ 0.4277$	0 0.4778 2 0.5189 7 0.5588	0.	.1249 .0105 .0225	$0.26 \\ 0.21$	;;e <u>u</u> 33 72 24	0.1024 $0.0094$ $0.0040$	0. 0.	1222 1061 0490	9 mail.only.	code.only.	3 0.428 3 0.333 2 0.470	66 0.3571 63 0.4167 66 0.4118	0.2143 0.2500 0.1176
_	0.0000 0.3704 0.4000 0.4667	0.0000 0.3750 0.3529 0.5556	0.0000 0.3750 0.4706 0.3529	0.50 $0.00$ $0.33$	000 000 000 000 333	0.5000 0.4242 0.4423 0.4750	0.6111 0.6061 0.6731 0.6750	0.470 0.461 0.565 0.529	$     \begin{array}{r}       06 & 0.652 \\       5 & 0.680 \\       2 & 0.727 \\       04 & 0.724     \end{array} $	22 ( 00 ( 73 ( 11 (	0.0595 0.0471 0.0304 0.0448	0.3270 $0.2802$ $0.4277$ $0.4020$	0.4778 0.5189 0.5588 0.5769	0.0	.1249 .0105 .0225 .1567	0.26 $0.21$ $0.34$	;iem	0.1024 0.0094 0.0040 0.1825	0. 0. 0.	1222 1061 0490 0897	. 6 4 8 5 6 mail.only.	code.only.	3 0.428 3 0.333 2 0.470 3 0.384	66 0.3571 63 0.4167 66 0.4118 66 0.3846	0.2143 0.2500 0.1176 0.2308
3	0.0000 0.3704 0.4000 0.4667 0.6087	0.0000 0.3750 0.3529 0.5556 0.8571	0.0000 0.3750 0.4706 0.3529 0.2667	0.50 $0.00$ $0.33$ $0.28$	000 000 000 333 357	0.5000 0.4242 0.4423 0.4750 0.4286	0.6111 0.6061 0.6731 0.6750 0.7143	0.470 0.461 0.565 0.529 0.500	0.652 5 0.680 62 0.727 04 0.724 00 0.740	22 (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	0.0595 0.0471 0.0304 0.0448 0.0336	0.3270 0.2802 0.4277 0.4020 0.1652	0.4778 0.5189 0.5588 0.5769 0.3429	0. 0. 0.	[reqola] .1249 .0105 .0225 .1567 .3516	0.26 $0.21$ $0.34$ $0.12$		0.1024 0.0094 0.0040 0.1825 0.3531	0. 0. 0.	1222 1061 0490 0897 0689	squoilem 6 4	Signal Si	3 0.428 3 0.333 2 0.470 3 0.384 3 0.300	66 0.3571 63 0.4167 66 0.4118 66 0.3846 60 0.4000	0.2143 0.2500 0.1176 0.2308 0.3000
3	0.0000 0.3704 0.4000 0.4667 0.6087 0.4000	0.0000 0.3750 0.3529 0.5556 0.8571 0.4615	0.0000 0.3750 0.4706 0.3529 0.2667 0.4286	0.50 0.00 0.33 0.28 0.35	000 000 000 333 357 529	0.5000 0.4242 0.4423 0.4750 0.4286 0.6389	0.6111 0.6061 0.6731 0.6750 0.7144 0.7222	0.470 0.461 0.565 0.529 0.500 0.533	0.652 5 0.680 2 0.727 4 0.724 0 0.740 3 0.740	22 0 00 0 73 0 11 0 07 0	0.0595 0.0471 0.0304 0.0448 0.0336 0.0418	0.3270 0.2802 0.4277 0.4020 0.1652 0.2421	0.4778 0.5189 7 0.5588 0 0.5769 2 0.3429 0.4048	0, 0, 0, 0, 0,	.1249 .0105 .0225 .1567 .3516 .1369	0.26 $0.21$ $0.34$ $0.12$ $0.12$	Figure 33 Figure 32 Figure 32 Figure 32 Figure 33 Figure 32 Figure	0.1024 0.0094 0.0040 0.1825 0.3531 0.1364	0. 0. 0. 0.	1222 1061 0490 0897 0689 0810	. 6 4 8 5 6 mail.only.	code.only.	3 0.428 3 0.333 2 0.470 3 0.384 3 0.300 4 0.300	66 0.3571 63 0.4167 66 0.4118 66 0.3846 60 0.4000 60 0.3000	0.2143 0.2500 0.1176 0.2308 0.3000 0.4000
3 4 5 6 7	0.0000 0.3704 0.4000 0.4667 0.6087 0.4000 0.2222	0.0000 0.3750 0.3529 0.5556 0.8571 0.4615 0.2222	0.0000 0.3750 0.4706 0.3529 0.2667 0.4286 0.2105	0.50 0.00 0.33 0.28 0.35 0.55	000 000 000 833 857 629	0.5000 0.4242 0.4423 0.4750 0.4286 0.6389 0.6500	0.6111 0.6061 0.6731 0.6750 0.7144 0.7222 0.5750	0.470 1 0.461 1 0.565 0 0.529 3 0.500 2 0.533 0 0.476	6 0.652 5 0.680 2 0.727 4 0.724 0 0.740 3 0.740 2 0.586	22 (00 (73 (141 (141 (141 (141 (141 (141 (141 (14	0.0595 0.0471 0.0304 0.0448 0.0336 0.0418 0.0845	0.3270 0.2802 0.4277 0.4020 0.1652 0.2421 0.5181	0.4778 2 0.5189 7 0.5588 0 0.5769 2 0.3429 1 0.4048 0.6564	0. 0. 0. 0. 0. 0.	.1249 .0105 .0225 .1567 .3516 .1369 .1237	0.26 0.21 0.34 0.12 0.12 0.25	Figur	0.1024 0.0094 0.0040 0.1825 0.3531 0.1364 0.1247	0. 0. 0. 0. 0.	1222 1061 0490 0897 0689 0810 1128	Sinonical 6 4 8 5 3 3 4	Store the store of	3 0.428 3 0.333 2 0.470 3 0.384 3 0.300 4 0.300 7 0.250	66 0.3571 63 0.4167 66 0.4118 66 0.3846 60 0.4000 60 0.3000 60 0.3125	0.2143 0.2500 0.1176 0.2308 0.3000 0.4000 0.4375
3	0.0000 0.3704 0.4000 0.4667 0.6087 0.4000 0.2222 0.5455	0.0000 0.3750 0.3529 0.5556 0.8571 0.4615 0.2222 0.6667	0.0000 0.3750 0.4706 0.3529 0.2667 0.4286 0.2105 0.5000	0.50 0.00 0.33 0.28 0.35 0.55	000 000 000 333 857 529 556	0.5000 0.4242 0.4423 0.4750 0.4286 0.6389 0.6500 0.4706	0.6111 0.6061 0.6731 0.6750 0.7143 0.7222 0.5750 0.6863	0.470 0.461 0.565 0.529 0.500 0.533 0.476 0.566	0.652 5 0.680 2 0.727 4 0.724 0 0.740 3 0.740 2 0.586 7 0.714	22 (00 (73 (141 (141 (141 (141 (141 (141 (141 (14	0.0595 0.0471 0.0304 0.0448 0.0336 0.0418 0.0845 0.0389	0.3270 0.2802 0.4277 0.4020 0.1652 0.2421 0.5181 0.2824	0.4778 0.5189 7 0.5588 0 0.5769 2 0.3429 0.4048 0.6564 4 0.4659	0. 0. 0. 0. 0. 0. 0.	.1249 .0105 .0225 .1567 .3516 .1369 .1237 .0143	0.26 0.21 0.34 0.12 0.12 0.25 0.19	Figur 33 72 24 27 34 38 30 39	0.1024 0.0094 0.0040 0.1825 0.3531 0.1364 0.1247 0.0036	0. 0. 0. 0. 0. 0.	1222 1061 0490 0897 0689 0810 1128	. 6 4 8 5 6 mail.only.	5 5 7 5 4 3	3 0.428 3 0.333 2 0.470 3 0.384 3 0.300 4 0.300 7 0.250 3 0.555	66 0.3571 63 0.4167 66 0.4118 66 0.3846 60 0.4000 60 0.3000 60 0.3125 66 0.2778	0.2143 0.2500 0.1176 0.2308 0.3000 0.4000 0.4375 0.1667
3 4 5 6 7	0.0000 0.3704 0.4000 0.4667 0.6087 0.4000 0.2222 0.5455 0.7586	0.0000 0.3750 0.3529 0.5556 0.8571 0.4615 0.2222 0.6667 1.1000	0.0000 0.3750 0.4706 0.3529 0.2667 0.4286 0.2105 0.5000	0.50 0.00 0.33 0.28 0.35 0.55 0.50	000 000 000 333 357 529 556 000	0.5000 0.4242 0.4423 0.4750 0.4286 0.6389 0.6500 0.4706 0.4146	0.6111 0.6061 0.6731 0.6750 0.7143 0.7222 0.5750 0.6863 0.6828	0.470 0.461 0.565 0.529 0.500 0.533 0.566 0.533	0.652 5 0.680 2 0.727 4 0.724 0 0.740 3 0.740 12 0.586 17 0.714 3 0.764	22 (00 (00 (00 (00 (00 (00 (00 (00 (00 (	0.0595 0.0471 0.0304 0.0448 0.0336 0.0418 0.0845 0.0389 0.0282	0.3270 0.2802 0.4277 0.4020 0.1652 0.2421 0.5181 0.2824 0.2039	0.4778 0.5189 0.5588 0.5769 0.3429 0.4048 0.6564 0.4659 0.4159	0; 0; 0; 0; 0; 0; 0; 0; 0;	.1249 .0105 .0225 .1567 .3516 .1369 .1237 .0143	0.26 0.21 0.34 0.12 0.12 0.25 0.19 0.08	Firem 33 72 24 97 64 68 60 69	0.1024 0.0094 0.0040 0.1825 0.3531 0.1364 0.1247 0.0036 0.0196	0. 0. 0. 0. 0. 0.	1222 1061 0490 0897 0689 0810 1128 0941 0841	Sinonical 6 4 8 5 3 3 4	S to deconfy to deconfine the deconfine the deconfine to deconfine the deconfine	3 0.428 3 0.333 2 0.470 3 0.384 3 0.300 4 0.300 7 0.250 3 0.555 2 0.384	66 0.3571 63 0.4167 66 0.4118 66 0.3846 60 0.4000 60 0.3000 60 0.3125 66 0.2778 66 0.4615	0.2143 0.2500 0.1176 0.2308 0.3000 0.4000 0.4375 0.1667 0.1538
3 4 5 6 7 8 9	0.0000 0.3704 0.4000 0.4667 0.6087 0.4000 0.2222 0.5455 0.7586 0.3704	0.0000 0.3750 0.3529 0.5556 0.8571 0.4615 0.2222 0.6667 1.1000 0.4444	0.0000 0.3750 0.4706 0.3529 0.2667 0.4286 0.2105 0.5000 0.5000 0.3750	0.50 0.00 0.33 0.28 0.35 0.55 0.50 0.29	000 000 000 333 857 529 556 000 017	0.5000 0.4242 0.4423 0.4750 0.4286 0.6389 0.6500 0.4706 0.4146 0.6000	0.6111 0.6061 0.6731 0.6750 0.7144 0.7222 0.5750 0.6863 0.6829	0.470 1 0.461 1 0.565 0 0.529 3 0.500 2 0.533 0 0.476 3 0.566 9 0.533 0 0.500	6 0.652 5 0.680 2 0.727 4 0.724 0 0.740 3 0.740 2 0.586 7 0.714 3 0.764 0 0.652	22 (00 (073 (073 (073 (073 (073 (073 (073	0.0595 0.0471 0.0304 0.0448 0.0336 0.0418 0.0845 0.0389 0.0282 0.0556	0.3270 0.2802 0.4277 0.4020 0.1652 0.2421 0.5181 0.2824 0.2039 0.4148	0.4778 0.5189 7 0.5588 0 0.5769 2 0.3429 1 0.4048 1 0.6564 4 0.4659 0 0.4159 8 0.5429	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.1249 .0105 .0225 .1567 .3516 .1369 .1237 .0143 .0413	0.26 0.21 0.34 0.12 0.12 0.25 0.19 0.08 0.21	Figure 33 72 24 54 57 54 58 59 19	0.1024 0.0094 0.0040 0.1825 0.3531 0.1364 0.1247 0.0036 0.0196 -0.3120	0. 0. 0. 0. 0. 0. 0.	1222 1061 0490 0897 0689 0810 1128 0941 0841 1042	Sinonical 6 4 8 5 3 3 4	Store the store of	3 0.428 3 0.333 2 0.470 3 0.384 3 0.300 4 0.300 7 0.250 3 0.555 2 0.384 5 0.428	66 0.3571 63 0.4167 66 0.4118 66 0.3846 60 0.4000 60 0.3000 60 0.3125 66 0.2778 66 0.4615 66 0.2143	0.2143 0.2500 0.1176 0.2308 0.3000 0.4000 0.4375 0.1667 0.1538 0.3571
3 4 5 6 7 8 9	0.0000 0.3704 0.4000 0.4667 0.6087 0.4000 0.2222 0.5455 0.7586	0.0000 0.3750 0.3529 0.5556 0.8571 0.4615 0.2222 0.6667 1.1000	0.0000 0.3750 0.4706 0.3529 0.2667 0.4286 0.2105 0.5000	0.50 0.00 0.33 0.28 0.35 0.55 0.50	000 000 000 333 857 529 556 000 017	0.5000 0.4242 0.4423 0.4750 0.4286 0.6389 0.6500 0.4706 0.4146	0.6111 0.6061 0.6731 0.6750 0.7143 0.7222 0.5750 0.6863 0.6829 0.6000 0.6200	0.470 1 0.461 1 0.565 0 0.529 3 0.500 2 0.533 0 0.476 3 0.566 0 0.533 0 0.500 7 0.500	0.652 5 0.680 2 0.727 4 0.724 0 0.740 3 0.740 2 0.586 7 0.714 3 0.764 0 0.652 0 0.666	22 (00 (073 (11) (11) (11) (11) (11) (11) (11) (11	0.0595 0.0471 0.0304 0.0448 0.0336 0.0418 0.0845 0.0389 0.0282 0.0556 0.0535	0.3270 0.2802 0.4277 0.4020 0.1652 0.2421 0.5181 0.2824 0.2039	0.4778 0.5189 0.5588 0.5769 0.3429 0.4048 0.6564 0.4659 0.4159 0.5086	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.1249 .0105 .0225 .1567 .3516 .1369 .1237 .0143	0.26 0.21 0.34 0.12 0.12 0.25 0.19 0.08	Figure 33 72 24 97 34 38 39 39 34	0.1024 0.0094 0.0040 0.1825 0.3531 0.1364 0.1247 0.0036 0.0196	0. 0. 0. 0. 0. 0. 0.	1222 1061 0490 0897 0689 0810 1128 0941 0841	in Since Sin	S to deconfy to deconfine the deconfine the deconfine to deconfine the deconfine	3 0.428 3 0.333 2 0.470 3 0.384 3 0.300 4 0.300 7 0.250 3 0.555 2 0.384	66 0.3571 63 0.4167 66 0.4118 66 0.3846 60 0.4000 60 0.3000 60 0.3125 66 0.2778 66 0.2143 60 0.3333	0.2143 0.2500 0.1176 0.2308 0.3000 0.4000 0.4375 0.1667 0.1538 0.3571 0.1667

## Community smells: Pearson's correlation (Krita) perc.code.only.devs perc.ml.code.devs perc.ml.only.devs core.global.devs sponsored.devs core.mail.devs core.code.devs ml.code.devs ml.only.devs ${\rm org. silo}$ org.silo 0.21 0.44 0.32 0.39 0.09 0.07 0.15 0.23 0.66 -0.02 0.91 -0.28 0.02 -0.240.16prima.donnas -0.47radio.silence 0.490.540.000.360.38 -0.430.15-0.04-0.15-0.24-0.280.22 0.530.040.160.15-0.33black.cloud -0.540.19 0.49-0.32 -0.23 -0.120.27missing.links 0.18-0.320.270.65-0.08-0.04-0.030.030.690.910.13 0.18-0.08core.global.turnover igg|ratio.smelly.quitters ratio.smelly.devs global.truck org.silo -0.23 -0.15 -0.60 0.38 0.03 -0.01 -0.05 0.18 0.18 0.27 0.28 -0.02 0.36 0.26 0.29

prima.donnas radio.silence

black.cloud

missing.links

-0.07

-0.22

-0.08

-0.12

0.08

-0.52

-0.19

-0.02

0.44

0.56

0.33

-0.07

0.63

-0.03

0.13

-0.11

-0.15

0.26

-0.05

0.25

-0.35

0.13

-0.07

0.28

-0.35

0.01

-0.34

0.06

0.07

0.40

-0.40

-0.21

0.12

0.22

0.61

0.27

-0.65

-0.56

0.08

0.17

0.51

				Con	nmu	nity	sme	lls: 1	Pear	son's	s cor	rela	atio	n - p	-val	ues	( K	Krita	)					
	devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover	code.turnover
org.silo	0.52	0.35	0.15	0.31	0.07	0.21	0.63	0.78	0.83	0.68	0.65	-	0.47	0.68	0.02	-	-	0.95	-	0.00	0.06	0.37	0.96	0.47
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.11	0.07	1.00	0.25	0.22	0.16	0.65	0.90	0.64	0.45	0.38	-	0.50	0.07	0.90	0.95	-	-	-	0.68	0.62	0.63	0.14	0.32
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.58	0.31	0.39	0.02	0.07	0.56	0.11	0.81	0.71	0.91	0.94	-	0.39	0.92	0.01	0.00	-	0.68	-	-	0.32	0.47	0.60	0.81
		core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	betweenness.centr	degree centr	. Lodolo				density	mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core	_
	g.silo	0.50	0.65	0.05	0.86	0.22	0.92	0.98	0.89	0.58	0.57	0.39	9 0.3	7 0.9	5   0.2	25 O.	95	0.13	0.42	0.14	0.01	0.37	0.19	
prima.de	onnas	-	-	-	-	-	-	-	-	-	-		_	-	-	-	-	-	-	-	-	-	-	

 $missing.links \quad 0.51 \quad 0.72 \quad 0.10 \quad 0.96 \quad 0.06 \quad 0.83 \quad 0.92 \quad 0.72 \quad 0.41 \quad 0.44 \quad 0.39 \quad 0.68 \quad 0.99 \quad 0.84 \quad 0.83 \quad 0.20 \quad 0.72 \quad 0.04 \quad 0.02 \quad 0.82 \quad 0.09$ 

black.cloud

					$\mathbf{C}$	omm	unit	y sm	ells:	Spea	arma	n's	corre	elatio	on (	Kri	ta)							
	devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover	code.turnover
org.silo	0.38	-0.42	0.41	0.29	-0.53	0.47	0.19	0.17	-0.04	0.18	0.18	-	-0.04	-0.27	0.28	-		-0.04	-	0.87	-0.38	-0.01	0.04	-0.23
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-
radio.silence	0.48	0.48	-0.02	0.48	0.38	-0.46	0.16	-0.23	-0.38	-0.35	-0.35	-	0.22	0.49	0.07	-0.04	ł -	-	-	0.10	0.31	0.03	-0.47	-0.37
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.28	-0.39	0.19	0.61	-0.53	0.23	0.52	0.04	-0.07	0.04	0.04	-	0.04	-0.09	0.32	0.87		0.10	-		-0.10	-0.13	0.29	0.03
		core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	betweenness.centr	degree.centr			mall.mod	code.mod	density	mail.only.core.devs	code.only.core.devs	ml.co		ratio.code.only.core	ratio.ml.co	_
OI	g.silo	-0.03	-0.05	-0.56	0.00	0.20	0.12	0.11	0.25	-0.18	-0.04	0.25	0.4'	7 -0.0	1 0.	.55 -0	0.06	-0.61	0.21	0.24	-0.75	0.28	0.31	
prima.de		-	-	-	-	-	-	-	-	-	-	-		_	-	-	-	-	-	-	-	-	-	
radio.s		-0.11	-0.03	0.13	-0.20	0.41	0.26	0.69	0.06	-0.21	0.00	-0.06	-0.3	1 -0.4	1 -0.	.41 -(	0.06	0.28	-0.21	0.34	0.24	-0.59	0.12	
black.	cloud	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	

0.13

0.32

0.25

0.11

0.34 -0.01 -0.52 -0.00 0.47 -0.69

 $0.02 \quad 0.48$ 

missing.links -0.20 -0.15 -0.52 -0.05 0.40 -0.06 0.06 0.10 -0.02

## Community smells: Spearman's correlation - p-values ( Krita )

		levs	only.devs	levs	only.devs	perc.code.only.devs	code.devs	d.devs		sponsored.core.devs	ratio.sponsored.core		al.devs		s.devs		•	nce	,	inks	lence	icability	rnover	10ver
	devs	ml.only.devs	code.	ml.code.devs	perc.ml.		perc.ml.	sponsored.devs	ratio.sponsored			num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover	code.turnover
~	0.22	0.18	0.18	0.35	0.08	0.12	0.56	0.60	0.90	0.59	0.59	-	0.91	0.40	0.38	-	-	0.89	-	0.00	0.22	0.98	0.90	0.50
prima.donnas radio.silence (	0.12	0.12	0.95	0.12	0.22	0.13	0.62	0.47	0.22	0.27	0.27	-	0.50	0.11	0.83	0.89	-	-	-	0.76	0.32	0.93	0.15	0.26
black.cloud	-	0.12	0.33	0.12	0.22	0.15	0.02	0.47	0.22	0.21	0.21	_	-	0.11	-	-	_	_	_	0.70	0.02	0.99	0.10	0.20
	0.38	0.21	0.55	0.04	0.08	0.47	0.08	0.89	0.83	0.90	0.90	-	0.91	0.77	0.31	0.00	_	0.76	_	-	0.76	0.69	0.39	0.93
		core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	betweenness.centr	degree.centr	global.1		'	code.mod densitv		mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core	
org.		0.94	0.87	0.07	0.99	0.53	0.72	0.74	0.43	0.57	0.90	0.43	0.12	0.97	0.0	6 0.85	5 0.	.04	0.52	0.44	0.01	0.38	0.33	
prima.don radio.sile black.cl	ence	0.74	0.92	0.70	0.56	0.19	0.41	0.01	0.85	0.51	0.99	0.86	0.32	0.18	- 3 0.19 -	9 0.84	- 4 0. -	- .39 (	- 0.51 -	0.28	0.46	0.04	0.71	
_ missing.li	inks	0.56	0.66	0.10	0.89	0.20	0.86	0.84	0.77	0.95	0.69	0.31	0.43	0.74	0.29	9 0.98	3 0.	.08	0.99	0.13	0.01	0.96	0.11	