Socio-technical analysis result (U-boot)

	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.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
1	2013-05 -	2013-08	329	170	37	122	0.5167	0.1125	0.3708	28	0.0851	4	0.0252	1	113	105	47	45	4	99	0	114	0.383	88 0.86	630 0.0	0000	0.0000
2	2013-08 -	2013-11	291	148	37	106	0.5086	0.1271	0.3643	47	0.1615	8	0.0559	1	100	97	33	13	0	94	1	63	0.292	0.96	673 - 0.5	5290	0.5099
3	2013-11 -	2014-02	314	157	38	119	0.5000	0.1210	0.3790	61	0.1943	8	0.0510	1	94	91	36	7	2	89	2	33	0.467	77 - 0.98	833 0.4	4198	0.4133
4	2014-02 -	2014-05	287	161	24	102	0.5610	0.0836	0.3554	30	0.1045	7	0.0556	1	91	87	26	13	5	113	2	25	0.456	65 0.97	760 0.5	5557	0.6078
5	2014-05 -	2014-08	298	134	43	121	0.4497	0.1443	0.4060	24	0.0805	2	0.0122	1	90	84	33	31	0	107	5	55	0.408	60.97	733 0.4	4615	0.3448
6	2014-08 -	2014-11	293	138	34	121	0.4710	0.1160	0.4130	55	0.1877	6	0.0387	1	86	85	25	6	2	118	7	36	0.544			4738	0.5580
7	2014-11 -		302	106	38	158	0.3510	0.1258	0.5232	70	0.2318		0.0612	1	94	86	41	16	2	96	7	78	0.422			4639	0.3533
8	2015-01 -		320	144	32	144	0.4500	0.1000	0.4500	58	0.1812	3	0.0170	1	110	108	37	24	0	104	4	95	0.398			4116	0.5161
9	2015-05 -		289	144	27	118	0.4983	0.0934	0.4083	45	0.1557	5	0.0345	1	99	95	34	15	0	122	2	42	0.487			5090	0.5545
10	2015-07 -		295	118	33	144	0.4000	0.1119	0.4881	37	0.1254	3	0.0169	1	90	85	38	19	4	83	2	75	0.440			4521	0.3913
11	2015-10 -		290	127	28	135	0.4379	0.0966	0.4655	38	0.1310		0.0184	1	98	95	34	14	5	112	0	76	0.486			4821	0.5647
12	2016-01 -	2016-04	307	126	39	142	0.4104	0.1270	0.4625	45	0.1466	5	0.0276	1	99	93	36	23	2	131	0	84	0.373	0.97	720 0.4	4456	0.4767
					70														$\overline{}$								
	core.global.turnover	core.mail.turnover	core.code.turnover		ratio.smelly.quitters	ratio.smellv.devs	olohal truck		mail.truck	code.truck	closeness.centr	betweenness centr	degree, centr	0	global.mod		mail.mod	pood a mood	רסמייווסמ	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
	00000 core.global.turnover	00000.0 core.mail.	code			0.4802	oloha		mall	code		0.3017	0.4465	0	[reqola] .2518	0.268	B9 B9	$\frac{\frac{9}{6}}{0.2240}$		0.0230	92 mail.only.core.devs	© code.only.core.devs		.mail.only	0.1463 ratio.code.only	3 0.2	% ratio.ml.code.core
1 2		core.mail.	core.code.	0.0	ratio.	ratio	2 0.656 0 0.656	5 0.640 4 0.618	[편 표] 4 0.704	opco 14 (closeness		0.4465	5 0 5 0	global	0.268 0.500	B9 B9	gode) (8 (0.0230			29	ratio.mail.only	ratio.code.only	3 0.2	
	0.0000	0.0000 0.4653 0.4468	0.0000 0.8750 0.5217	0.0 0.0 0.3 0.4	$\frac{0000}{\text{ratio.}}$	0.4802 0.4570 0.3758	2 0.656 0 0.656 3 0.700	5 0.640 4 0.618 5 0.670	H	900 14 (92 (97) 17 (97)	closeness	0.3017 0.2353 0.2692	0.4465 0.3286 0.3702	5 0 5 0 2 0	[reqola] .2518		Б В В В В В В В В В В В В В В В В В В В	$ \begin{array}{r} \hline 0.2240 \\ 0.6908 \\ 0.7966 \end{array} $) (3 3 (3 6 (4)	0.0230 0.0231 0.0228	76	18	29 24 22	0.6179 0.6887 0.6571	0.1463 0.0849 0.1333	3 0.2 9 0.2 3 0.2	2358 2264 2095
	0.0000 0.4789 0.4742 0.4541	0.0000 0.4653 0.4468 0.4494	0.0000 0.8750 0.5217 0.9355	0.0 0.3 0.4 6.0.3	0000 ratio	0.4802 0.4570 0.3758 0.4739	2 0.6565 0 0.6564 3 0.7000 0 0.6829	5 0.640 4 0.618 6 0.670 9 0.669	H	900 14 (92 (97) 17 (187)	0.0075 0.0074 0.0066 0.0106	0.3017 0.2353 0.2692 0.2599	0.4465 0.3286 0.3702 0.3566	6 0 6 0 2 0 6 0	.2518 .4945 .5682 .4151	0.506 0.552 0.383	158 160 168 168 168 168 168 168 168 168 168 168	0.2240 0.6908 0.7966 0.7533	0 (3 8 (3 6 (3	0.0230 0.0231 0.0228 0.0246	76 73	18 9	29 24 22 16	0.6179 0.6887 0.6571 0.7320	0.1463 0.0849 0.1333 0.1031	3 0.2 9 0.2 1 0.1	2358 2264 2095 1649
	0.0000 0.4789 0.4742 0.4541 0.4420	0.0000 0.4653 0.4468 0.4494 0.4327	0.0000 0.8750 0.5217 0.9355 0.6102	0.0 0.3 0.3 0.4 0.3 0.3 0.4 0.3	0000 963 016 114 444	0.4802 0.4570 0.3758 0.4739 0.4564	2 0.656 0 0.656 3 0.700 0 0.682 1 0.6980	5 0.640 4 0.618 5 0.670 9 0.669 0 0.670	4 0.704 1 0.769 3 0.770 2 0.793 6 0.798	900 14 (0) 12 (0) 17 (0) 187 (0) 188 (0)	0.0075 0.0074 0.0066 0.0106 0.0071	0.3017 0.2353 0.2692 0.2599 0.2371	0.4465 0.3286 0.3702 0.3566 0.3462	5 0 5 0 2 0 5 0 2 0	.2518 .4945 .5682 .4151 .4987	0.506 0.552 0.383 0.413	Figure 189 180 1	$ \begin{array}{r} \hline 0.2240 \\ 0.6908 \\ 0.7966 \\ 0.7533 \\ 0.7191 \end{array} $	900 0 0 8 0 6 0 8 0 1 0	0.0230 0.0231 0.0228 0.0246 0.0208	76 73 69 71 65	18 9 14 10 14	29 24 22 16 19	0.6179 0.6887 0.6571 0.7320 0.6633	0.1463 0.0849 0.1333 0.1031 0.1429	3 0.2 3 0.2 9 0.2 3 0.2 1 0.1 1 0.1	2358 2264 2095 1649 1939
	0.0000 0.4789 0.4742 0.4541 0.4420 0.3864	0.0000 0.4653 0.4468 0.4494 0.4327 0.3550	0.0000 0.8750 0.5217 0.9355 0.6102 0.8276	0 0.0 0 0.3 0 0.4 6 0.3 2 0.4 6 0.4	0000 0000 0016 0114 0000	0.4802 0.4570 0.3758 0.4739 0.4564 0.4744	2 0.6566 0 0.6564 8 0.7000 9 0.6829 4 0.6980 4 0.7066	5 0.640 4 0.618 5 0.670 9 0.669 0 0.670 5 0.671	4 0.704 1 0.769 3 0.770 2 0.798 6 0.798 8 0.838	900 14 (1) 14 (1) 17 (1) 18 (1) 1	0.0075 0.0075 0.0066 0.0106 0.0071 0.0075	0.3017 0.2353 0.2692 0.2599 0.2371 0.2352	0.4465 0.3286 0.3702 0.3566 0.3462 0.3953	6 0 6 0 2 0 6 0 2 0 8 0	.2518 .4945 .5682 .4151 .4987 .4468	0.506 0.552 0.383 0.413 0.397	Figure 189 189 180 1	0.2240 0.6908 0.7966 0.7533 0.7191 0.6204	9000 0 00 8 00 03 00 1 00 4 00	0.0230 0.0231 0.0228 0.0246 0.0208 0.0260	76 73 69 71 65 65	18 9 14 10 14 5	29 24 22 16 19 20	0.6179 0.6887 0.6571 0.7320 0.6633 0.7222	0.1463 0.0849 0.1333 0.1031 0.1429 0.0556	3 0.2 9 0.2 1 0.1 1 0.1 9 0.2 1 0.3 0.2	2358 2264 2095 1649 1939 2222
1 2 3 4 5 6	0.0000 0.4789 0.4742 0.4541 0.4420 0.3864 0.3111	0.0000 0.4653 0.4468 0.4494 0.4327 0.3550 0.3509	0.0000 0.8750 0.5217 0.9355 0.6102 0.8276 0.3333	0.00 0.03 0.04 0.03 0.04 0.04 0.04 0.04	0000 0000 0963 0016 0114 0000 0493	0.4802 0.4570 0.3758 0.4739 0.4564 0.4744 0.4834	2 0.6566 0 0.6566 8 0.7000 0 0.6829 4 0.6980 4 0.7068	5 0.640 4 0.618 6 0.670 9 0.669 0 0.670 5 0.671 7 0.674	4 0.704 1 0.769 3 0.770 2 0.798 6 0.798 8 0.838 2 0.790	900 14 (192 (197) 197 (197) 198 (197) 198 (197) 199 (197) 19	0.0075 0.0074 0.0066 0.0106 0.0071 0.0075 0.0071	0.3017 0.2353 0.2692 0.2599 0.2371 0.2352 0.2538	0.4465 0.3286 0.3702 0.3566 0.3462 0.3953 0.3752	6 0 6 0 2 0 6 0 2 0 8 0 2 0	.2518 .4945 .5682 .4151 .4987 .4468 .5509	0.506 0.552 0.383 0.413 0.397 0.416	89 80 21 88 82 79 64	$ \begin{array}{r} \hline 0.2240 \\ 0.6908 \\ 0.7966 \\ 0.7533 \\ 0.7191 \\ 0.6204 \\ 0.6882 \\ \end{array} $	B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0230 0.0231 0.0228 0.0246 0.0208 0.0260 0.0235	76 73 69 71 65 65 63	18 9 14 10 14 5 18	29 24 22 16 19 20 23	0.6179 0.6887 0.6571 0.7320 0.6633 0.7222 0.6058	0.1463 0.0849 0.1333 0.1031 0.1429 0.0556 0.1731	3 0.2 9 0.2 3 0.2 1 0.1 9 0.1 3 0.2 1 0.2	2358 2264 2095 1649 1939 2222 2212
3 4 5 6 7 8	0.0000 0.4789 0.4742 0.4541 0.4420 0.3864 0.3111 0.2843	0.0000 0.4653 0.4468 0.4494 0.4327 0.3550 0.3509 0.2887	0.0000 0.8750 0.5217 0.9355 0.6102 0.8276 0.3333 0.6667	0 0.0 0 0.3 7 0.4 6 0.3 2 0.4 6 0.4 6 0.4 7 0.4	0000 963 016 1114 4444 0000 493 453	0.4802 0.4570 0.3758 0.4739 0.4564 0.4744 0.4834	2 0.6566 0 0.6564 8 0.7000 0 0.6829 4 0.6980 4 0.7065 4 0.688° 0 0.6565	5 0.640 4 0.618 6 0.670 9 0.669 0 0.671 7 0.674 2 0.625	4 0.704 1 0.769 3 0.770 2 0.790 6 0.790 8 0.830 2 0.790 0 0.780	900 14 (192 (1937) (19	0.0075 0.0074 0.0066 0.0106 0.0071 0.0075 0.0071 0.0063	0.3017 0.2353 0.2692 0.2599 0.2371 0.2352 0.2538 0.2301	0.4465 0.3286 0.3702 0.3566 0.3462 0.3953 0.3752 0.3777	6 0 6 0 2 0 6 0 2 0 8 0 9 0 9 0 9 0	.2518 .4945 .5682 .4151 .4987 .4468 .5509 .3931	0.506 0.552 0.383 0.413 0.397 0.416 0.384	89 60 21 38 32 79 64	0.2240 0.6908 0.7966 0.7533 0.7191 0.6204 0.6882 0.6600	D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0230 0.0231 0.0228 0.0246 0.0208 0.0260 0.0235 0.0236	76 73 69 71 65 65 63 80	18 9 14 10 14 5 18 9	29 24 22 16 19 20 23 28	0.6179 0.6887 0.6571 0.7320 0.6633 0.7222 0.6058 0.6838	0.1463 0.0849 0.1333 0.1031 0.1429 0.0556 0.1731 0.0769	3 0.2 3 0.2 3 0.2 1 0.1 9 0.1 6 0.2 1 0.2 1 0.2 9 0.2	2358 2264 2095 1649 1939 2222 2212 2393
3 4 5 6 7 8	0.0000 0.4789 0.4742 0.4541 0.4420 0.3864 0.3111 0.2843 0.4498	0.0000 0.4653 0.4468 0.4494 0.4327 0.3550 0.3509 0.2887 0.4729	0.0000 0.8750 0.5217 0.9355 0.6102 0.8276 0.3333 0.6667 0.5352	0 0.0 0 0.3 7 0.4 6 0.3 2 0.4 6 0.4 6 0.4 7 0.4 8 0.4 9 0.4	0000 963 016 1114 4444 000 493 4453 1129	0.4802 0.4570 0.3758 0.4739 0.4564 0.4744 0.4834 0.4500 0.5294	2 0.6566 0 0.6564 8 0.7000 0 0.6829 4 0.6980 4 0.7066 4 0.6887 0 0.6562 4 0.6574	5 0.640 4 0.618 5 0.670 9 0.669 0 0.671 7 0.674 2 0.625 4 0.637	1	900 14 (1) 92 (1) 97 (1) 98 (1) 98 (1) 98 (1) 98 (1)	0.0075 0.0074 0.0066 0.0106 0.0071 0.0075 0.0071 0.0063 0.0118	0.3017 0.2353 0.2692 0.2599 0.2371 0.2352 0.2538 0.2301 0.2705	0.4465 0.3286 0.3702 0.3566 0.3462 0.3953 0.3752 0.3777	6 0 6 0 8 0 8 0 8 0 9 0 9 0 9 0 9 0 9 0	.2518 .4945 .5682 .4151 .4987 .4468 .5509 .3931 .3542	0.506 0.552 0.383 0.413 0.393 0.416 0.384 0.353	89 60 21 38 32 79 64 41 85	0.2240 0.6908 0.7966 0.7533 0.7191 0.6204 0.6882 0.6600 0.5399	30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0230 0.0231 0.0228 0.0246 0.0208 0.0260 0.0235 0.0236 0.0264	76 73 69 71 65 65 63 80 71	18 9 14 10 14 5 18 9	29 24 22 16 19 20 23 28 24	0.6179 0.6887 0.6571 0.7320 0.6633 0.7222 0.6058 0.6838 0.6762	0.1463 0.0849 0.1333 0.1031 0.1429 0.0556 0.1731 0.0769 0.0952	3 0.2 3 0.2 9 0.2 1 0.1 1 0.2 1 0.2 1 0.2 2 0.2 2 0.2	2358 2264 2095 1649 1939 2222 2212 2393 2286
3 4 5 6 7 8 9	0.0000 0.4789 0.4742 0.4541 0.4420 0.3864 0.3111 0.2843 0.4498 0.4233	0.0000 0.4653 0.4468 0.4494 0.4327 0.3550 0.2887 0.4729 0.4444	0.0000 0.8750 0.5217 0.9355 0.6102 0.8276 0.3333 0.6667 0.5352 0.5833	0 0.0 0 0.3 7 0.4 6 0.3 2 0.4 6 0.4 8 0.4 7 0.4 8 0.4 8 0.4	0000 963 9016 1114 4444 9000 4493 453 1129 9227	0.4802 0.4570 0.3758 0.4739 0.4564 0.4744 0.4834 0.4500 0.5294 0.4508	2 0.6566 0 0.6566 8 0.7000 0 0.6829 4 0.6980 4 0.7066 4 0.6887 0 0.6566 4 0.6574 8 0.6949	5 0.640 4 0.618 6 0.670 9 0.669 0 0.671 7 0.674 2 0.625 4 0.637 9 0.675	1	900 14 (192 (1937) (19	0.0075 0.0074 0.0066 0.0106 0.0071 0.0075 0.0071 0.0063 0.0118 0.0079	0.3017 0.2353 0.2692 0.2599 0.2371 0.2352 0.2538 0.2301 0.2705 0.3008	0.4465 0.3286 0.3702 0.3566 0.3462 0.3953 0.3752 0.3777 0.3625 0.4449	6 0 6 0 8 0 8 0 8 0 8 0 9 0 9 0 9 0	.2518 .4945 .5682 .4151 .4987 .4468 .5509 .3931 .3542 .4775	0.500 0.552 0.383 0.413 0.397 0.416 0.384 0.353 0.264	Fig. 189	0.2240 0.6908 0.7966 0.7533 0.7191 0.6204 0.6882 0.6600 0.5399 0.4136	30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0230 0.0231 0.0228 0.0246 0.0208 0.0260 0.0235 0.0236 0.0264 0.0279	76 73 69 71 65 65 63 80 71 65	18 9 14 10 14 5 18 9 10 18	29 24 22 16 19 20 23 28 24 20	0.6179 0.6887 0.6571 0.7320 0.6633 0.7222 0.6058 0.6838 0.6762 0.6311	0.1463 0.0849 0.1333 0.1031 0.1429 0.0556 0.1731 0.0769 0.0952 0.1748	3 0.22 3 0.29 0.23 1 0.11 0.20 1 0.22 1 0.22 1 0.23 1 0.24 1 0.25 1 0.25 1 0.26 1 0.26 1 0.27 1 0.27 1 0.28 1 0	2358 2264 2095 1649 1939 2222 2212 2393 2286 1942
3 4 5 6 7 8	0.0000 0.4789 0.4742 0.4541 0.4420 0.3864 0.3111 0.2843 0.4498 0.4233 0.4043	0.0000 0.4653 0.4468 0.4494 0.4327 0.3550 0.3509 0.2887 0.4729	0.0000 0.8750 0.5217 0.9355 0.6102 0.8276 0.3333 0.6667 0.5352	0 0.0 0 0.3 7 0.4 6 0.3 2 0.4 6 0.4 6 0.4 7 0.4 2 0.4 8 0.5 0 0.4	0000 963 9016 1114 4444 9000 4493 453 1129 9227	0.4802 0.4570 0.3758 0.4739 0.4564 0.4744 0.4834 0.4500 0.5294	2 0.6566 0 0.6566 8 0.7000 0 0.6829 4 0.6980 4 0.7066 4 0.688° 0 0.6566 4 0.6574 0 0.662	5 0.640 4 0.618 5 0.670 9 0.669 0 0.671 7 0.674 2 0.625 4 0.637 9 0.675	1	900 14 (192 (197 (197 (197 (197 (197 (197 (197 (197	0.0075 0.0074 0.0066 0.0106 0.0071 0.0075 0.0071 0.0063 0.0118	0.3017 0.2353 0.2692 0.2599 0.2371 0.2352 0.2538 0.2301 0.2705	0.4465 0.3286 0.3702 0.3566 0.3462 0.3953 0.3752 0.3777	6 0 6 0 2 0 6 0 2 0 8 0 9 0 0 0 0 0	.2518 .4945 .5682 .4151 .4987 .4468 .5509 .3931 .3542	0.506 0.552 0.383 0.413 0.393 0.416 0.384 0.353	Fig. 189	0.2240 0.6908 0.7966 0.7533 0.7191 0.6204 0.6882 0.6600 0.5399	30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0230 0.0231 0.0228 0.0246 0.0208 0.0260 0.0235 0.0236 0.0264	76 73 69 71 65 65 63 80 71	18 9 14 10 14 5 18 9	29 24 22 16 19 20 23 28 24 20 26	0.6179 0.6887 0.6571 0.7320 0.6633 0.7222 0.6058 0.6838 0.6762	0.1463 0.0849 0.1333 0.1031 0.1429 0.0556 0.1731 0.0769 0.0952	3 0.2 9 0.2 1 0.1 1 0.2 1 0.2 1 0.2 2 0.2 3 0.2 7 0.2	2358 2264 2095 1649 1939 2222 2212 2393 2286

					\mathbf{C}	omn	nunit	y sm	ells:	Pear	rson's	s co	rrela	tion	(U-l	oot)						
	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	sponsore		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
org.silo	0.62		0.35	0.15	-0.02	0.21	-0.05		-0.61				0.62	0.45	0.67	_	0.02	-0.04	-0.00	0.74	-0.46	-0.80	-0.28
prima.donnas	-0.07	0.05		0.03	0.07	-0.45			-0.33				-0.11	-0.16	0.05	0.02	_	-0.09	-0.29	0.07	0.31	-0.26	0.23
radio.silence	-0.24		-0.25	-0.11	0.10	-0.21	-0.04	-0.14	-0.11				-0.02	0.02	-0.42	-0.04	-0.09	-	-0.12	-0.16	0.25	0.16	0.22
black.cloud	0.13		0.29	0.24	-0.29	0.29	0.22		0.40			-	-0.36	-0.36	-0.08	-0.00	-0.29	-0.12	-	-0.10	0.30	0.03	-0.20
missing.links	0.64	-0.15	0.30	0.58	-0.41	0.15	0.40	-0.06	-0.13	-0.28	-0.46	-	0.74	0.62	0.81	0.74	0.07	-0.16	-0.10	-	-0.51	-0.69	-0.49
		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.mod		code.mod	densi		эроэ	ml.code.core.d	ratio.mail.on	ratio.code.only.core	ratio ml code core	
	g.silo	-0.20	-0.04	-0.28	0.48	0.16	-0.36	-0.21	-0.61	-0.22	0.22	0.30	-0.49			-0.41					0.41	0.11	
prima.do		0.09	0.10	0.15	-0.01	0.14	0.11	0.32	-0.12	0.25	0.71	0.69	-0.35								0.18		
radio.sil	ence	0.06	0.12	0.09	-0.12	0.74	-0.15	-0.14	0.36	0.37	-0.32	-0.09	-0.52	-0.27	0.22	-0.05	0.10	-0.49	-0.10	0.48	-0.48	0.03	3

black.cloud

missing.links

-0.64

-0.38

-0.59

-0.57

-0.12

-0.43

-0.12

0.77

-0.25

0.26

0.51

-0.51

0.45

-0.42

0.53

-0.48

-0.29

-0.43

-0.43

0.25

-0.21

0.53

0.50

-0.48

0.28

-0.53

-0.01

-0.56

-0.09

-0.17

-0.42

0.41

0.05

0.45

-0.16

0.75

-0.09

-0.64

-0.01

0.52

0.09

0.30

Community smells: Pearson's correlation - p-values (U-boot)

					C_{01}	.111110	шиу	SILIE	115.	ı eai	SOIL	5 CO	116	aun	J11 -	p-va	uues		-000	י אי					
		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		orima.donnas		radio.suence	Diack.ciOud missing links	missing.miks		$_{ m global.turnover}$	code.turnover
org	g.silo	0.03	0.51	0.26	0.65	0.95	0.51	0.88	0.07	0.03	0.12	0.07	-	0.03	0.15	0.02	-	0.94	1 0.90	0.99	0.0	1 0.13	0.00	0.40	0.19
prima.do	nnas	0.84	0.87	0.17	0.93	0.82	0.14	0.84	0.28	0.29	0.88	0.99	-	0.73	0.62	0.88	0.94		- 0.79	0.39	0.8	3 - 0.32	0.41	0.50	0.46
radio.si	lence	0.45	0.99	0.43	0.74	0.76	0.51	0.90	0.66	0.73	0.55	0.66	-	0.95	0.96	0.17	0.90	0.79)	- 0.73	3 0.6	3 - 0.43	0.62	0.51	0.09
black.o		0.69	0.43	0.38	0.48	0.39	0.38	0.52	0.23	0.22	0.39	0.66	-	0.28	0.28						- 0.7				0.31
missing.	links.	0.03	0.63	0.35	0.05	0.18	0.64	0.20	0.84	0.68	0.38	0.13	-	0.01	0.03	0.00	0.01	0.83	0.63	3 0.7	7	- 0.09	0.01	0.13	0.39
				core.grop	core.mail.tu	core.code.tu	ratio smelly days			,			Detweenness.centr	degree.centr	global.mod	mail.mod	code.mod	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	
_		org.sile											9 (0.11	0.15	0.03	0.18	0.23	0.07	0.16	0.10	0.19	0.73	
	-	.donna														0.06	0.38	0.20	0.65	0.56	0.66	0.83	0.57	0.56	
		o.silence													0.08	0.39	0.49	0.87	0.75	0.11	0.76	0.11	0.11	0.93	
		ck.cloud													0.11	0.41	0.97	0.79	0.20	0.90	0.63	0.80	0.80	0.97	
	missi	ng.link	s = 0.0	7 0.2	5 0.1	9 - 0.0	1 0.4	2 - 0.09	0.18	0.12	0.16	0.44	4 (0.08	0.12	0.08	0.06	0.59	0.18	0.14	0.01	0.03	0.35	0.09	

Community smells: Spearman's correlation (U-boot)

							•			_					•									
	devs	ml.only.devs	code.only.devs	ml.code.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	
org.silo	0.55	-0.15	0.30	0.52	-0.28	0.15	0.20	-0.45	-0.52	-0.62	-0.63	-	0.40	0.19	0.60	-	-0.14	-0.03	0.05	0.75	-0.58	-0.54	-0.47	-0
prima.donnas	-0.16	0.01	-0.33	0.10		-0.46	0.09	-0.32	-0.31	0.00	0.02	-	-0.22	-0.13	0.13	-0.14	-	-0.04	-0.27	-0.01	0.26	-0.03	0.18	0
radio.silence	-0.34	-0.03	-0.21	-0.20		-0.24	-0.02	-0.18	-0.15	-0.13	-0.03	-	-0.00	0.02	-0.47	-0.03	-0.04	-	-0.13	-0.10	0.25	0.20	0.28	0
black.cloud	0.24	-0.11	0.17	0.26		0.12	0.10	0.30	0.35	0.10	0.07	-	-0.48	-0.53	0.01	0.05	-0.27	-0.13	-	-0.14	0.21	0.27	-0.16	-0
missing.links	0.62	-0.26	0.23	0.74	-0.39	0.15	0.44	-0.01	-0.08	-0.34	-0.34	_	0.64	0.51	0.73	0.75	-0.01	-0.10	-0.14	_	-0.61	-0.77	-0.47	-0
		0.20		0.11	70	0.10		0.01	0.00		0.01													
		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.mod	mail.mod	code.mod	density	mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.on	ratio.code.only.core	ratio ml code core		
org	g.silo	© core.global.turnover	core.mail.turnover	core.code.turnover	9.9 ratio.smelly.quitters	20.0 ratio.smelly.devs	88.0-8 global.truck	90.0- mail.truck	code.truck	rloseness.centr.	betweenness.centr	0.20	-0.35	pom:lism -0.37	code.mod	0.33 density	0.24 mail.only.core.devs	coce.only.core.devs	0.31 ml.code.core.devs	$\begin{bmatrix} 0.0 \\ 0.0 \end{bmatrix}$ ratio.mail.only.	9.70 ratio.code.only.core	20.00 ratio ml code core		
org prima.do	g.silo nnas	90.0- 8 core.global.turnover	-0.12 -0.04	-0.34 0.05	0.20 6.00 7.00 8.00 8.00 8.00 8.00 8.00 8.00 8	ratio.smelly.devs	85.0-8 global.truck	90.0- mail.truck	01.0-0-16 code: truck	-0.24 0.44	petweenness.centr 0.16 0.63	0.20 0.60	-0.35 -0.33	-0.37 -0.57	-0.30 -0.11	-0.33 0.29	0.17 mail.only.core.devs	0.10 6.20 7.00 9.20 9.20 9.20 9.20 9.20 9.20 9.20 9	0.31 ml.code.core.devs	0.13 -0.13 ratio.mail.only.	0.23 0.20 0.20 0.20 0.20	0.07 -0.12		
org prima.do radio.sil	g.silo nnas lence	88.0- 60.0- 60.0- 70.0- 80.0-	-0.12 -0.04 0.31	-0.34 0.05 0.05	0.64 0.20 0.09	0.07 0.25 0.66	8.0- 0.20 -0.06	-0.06 -0.20 -0.21	-0.16 -0.14 0.51	-0.24 0.27	0.16 0.63 -0.22	0.20 0.60 0.03	-0.35 -0.33 -0.55	-0.37 -0.57 -0.30	-0.30 -0.11 0.05	-0.33 0.29 0.05	0.14 0.17 0.14	0.16 0.44	0.31 -0.14 -0.11	-0.52 -0.13 0.50	0.46 0.23 -0.50	0.07 -0.12 0.04		
org prima.do	g.silo nnas lence eloud	90.0- 8 core.global.turnover	-0.12 -0.04	-0.34 0.05	0.20 6.00 7.00 8.00 8.00 8.00 8.00 8.00 8.00 8	0.07 0.25 0.66 -0.33	-0.38 0.20 -0.06 0.47	-0.06 0.30 -0.21 0.55	-0.16 0.14 0.51 0.22	-0.24 0.44	0.16 0.63 -0.22	0.20 0.60	-0.35 -0.33	-0.37 -0.57	-0.30 -0.11	-0.33 0.29	0.17 mail.only.core.devs	0.10 6.20 7.00 9.20 9.20 9.20 9.20 9.20 9.20 9.20 9	0.31 -0.14 -0.11	-0.52 -0.13 -0.50 -0.10	0.46 0.23 -0.50 0.08	0.07 -0.12 0.04 -0.15		

Community smells: Spearman's correlation - p-values (U-boot)

					COII	minar	iioy k		. D.	Pcai	III CI	L B C	J11	Ciau	1011	P	aruc	,) c		σ					
		devs	ml.only.devs	code.only.devs	m 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	$\operatorname{num.tz}$	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	0.06	0.63	0.35	0.09	0.38	0.63	0.53	0.14	0.08	0.03	0.03	-	0.20	0.55	0.04	_	0.66	0.93	0.87	7 0.01	0.05	0.07	0.15	0.10
prima.dor		0.62	0.98	0.30	0.76	0.95	0.13	0.77	0.31	0.33	1.00	0.95	-	0.50	0.68	0.69	0.66	-	0.91	0.43	0.96	0.41	0.93	0.59	0.29
radio.sile	ence	0.28	0.92	0.51	0.53	0.89	0.46	0.96	0.58	0.64	0.68	0.92	-	0.99	0.95	0.13	0.93	0.91		0.70	0.77	7 - 0.43	0.54	0.40	0.11
black.cl	loud	0.47	0.74	0.61	0.44	0.71	0.73	0.77	0.36	0.30	0.78	0.85	-	0.13	0.09	0.98	0.87	0.43	0.70	-	0.68	0.54	0.43	0.64	0.37
missing.l	inks	0.03	0.41	0.48	0.01	0.21	0.65	0.15	0.98	0.80	0.28	0.28	_	0.03	0.09	0.01	0.01	0.96	0.77	0.68	} .	- 0.04	0.01	0.15	0.40
				core.g.robat.turinover	core.mail.turnover	core.code.turnover	racio smeny quiecto ratio emally days	global.truck	mail tmick		occording south	Closeffess.ceffet	betweenness.centr	degree.centr	global.mod	mail.mod	code.mod	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	
_		org.silc	0.2	5 - 0.7	2 0.3	0.0	3 0.83	0.22	0.85	0.62	0.45	5 0.6	2 (0.54	0.27	0.23	0.34	0.29	0.46	0.07	0.32	0.08	0.14	0.84	
I		donnas			1 0.8				0.34	0.67				0.04			0.74	0.36	0.61	0.62	0.67	0.68	0.48	0.72	
		.silence															0.89	0.88	0.68	0.15	0.74	0.10	0.10	0.90	
		k.cloud														0.16	0.64	0.98	0.10	0.73	0.41	0.77	0.82	0.66	
	missii	ng.links	0.0	7 - 0.3	7 - 0.3	0.0	1 - 0.38	8 0.06	0.43	0.54	0.28	0.8	0 (0.09	0.12	0.20	0.18	0.56	0.30	0.33	0.01	0.12	0.57	0.10	