${\bf Socio-technical\ analysis\ result\ (\ Network Manager\)}$

| | | | | | | | 5001 | | | | arybic | | (| _ , _ | | T 1X1 V 1 | | -0 - | <u>/</u> | | | | | | | |
|---|--|--|--|--|---|--|---|---|--|--|--|---|---|--|--|--|---|---|--|--|--|---------------------|--|--|--|--|
| | 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 | org.silo | prima.donnas | radio.silence | black.cloud | missing.links | st conormence | | communicability | global.turnover | ${\rm code.turnover}$ |
| 1 | 2013-0 | 06 - 2013 | 09 81 | 57 | 16 | 8 | 0.7037 | 0.1975 | 0.0988 | 7 | 0.0864 | 1 | 0.0417 | 1 | 29 | 29 5 | 12 | 0 | 10 | 0 | 13 | 0.409 | 1 0 | .8542 | 0.0000 | 0.0000 |
| 2 | 2013-0 | 09 - 2013 | 11 51 | 29 | 13 | 9 | 0.5686 | 0.2549 | 0.1765 | 7 | 0.1373 | 0 | 0.0000 | 1 | 18 | 18 6 | 14 | . 0 | 0 | 0 | 17 | 0.3929 | 9 0 | .7906 | 0.9848 | 0.6087 |
| 3 | 2013-1 | 11 - 2014 | 03 69 | 43 | 18 | 8 | 0.6232 | 0.2609 | 0.1159 | 12 | 0.1739 | 0 | 0.0000 | 1 | 25 | 24 4 | 5 | 2 | 16 | 0 | 8 | 0.272' | 7 0 | .8601 | 0.5000 | 0.5417 |
| 4 | 2014-0 | 03 - 2014 | -05 44 | 27 | 8 | 9 | 0.6136 | 0.1818 | 0.2045 | 7 | 0.1591 | 0 | 0.0000 | 1 | 19 | 17 4 | 7 | 0 | 9 | 0 | 9 | 0.307' | 7 0 | .7104 | 0.9027 | 0.7907 |
| 5 | 2014-0 | 05 - 2014 | 08 75 | 45 | 22 | 8 | 0.6000 | 0.2933 | 0.1067 | 19 | 0.2533 | 1 | 0.0333 | 1 | 26 | 24 5 | 12 | 0 | 10 | 0 | 12 | 0.3684 | 4 0 | .8421 | 0.3866 | 0.3830 |
| 6 | 2014-0 | 08 - 2014 | 11 63 | 42 | 16 | 5 | 0.6667 | 0.2540 | 0.0794 | 5 | 0.0794 | 0 | 0.0000 | 1 | 21 | 20 5 | 8 | 0 | 2 | 0 | 10 | 0.4118 | 8 0 | .8515 | 0.7536 | 0.8235 |
| 7 | 2014-1 | 11 - 2015 | 02 61 | 42 | 11 | 8 | 0.6885 | 0.1803 | 0.1311 | 8 | 0.1311 | 1 | 0.0526 | 1 | 21 | 23 5 | 5 | 0 | 13 | 0 | 14 | 0.3333 | 3 0 | .8045 | 0.6774 | 0.6500 |
| 8 | 2015-0 | 02 - 2015 | 05 56 | 38 | 10 | 8 | 0.6786 | 0.1786 | 0.1429 | 8 | 0.1429 | 0 | 0.0000 | 1 | 21 | 20 6 | 13 | 0 | 16 | 0 | 17 | 0.2609 | 9 0 | .6981 | 0.8034 | 0.5405 |
| 9 | 2015-0 | 05 - 2015 | 08 45 | 27 | 11 | 7 | 0.6000 | 0.2444 | 0.1556 | 10 | 0.2222 | 0 | 0.0000 | 1 | 14 | 13 4 | 10 | 0 | 20 | 0 | 12 | 0.2500 | 0 0 | .7708 | 0.7921 | 0.3889 |
| 10 | 2015-0 | 08 - 2015 | 11 52 | 34 | 9 | 9 | 0.6538 | 0.1731 | 0.1731 | 12 | 0.2308 | 0 | 0.0000 | 1 | 17 | 17 4 | 1 | . 0 | 15 | 0 | 8 | 0.466' | 7 0 | .8741 | 0.5567 | 0.5000 |
| 11 | 2015-1 | 11 - 2016 | 02 53 | 38 | 8 | 7 | 0.7170 | 0.1509 | 0.1321 | 7 | 0.1321 | 0 | 0.0000 | 1 | 20 | 20 4 | 1 | . 0 | 2 | 0 | 5 | 0.6154 | 4 0 | .8872 | 0.5143 | 0.3636 |
| 12 | 2016 (| 2010 | | | | 4.0 | 0 00 50 | 0.1055 | 0.1055 | 1.4 | 0.04.00 | | | - 4 | ~~ | 22 | | | 10 | 0 | 10 | 0.000 | | | 0.5010 | 0.0077 |
| | | 02 - 2016 | 05 64 | 40 | 12 | 12 | 0.6250 | 0.1875 | 0.1875 | 14 | 0.2188 | 2 | 0.0833 | 1 | 22 | 22 6 | 6 | 0 | 19 | 0 | 16 | 0.3600 |) 0 | .7733 | 0.5812 | 0.3077 |
| | core.global.turnover | core.mail.turnover | core.code.turnover | 40 | ratio.smelly.quitters $\frac{1}{2}$ | 12 sveb vllems oiter | 1011111 | 4.01 d.ch | mail.truck | code.truck | closeness.centr | *+000 | mess.centr | degree.centr | 22 global.mod | | mail.mod | bom abox | | 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 |
| | 0000 core.global.turnover | 000000 core.mail.turnover | 00000 core.code.turnover | 0.00 | catio.smelly.quitters | 0.1975 | 5 0.642 | 400 0 0.555 | mail:truck | code.truck | closeness.centr | 0.5400 | 0 0.563 | 9 (| pom:legolg 0.0461 | 0.36 | G mail.mod | 0.0010 | 0. | 0361 | 5 mail.only.core.devs | core.devs | 4 ml.code.core.devs | ESS E ratio.mail.only.core | 2880.0 ratio.code.only.core | 0.1333 |
| 1 2 | 9808.0 0000.0 core.global.turnover | 000000 core.mail.turnover | 0.000.0 core.code.turnover | 0.00 | 8 00 ratio.smelly.quitters | 0.1975 0.1960 0.1961 | 5 0.642 1 0.647 | 0 0.553 1 0.526 | mail: truck mail: truck 0.792 33 0.722 | 27 code.truck | closeness: centr. | 0.5400 0.3420 | 0 0.563 6 0.404 | 9 (| pour: pour: | 0.36 0.41 | 8 5 mail.mod | 0.0010 0.0569 | 0. | fine density 0361 0557 | mail.only.core.devs | code.only.core.devs | ca & ml.code.core.devs | 0.8333 0.8842 ratio.mail.only.core | 0.0333 0.0526 0.0338 | 0.1333 0.2632 |
| 1 | 0.0000 core.global.turnover | 0.0000 0.8936 0.5238 | 0.000.0 0.000.0 core.code.turnover | 0.00 0.1! 0.10 | 000 8 000 ratio.smelly.quitters | 0.1975 0.1965 0.3043 | 5 0.642 1 0.647 3 0.637 | 0 0.553 1 0.526 7 0.529 | 700 Hariltan 100 H | 73 (code:truck | 0.0239 0.0290 0.0243 | 0.5400 0.3420 0.3478 | 0 0.563 6 0.404 8 0.511 | 9 (3 (1 (| pour-redolg 0.0461 0.0119 0.1263 | 0.36 0.41 0.28 | 75 38 33 | 0.0010 0.0569 -0.2533 | 0. 0. 0. 0. | And the second s | 5 mail.only.core.devs | code.only.core.devs | υ ca φ ml.code.core.devs | 0.8333 0.8420 0.8400 0.8400 | 0.0333 0.0526 0.0400 | 0.1333 0.2632 0.1200 |
| 1 2 | 0.0000 0.8085 0.5116 0.7727 | 0.0000 0.8936 0.5238 0.7805 | 00000 00000 00000 core.code.turnover | 0.00 0.18 0.10 0.22 | 000 ratio.smelly.quitters | 0.1975 0.1965 0.3044 0.3630 | 5 0.642 1 0.647 3 0.637 6 0.568 | 0 0.553 1 0.526 7 0.527 2 0.527 | Заплата 38 0.792 33 0.722 34 0.844 78 0.764 | code:trnck 73 (32 (37) | 20.0239 0.0290 0.0243 0.0852 | 0.5400 0.3420 0.3478 0.6459 | 0 0.563 6 0.404 8 0.511 9 0.672 | 9 (3 (1 (3 (| pour; radol 0.0461 0.0119 0.1263 0.0100 | 0.36 0.41 0.28 0.19 | pom.limod 75 38 39 | 0.0010 0.0569 -0.2533 0.0684 | 0. 0. 0. 0. | Approximate Approx | 25 13 21 14 | code.only.core.devs | υς υς το ml.code.core.devs | 0.8333 0.8842 ratio.mail.only.core | 0.0333 0.0526 0.0400 0.0556 | 0.1333 0.2632 0.1200 0.1667 |
| 1 2 | 0.0000 0.8085 0.5116 0.7727 0.4889 | 0.0000 0.8936 0.5238 0.7805 0.4878 | 0.0000 0.0000 0.0000 0.0000 0.0000 | 0.00 0.1! 0.10 0.2' 0.39 | 000 538 000 745 913 | 0.1978 0.3043 0.3636 0.2133 | 5 0.642 1 0.647 3 0.637 6 0.568 3 0.653 | 0 0.553 1 0.526 7 0.529 2 0.527 3 0.547 | 700 A 200 A | xy code:trnck 73 (32 (47 (47 (47 (47 (47 (47 (47 (47 (47 (47 | 0.0239 0.0243 0.0852 0.0227 | 0.5400 0.3420 0.3478 0.6459 0.4269 | 0 0.563 6 0.404 8 0.511 9 0.672 9 0.537 | 9 (3 (1 (3 (5 (| pour-redolar 0.0461 0.0119 0.1263 0.0100 0.0079 | 0.36 0.41 0.28 0.19 0.26 | pom:liem 75 38 33 39 | 0.0010 0.0569 -0.2533 0.0684 -0.3180 | 0. 0. 0. 0. 0. 0. | Arismap 0361 0557 0477 0719 0436 | mail.only.core.devs | code.only.core.devs | s s s s ml.code.core.devs | 0.8333 0.6842 0.7778 0.8077 | 0.0333 0.0526 0.0400 0.0556 0.0769 | 0.1333 0.2632 0.1200 0.1667 0.1154 |
| 1 2 3 4 | 0.0000 0.8085 0.5116 0.7727 0.4889 0.7234 | 0.0000 0.8936 0.5238 0.7805 0.4878 0.7273 | 0.0000 0.1818 0.4000 0.0000 0.0000 0.2000 | 0.00 0.18 0.10 0.27 0.39 0.17 | 000 538 000 745 731 731 | 0.1973 0.1963 0.3043 0.2133 0.1270 | 5 0.642 1 0.647 3 0.637 6 0.568 3 0.653 0 0.666 | 0 0.553 1 0.526 7 0.529 2 0.527 3 0.547 7 0.574 | 38 0.79: 33 0.72: 34 0.840: 72 0.83: 15 0.76: | 73 (32 (47 (47 (47 (47 (47 (47 (47 (47 (47 (47 | 0.0239 0.0290 0.0243 0.0852 0.0227 0.0276 | 0.5400 0.3420 0.3478 0.6459 0.4269 | 0 0.563 6 0.404 8 0.511 9 0.672 9 0.537 2 0.529 | 9 (3 (1 (3 (5 (4 (| Pour: Redolar 0.0461 0.0119 0.1263 0.0100 0.0079 0.0014 | 0.36 0.41 0.28 0.19 0.26 0.22 | pom: mail: mod 75 88 63 89 65 60 60 60 60 60 60 60 60 60 60 60 60 60 | 0.0010 0.0569 -0.2533 0.0684 -0.3180 -0.3006 | 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0 | 25:550-p 0361 0557 0477 0719 0436 0512 | 25 13 21 14 | code.only.core.devs | ml.code.core.devs | 0.8333 0.842 0.8400 0.7778 0.8077 0.7619 | 0.0333 0.0526 0.0400 0.0556 0.0769 0.0476 | 0.1333 0.2632 0.1200 0.1667 0.1154 0.1905 |
| 1 2 3 4 | 0.0000 0.8085 0.5116 0.7727 0.4889 0.7234 0.4762 | 0.0000 0.8936 0.5238 0.7805 0.4878 0.7273 0.4651 | 0.0000 0.1818 0.4000 0.0000 0.2000 0.2000 | 0.00 0.18 0.10 0.27 0.39 0.17 0.00 | 000 538 000 745 714 714 | 0.1973 0.1963 0.3043 0.2133 0.1270 0.2623 | 5 0.642 1 0.647 3 0.637 6 0.568 3 0.653 0 0.666 3 0.655 | 0 0.553 1 0.526 7 0.529 2 0.527 3 0.547 7 0.546 | Section 12 12 12 13 14 15 15 16 16 16 16 16 16 | 73 (33 (34) (4) (4) (4) (4) (4) (4) (4) (4) (4) (| 0.0239 0.0290 0.0243 0.0852 0.0227 0.0276 0.0347 | 0.5400 0.3420 0.3478 0.6459 0.4269 0.4092 | 0 0.563 6 0.404 8 0.511 9 0.672 9 0.537 2 0.529 8 0.572 | 9 (3 (1 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 | pour: legolo 0.0461 0.0119 0.1263 0.0100 0.0079 0.0014 0.1548 | 0.36 0.41 0.28 0.19 0.26 0.22 0.37 | Pom: lieum 75 888 833 955 500 933 | 0.0010 0.0569 -0.2533 0.0684 -0.3180 -0.3006 0.1272 | 0 0. 0 0. 0 0. 0 0. 0 0. 0 0. | Ajsuap 0361 0557 0477 0719 0436 0512 0612 | 25 13 21 14 21 | code.only.core.devs | ml.code.core.devs | 0.8333 0.6842 0.8400 0.7778 0.8077 0.7619 0.7826 | 0.0333 0.0526 0.0400 0.0556 0.0476 0.0476 0.0000 | 0.1333 0.2632 0.1200 0.1667 0.1154 0.1905 0.2174 |
| 1 2 3 4 | 0.0000 0.8085 0.5116 0.7727 0.4889 0.7234 0.4762 0.5714 | 0.0000 0.8936 0.5238 0.7805 0.4878 0.7273 0.4651 0.6977 | 0.0000 0.1818 0.4000 0.0000 0.2000 0.2000 0.1818 | 0.00 0.18 0.10 0.22 0.39 0.17 0.07 0.17 | 000 538 000 745 731 714 702 | 0.1973 0.1963 0.3043 0.2133 0.1270 0.2623 0.410 | 5 0.642 1 0.647 3 0.653 6 0.668 3 0.653 7 0.625 | 0 0.553 1 0.526 7 0.527 3 0.547 7 0.574 7 0.540 0 0.565 | 70n 11: 88 0.79: 63 0.72: 64 0.84: 68 0.76: 72 0.83: 65 0.76: 60 0.73: 62 0.66: | 73 (33 (33 (43 (43 (44 (44 (44 (44 (44 (4 | 0.0239 0.0239 0.0290 0.0243 0.0852 0.0227 0.0276 0.0347 0.0535 | 0.5400 0.3420 0.3478 0.6459 0.4269 0.4588 0.5930 | 0 0.563 6 0.404 8 0.511 9 0.672 9 0.537 2 0.529 8 0.572 6 0.683 | 9 (3 (1 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 | pour: ledol of the policy of t | 0.36 0.41 0.28 0.19 0.26 0.22 0.37 0.24 | Pour: lieum 75 888 833 99 555 900 93 79 | 0.0010 0.0569 -0.2533 0.0684 -0.3180 -0.3006 0.1272 0.0056 | 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0 | Attemp 0361 0557 0477 0719 0436 0512 0612 0617 | 25 13 21 14 21 16 | code.only.core.devs | solution and a second and a second a se | 0.8333 0.6842 0.8400 0.7778 0.8077 0.7619 0.7826 0.7391 | 0.0333 0.0526 0.0400 0.0556 0.0769 0.0476 0.0000 0.1304 | 0.1333 0.2632 0.1200 0.1667 0.1154 0.1905 0.2174 0.1304 |
| 1 2 3 4 5 6 7 | 0.0000 0.8085 0.5116 0.7727 0.4889 0.7234 0.4762 0.5714 0.6857 | 0.0000 0.8936 0.5238 0.7805 0.4878 0.7273 0.4651 0.6977 0.8485 | 0.0000 0.1818 0.4000 0.0000 0.2000 0.1818 0.4000 | 0.00 0.18 0.10 0.27 0.39 0.17 0.07 0.13 | 000 538 000 745 913 731 702 500 | 0.1975 0.196 0.3045 0.2135 0.1270 0.2625 0.4107 0.5117 | 5 0.642 1 0.647 3 0.637 6 0.568 3 0.653 0 0.665 7 0.625 1 0.688 | 0 0.553 1 0.526 7 0.527 2 0.547 7 0.574 7 0.546 0 0.565 9 0.617 | 70n.tj: 100 0.792 101 0.846 102 0.833 103 0.762 104 0.846 105 0.763 105 0.763 106 0.773 107 0.666 107 0.775 | 73 (operations) (o | 0.0239 0.0239 0.0290 0.0243 0.0852 0.0227 0.0276 0.0347 0.0535 0.0457 | 0.5400 0.3420 0.3478 0.6459 0.4269 0.4588 0.5930 0.4250 | 0 0.563 6 0.404 8 0.511 9 0.672 9 0.537 2 0.529 8 0.572 6 0.683 0 0.601 | 9 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 | pour. required to the control of the | 0.36 0.41 0.28 0.19 0.26 0.22 0.37 0.24 0.19 | Pour line 1775 888 33 39 555 600 603 779 | 0.0010 0.0569 -0.2533 0.0684 -0.3180 -0.3006 0.1272 0.0056 | 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0 | Aisuap 0361 0557 0477 0719 0436 0512 0612 0617 0808 | 25 13 21 14 21 16 18 | code.only.core.devs | sop:ecore:core.core.devs 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0.8333 0.6842 0.8400 0.7778 0.8077 0.7619 0.7826 0.7391 0.7333 | 0.0333 0.0526 0.0400 0.0556 0.0769 0.0476 0.0000 0.1304 0.1333 | 0.1333 0.2632 0.1200 0.1667 0.1154 0.1905 0.2174 0.1304 0.1333 |
| 1 2 3 4 5 6 7 8 | 0.0000 0.8085 0.5116 0.7727 0.4889 0.7234 0.4762 0.5714 0.6857 0.4516 | 0.0000 0.8936 0.5238 0.7805 0.4878 0.7273 0.4651 0.6977 0.8485 0.4667 | 0.0000 0.1818 0.4000 0.0000 0.2000 0.2000 0.1818 0.4000 0.2500 | 0.00 0.18 0.10 0.27 0.39 0.17 0.07 0.18 0.48 | 000 538 000 745 913 731 714 702 500 815 | 0.197; 0.196; 0.304; 0.363; 0.213; 0.127; 0.262; 0.410; 0.511; 0.365; | 5 0.642 1 0.647 3 0.637 6 0.668 3 0.655 7 0.625 1 0.688 4 0.673 | 0 0.553 1 0.526 7 0.529 2 0.547 7 0.546 0 0.565 9 0.617 1 0.604 | 75 2 0.666 676 0.777 14 0.777 | 73 (operations) (o | 0.0239 0.0290 0.0243 0.0852 0.0227 0.0347 0.0535 0.0457 0.0414 | 0.5400 0.3420 0.3478 0.6459 0.4269 0.4588 0.5930 0.4250 0.332 | 0 0.563 6 0.404 8 0.511 9 0.672 9 0.537 2 0.529 8 0.572 6 0.683 0 0.601 7 0.526 | 9 (3 3 (4 1 (3 5 (4 4 (4 8 (4 4 (4 4 (4 | pour redols 0.0461 0.0119 0.1263 0.0079 0.0014 0.1548 0.0085 0.0089 0.0161 | 0.36 0.41 0.28 0.19 0.26 0.22 0.37 0.24 0.19 0.24 | Pour line 175 75 75 75 75 75 75 75 | 0.0010 0.0569 -0.2533 0.0684 -0.3180 -0.3006 0.1272 0.0056 -0.2270 -0.2178 | 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0 | Aisuap 0361 0557 0477 0719 0436 0512 0612 0617 0808 0814 | 25 13 21 14 21 16 18 17 | 1 | sop:ecore:core.core.devs 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0.8333 0.6842 0.8400 0.7778 0.8077 0.7619 0.7826 0.7391 | 0.0333 0.0526 0.0400 0.0556 0.0769 0.0476 0.0000 0.1304 0.1333 0.0000 | 0.1333 0.2632 0.1200 0.1667 0.1154 0.1905 0.2174 0.1304 0.1333 0.2353 |
| 1 2 3 4 5 6 7 8 9 | 0.0000 0.8085 0.5116 0.7727 0.4889 0.7234 0.4762 0.5714 0.6857 | 0.0000 0.8936 0.5238 0.7805 0.4878 0.7273 0.4651 0.6977 0.8485 | 0.0000 0.1818 0.4000 0.0000 0.2000 0.1818 0.4000 | 0.00 0.18 0.10 0.27 0.39 0.17 0.07 0.13 | 000 538 000 745 913 731 714 702 500 815 815 | 0.1975 0.196 0.3045 0.2135 0.1270 0.2625 0.4107 0.5117 | 5 0.642 1 0.647 3 0.637 6 0.568 3 0.653 0 0.666 3 0.655 7 0.625 1 0.688 4 0.673 9 0.622 | 0 0.553 1 0.526 7 0.529 2 0.527 7 0.540 0 0.565 9 0.617 1 0.604 6 0.555 | 30 179 188 0.79 188 0.79 189 | 73 (ode:trnck 73 (ode:trnck 74 (ode:trnck 75 (ode:trnck 76 (ode:trnck 77 (ode:trnck 78 | 0.0239 0.0290 0.0243 0.0852 0.0227 0.0276 0.0347 0.0535 0.0457 0.0414 0.0455 | 0.5400 0.3420 0.3478 0.6459 0.4269 0.4588 0.5930 0.4250 | 0 0.563 6 0.404 8 0.511 9 0.672 9 0.537 2 0.528 8 0.572 6 0.683 0 0.601 7 0.526 4 0.525 | 9 (3 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 | pour. required to the control of the | 0.36 0.41 0.28 0.19 0.26 0.22 0.37 0.24 0.19 0.24 0.39 | pour:line 175 75 88 83 33 95 95 93 93 95 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97 | 0.0010 0.0569 -0.2533 0.0684 -0.3180 -0.3006 0.1272 0.0056 | 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0 | Aisuap 0361 0557 0477 0719 0436 0512 0612 0617 0808 | 25 13 21 14 21 16 18 17 11 | 1 | sop:-code:core.devs 4 5 3 3 3 4 5 3 2 4 4 4 | 0.8333 0.6842 0.8400 0.7778 0.8077 0.7619 0.7826 0.7391 0.7333 | 0.0333 0.0526 0.0400 0.0556 0.0769 0.0476 0.0000 0.1304 0.1333 | 0.1333 0.2632 0.1200 0.1667 0.1154 0.1905 0.2174 0.1304 0.1333 |

Community smells: Pearson's correlation (NetworkManager)

| | 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 | $_{ m global.turnover}$ | code.turnover |
|--------------------|--|------------------------------|-----------------------------|-----------------------------|-------------------------------|------------------------|-------------------|---------------------|-----------------|---------------------|-------------------------|--------|--------------------------|--|-------------------------------------|-------------------------------------|---|----------------------------|----------------|-------------------|--------------------------------------|--|-------------------------|---------------|
| org.silo | 0.22 | 0.09 | 0.42 | -0.06 | -0.39 | 0.52 | -0.14 | -0.01 | -0.14 | 0.06 | 0.01 | - | 0.22 | 0.13 | 0.60 | - | -0.20 | -0.09 | - | 0.72 | -0.48 | -0.46 | 0.49 | 0.11 |
| prima.donnas | | 0.17 | 0.37 | -0.03 | -0.15 | 0.33 | -0.21 | 0.19 | 0.06 | -0.20 | -0.20 | - | 0.30 | 0.26 | -0.31 | -0.20 | - | 0.23 | - | -0.31 | -0.30 | 0.25 | | 0.01 |
| radio.silence | 0.03 | -0.01 | -0.06 | 0.41 | -0.10 | -0.10 | 0.24 | 0.48 | 0.58 | 0.32 | 0.33 | - | -0.06 | -0.06 | -0.08 | -0.09 | 0.23 | - | - | 0.19 | -0.61 | -0.31 | -0.25 | -0.43 |
| black.cloud | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| missing.links | 0.12 | 0.03 | 0.11 | 0.39 | 0.28 | 0.14 | 0.17 | 0.04 | -0.03 | 0.49 | 0.44 | | 0.06 | 0.11 | 0.89 | 0.72 | -0.31 | 0.19 | _ | _ | -0.49 | -0.58 | 0.44 | -0.04 |
| | 0.12 | 0.00 | 0.11 | 0.59 | -0.28 | 0.14 | 0.17 | 0.04 | -0.05 | 0.43 | 0.44 | | 0.00 | 0.11 | 0.03 | 0.12 | -0.51 | 0.13 | | | -0.43 | -0.50 | 0.44 | -0.04 |
| | 0.12 | 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 | - | | global.mod | mail.mod | code.mod | density mail only core days | code.only.core.devs | , | ml.code.core.devs | ratio.mail.only.core | ratio.code.only.core | ratio.ml.code.core | -0.04 |
| | org.silo | 19.0 core.global.turnover | 69.0 core.mail.turnover | core.code.turnover | 26.0-25 ratio.smelly.quitters | 10.0 ratio.smelly.devs | 50.0 global.truck | -0.19 mail.truck | -0.13 | closeness.centr | 0.32 betweenness.centr. | 0.0 | | global.mod | pom: liem 02 0.: | pome.mod | 88 density 100 mail only core days | code.only.core.devs | -0 | ml.code.core.devs | 05.0 ratio.mail.only.core | 69.0 ratio.code.only.core | 85 ratio.ml.code.core | -0.04 |
| prima.c | rg.silo lonnas | -0.15 core.global.turnover | -0.17 core.mail.turnover | -0.29 core.code.turnover | satio.smelly.quitters | ratio.smelly.devs | 0.02 -0.07 | -0.19 mail.truck | -0.13 0.54 | closeness.centr | 0.32 -0.32 | 0.0 | 0 -0.3 1 0.4 | pom: po | рош; шш 02 0.: 05 -0.: | pom-spoo 33 -0. 22 -0. | \$\text{A consists} \text{ from the date date of the consists} from the consists of the | code.only.core.devs | -0 -0 | ml.code.core.devs | 8F.0 ratio.mail.only.core | 69.0 69.0 70.0code.only.core | -0.33 -0.34 | -0.04 |
| prima.c prima.c | org.silo lonnas silence | 19.0 core.global.turnover | 69.0 core.mail.turnover | core.code.turnover | 26.0-25 ratio.smelly.quitters | 10.0 ratio.smelly.devs | 50.0 global.truck | -0.19 mail.truck | -0.13 | closeness.centr | 0.32 betweenness.centr. | 0.0 | 0 -0.3 1 0.4 | pom: po | рош; шш 02 0.: 05 -0.: | pom-spoo 33 -0. 22 -0. | 88 density 100 mail only core days | code.only.core.devs | -0 -0 | ml.code.core.devs | 05.0 ratio.mail.only.core | 69.0 69.0 70.0 69.0 70.0 70.0 70.0 | 85 ratio.ml.code.core | -0.04 |
| prima.c prima.c | org.silo lonnas silence cloud | -0.15 core.global.turnover | -0.17 core.mail.turnover | -0.29 core.code.turnover | satio.smelly.quitters | ratio.smelly.devs | 0.02 -0.07 | -0.19 mail.truck | -0.13 0.54 | closeness.centr | 0.32 -0.32 | 0.0 | 0 -0.3 1 0.4 8 0.4 | рош :ваоры 30 -0.0 47 -0.0 | рош:)2 0.:)5 -0.: 35 -0. | で の 33 -0. 22 -0. 11 0. | Angle of the line | 9 0.75 3 0.00 0 0.18 | -0 -0 -0 | ml.code.core.devs | 0.00 0.00 0.00 0.00 0.00 | 69.0 69.0 70.0code.only.core | -0.33 -0.34 | -0.04 |

| Community smells: Pearson's correlation - p-values (NetworkManager) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------|---------|---------------------|----------------|--------------|-----------------------|---------------------------|-------------------|----------------|-----------------|---------------------|----------------------|--------|------------------|----------------|----------|----------------|----------|---------------------|---------------|-------------|--------------------|-----------------------------------|--------------------|---------------|
| | | 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 | IIIISSIIIB. IIIIKS | st. congruence communicability | global.turnover | code.turnover |
| org | g.silo | 0.50 | 0.78 | 0.17 | 0.86 | 0.21 | 0.08 | 0.66 | 0.97 | 0.67 | 0.86 | 0.98 | - | 0.50 | 0.69 | | | | | 0.77 | - 0.0 | | | | 0.74 |
| prima.do | | 0.42 | 0.61 | 0.23 | 0.92 | 0.65 | 0.29 | 0.50 | 0.56 | 0.86 | 0.54 | 0.54 | - | 0.34 | 0.42 | | | | | 0.47 | - 0.3 | | | | 0.98 |
| radio.si | | 0.93 | 0.97 | 0.85 | 0.19 | 0.76 | 0.75 | 0.45 | 0.12 | 0.05 | 0.31 | 0.30 | - | 0.86 | 0.86 | 0.8 | 0 0.7 | 7 0. | 47 | - | - 0.5 | 4 0.0 | 4 0.33 | 0.47 | 0.19 |
| black.c | | | - | | - 0.01 | - | - | - 0.50 | - | - | - 0.10 | 0.15 | - | - | | 0.0 | - | - | - | - | - | - 0.1 | | 0.10 | - |
| missing. | .lınks | 0.71 | 0.92 | 0.74 | 0.21 | 0.38 | 0.67 | 0.59 | 0.90 | 0.94 | 0.16 | 0.15 | _ | 0.86 | 0.73 | 0.0 | 0.0 | 01 0. | 33 | 0.54 | | - 0.1 | 1 0.05 | 0.18 | 0.90 |
| | | | core.global.turnove | | | ratio.smelly.quitters | ${\rm ratio.smelly.devs}$ | global.truck | mail.truck | code.truck | closeness.centr | | - | degree.centr | global.mod | mail.mod | code.mod | density | mail only core devs | | | ratio.mg | ratio.code | ratio.ml.code.core | |
| | | rg.silo | 0.04 | 0.02 | 0.39 | 0.35 | 0.97 | 0.96 | 0.56 | 0.68 | 0.60 | 0.31 | 0.9 | | | 0.96 | 0.29 | 0.12 | 0.56 | | | | | 0.29 | |
| | orima.d | | 0.66 | 0.63 | 0.12 | 0.34 | 0.94 | 0.82 | 0.30 | 0.07 | 0.40 | 0.31 | 0.5 | | | 0.89 | 0.50 | 0.40 | 0.29 | | - | | | 0.28 | |
| | radio.s | | 0.34 | 0.63 | 0.28 | 0.69 | 0.00 | 0.40 | 0.12 | 0.64 | 0.75 | 0.49 | 0.0 | J5 (). | .17 0 | 0.26 | 0.73 | 0.49 | 1.00 | 0.57 | 7 0.50 | 0.89 | 0.46 | 0.47 | |
| | DIACK | .cloud | - | - | _ | - | - | - | - | - | - | - | | - | - | - | - | - | | | - | | - | - | |

 $missing.links \quad 0.36 \quad 0.23 \quad 0.61 \quad 0.05 \quad 0.43 \quad 0.58 \quad 0.85 \quad 0.14 \quad 0.61 \quad 0.31 \quad 0.63 \quad 0.61 \quad 0.39 \quad 0.14 \quad 0.34 \quad 0.95 \quad 0.24 \quad 0.27 \quad 0.05 \quad 0.29 \quad 0.54$

nl.code.devs oerc.ml.only.devs perc.ml.only.devs sponsored.devs atio.sponsored.core.devs rg.silo rima.donnas adio.silence oerc.ml.onde.devs atio.sponsored.core.devs atio.sponsored.core.devs ratio.sponsored.core.devs adio.silence oerc.ml.onde.devs adio.silence mmunicability de.only.devs issing.links congruence only.devs ack.cloud

| | devs | m ml.only.devs | code.only.devs | ml.code.devs | perc.ml.only.de | perc.code.only. | perc.ml.code.do | sponsored.devs | ratio.sponsored | sponsored.core | ratio.sponsored | num.tz | core.global.dev | core.mail.devs | core.code.devs | | prima.donnas | radio silen <i>c</i> e | clou | missing.links | st.congruence | communicabili | global.turnover | code.turnover |
|---------------|--------|----------------------|--------------------|--------------------|-----------------------|-------------------|-----------------|----------------|-----------------|-----------------|-------------------|--------|-----------------|----------------|----------------|----------|--------------|------------------------|---------------------|-------------------|----------------------|----------------------|--------------------|---------------|
| org.silo | 0.07 | 0.02 | 0.40 | 0.01 | -0.40 | 0.50 | -0.07 | -0.17 | -0.09 | 0.04 | -0.01 | - | 0.15 | 0.05 | 0.63 | - | -0.26 | -0.14 | | 0.72 | -0.30 | -0.57 | 0.55 | 0.18 |
| prima.donnas | 0.31 | 0.31 | 0.40 | -0.05 | -0.13 | 0.39 | -0.22 | 0.27 | 0.13 | -0.21 | -0.21 | - | 0.31 | 0.35 | | | - | 0.26 | - | -0.35 | -0.31 | 0.31 | -0.40 | 0.10 |
| radio.silence | 0.11 | -0.02 | 0.01 | 0.12 | -0.08 | -0.06 | 0.17 | 0.70 | 0.54 | 0.22 | 0.23 | - | 0.04 | 0.00 | -0.07 | -0.14 | 0.26 | - | - | 0.14 | -0.64 | -0.29 | -0.18 | -0.43 |
| black.cloud | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| missing.links | 0.10 | 0.02 | 0.21 | 0.31 | -0.17 | 0.16 | 0.16 | 0.03 | -0.14 | 0.41 | 0.42 | - | 0.15 | 0.13 | 0.89 | 0.72 | -0.35 | 0.14 | - | | -0.35 | -0.66 | 0.54 | 0.04 |
| | | core.global.turnoven | 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 | |
| | g.silo | 0.75 | 0.77 | -0.57 | -0.16 | -0.05 | -0.07 | -0.21 | -0.16 | -0.18 | 0.32 | | | | -0.04 | | | | 0.77 | -0.18 | -0.34 | 0.72 | -0.30 | |
| prima.do | | 0.00 | 0.00 | 0.46 | -0.30 | 0.04 | -0.22 | -0.31 | 0.48 | -0.31 | -0.31 | -0. | | 0.39 | | | | | 0.05 | -0.27 | 0.48 | -0.04 | -0.39 | |
| radio.si | | -0.24 | -0.07 | 0.44 | -0.20 | 0.88 | 0.37 | 0.54 | 0.26 | 0.22 | 0.19 | 0. | 48 | 0.39 | -0.31 | -0.07 | 0.24 | 0.01 | 0.15 | -0.30 | -0.09 | 0.10 | -0.20 | |
| black.o | | - | - | - | _ | - | - | _ | - | - | - | _ | - | - | - | - | - | - | - | - | - | - | - | |
| missing. | .links | 0.39 | 0.38 | -0.47 | -0.58 | 0.20 | 0.11 | -0.10 | -0.48 | -0.05 | 0.39 | 0. | 39 (| 0.17 | 0.28 | 0.33 | -0.25 | 0.07 | 0.30 | 0.32 | -0.55 | 0.26 | 0.17 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

| Community smells: Spearman's correlation - p-values (NetworkManager) | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------|---------|---------------------|----------------|--------------------|----------------------|---------------------------|-------------------|----------------|-----------------|---------------------|----------------------|---------------|------------------|----------------|----------|----------------|-------------|---------------------|---------------------|--------|----------------------|----------------------|--------------------|---------------|
| | | 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 | | st.congruence | communicability | global.turnover | code.turnover |
| | rg.silo | 0.84 | 0.96 | 0.20 | 0.99 | 0.20 | 0.10 | 0.82 | 0.60 | 0.78 | 0.89 | 0.98 | | 0.65 | 0.88 | 0.0 | | - 0.4 | | 66 - | - 0.01 | 0.35 | 0.05 | 0.08 | 0.60 |
| prima.d | | 0.33 | 0.33 | 0.20 | 0.89 | 0.68 | 0.21 | 0.50 | 0.40 | 0.68 | 0.51 | 0.52 | - | 0.33 | 0.26 | 0.3 | | | - 0. | 41 - | - 0.26 | 0.33 | 0.33 | 0.22 | 0.77 |
| radio.s | | 0.74 | 0.95 | 0.99 | 0.72 | 0.82 | 0.85 | 0.59 | 0.01 | 0.07 | 0.50 | 0.48 | - | 0.90 | 0.99 | 0.8 | 4 0.6 | 66 0.4 | 41 | | - 0.67 | 0.02 | 0.36 | 0.60 | 0.19 |
| black missing | cloud | 0.76 | 0.94 | 0.50 | 0.33 | 0.61 | 0.62 | 0.62 | 0.92 | 0.66 | 0.10 | 0.17 | - | 0.64 | 0.69 | 0.0 | - 0 00 | -)1 0.: | - 26 0 | 67 | | 0.26 | 0.02 | 0.09 | 0.00 |
| <u></u> | g.miks | 0.70 | | 0.50 | 0.55 | 0.01 | 0.02 | 0.02 | 0.92 | 0.66 | 0.19 | 0.17 | | 0.04 | 0.09 | 0.0 | 0.0 |)1 0 | 20 0. | 07 | | 0.26 | | 0.09 | 0.90 |
| _ | | | core.global.turnove | | core.code.turnover | ratio.smelly.quitter | ${\rm ratio.smelly.devs}$ | global.truck | mail.truck | code.truck | closeness.centr | betweenness.centr | dogrado contr | aargan | global.mod | mail.mod | code.mod | density | mail.only.core.devs | code.only.core.devs | | ratio.mail.only.core | ratio.code.only.core | ratio.ml.code.core | |
| | | rg.silo | 0.01 | 0.01 | 0.07 | 0.64 | 0.87 | 0.84 | 0.51 | 0.63 | 0.58 | 0.31 | 0.5 | | | .91 | 0.72 | 0.19 | 0.83 | 0.00 | 0.57 | 0.28 | 0.01 | 0.34 | |
| | prima.d | | 1.00 | 1.00 | 0.16 | 0.37 | 0.89 | 0.50 | 0.33 | 0.11 | 0.33 | 0.33 | 0.2 | | | | 0.68 | 0.33 | 0.26 | 0.89 | 0.39 | 0.11 | 0.89 | 0.21 | |
| | radio.s | mence | 0.47 | 0.83 | 0.18 | 0.55 | 0.00 | 0.24 | 0.07 | 0.41 | 0.50 | 0.55 | 0.1 | ı 0. | 21 0 | .33 | 0.82 | 0.45 | 0.97 | 0.65 | 0.35 | 0.77 | 0.76 | 0.54 | |

 $missing.links \quad 0.23 \quad 0.24 \quad 0.14 \quad 0.06 \quad 0.54 \quad 0.74 \quad 0.76 \quad 0.12 \quad 0.88 \quad 0.21 \quad 0.21 \quad 0.59 \quad 0.37 \quad 0.29 \quad 0.43 \quad 0.83 \quad 0.34 \quad 0.31 \quad 0.06 \quad 0.41 \quad 0.60 \quad 0.40 \quad 0.40 \quad 0.40 \quad 0.40 \quad 0.40$

black.cloud