Socio-technical analysis result (Qt)

													J	O ~ C.	' (-0	<u>/</u>									
	range.date		devs	ml.only.devs	$\operatorname{code.only.devs}$	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	${\rm sponsored.devs}$	ratio.sponsored	suods	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	${\rm core.code.devs}$	org.silo	prima.donnas radio.silence	black.cloud	missing.links		st.congruence	communicability	global.turnover	code.turnover
1	2013-05 -	2013-08	262	149	57	56	0.5687	0.2176	0.2137	25	0.0954	3	0.0265	29	84	78	32	68	0 88	0	124	0.16	522 0.9	9063	0.0000	0.0000
2	2013-08 $-$	2013-11	312	152	84	76	0.4872	0.2692	0.2436	23	0.0737	0	0.0000	31	100	90	43	235	0 108	0	471	0.13	310 0.3	8289	0.3449	0.2857
3	2013- $11 -$	2014-02	297	138	78	81	0.4646	0.2626	0.2727	34	0.1145	. 1	0.0063	27	96	82	48	185	2 82	0	356	0.16	0.8	8803	0.4335	0.3950
4	2014-02 $-$	2014-05	283	149	73	61	0.5265	0.2580	0.2155	33	0.1166	3	0.0224	32	85	73	41	158	0 78	0	265	0.18	321 - 0.8	8710	0.4034	0.4915
5	2014 - 05 $-$	2014-08	260	117	82	61	0.4500	0.3154	0.2346	37	0.1423	2	0.0140	27	90	73	37	165	0 70	0	252	0.09	0.8	8645	0.4825	0.4188
6	2014-08 -	2014-11	295	139	96	60	0.4712	0.3254	0.2034	45	0.1525	3	0.0192	30	100	80	45	338	0 105	0	406	0.04	92 0.	7377	0.3532	0.3746
7	2014 - 11 -	2015-02	237	121	70	46	0.5105	0.2954	0.1941	20	0.0844	4	0.0345	29	62	54	31	88	0 79	0	118	0.04	84 0.9	9052	0.5451	0.5294
8	2015 - 02 -	2015-05	285	104	124	57	0.3649	0.4351	0.2000	34	0.1193	4	0.0221	33	81	63	42	271	0 80	2	327	0.10	90 0.8	8783	0.3142	0.2357
9	2015 - 05 -	2015-08	230	122	60	48	0.5304	0.2609	0.2087	24	0.1043	4	0.0370	28	75	69	31	90	2 84	0	111	0.11	.90 0.8	8829	0.4971	0.7128
10	2015 - 08 -	2015-11	264	100	108	56	0.3788	0.4091	0.2121	27	0.1023	3	0.0183	30	79	63	36	169	0 50	0	219	0.07	798 0.8	8670	0.3117	0.2132
11	2015 - 11 -	2016-02	231	110	76	45	0.4762	0.3290	0.1948	35	0.1515	. 1	0.0083	30	65	56	27	96	0 97	0	142	0.08	39 - 0.8	8815	0.4768	0.6035
12	2016-02 $-$	2016-05	242	128	68	46	0.5289	0.2810	0.1901	34	0.1405	3	0.0263	24	71	66	28	66	0 55	0	100	0.15	0.9	9037	0.4397	0.4596
	core.global.turnover	core.mail.turnover	gore gode turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	olobal truck	Stores at the	mail.truck	code.truck	closeness.centr	hetweenness centr	deoree 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
1	0.0000	00000 core.mail.turnover	0.000.0	core.code.turmover	o ratio.smelly.quitters	0.5153 ratio.smelly.devs	3 0.6794	4 0.619	mail:truck	code 88 (closeness.centr	0.2519	0.488	6 0.5	7 Telopa 3446	0.18	II H H H H H	0.5470	0.0402	61	15	ml.code.core.devs	69.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0 67	0.16	13 0.1	8 ratio.ml.code.core
1 2	$0.0000 \\ 0.2391$	0.0000 core.mail.turnover	0.0000 0.4000	0 0.0 0 0.4	Phonomatic properties artiors are properties.	0.5153 0.5994	3 0.6794 4 0.6795	4 0.619 5 0.605	maj:truck 5 0.716 3 0.731	900 38 (12 (1	closeness.centr.	0.2519 0.1843	0 0.488	5 0.5 2 0.5	7754	0.190	15 H 34 10 10 10 10 10 10 10 10 10 10 10 10 10	$0.5470 \\ 0.4405$	0.0402 0.0428	61 66	15 19	ml.code.core.devs	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	$0.16 \\ 0.17$	513 0.1 743 0.2	ratio.ml.code.core
	0.0000 0.2391 0.3776	0.0000 0.2976 0.3953	0.0000 0.4000 0.3077	0 0.0 0 0.4 7 0.4	0000 ratio.smelly.quitters	0.5153 0.5994 0.5455	3 0.6794 4 0.6795 5 0.6768	4 0.619 5 0.605 8 0.625	mail truck 5 0.716 3 0.731 6 0.698	90 38 (12 (181 (181 (181 (181 (181 (181 (181	closeness: centr. closeness: closeness: centr. closeness: closenes: closenes: closenes: closenes: closenes: closenes: closenes: c	0.2519 0.1843 0.2332	0 0.488 0 0.449 0 0.472	6 0.5 2 0.5 3 0.4	7eqol 8 3446 3754 4938	0.190 0.229	74 74 74 74	0.5470 0.4405 0.5485	0.0402 0.0428 0.0412	61 66 58	15 19 24	sop:oog:code.core.devs 24 24	0.6559 0.6055 0.5472	0.16 0.17 0.22	613 0.1 643 0.2 664 0.2	ratio.ml.code.core 828 2202 2264
	0.0000 0.2391 0.3776 0.4751	0.0000 0.2976 0.3953 0.4903	0.0000 0.4000 0.3077 0.4270	0 0.0 0 0.4 7 0.4 0 0.3	sandly.duitters 0000 4444 4697 3932	0.5153 0.5994 0.5455 0.5265	3 0.6794 4 0.6795 5 0.6768 5 0.6996	4 0.619 5 0.605 8 0.625 6 0.652	жения при	900 58 0 12 0 81 0	closeness: centr. 0.0079 0.0063 0.0068 0.0077	0.2519 0.1843 0.2332 0.2202	0.4889 0.4499 2.0.4725 2.0.475	6 0.3 2 0.3 3 0.4 7 0.4	Teqolis 3446 3754 4938 4270	0.190 0.229 0.272	75 34 74 74 76 76	0.5470 0.4405 0.5485 0.4282	0.0402 0.0428 0.0412 0.0491	61 66 58 54	15 19 24 22	sop:oog:core.devs 17 24 19	0.6559 0.6055 0.5472 0.5684	0.16 0.17 0.22c 0.23	13 0.1 743 0.2 864 0.2 816 0.2	828 8202 8264 8200
1 2 3 4 5	0.0000 0.2391 0.3776 0.4751 0.4114	0.0000 0.2976 0.3953 0.4903 0.4658	0.0000 0.4000 0.4270 0.4615	0 0.04 0 0.47 0 0.35 5 0.49	0000 4444 4697 3932 4275	0.5153 0.5994 0.5455 0.5265 0.5115	3 0.6794 4 0.6795 5 0.6768 5 0.6996 5 0.6538	4 0.619 5 0.605 8 0.625 6 0.652 8 0.589	5 0.716 3 0.731 6 0.698 4 0.694 9 0.741	81 (140 (143 (143 (144 (144 (144 (144 (144 (144	closeness: central colored col	0.2519 0.1843 0.2332 0.2202 0.3197	0 0.488 0 0.449 2 0.472 2 0.475 7 0.487	6 0.3 2 0.3 8 0.4 7 0.4 1 0.3	Teqologo 3446 3754 4938 4270 3957	0.190 0.229 0.279 0.28	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.5470 0.4405 0.5485 0.4282 0.4629	0.0402 0.0428 0.0412 0.0491 0.0338	61 66 58 54 60	15 19 24 22 24	sxap:ooge:core:dexs 17 24 24 19 13	0.6559 0.6055 0.5472 0.5684 0.6186	0.16 0.17 0.22c 0.23 0.24	13 0.1 43 0.2 64 0.2 16 0.2 74 0.1	828 2202 2264 2000 340
1 2 3 4 5 6	0.0000 0.2391 0.3776 0.4751 0.4114 0.3789	0.0000 0.2976 0.3953 0.4903 0.4658 0.4183	0.0000 0.4000 0.4270 0.4615 0.3659	0 0.00 0 0.4 7 0.4 0 0.3 5 0.4 9 0.4	sations and state of the sations and state of the sations and state of the sations are sationally sations and sational state of the	0.5153 0.5994 0.5455 0.5265 0.5115 0.6237	3 0.6794 4 0.6795 5 0.6996 5 0.6538 7 0.6610	4 0.619 5 0.605 8 0.625 6 0.652 8 0.589 0 0.598	0.716 0.731 0.698 0.694 0.741 0.0711	88 0 12 0 13 0 13 0 15 0	closeness: centr closeness: centr closen	0.2519 0.1843 0.2332 0.2202 0.3197 0.1903	0 0.488 0 0.449 2 0.472 7 0.487 8 0.396	6 0.3 2 0.3 8 0.4 7 0.4 1 0.3 7 0.4	Teqolo 3446 3754 4938 4270 3957 4265	0.190 0.229 0.279 0.28' 0.259	73 73 74 74 73 73 75	0.5470 0.4405 0.5485 0.4282 0.4629 0.3818	0.0402 0.0428 0.0412 0.0491 0.0338 0.0386	61 66 58 54 60 65	15 19 24 22 24 30	sop:oog:core.devs 17 24 19	0.6559 0.6055 0.5472 0.5684 0.6186 0.5909	0.16 0.17 0.22 0.23 0.24 0.27	13 0.1 43 0.2 64 0.2 16 0.2 74 0.1 27 0.1	828 2202 2264 2000 340 364
3 4 5 6 7	0.0000 0.2391 0.3776 0.4751 0.4114 0.3789 0.7284	0.0000 0.2976 0.3953 0.4903 0.4658 0.4183 0.6567	0.0000 0.4000 0.4000 0.4615 0.3659 0.7632	0 0.0 0 0.4 7 0.4 0 0.3 5 0.4 9 0.4 2 0.4	sations and state of the state	0.5153 0.5994 0.5455 0.5265 0.5115 0.6237 0.5527	3 0.6794 4 0.6795 5 0.6996 5 0.6538 7 0.6610 7 0.7384	4 0.619 5 0.605 8 0.625 6 0.652 8 0.589 0 0.598 4 0.676	75 0.716 63 0.731 66 0.698 64 0.694 69 0.741 66 0.732	\$\frac{9}{68}\$ (2 (2 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	Closeness 0.0079 0.0063 0.0068 0.0077 0.0068 0.0068 0.0086	0.2519 0.1843 0.2332 0.202 0.3197 0.1903 0.2877	0 0.488 0 0.449 2 0.475 7 0.487 7 0.445 7 0.445	6 0.3 2 0.3 8 0.4 7 0.4 4 0.3 7 0.4	78qo ₁₈₀ 3446 3754 4938 4270 3957 4265 1761	0.190 0.229 0.279 0.28' 0.259 0.133	34 34 94 95 32	0.5470 0.4405 0.5485 0.4282 0.4629 0.3818 0.5567	0.0402 0.0428 0.0412 0.0491 0.0338 0.0386 0.0503	61 66 58 54 60 65 50	15 19 24 22 24 30 27	sxap:-code:code:code: 4	0.6559 0.6055 0.5472 0.5684 0.5909 0.6173	0.16 0.17 0.22 0.23 0.24 0.27 0.33	13 0.1 43 0.2 64 0.2 16 0.2 74 0.1 27 0.1 33 0.0	202 2264 2000 340 364 494
1 2 3 4 5 6 6 7 8	0.0000 0.2391 0.3776 0.4751 0.4114 0.3789 0.7284 0.3217	0.0000 0.2976 0.3953 0.4903 0.4658 0.4183 0.6567 0.3590	0.0000 0.4000 0.3077 0.4270 0.4615 0.7632 0.4384	0 0.0 0 0.4 7 0.4 0 0.3 5 0.4 9 0.4 2 0.4 4 0.4	20000 4444 4697 3932 4275 4184 4966 4146	0.5153 0.5994 0.5455 0.5265 0.5115 0.6237 0.5527 0.5509	3 0.6794 4 0.6795 5 0.6996 5 0.6538 7 0.6610 7 0.7384 9 0.7158	4 0.619 5 0.605 8 0.625 6 0.589 0 0.598 4 0.676 8 0.608	75 0.716 3 0.731 36 0.698 4 0.694 9 0.741 30 0.711 36 0.732 37 0.768	\$\frac{\partial \text{pos}}{68} (\text{l2} (\text{l3} (\	0.0079 0.0063 0.0068 0.0077 0.0071 0.0068 0.0086 0.0086	0.2519 0.1843 0.2332 0.3197 0.1903 0.2877 0.1987	0 0.488 0 0.449 0 0.475 0 0.487 0 0.487 0 0.445 0 0.445 0 0.449	6 0.3 0.2 0.3 0.4 0.4 0.4 0.5 0.4 0.5 0.5 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	78qol ₈ 3446 3754 4938 4270 3957 4265 1761 5256	0.190 0.229 0.275 0.28' 0.259 0.133 0.12'	34 94 94 26 73 95 32	0.5470 0.4405 0.5485 0.4282 0.4629 0.3818 0.5567 0.5555	0.0402 0.0428 0.0412 0.0491 0.0338 0.0386 0.0503 0.0395	61 66 58 54 60 65 50 48	15 19 24 22 24 30 27 27	sxap:-code:code:code: 17 24 24 19 13 15 4 15	0.6559 0.6055 0.5472 0.5684 0.6186 0.5909 0.6173 0.5333	0.16 0.17 0.22 0.23 0.24 0.27 0.33 0.30	13 0.1 43 0.2 64 0.2 116 0.2 74 0.1 27 0.1 33 0.0 00 0.1	202 2264 2000 340 364 494 6667
3 4 5 6 7 8	0.0000 0.2391 0.3776 0.4751 0.4114 0.3789 0.7284 0.3217 0.4615	0.0000 0.2976 0.3953 0.4903 0.4658 0.4183 0.6567 0.3590 0.3788	0.0000 0.4000 0.3077 0.4270 0.4615 0.7632 0.4384 0.6849	0 0.0 0 0.4 7 0.4 0 0.3 5 0.4 9 0.4 4 0.4 9 0.4	20000 4444 4697 3932 4275 4184 4966 4146 4297	0.5153 0.5994 0.5455 0.5265 0.5115 0.6237 0.5527 0.5529 0.5652	3 0.6794 4 0.6795 5 0.6768 5 0.6538 7 0.6610 7 0.7384 9 0.7158 2 0.6739	4 0.619 5 0.605 8 0.625 6 0.652 8 0.589 0 0.598 4 0.676 8 0.608 9 0.594	Önttille 55 0.716 53 0.731 56 0.698 64 0.694 69 0.741 66 0.732 67 0.768 61 0.713	900 68 (12 (13) 61 (14) (14) 61 (15) (15) 62 (15) (16) 63 (16) 64 (16) 65 (16) 66 (16) 67 (16) 68 (16	0.0079 0.0063 0.0068 0.0077 0.0068 0.0068 0.0086 0.0054 0.0087	0.2519 0.1843 0.2332 0.2202 0.3197 0.1903 0.2877 0.1987 0.2523	0.4485 0.4495 0.4495 0.4757 0.4874 0.4458 0.5465 0.5465	6 0.3 2 0.3 3 0.4 7 0.4 4 0.3 6 0.4 6 0.5 6 0.5	7gqolso 3446 3754 4938 4270 3957 4265 1761 5256 2267	0.190 0.229 0.273 0.283 0.259 0.133 0.123	73 74 74 73 73 75 74 74	0.5470 0.4405 0.5485 0.4282 0.4629 0.3818 0.5567 0.5555 0.6294	0.0402 0.0428 0.0412 0.0491 0.0338 0.0386 0.0503 0.0395 0.0649	61 66 58 54 60 65 50 48	15 19 24 22 24 30 27 27 22	sxap:-uor:-googe:-code-code-code-code-code-code-code-code	0.6559 0.6055 0.5472 0.5684 0.6186 0.5909 0.6173 0.5333 0.6593	0.16 0.17 0.22 0.23 0.24 0.27 0.33 0.30 0.24	13 0.1 43 0.2 64 0.2 16 0.2 74 0.1 27 0.1 33 0.0 00 0.1 18 0.0	828 8202 8264 8000 340 364 9494 6667
3 4 5 6 7 8 9	0.0000 0.2391 0.3776 0.4751 0.4114 0.3789 0.7284 0.3217 0.4615 0.4805	0.0000 0.2976 0.3953 0.4903 0.4658 0.4183 0.6567 0.3590 0.3788 0.5303	0.0000 0.4000 0.3077 0.4270 0.4615 0.3659 0.7632 0.4384 0.6849 0.5075	0 0.0 0 0.4 7 0.4 0 0.3 5 0.4 9 0.4 4 0.4 9 0.4 5 0.4	0000 4444 4697 3932 4275 4184 4966 4146 4297 4416	0.5153 0.5994 0.5455 0.5265 0.5115 0.6237 0.5527 0.5529 0.5652 0.4356	3 0.6794 4 0.6795 5 0.6768 5 0.6538 7 0.6610 7 0.7384 9 0.7158 2 0.6739 6 0.7008	4 0.619 5 0.605 8 0.625 6 0.652 8 0.589 0 0.598 4 0.676 8 0.608 9 0.594 8 0.596	Signature Sign	900 388	0.0079 0.0063 0.0068 0.0077 0.0068 0.0086 0.0086 0.0087 0.0087	0.2519 0.1843 0.2332 0.2202 0.3197 0.1903 0.2877 0.1987 0.2523 0.1535	0.4488 0.4492 0.4723 0.4757 0.4874 0.4458 0.3468 0.5468 0.3583	6 0.3 2 0.3 3 0.4 7 0.4 4 0.3 7 0.4 7 0.4 6 0.5 6 0.5 8 0.3	3446 3754 4938 4270 3957 4265 1761 5256 2267 3331	0.190 0.229 0.273 0.283 0.259 0.133 0.123 0.100 0.223	Figure 134	0.5470 0.4405 0.5485 0.4282 0.4629 0.3818 0.5567 0.5555 0.6294 0.5131	0.0402 0.0428 0.0412 0.0491 0.0338 0.0386 0.0503 0.0395 0.0649 0.0333	61 66 58 54 60 65 50 48 60 52	15 19 24 22 24 30 27 27 22 25	sxap:-score:dexs 17 24 24 19 13 15 4 15 9 11	0.6559 0.6055 0.5472 0.5684 0.6186 0.5909 0.6173 0.5333 0.6593 0.5909	0.16 0.17 0.22 0.23 0.24 0.27 0.33 0.30 0.24 0.28	13 0.1 143 0.2 164 0.2 166 0.2 174 0.1 127 0.1 133 0.0 100 0.1 18 0.0 141 0.1	828 8202 8264 8000 340 364 9494 6667 989 250
3 4 5 6 7 8	0.0000 0.2391 0.3776 0.4751 0.4114 0.3789 0.7284 0.3217 0.4615 0.4805 0.5139	0.0000 0.2976 0.3953 0.4903 0.4658 0.4183 0.6567 0.3590 0.3788	0.0000 0.4000 0.3077 0.4270 0.4615 0.7632 0.4384 0.6849	0 0.00 0 0.44 7 0.44 0 0.35 5 0.44 2 0.44 9 0.44 5 0.44 5 0.44 0 0.36	0000 4444 4697 3932 4275 4184 4966 4146 4297 4416 3220	0.5153 0.5994 0.5455 0.5265 0.5115 0.6237 0.5527 0.5529 0.5652	3 0.6794 1 0.6795 5 0.6768 5 0.6996 5 0.6538 7 0.6610 7 0.7384 9 0.7158 9 0.708 1 0.7186	4 0.619 5 0.605 8 0.625 6 0.652 8 0.589 0 0.598 4 0.676 8 0.608 9 0.594 8 0.596 6 0.638	5 0.716 3 0.731 6 0.698 4 0.694 19 0.741 6 0.732 17 0.768 11 0.713 12 0.780 17 0.768	900 58	0.0079 0.0063 0.0068 0.0077 0.0068 0.0086 0.0086 0.0087 0.0056 0.0056	0.2519 0.1843 0.2332 0.2202 0.3197 0.1903 0.2877 0.1987 0.2523	0 0.488 0 0.449 0 0.475 7 0.487 7 0.445 7 0.449 8 0.546 6 0.358 0 0.355	6 0.: 6 0.: 8 0.: 8 0.: 9 0.: 1	7gqolso 3446 3754 4938 4270 3957 4265 1761 5256 2267	0.190 0.229 0.273 0.283 0.259 0.133 0.123	Fire H 34 34 34 32 32 32 38 38 36 31	0.5470 0.4405 0.5485 0.4282 0.4629 0.3818 0.5567 0.5555 0.6294	0.0402 0.0428 0.0412 0.0491 0.0338 0.0386 0.0503 0.0395 0.0649	61 66 58 54 60 65 50 48	15 19 24 22 24 30 27 27 22	sxap:-uor:-googe:-code-code-code-code-code-code-code-code	0.6559 0.6055 0.5472 0.5684 0.6186 0.5909 0.6173 0.5333 0.6593	0.16 0.17- 0.22- 0.23 0.24- 0.27- 0.33- 0.30- 0.24- 0.28- 0.24- 0.28-	13 0.1 143 0.2 164 0.2 166 0.2 174 0.1 127 0.1 133 0.0 100 0.1 118 0.0 141 0.1 132 0.1	828 8202 8264 8000 340 364 9494 6667

Community smells: Pearson's correlation (Qt)

-0.73 0.29 -0.03 -0.44 -0.66

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	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	num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	
org.silo	0.79	0.07	0.75	0.54	-0.58	0.46	0.25	0.53	0.17	-0.14	-0.43	0.51	0.72	0.44	0.83	-	-0.13	0.40	0.40	0.89	-0.28	-0.83	
prima.donnas	-0.05	0.07	-0.29	0.28	0.14	-0.32	0.49	-0.12	-0.13	-0.03	0.09	-0.32	0.12	0.21	0.18	-0.13	-	0.04	-0.15	-0.03	0.27	0.15	
radio.silence	0.37	0.50	-0.10	0.30	0.24	-0.29	0.17	0.08	-0.06	-0.40	-0.35	0.42	0.40	0.45	0.31	0.40	0.04	-	-0.01	0.48	-0.12	-0.52	
black.cloud	0.21	-0.41	0.71	-0.03	-0.63	0.68	-0.20	0.12	0.01	0.35	0.09	0.49	-0.03	-0.21	0.22	0.40	-0.15	-0.01	-	0.20	-0.01	0.10	
missing.links	0.94	0.33	0.55	0.82	-0.42	0.18	0.57	0.34	-0.06	-0.49	-0.68	0.44	0.86	0.69	0.91	0.89	-0.03	0.48	0.20	_	-0.00	-0.71	
	0.01		0.00	0.02		0.10		0.01		0.10	0.00	0.11											_
	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.only.core	ratio.code.only.core	ratio.ml.code.core	
C	rg.silo	o. 19 core.global.turnover	core.mail.turnover	89 core.code.turnover	13 ratio.smelly.quitters	24.0 ratio.smelly.devs	global.truck	mail.truck	80.0- code.truck	closeness.centr	10-0-13 petweenness.centr	8.0 degree.centr	0.63	pom-liem 0.43	poom-epood-0.44	opposity density	.c. mail.only.core.devs	code.only.core.devs	ml.code.core.devs	69.06 ratio.mail.only.	8 ratio.code.only.core	ratio.ml.code.core	
prima.c	rg.silo lonnas	-0.0- 19.0- core.global.turnover	-0.40 core.mail.turnover	-0.68 -0.02 core.code.turnover	81.0-1 ratio.smelly.quitters	0.14 ratio.smelly.devs	-0.35 global.truck	04.0- 01.0-	80.0- 80.0- 80.0-	closeness.centr	petweenness centr. -0.13 0.23	-0.18 0.54	0.63 -0.01	pom:;mag;	-0.44 0.59	Articological Science	0.21 mail.only.core.devs	sode.only.core.devs	sxap:oog:core:dexs 0.42 0.16	80.0- 69.0- Fatio.mail.only.	0.06 ratio.code.only.core	0.27 0.09	
prima.d	org.silo lonnas silence	-0.07 -0.07 -0.08	-0.40 -0.28 -0.36	-0.68 -0.02 -0.06	-0.18 81.0 81.0 13 ratio.smelly.quitters	74.0 14.0 14.0 14.0 14.0 14.0	-0.35 -0.31 -0.24	-0.40 -0.16 0.03	-0.08 -0.46 -0.37	-0.63 0.30 0.12	-0.13 0.23 -0.06	-0.18 0.54 0.12	pom.ledolg 0.63 -0.01 -0.02	рош: пеш 0.43 -0.11 -0.17	-0.44 0.59 -0.31	-0.50 0.47 0.13	0.35 0.21 0.48	0.67 0.07 0.08	0.42 0.16 0.29	-0.03 -0.00 ratio.mail.only.	0.28 -0.06 -0.15	0.27 0.09 0.16	
prima.d	org.silo lonnas silence cloud	-0.0- 19.0- core.global.turnover	-0.40 core.mail.turnover	-0.68 -0.02 core.code.turnover	81.0-1 ratio.smelly.quitters	0.14 ratio.smelly.devs	-0.35 global.truck	04.0- 01.0-	80.0- 80.0- 80.0-	closeness.centr	petweenness centr. -0.13 0.23	-0.18 0.54	0.63 -0.01	pom:;mag;	-0.44 0.59	Articological Science	0.21 mail.only.core.devs	sode.only.core.devs	sxap:oog:core:dexs 0.42 0.16	-0.69 -0.03 -0.01 -0.56	0.28 -0.06 -0.15	0.27 0.09	

						Cor	nmu	\mathbf{nity}	\mathbf{sm}	ells:	Pea	arso	n's	cor	rela	tio	ո - ֈ	p-va	alue	es (Qt)						
		devs	ml.only.devs	code.only.devs	ml.code.devs		perc.code.only.devs)	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	وبيموا إمرام فيرمو	COI C. BIODAI. UCV S	core.mail.devs	core.code.devs	org.silo	prima donnas		radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover	code.turnover
org.		0.00	0.84	0.01	0.07).17	0.09	0.0			0.00		0.70				0.00	0.38	0.00	0.01	0.03
prima.don		0.88	0.84	0.35	0.39								0.79	0.31	0.73			0.57	0.70		- 0.8			0.93	0.39	0.65	0.38	0.22
radio.sile		0.23	0.10	0.76	0.34	0.46							0.27	0.18	0.2	-	_	0.33	0.20			_		0.11	0.72	0.09	0.93	0.66
black.cle		0.54	0.21	0.01	0.94	0.04).79	0.12	0.9			0.51	0.23					0.56	0.98	0.76	0.18	0.20
missing.li	inks	0.00	0.29	0.07	0.00	0.17	7 0.57	0.0	0.2	8 0.	86 0	.10 (0.01	0.15	0.0	0 0.	01 0	0.00	0.00	0.9	3 0.1	.1 0	0.56	-	1.00	0.01	0.03	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	global.mod	mail.mod	•	code.mod	density	mail.only.core.devs	code.only.core.devs	-	mi.code.co	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core	
		org.s							0.27	0.19	0.80	0.03				0.03	0.17	0.1			0.26	0.02					.39	
	prima	a.donn	as 0.	.85 0	.41 (0.95	0.59 (0.66	0.33	0.62	0.13	0.35	0.	47 0	.07	0.97	0.72	0.0)4 ()	0.13	0.51	0.83	0.6	3 O.	92 0.	.85 0	.79	

0.86

0.86

 $0.72 \quad 0.96$

 $0.87 \quad 0.13$

 $0.86 \quad 0.02$

0.60

0.32

 $0.48 \quad 0.41 \quad 0.58$

0.68

0.11 0.14 0.11 0.10 0.16

0.11

0.24

0.80

0.38

0.36

0.91

0.01

 $0.97 \quad 0.65$

 $0.07 \quad 0.28$

 $0.02 \quad 0.97$

0.62

0.77

0.06

radio.silence 0.40

black.cloud 0.36

missing.links 0.01

0.27

 $0.40 \quad 0.67$

 $0.10 \quad 0.00$

0.85

0.23

0.73

0.90

0.00

0.45

 $0.85 \quad 0.39$

0.92

0.72

0.12 0.18 0.31 0.47 0.04 0.78

 $0.24 \quad 0.70$

 $0.31 \quad 0.11$

Community smells: Spearman's correlation ($\mathbf{Q}\mathbf{t}$)

	devs	ml.only.devs	${\rm code.only.devs}$	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	
org.silo	0.76	-0.03	0.89	0.66	-0.75	0.46	0.40	0.36	0.20	-0.24	-0.62	0.53	0.69	0.39	0.83	-	0.00	0.31	0.40	0.91	-0.19	-0.84	-0.73	-0
prima.donnas	-0.06	0.06	-0.26	0.20	0.13	-0.39	0.32	-0.13	-0.13	0.03	0.06	-0.43	0.06	0.26	0.16	0.00	-	0.13	-0.15	-0.06	0.32	0.19	0.30	0.
radio.silence	0.26	0.49	-0.01	0.14	0.20	-0.17	0.16	-0.03	-0.04	-0.31	-0.24	0.29	0.37	0.46	0.25	0.31	0.13	-	0.00	0.42	-0.01	-0.13	0.00	0.
black.cloud	0.20	-0.40	0.50	0.00	-0.50	0.50	-0.20	0.10	0.10	0.41	0.10	0.51	0.00	-0.25	0.20	0.40	-0.15	0.00	-	0.20	0.00	0.00	-0.40	-0
missing.links	0.90	0.30	0.73	0.82	-0.56	0.17	0.60	0.27	0.08	-0.48	-0.72	0.53	0.84	0.62	0.90	0.91	-0.06	0.42	0.20	-	0.07	-0.80	-0.61	-0
		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		opoo	ml.code.core.d	ratio.mail.c	ratio.code.only.core		_	
	rg.silo	-0.70	eore.mail.turno	core.code.turno	-0.32	0.45	-0.29	-0.34	-0.10	closeness.	-0.20	-0.20	0.58	0.37	-0.30	-0.60	0.24 mail.only.core	code.only.core	7 0.43 ml.code.core.d	92.0- pratio.mail.only.	0.31	0.27	_	
prima.d	lonnas	-0.70 -0.15	-0.30 core.mail.turno	-0.74 -0.15	-0.32 0.22	0.45 0.13	-0.29 -0.39	-0.34 -0.13	-0.10 -0.45	-0.77 0.23	-0.20 0.32	-0.20 0.45	0.58 0.00	0.37 -0.13	-0.30 0.52	-0.60 0.32	0.24 0.16	ooo in	m.code.core.d	90.0- 90.00 ratio.mail.only	0.31	0.27	_	
prima.d radio.s	lonnas silence	-0.70 -0.15 -0.39	-0.34 -0.30 -0.47	-0.74 -0.15 -0.30	-0.32 0.22 -0.23	$0.45 \\ 0.13 \\ 0.85$	-0.29 -0.39 -0.20	-0.34 -0.13 0.01	-0.10 -0.45 -0.34	-0.77 0.23 0.00	-0.20 0.32 -0.10	-0.20 0.45 0.01	0.58 0.00 -0.06	0.37 -0.13 -0.24	-0.30 0.52 -0.21	-0.60 0.32 0.10	0.24 0.16 0.46	0.64 0.00 0.00 0.00 0.00	P. J. O. 43 J. O. 43 J. O. 0.07 J. O. 0.29	-0.76 -0.06 ratio.mail.only,	0.31 -0.19 -0.30	0.27 0.06 0.17	-	
prima.d radio.s	lonnas silence cloud	-0.70 -0.15	-0.30 core.mail.turno	-0.74 -0.15	-0.32 0.22	0.45 0.13	-0.29 -0.39	-0.34 -0.13	-0.10 -0.45	-0.77 0.23	-0.20 0.32	-0.20 0.45	0.58 0.00	0.37 -0.13	-0.30 0.52	-0.60 0.32	0.24 0.16 0.46 -0.40	9.003. 9.004 9.004 9.005 9	P. 2003: Pool of the control of the	90.0- 90.00 ratio.mail.only	0.31	0.27 0.06 0.17	_	

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

						C_{01}	1111	ıuııı	ப்த தட	11611	5. D	hea	11 111¢	an i	s co	1161	aur	,11 –	. h-	varu	ies (્યુ)						
		devs	ml.only.devs	code.only.devs		mi.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio enoncored	no roctro de como i	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	0.01	0.93	0.00	0.0	2 0.	01	0.13	0.20	0.25	0.5	3 0.	45 0	0.03	0.07	0.01	1 0.5	21 (0.00	-	1.00	0.3	3 0	.22 (0.00	0.56	0.00	0.02	0.01
prima.don	nas	0.84	0.84	0.42	0.5	4 0.	69	0.21	0.30	0.69	0.69	9 0.	92 0	0.84	0.17	0.84	1 0.4	41 (0.61	1.00	-	- 0.6	9 0	.66	0.84	0.30	0.55	0.37	0.37
radio.sile		0.42	0.10	0.97			53	0.59	0.62	0.93	0.90			0.44	0.36	0.23			0.44	0.33	0.69				0.18	0.99	0.68	1.00	0.75
black.cl		0.56	0.22	0.12			12	0.12	0.56	0.77	0.7').77	0.11	1.00			0.55	0.22					0.56	1.00	1.00	0.22	0.22
missing.li	inks	0.00	0.34	0.01	0.0	0 0.	06	0.59	0.04	0.39	0.85	2 0.	11 0	0.01	0.08	0.00	0.0)3 (0.00	0.00	0.84	0.1	8 0	.56		0.83	0.00	0.05	0.04
				core.global.turnover	core.mail.turnover	core.code.turnover	Thoms often	ratio	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr		betweenness.centr	degree.centr	global.mod	mail mod	шап	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.s	10 0.0		0.31	0.01	0.3					0.77	0.00			.54	0.05	0.24				0.46	0.03	0.17				.39	
	-	a.donn			0.37	0.66	0.5					0.14	0.47				1.00	0.69				0.61	1.00	0.84				.84	
		o.silen				0.37	0.5					0.29	1.00				0.85	0.46					0.80	0.36				.60	
		.ck.clo				0.77	0.3					0.37	0.11	1.0			0.12	0.37					0.29	0.66				.77	
	$_{ m miss}$	ing.lin	ks 0 .	.02 (0.36	0.00	0.5	0 - 0.1	16 0.	31 - 0	0.67	0.34	0.02	0.0	65 - 0	.78	0.03	0.09	9 0.1	14 0	0.08	0.21	0.18	0.01	. 0.0	01 - 0	.99 0	.07	