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LAMPIRAN

Lampiran 1

BIODATA

Identitas Diri

Nama : Dwi Hastina
Tempat, Tanggal Lahir : Barru, 18 Mei 2002
Jenis Kelamin : Perempuan
Alamat Rumah : Jl. Sultan Hasanuddin, Kab. Barru
Nomor Telepon : 082349274156
Alamat E-mail : hastinahamzah16@gmail.com

Riwayat Pendidikan

Pendidikan Formal

- a. Tahun 2007-2008 : TK. Citra Amaro
- b. Tahun 2008-2014 : SDN 23 Barru
- c. Tahun 2014-2017 : SMP Negeri 1 Barru
- d. Tahun 2017-2020 : SMA Negeri 1 Barru

Pendidikan Non-Formal

- a. Tahun 2020 : Pelatihan *Basic Character Learning Skills, Characters, and Creativity* (BALANCE) Universitas Hasanuddin.
- b. Tahun 2022 : Pelatihan Brevet Pajak A dan B Departemen Akuntansi, Fakultas Ekonomi dan Bisnis, Universitas Hasanuddin.

Demikian biodata ini dibuat dengan sebenarnya.

Makassar, 5 Desember 2023

Dwi Hastina

Lampiran 2 Data Variabel Penelitian

Data Tax Avoidance

| No. | Kode Saham | Year | Beban Pajak | Laba sebelum Pajak | Y |
|-----|------------|------|-------------|--------------------|---------|
| 1. | AGII | 2020 | 3.683 | 96.179 | 0,03829 |
| | | 2021 | 64.413 | 275.898 | 0,23347 |
| | | 2022 | 34.954 | 138.850 | 0,25174 |
| 2. | ARNA | 2020 | 94.385 | 420.626 | 0,22439 |
| | | 2021 | 133.670 | 609.654 | 0,21926 |
| | | 2022 | 164.539 | 746.096 | 0,22053 |
| 3. | ASII | 2020 | 3.170 | 21.741 | 0,14581 |
| | | 2021 | 6.764 | 32.350 | 0,20909 |
| | | 2022 | 9.970 | 50.390 | 0,19786 |
| 4. | CAMP | 2020 | 12.771 | 56.816 | 0,22478 |
| | | 2021 | 26.090 | 126.157 | 0,20681 |
| | | 2022 | 32.657 | 153.914 | 0,21218 |
| 5. | CEKA | 2020 | 51.052 | 232.322 | 0,21975 |
| | | 2021 | 49.268 | 236.335 | 0,20847 |
| | | 2022 | 62.445 | 283.149 | 0,22054 |
| 6. | CLEO | 2020 | 35.841 | 168.614 | 0,21256 |
| | | 2021 | 49.270 | 229.982 | 0,21423 |
| | | 2022 | 53.265 | 248.864 | 0,21403 |
| 7. | CPIN | 2020 | 921.865 | 4.767.698 | 0,19336 |
| | | 2021 | 1.014.536 | 4.633.546 | 0,21895 |
| | | 2022 | 606.823 | 3.537.180 | 0,17156 |
| 8. | DLTA | 2020 | 41.239 | 164.704 | 0,25038 |
| | | 2021 | 52.873 | 240.866 | 0,21951 |
| | | 2022 | 64.146 | 295.650 | 0,21697 |
| 9. | DMND | 2020 | 61.657 | 267.246 | 0,23071 |
| | | 2021 | 98.452 | 449.922 | 0,21882 |
| | | 2022 | 116.670 | 498.775 | 0,23391 |
| 10. | DPNS | 2020 | 2.060.314 | 4.461.029 | 0,46185 |
| | | 2021 | 5.463.232 | 28.186.888 | 0,19382 |

| | | | | | |
|-----|------|------|-------------|-------------|---------|
| | | 2022 | 7.123.631 | 34.552.481 | 0,20617 |
| 11. | DVLA | 2020 | 51.996 | 214.069 | 0,24289 |
| | | 2021 | 65.068 | 211.794 | 0,30722 |
| | | 2022 | 51.698 | 201.073 | 0,25711 |
| 12. | EKAD | 2020 | 27.594 | 123.523 | 0,22339 |
| | | 2021 | 29.230 | 137.720 | 0,21224 |
| | | 2022 | 19.832 | 97.911 | 0,20255 |
| 13. | FASW | 2020 | 9.507 | 362.807 | 0,02620 |
| | | 2021 | 221.939 | 836.865 | 0,26520 |
| | | 2022 | 48.674 | 168.600 | 0,28870 |
| 14. | GGRM | 2020 | 2.015.404 | 9.663.133 | 0,20857 |
| | | 2021 | 1.681.525 | 7.286.846 | 0,23076 |
| | | 2022 | 866.779 | 3.646.521 | 0,23770 |
| 15. | GOOD | 2020 | 94.881 | 339.985 | 0,27907 |
| | | 2021 | 140.017 | 632.655 | 0,22132 |
| | | 2022 | 152.537 | 674.251 | 0,22623 |
| 16. | HMSP | 2020 | 2.580.088 | 11.161.466 | 0,23116 |
| | | 2021 | 2.015.069 | 9.152.166 | 0,22017 |
| | | 2022 | 1.949.315 | 8.273.059 | 0,23562 |
| 17. | HOKI | 2020 | 12.836.262 | 50.874.682 | 0,25231 |
| | | 2021 | 5.464.655 | 17.997.743 | 0,30363 |
| | | 2022 | 571.408.608 | 661.981.085 | 0,86318 |
| 18. | ICBP | 2020 | 2.540.073 | 9.958.647 | 0,25506 |
| | | 2021 | 2.034.950 | 9.935.232 | 0,20482 |
| | | 2022 | 1.803.191 | 7.525.385 | 0,23961 |
| 19. | IGAR | 2020 | 22.396.076 | 83.166.786 | 0,26929 |
| | | 2021 | 31.914.697 | 135.948.997 | 0,23475 |
| | | 2022 | 31.064.913 | 133.379.288 | 0,23291 |
| 20. | INCI | 2020 | 8.322.378 | 38.393.759 | 0,21676 |
| | | 2021 | 2.751.815 | 13.788.739 | 0,19957 |
| | | 2022 | 7.001.679 | 31.504.050 | 0,22225 |
| 21. | INDF | 2020 | 3.674.268 | 12.426.334 | 0,29568 |
| | | 2021 | 3.252.500 | 14.456.085 | 0,22499 |

| | | | | | |
|-----|------|------|------------|-------------|---------|
| | | 2022 | 3.126.196 | 12.318.765 | 0,25378 |
| 22. | INDS | 2020 | 16.565 | 75.316 | 0,21994 |
| | | 2021 | 35.369 | 213.769 | 0,16545 |
| | | 2022 | 68.536 | 297.078 | 0,23070 |
| 23. | INTP | 2020 | 341.991 | 2.148.328 | 0,15919 |
| | | 2021 | 445.506 | 2.234.002 | 0,19942 |
| | | 2022 | 446.875 | 2.289.309 | 0,19520 |
| 24. | ISSP | 2020 | 20.767 | 155.068 | 0,13392 |
| | | 2021 | 173.341 | 659.402 | 0,26288 |
| | | 2022 | 87.382 | 393.231 | 0,22222 |
| 25. | JPFA | 2020 | 457.187 | 1.679.091 | 0,27228 |
| | | 2021 | 662.951 | 2.793.847 | 0,23729 |
| | | 2022 | 463.598 | 1.954.529 | 0,23719 |
| 26. | MARK | 2020 | 42.496.995 | 186.691.686 | 0,22763 |
| | | 2021 | 113.429 | 505.578 | 0,22436 |
| | | 2022 | 73.973 | 317.066 | 0,23330 |
| 27. | MLBI | 2020 | 110.853 | 396.470 | 0,27960 |
| | | 2021 | 211.931 | 877.781 | 0,24144 |
| | | 2022 | 321.581 | 1.246.487 | 0,25799 |
| 28 | MYOR | 2020 | 585.722 | 2.683.890 | 0,21824 |
| | | 2021 | 338.596 | 1.549.649 | 0,21850 |
| | | 2022 | 535.993 | 2.506.058 | 0,21388 |
| 29. | PBID | 2020 | 115.564 | 489.218 | 0,23622 |
| | | 2021 | 113.362 | 525.914 | 0,21555 |
| | | 2022 | 98.572 | 453.473 | 0,21737 |
| 30. | PEHA | 2020 | 15.418 | 64.083 | 0,24059 |
| | | 2021 | 1.595 | 12.892 | 0,12372 |
| | | 2022 | 14.107 | 41.502 | 0,33991 |
| 31. | ROTI | 2020 | 8.253 | 160.358 | 0,05147 |
| | | 2021 | 94.705 | 376.046 | 0,25184 |
| | | 2022 | 140.535 | 572.783 | 0,24535 |
| 32. | SAMF | 2020 | 32.521 | 150.387 | 0,21625 |
| | | 2021 | 47.361 | 218.507 | 0,21675 |

| | | | | | |
|-----|------|------|-----------|------------|---------|
| | | 2022 | 95.555 | 441.547 | 0,21641 |
| 33. | SCCO | 2020 | 69.905 | 304.058 | 0,22991 |
| | | 2021 | 34.054 | 175.817 | 0,19369 |
| | | 2022 | 43.976 | 150.685 | 0,29184 |
| 34. | SIDO | 2020 | 266.532 | 1.199.548 | 0,22219 |
| | | 2021 | 352.333 | 1.613.231 | 0,21840 |
| | | 2022 | 315.138 | 1.419.852 | 0,22195 |
| 35. | SMBR | 2020 | 25.486 | 36.468 | 0,69886 |
| | | 2021 | 16.537 | 68.354 | 0,24193 |
| | | 2022 | 20.439 | 115.267 | 0,17732 |
| 36. | SMGR | 2020 | 814.307 | 3.488.650 | 0,23342 |
| | | 2021 | 1.387.790 | 3.470.137 | 0,39992 |
| | | 2022 | 799.752 | 3.298.835 | 0,24243 |
| 37. | SMKL | 2020 | 22.265 | 62.716 | 0,35501 |
| | | 2021 | 32.910 | 139.217 | 0,23639 |
| | | 2022 | 25.053 | 102.140 | 0,24528 |
| 38. | SMSM | 2020 | 145.152 | 684.268 | 0,21213 |
| | | 2021 | 193.905 | 922.168 | 0,21027 |
| | | 2022 | 236.058 | 1.172.002 | 0,20141 |
| 39. | SPMA | 2020 | 32.979 | 195.503 | 0,16869 |
| | | 2021 | 83.184 | 377.510 | 0,22035 |
| | | 2022 | 95.308 | 431.446 | 0,22090 |
| 40. | STAR | 2020 | 9.692 | 5.817.863 | 0,00167 |
| | | 2021 | 73.717 | 10.586.804 | 0,00696 |
| | | 2022 | 90.730 | 1.840.591 | 0,04929 |
| 41. | TSPC | 2020 | 230.079 | 1.064.448 | 0,21615 |
| | | 2021 | 220.553 | 1.098.370 | 0,20080 |
| | | 2022 | 292.295 | 1.329.823 | 0,21980 |
| 42. | ULTJ | 2020 | 311.851 | 1.421.517 | 0,21938 |
| | | 2021 | 265.139 | 1.541.932 | 0,17195 |
| | | 2022 | 323.512 | 1.288.998 | 0,25098 |
| 43. | UNVR | 2020 | 2.043.333 | 9.206.869 | 0,22194 |
| | | 2021 | 1.738.444 | 7.496.592 | 0,23190 |

| | | | | | |
|-----|------|------|-----------|-----------|---------|
| | | 2022 | 1.629.042 | 6.993.803 | 0,23293 |
| 44. | VICI | 2020 | 45.249 | 193.615 | 0,23371 |
| | | 2021 | 47.451 | 224.727 | 0,21115 |
| | | 2022 | 34.757 | 132.396 | 0,26252 |
| 45. | WIIM | 2020 | 42.708 | 215.214 | 0,19844 |
| | | 2021 | 38.007 | 214.884 | 0,17687 |
| | | 2022 | 69.827 | 319.471 | 0,21857 |
| 46. | WOOD | 2020 | 97.959 | 412.446 | 0,23751 |
| | | 2021 | 160.935 | 704.423 | 0,22846 |
| | | 2022 | 56.706 | 233.830 | 0,24251 |
| 47. | WTON | 2020 | 7.358 | 130.505 | 0,05638 |
| | | 2021 | 2.787 | 78.647 | 0,03544 |
| | | 2022 | 78.446 | 249.506 | 0,31441 |

Data Leverage

| No. | Kode Saham | Year | Total Utang | Total Ekuitas | X1 |
|-----|------------|------|-------------|---------------|---------|
| 1. | AGII | 2020 | 3.739.317 | 3.382.141 | 1,10561 |
| | | 2021 | 4.581.674 | 3.582.925 | 1,27875 |
| | | 2022 | 4.346.015 | 8.041.989 | 0,54042 |
| 2. | ARNA | 2020 | 665.401 | 1.304.938 | 0,50991 |
| | | 2021 | 670.353 | 1.573.169 | 0,42612 |
| | | 2022 | 745.695 | 1.833.173 | 0,40678 |
| 3. | ASII | 2020 | 142.749 | 195.454 | 0,73035 |
| | | 2021 | 151.696 | 215.615 | 0,70355 |
| | | 2022 | 169.577 | 243.720 | 0,69579 |
| 4. | CAMP | 2020 | 125.162 | 961.711 | 0,13015 |
| | | 2021 | 124.446 | 1.022.814 | 0,12167 |
| | | 2022 | 133.323 | 941.454 | 0,14161 |
| 5. | CEKA | 2020 | 305.959 | 1.260.714 | 0,24269 |
| | | 2021 | 310.020 | 1.387.366 | 0,22346 |
| | | 2022 | 168.245 | 1.550.042 | 0,10854 |
| 6. | CLEO | 2020 | 416.194 | 894.746 | 0,46515 |
| | | 2021 | 346.602 | 1.001.579 | 0,34606 |
| | | 2022 | 508.373 | 1.185.150 | 0,42895 |
| 7. | CPIN | 2020 | 7.809.608 | 23.349.683 | 0,33446 |
| | | 2021 | 10.296.052 | 25.149.999 | 0,40939 |
| | | 2022 | 13.520.331 | 26.327.214 | 0,51355 |
| 8. | DLTA | 2020 | 205.682 | 1.019.898 | 0,20167 |
| | | 2021 | 298.548 | 1.010.174 | 0,29554 |
| | | 2022 | 302.030 | 969.920 | 0,31140 |
| 9. | DMND | 2020 | 1.025.042 | 4.655.596 | 0,22017 |
| | | 2021 | 1.277.906 | 5.019.381 | 0,25459 |
| | | 2022 | 1.467.035 | 5.411.262 | 0,27111 |
| 10. | DPNS | 2020 | 32.487.055 | 284.823.663 | 0,11406 |
| | | 2021 | 54.285.716 | 307.956.854 | 0,17628 |
| | | 2022 | 75.717.898 | 329.957.934 | 0,22948 |

| | | | | | |
|-----|------|------|-------------|-------------|---------|
| 11. | DVLA | 2020 | 660.425 | 1.326.287 | 0,49795 |
| | | 2021 | 705.107 | 1.380.798 | 0,51065 |
| | | 2022 | 605.519 | 1.403.620 | 0,43140 |
| 12. | EKAD | 2020 | 129.617 | 952.362 | 0,13610 |
| | | 2021 | 135.165 | 1.030.399 | 0,13118 |
| | | 2022 | 108.448 | 1.112.843 | 0,09745 |
| 13. | FASW | 2020 | 6.930.049 | 4.582.994 | 1,51212 |
| | | 2021 | 8.209.355 | 5.092.869 | 1,61193 |
| | | 2022 | 7.866.388 | 5.011.458 | 1,56968 |
| 14. | GGRM | 2020 | 19.668.941 | 58.522.468 | 0,33609 |
| | | 2021 | 30.676.095 | 59.288.274 | 0,51741 |
| | | 2022 | 30.706.651 | 57.855.966 | 0,53074 |
| 15. | GOOD | 2020 | 3.676.533 | 2.894.436 | 1,27021 |
| | | 2021 | 3.735.944 | 3.030.658 | 1,23272 |
| | | 2022 | 3.975.927 | 3.351.444 | 1,18633 |
| 16. | HMSP | 2020 | 19.432.604 | 30.241.426 | 0,64258 |
| | | 2021 | 23.899.022 | 29.191.406 | 0,81870 |
| | | 2022 | 26.616.824 | 28.170.168 | 0,94486 |
| 17. | HOKI | 2020 | 244.363.298 | 662.560.916 | 0,36882 |
| | | 2021 | 320.458.716 | 668.660.599 | 0,47925 |
| | | 2022 | 142.744.113 | 668.859.547 | 0,21341 |
| 18. | ICBP | 2020 | 53.270.272 | 50.318.053 | 1,05867 |
| | | 2021 | 63.342.765 | 54.723.863 | 1,15750 |
| | | 2022 | 57.832.529 | 57.473.007 | 1,00626 |
| 19. | IGAR | 2020 | 72.281.042 | 593.582.375 | 0,12177 |
| | | 2021 | 117.903.046 | 691.468.538 | 0,17051 |
| | | 2022 | 76.709.432 | 786.929.124 | 0,09748 |
| 20. | INCI | 2020 | 75.990.821 | 368.874.979 | 0,20601 |
| | | 2021 | 131.138.919 | 379.559.681 | 0,34550 |
| | | 2022 | 79.040.070 | 416.970.464 | 0,18956 |
| 21. | INDF | 2020 | 83.998.472 | 79.138.044 | 1,06142 |
| | | 2021 | 92.724.082 | 86.632.111 | 1,07032 |
| | | 2022 | 86.810.262 | 93.623.038 | 0,92723 |

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|-----|------|------|-------------|-------------|---------|
| 22. | INDS | 2020 | 262.520 | 2.563.740 | 0,10240 |
| | | 2021 | 502.585 | 2.662.433 | 0,18877 |
| | | 2022 | 900.110 | 2.982.354 | 0,30181 |
| 23. | INTP | 2020 | 5.168.424 | 22.176.248 | 0,23306 |
| | | 2021 | 5.515.150 | 20.620.964 | 0,26745 |
| | | 2022 | 6.139.263 | 19.566.906 | 0,31376 |
| 24. | ISSP | 2020 | 2.741.264 | 3.335.340 | 0,82188 |
| | | 2021 | 3.310.209 | 3.787.113 | 0,87407 |
| | | 2022 | 3.261.396 | 4.144.535 | 0,78691 |
| 25. | JPFA | 2020 | 14.539.790 | 11.411.970 | 1,27408 |
| | | 2021 | 15.486.946 | 13.102.710 | 1,18197 |
| | | 2022 | 19.036.110 | 13.654.777 | 1,39410 |
| 26. | MARK | 2020 | 310.254.413 | 409.472.441 | 0,75769 |
| | | 2021 | 334.818 | 743.640 | 0,45024 |
| | | 2022 | 161.587 | 843.781 | 0,19150 |
| 27. | MLBI | 2020 | 1.474.019 | 1.433.406 | 1,02833 |
| | | 2021 | 1.822.860 | 1.099.157 | 1,65842 |
| | | 2022 | 2.301.227 | 1.073.275 | 2,14412 |
| 28 | MYOR | 2020 | 8.506.032 | 11.271.468 | 0,75465 |
| | | 2021 | 8.557.622 | 11.360.031 | 0,75331 |
| | | 2022 | 9.441.467 | 12.834.694 | 0,73562 |
| 29. | PBID | 2020 | 492.492 | 1.928.809 | 0,25533 |
| | | 2021 | 524.108 | 2.277.078 | 0,23017 |
| | | 2022 | 594.336 | 2.446.027 | 0,24298 |
| 30. | PEHA | 2020 | 1.175.080 | 740.909 | 1,58600 |
| | | 2021 | 1.097.562 | 740.977 | 1,48124 |
| | | 2022 | 1.034.465 | 771.816 | 1,34030 |
| 31. | ROTI | 2020 | 1.224.496 | 3.227.671 | 0,37937 |
| | | 2021 | 1.341.865 | 2.849.419 | 0,47093 |
| | | 2022 | 1.449.163 | 2.681.158 | 0,54050 |
| 32. | SAMF | 2020 | 558.300 | 783.771 | 0,71233 |
| | | 2021 | 900.913 | 862.210 | 1,04489 |
| | | 2022 | 1.977.461 | 1.120.320 | 1,76509 |

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|-----|------|------|------------|------------|---------|
| 33. | SCCO | 2020 | 469.705 | 3.273.954 | 0,14347 |
| | | 2021 | 296.167 | 4.402.697 | 0,06727 |
| | | 2022 | 397.472 | 4.730.661 | 0,08402 |
| 34. | SIDO | 2020 | 627.776 | 3.221.740 | 0,19486 |
| | | 2021 | 597.785 | 3.471.185 | 0,17221 |
| | | 2022 | 575.967 | 3.505.475 | 0,16430 |
| 35. | SMBR | 2020 | 2.329.287 | 3.407.888 | 0,68350 |
| | | 2021 | 2.351.501 | 3.466.244 | 0,67840 |
| | | 2022 | 2.124.332 | 3.086.916 | 0,68817 |
| 36. | SMGR | 2020 | 40.571.674 | 35.653.335 | 1,13795 |
| | | 2021 | 34.940.122 | 39.782.883 | 0,87827 |
| | | 2022 | 33.270.652 | 47.239.360 | 0,70430 |
| 37. | SMKL | 2020 | 939.138 | 733.377 | 1,28057 |
| | | 2021 | 1.096.850 | 815.071 | 1,34571 |
| | | 2022 | 1.065.998 | 958.400 | 1,11227 |
| 38. | SMSM | 2020 | 727.016 | 2.648.510 | 0,27450 |
| | | 2021 | 957.229 | 2.911.633 | 0,32876 |
| | | 2022 | 1.060.545 | 3.319.032 | 0,31953 |
| 39. | SPMA | 2020 | 784.673 | 1.531.392 | 0,51239 |
| | | 2021 | 930.680 | 1.815.473 | 0,51264 |
| | | 2022 | 1.092.943 | 2.146.288 | 0,50922 |
| 40. | STAR | 2020 | 1.718.285 | 495.839 | 3,46541 |
| | | 2021 | 2.068.067 | 506.379 | 4,08403 |
| | | 2022 | 1.263.425 | 508.123 | 2,48646 |
| 41. | TSPC | 2020 | 2.727.422 | 6.377.235 | 0,42768 |
| | | 2021 | 2.769.023 | 6.875.303 | 0,40275 |
| | | 2022 | 3.778.217 | 7.550.757 | 0,50038 |
| 42. | ULTJ | 2020 | 3.972.379 | 4.781.737 | 0,83074 |
| | | 2021 | 2.268.730 | 5.138.126 | 0,44155 |
| | | 2022 | 1.553.696 | 5.822.679 | 0,26684 |
| 43. | UNVR | 2020 | 15.597.264 | 4.937.368 | 3,15902 |
| | | 2021 | 14.747.263 | 4.321.269 | 3,41272 |
| | | 2022 | 14.320.858 | 3.997.256 | 3,58267 |

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|-----|------|------|-----------|-----------|---------|
| 44. | VICI | 2020 | 329.538 | 630.230 | 0,52289 |
| | | 2021 | 247.640 | 750.156 | 0,33012 |
| | | 2022 | 349.891 | 801.013 | 0,43681 |
| 45. | WIIM | 2020 | 428.590 | 1.185.851 | 0,36142 |
| | | 2021 | 572.785 | 1.318.385 | 0,43446 |
| | | 2022 | 667.866 | 1.500.927 | 0,44497 |
| 46. | WOOD | 2020 | 2.919.169 | 3.029.837 | 0,96347 |
| | | 2021 | 3.158.497 | 3.642.537 | 0,86711 |
| | | 2022 | 3.195.738 | 3.760.607 | 0,84979 |
| 47. | WTON | 2020 | 5.118.444 | 3.390.572 | 1,50961 |
| | | 2021 | 5.480.299 | 3.447.884 | 1,58947 |
| | | 2022 | 5.809.708 | 3.637.820 | 1,59703 |

Data Capital Intensity Ratio

| No. | Kode Saham | Year | Total Aset Tetap | Total Aset | X2 |
|-----|------------|------|------------------|-------------|---------|
| 1. | AGII | 2020 | 4.827.633 | 7.121.458 | 0,67790 |
| | | 2021 | 5.466.207 | 8.164.599 | 0,66950 |
| | | 2022 | 5.469.351 | 8.041.989 | 0,68010 |
| 2. | ARNA | 2020 | 767.223 | 1.970.340 | 0,38939 |
| | | 2021 | 766.150 | 2.243.523 | 0,34149 |
| | | 2022 | 945.338 | 2.578.869 | 0,36657 |
| 3. | ASII | 2020 | 59.230 | 338.203 | 0,17513 |
| | | 2021 | 55.349 | 367.311 | 0,15069 |
| | | 2022 | 59.536 | 413.297 | 0,14405 |
| 4. | CAMP | 2020 | 237.771 | 1.086.874 | 0,21877 |
| | | 2021 | 198.171 | 1.147.261 | 0,17273 |
| | | 2022 | 223.674 | 1.074.777 | 0,20811 |
| 5. | CEKA | 2020 | 204.186 | 1.566.674 | 0,13033 |
| | | 2021 | 236.063 | 1.697.387 | 0,13907 |
| | | 2022 | 269.390 | 1.718.287 | 0,15678 |
| 6. | CLEO | 2020 | 993.155 | 1.310.940 | 0,75759 |
| | | 2021 | 1.027.647 | 1.348.182 | 0,76225 |
| | | 2022 | 1.212.528 | 1.693.524 | 0,71598 |
| 7. | CPIN | 2020 | 14.494.330 | 31.159.291 | 0,46517 |
| | | 2021 | 16.255.596 | 35.446.051 | 0,45860 |
| | | 2022 | 17.627.978 | 39.847.545 | 0,44239 |
| 8. | DLTA | 2020 | 79.117 | 1.225.581 | 0,06455 |
| | | 2021 | 84.151 | 1.308.722 | 0,06430 |
| | | 2022 | 83.554 | 1.271.951 | 0,06569 |
| 9. | DMND | 2020 | 1.862.871 | 5.680.638 | 0,32793 |
| | | 2021 | 2.107.755 | 6.297.287 | 0,33471 |
| | | 2022 | 2.298.552 | 6.878.297 | 0,33417 |
| 10. | DPNS | 2020 | 8.801.945 | 317.310.719 | 0,02774 |
| | | 2021 | 11.457.270 | 362.242.571 | 0,03163 |
| | | 2022 | 10.395.938 | 405.675.832 | 0,02563 |

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|-----|------|------|-------------|-------------|---------|
| 11. | DVLA | 2020 | 434.474 | 1.986.712 | 0,21869 |
| | | 2021 | 400.316 | 2.085.905 | 0,19191 |
| | | 2022 | 398.577 | 2.009.139 | 0,19838 |
| 12. | EKAD | 2020 | 474.174 | 1.081.980 | 0,43825 |
| | | 2021 | 459.574 | 1.165.565 | 0,39429 |
| | | 2022 | 467.945 | 1.221.292 | 0,38316 |
| 13. | FASW | 2020 | 8.485.611 | 11.513.044 | 0,73704 |
| | | 2021 | 8.902.641 | 13.302.224 | 0,66926 |
| | | 2022 | 9.178.759 | 12.877.846 | 0,71276 |
| 14. | GGRM | 2020 | 27.605.038 | 78.191.409 | 0,35304 |
| | | 2021 | 29.780.132 | 89.964.369 | 0,33102 |
| | | 2022 | 32.426.439 | 88.562.617 | 0,36614 |
| 15. | GOOD | 2020 | 3.217.662 | 6.570.970 | 0,48968 |
| | | 2021 | 3.194.027 | 6.766.602 | 0,47203 |
| | | 2022 | 3.176.839 | 7.327.372 | 0,43356 |
| 16. | HMSP | 2020 | 6.582.808 | 49.674.050 | 0,13252 |
| | | 2021 | 6.038.643 | 53.090.428 | 0,11374 |
| | | 2022 | 6.697.429 | 54.786.992 | 0,12224 |
| 17. | HOKI | 2020 | 379.776.240 | 906.924.214 | 0,41875 |
| | | 2021 | 442.033.943 | 989.119.315 | 0,44690 |
| | | 2022 | 329.698.913 | 811.603.660 | 0,40623 |
| 18. | ICBP | 2020 | 13.351.296 | 103.588.325 | 0,12889 |
| | | 2021 | 14.175.833 | 118.066.628 | 0,12007 |
| | | 2022 | 14.520.941 | 115.305.536 | 0,12593 |
| 19. | IGAR | 2020 | 140.087.553 | 665.863.417 | 0,21038 |
| | | 2021 | 126.819.960 | 809.371.584 | 0,15669 |
| | | 2022 | 121.859.772 | 863.638.556 | 0,14110 |
| 20. | INCI | 2020 | 180.384.817 | 444.865.801 | 0,40548 |
| | | 2021 | 181.335.560 | 510.698.600 | 0,35507 |
| | | 2022 | 190.944.179 | 496.010.534 | 0,38496 |
| 21. | INDF | 2020 | 45.862.919 | 163.136.516 | 0,28113 |
| | | 2021 | 46.751.821 | 179.356.193 | 0,26066 |
| | | 2022 | 47.410.528 | 180.433.300 | 0,26276 |

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|-----|------|------|-------------|-------------|---------|
| 22. | INDS | 2020 | 1.659.025 | 2.826.260 | 0,58700 |
| | | 2021 | 1.634.964 | 3.165.018 | 0,51657 |
| | | 2022 | 1.834.187 | 3.882.465 | 0,47243 |
| 23. | INTP | 2020 | 14.397.092 | 27.344.672 | 0,52650 |
| | | 2021 | 14.342.412 | 26.136.114 | 0,54876 |
| | | 2022 | 14.894.921 | 25.706.169 | 0,57943 |
| 24. | ISSP | 2020 | 2.197.790 | 6.076.604 | 0,36168 |
| | | 2021 | 2.214.814 | 7.097.322 | 0,31206 |
| | | 2022 | 2.471.517 | 7.405.931 | 0,33372 |
| 25. | JPFA | 2020 | 11.143.803 | 25.951.760 | 0,42940 |
| | | 2021 | 11.509.654 | 28.589.656 | 0,40258 |
| | | 2022 | 12.497.177 | 32.690.887 | 0,38228 |
| 26. | MARK | 2020 | 358.409.939 | 719.726.856 | 0,49798 |
| | | 2021 | 488.039 | 1.078.459 | 0,45253 |
| | | 2022 | 561.113 | 1.005.368 | 0,55812 |
| 27. | MLBI | 2020 | 1.479.447 | 2.907.425 | 0,50885 |
| | | 2021 | 1.406.550 | 2.922.017 | 0,48136 |
| | | 2022 | 1.468.317 | 3.374.502 | 0,43512 |
| 28 | MYOR | 2020 | 6.043.202 | 19.777.501 | 0,30556 |
| | | 2021 | 6.378.789 | 19.917.653 | 0,32026 |
| | | 2022 | 6.644.507 | 22.276.161 | 0,29828 |
| 29. | PBID | 2020 | 736.343 | 2.421.301 | 0,30411 |
| | | 2021 | 1.017.328 | 2.801.187 | 0,36318 |
| | | 2022 | 1.061.753 | 3.040.363 | 0,34922 |
| 30. | PEHA | 2020 | 650.652 | 1.915.989 | 0,33959 |
| | | 2021 | 615.907 | 1.838.539 | 0,33500 |
| | | 2022 | 582.904 | 1.806.281 | 0,32271 |
| 31. | ROTI | 2020 | 2.434.486 | 4.452.167 | 0,54681 |
| | | 2021 | 2.492.864 | 4.191.284 | 0,59477 |
| | | 2022 | 2.493.688 | 4.130.322 | 0,60375 |
| 32. | SAMF | 2020 | 300.913 | 1.342.071 | 0,22422 |
| | | 2021 | 309.525 | 1.763.124 | 0,17555 |
| | | 2022 | 378.737 | 3.097.782 | 0,12226 |

| | | | | | |
|-----|------|------|-------------|-------------|---------|
| 33. | SCCO | 2020 | 1.666.510 | 3.743.660 | 0,44516 |
| | | 2021 | 2.704.706 | 4.698.864 | 0,57561 |
| | | 2022 | 2.972.331 | 5.128.133 | 0,57961 |
| 34. | SIDO | 2020 | 1.568.264 | 3.849.516 | 0,40739 |
| | | 2021 | 1.588.101 | 4.068.970 | 0,39030 |
| | | 2022 | 1.610.837 | 4.081.442 | 0,39467 |
| 35. | SMBR | 2020 | 4.242.524 | 5.737.176 | 0,73948 |
| | | 2021 | 4.132.636 | 5.817.746 | 0,71035 |
| | | 2022 | 4.043.993 | 5.211.249 | 0,77601 |
| 36. | SMGR | 2020 | 56.053.483 | 78.006.244 | 0,71858 |
| | | 2021 | 54.720.267 | 76.504.240 | 0,71526 |
| | | 2022 | 57.805.992 | 82.960.012 | 0,69679 |
| 37. | SMKL | 2020 | 828.456 | 1.672.516 | 0,49534 |
| | | 2021 | 819.645 | 1.911.922 | 0,42870 |
| | | 2022 | 1.024.913 | 2.024.399 | 0,50628 |
| 38. | SMSM | 2020 | 681.047 | 3.375.526 | 0,20176 |
| | | 2021 | 712.476 | 3.868.862 | 0,18416 |
| | | 2022 | 841.910 | 4.379.577 | 0,19224 |
| 39. | SPMA | 2020 | 1.659.144 | 2.316.065 | 0,71636 |
| | | 2021 | 1.711.989 | 2.746.153 | 0,62341 |
| | | 2022 | 1.829.176 | 3.239.231 | 0,56469 |
| 40. | STAR | 2020 | 473.411.256 | 497.557.497 | 0,95147 |
| | | 2021 | 311.816.244 | 508.447.135 | 0,61327 |
| | | 2022 | 163.852.638 | 509.387.242 | 0,32167 |
| 41. | TSPC | 2020 | 2.418.933 | 9.104.658 | 0,26568 |
| | | 2021 | 2.509.079 | 9.644.327 | 0,26016 |
| | | 2022 | 2.925.266 | 11.328.974 | 0,25821 |
| 42. | ULTJ | 2020 | 1.715.401 | 8.754.116 | 0,19595 |
| | | 2021 | 2.165.353 | 7.406.856 | 0,29234 |
| | | 2022 | 2.260.183 | 7.376.375 | 0,30641 |
| 43. | UNVR | 2020 | 10.419.902 | 20.534.634 | 0,50743 |
| | | 2021 | 10.102.086 | 19.068.532 | 0,52978 |
| | | 2022 | 9.536.027 | 18.318.114 | 0,52058 |

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|-----|------|------|-----------|-----------|---------|
| 44. | VICI | 2020 | 305.931 | 959.769 | 0,31875 |
| | | 2021 | 298.099 | 997.797 | 0,29876 |
| | | 2022 | 292.499 | 1.150.904 | 0,25415 |
| 45. | WIIM | 2020 | 298.905 | 1.614.442 | 0,18514 |
| | | 2021 | 278.219 | 1.891.170 | 0,14711 |
| | | 2022 | 260.434 | 2.168.794 | 0,12008 |
| 46. | WOOD | 2020 | 2.334.406 | 5.949.007 | 0,39240 |
| | | 2021 | 2.251.984 | 6.801.035 | 0,33112 |
| | | 2022 | 2.002.882 | 6.956.345 | 0,28792 |
| 47. | WTON | 2020 | 2.952.493 | 8.509.017 | 0,34698 |
| | | 2021 | 3.152.889 | 8.928.183 | 0,35314 |
| | | 2022 | 3.045.751 | 9.447.529 | 0,32239 |

Data Kepemilikan Institusional

| No. | Kode Saham | Year | Jumlah Saham Institusional | Jumlah Saham yang Beredar | X3 |
|-----|------------|------|----------------------------|---------------------------|---------|
| 1. | AGII | 2020 | 2.267.258 | 3.066.660 | 0,73932 |
| | | 2021 | 2.295.477 | 3.066.660 | 0,74853 |
| | | 2022 | 2.316.557 | 3.066.660 | 0,75540 |
| 2. | ARNA | 2020 | 1.030.000 | 7.341.431 | 0,14030 |
| | | 2021 | 1.037.195 | 7.341.431 | 0,14128 |
| | | 2022 | 1.037.660 | 7.341.431 | 0,14134 |
| 3. | ASII | 2020 | 20.288.255 | 40.483.553 | 0,50115 |
| | | 2021 | 20.288.255 | 40.483.553 | 0,50115 |
| | | 2022 | 20.288.255 | 40.483.553 | 0,50115 |
| 4. | CAMP | 2020 | 4.936.000 | 5.885.000 | 0,83874 |
| | | 2021 | 4.936.000 | 5.885.000 | 0,83874 |
| | | 2022 | 4.936.000 | 5.885.000 | 0,83874 |
| 5. | CEKA | 2020 | 517.771.000 | 595.000.000 | 0,87020 |
| | | 2021 | 517.771.000 | 595.000.000 | 0,87020 |
| | | 2022 | 517.771.000 | 595.000.000 | 0,87020 |
| 6. | CLEO | 2020 | 9.764.900 | 12.000.000 | 0,81374 |
| | | 2021 | 9.764.900 | 12.000.000 | 0,81374 |
| | | 2022 | 9.225.600 | 12.000.000 | 0,76880 |
| 7. | CPIN | 2020 | 9.106.385 | 16.398.000 | 0,55534 |
| | | 2021 | 9.106.385 | 16.398.000 | 0,55534 |
| | | 2022 | 9.106.385 | 16.398.000 | 0,55534 |
| 8. | DLTA | 2020 | 677.261.850 | 800.659.050 | 0,84588 |
| | | 2021 | 677.261.850 | 800.659.050 | 0,84588 |
| | | 2022 | 677.261.850 | 800.659.050 | 0,84588 |
| 9. | DMND | 2020 | 5.615.591 | 9.468.359 | 0,59309 |
| | | 2021 | 5.615.591 | 9.468.359 | 0,59309 |
| | | 2022 | 5.615.591 | 9.468.359 | 0,59309 |
| 10. | DPNS | 2020 | 220.574.238 | 331.129.952 | 0,66613 |
| | | 2021 | 219.477.538 | 331.129.952 | 0,66281 |
| | | 2022 | 219.477.538 | 331.129.952 | 0,66281 |

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|-----|------|------|-------------|-------------|---------|
| 11. | DVLA | 2020 | 1.031.801 | 1.120.000 | 0,92125 |
| | | 2021 | 1.031.801 | 1.120.000 | 0,92125 |
| | | 2022 | 1.031.801 | 1.120.000 | 0,92125 |
| 12. | EKAD | 2020 | 555.759 | 698.775 | 0,79533 |
| | | 2021 | 562.529 | 698.775 | 0,80502 |
| | | 2022 | 2.845.942 | 3.493.875 | 0,81455 |
| 13. | FASW | 2020 | 2.470.733 | 2.477.889 | 0,99711 |
| | | 2021 | 2.470.733 | 2.477.889 | 0,99711 |
| | | 2022 | 2.470.733 | 2.477.889 | 0,99711 |
| 14. | GGRM | 2020 | 1.453.590 | 1.924.088 | 0,75547 |
| | | 2021 | 1.453.590 | 1.924.088 | 0,75547 |
| | | 2022 | 1.453.590 | 1.924.088 | 0,75547 |
| 15. | GOOD | 2020 | 4.378.305 | 7.379.580 | 0,59330 |
| | | 2021 | 23.898.316 | 36.897.901 | 0,64769 |
| | | 2022 | 25.286.019 | 36.897.901 | 0,68530 |
| 16. | HMSP | 2020 | 107.594.221 | 116.318.077 | 0,92500 |
| | | 2021 | 107.594.221 | 116.318.077 | 0,92500 |
| | | 2022 | 107.594.221 | 116.318.077 | 0,92500 |
| 17. | HOKI | 2020 | 1.571.429 | 2.419.438 | 0,64950 |
| | | 2021 | 6.285.714 | 9.677.753 | 0,64950 |
| | | 2022 | 6.285.714 | 9.677.753 | 0,64950 |
| 18. | ICBP | 2020 | 9.391.678 | 11.661.908 | 0,80533 |
| | | 2021 | 9.391.678 | 11.661.908 | 0,80533 |
| | | 2022 | 9.391.678 | 11.661.908 | 0,80533 |
| 19. | IGAR | 2020 | 824.612.420 | 972.204.500 | 0,84819 |
| | | 2021 | 824.612.420 | 972.204.500 | 0,84819 |
| | | 2022 | 824.612.420 | 972.204.500 | 0,84819 |
| 20. | INCI | 2020 | 29.989.381 | 196.121.237 | 0,15291 |
| | | 2021 | 29.989.381 | 196.121.237 | 0,15291 |
| | | 2022 | 29.989.381 | 196.121.237 | 0,15291 |
| 21. | INDF | 2020 | 4.396.103 | 8.780.427 | 0,50067 |
| | | 2021 | 4.396.103 | 8.780.427 | 0,50067 |
| | | 2022 | 4.396.103 | 8.780.427 | 0,50067 |

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|-----|------|------|-------------|-------------|---------|
| 22. | INDS | 2020 | 578.210.207 | 656.249.710 | 0,88108 |
| | | 2021 | 578.210.207 | 656.249.710 | 0,88108 |
| | | 2022 | 578.210.207 | 656.249.710 | 0,88108 |
| 23. | INTP | 2020 | 1.877.481 | 3.681.232 | 0,51001 |
| | | 2021 | 1.877.481 | 3.681.232 | 0,51001 |
| | | 2022 | 1.877.481 | 3.681.232 | 0,51001 |
| 24. | ISSP | 2020 | 4.020.064 | 7.185.992 | 0,55943 |
| | | 2021 | 4.020.064 | 7.185.992 | 0,55943 |
| | | 2022 | 4.520.064 | 7.185.992 | 0,62901 |
| 25. | JPFA | 2020 | 6.387.169 | 11.726.575 | 0,54467 |
| | | 2021 | 6.449.761 | 11.726.575 | 0,55001 |
| | | 2022 | 6.500.177 | 11.726.575 | 0,55431 |
| 26. | MARK | 2020 | 59.904.771 | 76.000.006 | 0,78822 |
| | | 2021 | 59.904.771 | 76.000.006 | 0,78822 |
| | | 2022 | 33.304.769 | 76.000.006 | 0,43822 |
| 27. | MLBI | 2020 | 1.723.151 | 2.107.000 | 0,81782 |
| | | 2021 | 1.723.151 | 2.107.000 | 0,81782 |
| | | 2022 | 1.881.951 | 2.107.000 | 0,89319 |
| 28. | MYOR | 2020 | 13.207.471 | 22.358.700 | 0,59071 |
| | | 2021 | 13.207.471 | 22.358.700 | 0,59071 |
| | | 2022 | 13.207.471 | 22.358.700 | 0,59071 |
| 29. | PBID | 2020 | 1.400.000 | 1.875.000 | 0,74667 |
| | | 2021 | 1.400.000 | 1.875.000 | 0,74667 |
| | | 2022 | 1.400.000 | 1.875.000 | 0,74667 |
| 30. | PEHA | 2020 | 476.901.860 | 840.000.000 | 0,56774 |
| | | 2021 | 476.901.860 | 840.000.000 | 0,56774 |
| | | 2022 | 476.901.860 | 840.000.000 | 0,56774 |
| 31. | ROTI | 2020 | 5.122.875 | 6.186.489 | 0,82807 |
| | | 2021 | 5.152.140 | 6.186.489 | 0,83281 |
| | | 2022 | 5.152.140 | 6.186.489 | 0,83281 |
| 32. | SAMF | 2020 | 3.806.250 | 5.125.000 | 0,74268 |
| | | 2021 | 3.806.250 | 5.125.000 | 0,74268 |
| | | 2022 | 3.806.250 | 5.125.000 | 0,74268 |

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|-----|------|------|-------------|-------------|---------|
| 33. | SCCO | 2020 | 154.275.640 | 205.583.400 | 0,75043 |
| | | 2021 | 154.275.640 | 205.583.400 | 0,75043 |
| | | 2022 | 154.275.640 | 205.583.400 | 0,75043 |
| 34. | SIDO | 2020 | 24.300.000 | 30.000.000 | 0,81000 |
| | | 2021 | 24.478.282 | 30.000.000 | 0,81594 |
| | | 2022 | 23.278.282 | 30.000.000 | 0,77594 |
| 35. | SMBR | 2020 | 7.499.100 | 20.067.466 | 0,37369 |
| | | 2021 | 7.499.100 | 20.067.466 | 0,37369 |
| | | 2022 | 7.499.100 | 20.067.466 | 0,37369 |
| 36. | SMGR | 2020 | 3.025.406 | 5.931.520 | 0,51006 |
| | | 2021 | 3.025.406 | 5.931.520 | 0,51006 |
| | | 2022 | 3.457.023 | 6.751.540 | 0,51203 |
| 37. | SMKL | 2020 | 2.722.500 | 2.750.000 | 0,99000 |
| | | 2021 | 2.722.500 | 2.750.000 | 0,99000 |
| | | 2022 | 2.836.916 | 3.418.085 | 0,82997 |
| 38. | SMSM | 2020 | 3.347.264 | 5.758.675 | 0,58126 |
| | | 2021 | 3.347.264 | 5.758.675 | 0,58126 |
| | | 2022 | 2.910.392 | 5.758.675 | 0,50539 |
| 39. | SPMA | 2020 | 1.953.225 | 2.114.571 | 0,92370 |
| | | 2021 | 2.578.257 | 2.791.233 | 0,92370 |
| | | 2022 | 2.913.431 | 3.154.092 | 0,92370 |
| 40. | STAR | 2020 | 1.544.925 | 4.800.000 | 0,32186 |
| | | 2021 | 1.544.925 | 4.800.000 | 0,32186 |
| | | 2022 | 1.544.925 | 4.800.000 | 0,32186 |
| 41. | TSPC | 2020 | 3.619.823 | 4.500.000 | 0,80441 |
| | | 2021 | 3.704.766 | 4.509.864 | 0,82148 |
| | | 2022 | 3.704.766 | 4.509.864 | 0,82148 |
| 42. | ULTJ | 2020 | 2.472.304 | 11.553.528 | 0,21399 |
| | | 2021 | 2.472.304 | 11.553.528 | 0,21399 |
| | | 2022 | 2.472.304 | 11.553.528 | 0,21399 |
| 43. | UNVR | 2020 | 32.424.388 | 38.150.000 | 0,84992 |
| | | 2021 | 32.424.388 | 38.150.000 | 0,84992 |
| | | 2022 | 32.424.388 | 38.150.000 | 0,84992 |

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|-----|------|------|-----------|-----------|---------|
| 44. | VICI | 2020 | 5.698.380 | 6.708.000 | 0,84949 |
| | | 2021 | 5.698.380 | 6.708.000 | 0,84949 |
| | | 2022 | 5.698.380 | 6.708.000 | 0,84949 |
| 45. | WIIM | 2020 | 510.486 | 2.099.874 | 0,24310 |
| | | 2021 | 514.802 | 2.099.874 | 0,24516 |
| | | 2022 | 196.040 | 2.099.874 | 0,09336 |
| 46. | WOOD | 2020 | 4.532.470 | 6.306.250 | 0,71873 |
| | | 2021 | 4.573.835 | 6.362.500 | 0,71887 |
| | | 2022 | 4.573.835 | 6.437.500 | 0,71050 |
| 47. | WTON | 2020 | 5.741.123 | 8.715.467 | 0,65873 |
| | | 2021 | 5.723.027 | 8.715.467 | 0,65665 |
| | | 2022 | 5.676.266 | 8.715.467 | 0,65129 |

Data Transformasi dan *Outlier*

| Kode Saham | Year | LOGY | LOGX1 | LOGX2 | LOGX3 |
|------------|------|----------|----------|----------|----------|
| AGII | 2021 | -0,63178 | 0,10679 | -0,17425 | -0,12579 |
| AGII | 2022 | -0,59905 | -0,26727 | -0,16743 | -0,12182 |
| ARNA | 2020 | -0,64899 | -0,29251 | -0,40962 | -0,85294 |
| ARNA | 2021 | -0,65905 | -0,37047 | -0,46662 | -0,84992 |
| ARNA | 2022 | -0,65653 | -0,39064 | -0,43584 | -0,84973 |
| ASII | 2021 | -0,67967 | -0,15270 | -0,82192 | -0,30003 |
| ASII | 2022 | -0,70365 | -0,15752 | -0,84148 | -0,30003 |
| CAMP | 2020 | -0,64825 | -0,88557 | -0,66002 | -0,07637 |
| CAMP | 2021 | -0,68444 | -0,91482 | -0,76262 | -0,07637 |
| CAMP | 2022 | -0,67330 | -0,84889 | -0,68170 | -0,07637 |
| CEKA | 2020 | -0,65808 | -0,61495 | -0,88495 | -0,06038 |
| CEKA | 2021 | -0,68096 | -0,65080 | -0,85675 | -0,06038 |
| CEKA | 2022 | -0,65652 | -0,96440 | -0,80471 | -0,06038 |
| CLEO | 2020 | -0,67251 | -0,33240 | -0,12057 | -0,08951 |
| CLEO | 2021 | -0,66911 | -0,46085 | -0,11790 | -0,08951 |
| CLEO | 2022 | -0,66952 | -0,36759 | -0,14510 | -0,11419 |
| CPIN | 2020 | -0,71364 | -0,47565 | -0,33239 | -0,25544 |
| CPIN | 2021 | -0,65965 | -0,38787 | -0,33856 | -0,25544 |
| CPIN | 2022 | -0,76560 | -0,28942 | -0,35420 | -0,25544 |
| DLTA | 2020 | -0,60140 | -0,69536 | -1,19007 | -0,07269 |
| DLTA | 2021 | -0,65854 | -0,52938 | -1,19179 | -0,07269 |
| DLTA | 2022 | -0,66361 | -0,50669 | -1,18250 | -0,07269 |
| DMND | 2020 | -0,63693 | -0,65723 | -0,48421 | -0,22688 |
| DMND | 2021 | -0,65991 | -0,59415 | -0,47533 | -0,22688 |
| DMND | 2022 | -0,63095 | -0,56686 | -0,47603 | -0,22688 |
| DPNS | 2021 | -0,71260 | -0,75380 | -1,49992 | -0,17861 |
| DPNS | 2022 | -0,68578 | -0,63926 | -1,59132 | -0,17861 |
| DVLA | 2020 | -0,61458 | -0,30281 | -0,66017 | -0,03562 |
| DVLA | 2021 | -0,51255 | -0,29188 | -0,71689 | -0,03562 |
| DVLA | 2022 | -0,58988 | -0,36512 | -0,70250 | -0,03562 |

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|------|------|----------|----------|----------|----------|
| EKAD | 2020 | -0,65093 | -0,86614 | -0,35828 | -0,09945 |
| EKAD | 2021 | -0,67317 | -0,88214 | -0,40418 | -0,09419 |
| EKAD | 2022 | -0,69346 | -1,01121 | -0,41662 | -0,08908 |
| FASW | 2021 | -0,57642 | 0,20735 | -0,17441 | -0,00126 |
| FASW | 2022 | -0,53956 | 0,19581 | -0,14706 | -0,00126 |
| GGRM | 2020 | -0,68076 | -0,47354 | -0,45217 | -0,12178 |
| GGRM | 2021 | -0,63684 | -0,28617 | -0,48014 | -0,12178 |
| GGRM | 2022 | -0,62397 | -0,27512 | -0,43635 | -0,12178 |
| GOOD | 2020 | -0,55428 | 0,10387 | -0,31009 | -0,22673 |
| GOOD | 2021 | -0,65499 | 0,09086 | -0,32603 | -0,18863 |
| GOOD | 2022 | -0,64545 | 0,07421 | -0,36295 | -0,16412 |
| HMSP | 2020 | -0,63609 | -0,19207 | -0,87772 | -0,03386 |
| HMSP | 2021 | -0,65723 | -0,08687 | -0,94408 | -0,03386 |
| HMSP | 2022 | -0,62778 | -0,02463 | -0,91277 | -0,03386 |
| HOKI | 2020 | -0,59806 | -0,43319 | -0,37804 | -0,18742 |
| HOKI | 2021 | -0,51766 | -0,31943 | -0,34979 | -0,18742 |
| ICBP | 2020 | -0,59335 | 0,02476 | -0,88979 | -0,09403 |
| ICBP | 2021 | -0,68862 | 0,06352 | -0,92058 | -0,09403 |
| ICBP | 2022 | -0,62049 | 0,00271 | -0,89986 | -0,09403 |
| IGAR | 2020 | -0,56978 | -0,91446 | -0,67699 | -0,07151 |
| IGAR | 2021 | -0,62939 | -0,76825 | -0,80496 | -0,07151 |
| IGAR | 2022 | -0,63282 | -1,01109 | -0,85047 | -0,07151 |
| INCI | 2020 | -0,66401 | -0,68612 | -0,39203 | -0,81556 |
| INCI | 2021 | -0,69991 | -0,46155 | -0,44968 | -0,81556 |
| INCI | 2022 | -0,65316 | -0,72226 | -0,41458 | -0,81556 |
| INDF | 2020 | -0,52917 | 0,02589 | -0,55109 | -0,30045 |
| INDF | 2021 | -0,64783 | 0,02951 | -0,58392 | -0,30045 |
| INDF | 2022 | -0,59555 | -0,03281 | -0,58044 | -0,30045 |
| INDS | 2020 | -0,65770 | -0,98971 | -0,23136 | -0,05498 |
| INDS | 2021 | -0,78132 | -0,72407 | -0,28687 | -0,05498 |
| INDS | 2022 | -0,63695 | -0,52026 | -0,32566 | -0,05498 |
| INTP | 2020 | -0,79809 | -0,63253 | -0,27860 | -0,29242 |
| INTP | 2022 | -0,70952 | -0,50341 | -0,23700 | -0,29242 |

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|------|------|----------|----------|----------|----------|
| ISSP | 2020 | -0,87315 | -0,08519 | -0,44167 | -0,25225 |
| ISSP | 2021 | -0,58025 | -0,05845 | -0,50576 | -0,25225 |
| ISSP | 2022 | -0,65323 | -0,10407 | -0,47662 | -0,20134 |
| JPFA | 2020 | -0,56498 | 0,10520 | -0,36713 | -0,26386 |
| JPFA | 2021 | -0,62472 | 0,07260 | -0,39515 | -0,25963 |
| JPFA | 2022 | -0,62490 | 0,14429 | -0,41761 | -0,25625 |
| MARK | 2020 | -0,64277 | -0,12051 | -0,30279 | -0,10335 |
| MARK | 2021 | -0,64906 | -0,34655 | -0,34435 | -0,10335 |
| MARK | 2022 | -0,63208 | -0,71782 | -0,25327 | -0,35831 |
| MLBI | 2020 | -0,55346 | 0,01213 | -0,29341 | -0,08734 |
| MLBI | 2021 | -0,61719 | 0,21969 | -0,31753 | -0,08734 |
| MLBI | 2022 | -0,58840 | 0,33125 | -0,36139 | -0,04906 |
| MYOR | 2020 | -0,66107 | -0,12225 | -0,51490 | -0,22863 |
| MYOR | 2021 | -0,66055 | -0,12303 | -0,49450 | -0,22863 |
| MYOR | 2022 | -0,66983 | -0,13335 | -0,52538 | -0,22863 |
| PBID | 2020 | -0,62668 | -0,59289 | -0,51697 | -0,12687 |
| PBID | 2021 | -0,66645 | -0,63796 | -0,43988 | -0,12687 |
| PBID | 2022 | -0,66280 | -0,61443 | -0,45690 | -0,12687 |
| PEHA | 2020 | -0,61871 | 0,20030 | -0,46904 | -0,24585 |
| ROTI | 2021 | -0,59887 | -0,32705 | -0,22565 | -0,07946 |
| ROTI | 2022 | -0,61021 | -0,26721 | -0,21914 | -0,07946 |
| SAMF | 2020 | -0,66505 | -0,14732 | -0,64933 | -0,12920 |
| SAMF | 2021 | -0,66404 | 0,01907 | -0,75559 | -0,12920 |
| SAMF | 2022 | -0,66472 | 0,24677 | -0,91271 | -0,12920 |
| SCCO | 2020 | -0,63845 | -0,84325 | -0,35149 | -0,12469 |
| SCCO | 2021 | -0,71289 | -1,17218 | -0,23987 | -0,12469 |
| SIDO | 2020 | -0,65327 | -0,71029 | -0,38999 | -0,09151 |
| SIDO | 2021 | -0,66074 | -0,76393 | -0,40861 | -0,08834 |
| SIDO | 2022 | -0,65374 | -0,78435 | -0,40376 | -0,11017 |
| SMBR | 2021 | -0,61631 | -0,16851 | -0,14853 | -0,42748 |
| SMBR | 2022 | -0,75125 | -0,16230 | -0,11013 | -0,42748 |
| SMGR | 2020 | -0,63187 | 0,05612 | -0,14353 | -0,29238 |
| SMGR | 2022 | -0,61541 | -0,15224 | -0,15690 | -0,29070 |

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|------|------|----------|----------|----------|----------|
| SMKL | 2021 | -0,62636 | 0,12895 | -0,36784 | -0,00436 |
| SMKL | 2022 | -0,61034 | 0,04621 | -0,29561 | -0,08094 |
| SMSM | 2020 | -0,67340 | -0,56146 | -0,69516 | -0,23563 |
| SMSM | 2021 | -0,67722 | -0,48312 | -0,73481 | -0,23563 |
| SMSM | 2022 | -0,69591 | -0,49548 | -0,71617 | -0,29637 |
| SPMA | 2020 | -0,77292 | -0,29040 | -0,14487 | -0,03447 |
| SPMA | 2021 | -0,65689 | -0,29019 | -0,20522 | -0,03447 |
| SPMA | 2022 | -0,65580 | -0,29309 | -0,24819 | -0,03447 |
| TSPC | 2020 | -0,66525 | -0,36888 | -0,57564 | -0,09453 |
| TSPC | 2021 | -0,69724 | -0,39497 | -0,58476 | -0,08540 |
| TSPC | 2022 | -0,65797 | -0,30070 | -0,58803 | -0,08540 |
| ULTJ | 2020 | -0,65880 | -0,08054 | -0,70785 | -0,66961 |
| ULTJ | 2021 | -0,76459 | -0,35502 | -0,53411 | -0,66961 |
| ULTJ | 2022 | -0,60036 | -0,57376 | -0,51370 | -0,66961 |
| UNVR | 2020 | -0,65377 | 0,49955 | -0,29462 | -0,07062 |
| UNVR | 2021 | -0,63470 | 0,53310 | -0,27591 | -0,07062 |
| UNVR | 2022 | -0,63278 | 0,55421 | -0,28351 | -0,07062 |
| VICI | 2020 | -0,63133 | -0,28159 | -0,49654 | -0,07084 |
| VICI | 2021 | -0,67541 | -0,48133 | -0,52468 | -0,07084 |
| VICI | 2022 | -0,58083 | -0,35971 | -0,59491 | -0,07084 |
| WIIM | 2020 | -0,70236 | -0,44199 | -0,73249 | -0,61421 |
| WIIM | 2021 | -0,75234 | -0,36205 | -0,83234 | -0,61055 |
| WIIM | 2022 | -0,66041 | -0,35167 | -0,92052 | -1,02985 |
| WOOD | 2020 | -0,62432 | -0,01616 | -0,40627 | -0,14344 |
| WOOD | 2021 | -0,64118 | -0,06192 | -0,48001 | -0,14335 |
| WOOD | 2022 | -0,61527 | -0,07069 | -0,54073 | -0,14844 |
| WTON | 2022 | -0,50251 | 0,20331 | -0,49162 | -0,18623 |