

LAMPIRAN

LAMPIRAN 1 : DATA

- IPM : Indeks Pembangunan Manusia
- PPBK : Pengeluaran Pemerintah Bidang Kesehatan
- PPBP : Pengeluaran Pemerintah Bidang Pendidikan
- JP : Jumlah Penduduk

| NEGARA | TAHUN | IPM (%) | PPBK (US \$) | PPBP (US \$) | JP |
|---------------|--------------|----------------|---------------------|---------------------|-----------|
| Benin | 2010 | 46,75 | 344904275 | 350555703 | 9100000 |
| | 2011 | 47,30 | 419518681 | 417672011 | 9200000 |
| | 2012 | 47,50 | 394236717 | 396879972 | 9400000 |
| | 2013 | 47,73 | 418372869 | 416413700 | 10320000 |
| | 2014 | 47,96 | 439920280 | 419470540 | 10590000 |
| Burkina Faso | 2010 | 37,77 | 643868121 | 353717306 | 16300000 |
| | 2011 | 38,52 | 554375710 | 480788643 | 17000000 |
| | 2012 | 39,25 | 594803294 | 452618559 | 17500000 |
| | 2013 | 39,61 | 716238210 | 548834710 | 16930000 |
| | 2014 | 40,22 | 622469713 | 564729547 | 17410000 |
| Pantai Gading | 2010 | 44,44 | 1573656445 | 1145431316 | 20600000 |
| | 2011 | 44,50 | 1629633165 | 1168313318 | 20200000 |
| | 2012 | 45,20 | 1661162093 | 1244674432 | 20600000 |
| | 2013 | 45,79 | 1817954976 | 1440393499 | 20310000 |
| | 2014 | 46,22 | 1958029931 | 1616588754 | 20800000 |
| Cameroon | 2010 | 48,57 | 1248409854 | 782655408 | 20000000 |
| | 2011 | 49,59 | 1053302919 | 811684054 | 20300000 |
| | 2012 | 50,09 | 1148652841 | 784999694 | 20500000 |
| | 2013 | 50,69 | 1269361747 | 895404600 | 22250000 |
| | 2014 | 51,18 | 1315260294 | 950412474 | 22810000 |
| Comoros | 2010 | 48,83 | 30112072 | 39331208 | 700000 |
| | 2011 | 49,33 | 34510805 | 28920067 | 710000 |
| | 2012 | 49,86 | 39123672 | 27915326 | 720000 |
| | 2013 | 50,12 | 38986359 | 45567032 | 730000 |
| | 2014 | 50,31 | 42088495 | 47455790 | 750000 |
| Guinea | 2010 | 38,75 | 215350520 | 174844882 | 10200000 |
| | 2011 | 39,87 | 239736669 | 155205129 | 10200000 |
| | 2012 | 40,93 | 305539791 | 140059350 | 10500000 |
| | 2013 | 41,09 | 342318669 | 220657919 | 11740000 |
| | 2014 | 41,12 | 373915254 | 163706555 | 12040000 |

| NEGARA | TAHUN | IPM (%) | PPBK (US \$) | PPBP (US \$) | JP |
|---------------|--------------|----------------|---------------------|---------------------|-----------|
| Gambia | 2010 | 44,10 | 54769533 | 39557996 | 1810000 |
| | 2011 | 43,73 | 56436956 | 35258956 | 1820000 |
| | 2012 | 44,02 | 55880596 | 37321817 | 1830000 |
| | 2013 | 44,17 | 58665548 | 25014000 | 1840000 |
| | 2014 | 44,06 | 62459703 | 34741185 | 1900000 |
| Guinea-Bissau | 2010 | 41,26 | 56766810 | 15799273 | 1600000 |
| | 2011 | 41,68 | 60317195 | 20440435 | 1500000 |
| | 2012 | 41,67 | 59350984 | 20555200 | 1600000 |
| | 2013 | 41,83 | 63031804 | 24186865 | 1700000 |
| | 2014 | 41,96 | 62028432 | 26126825 | 1740000 |
| Mali | 2010 | 40,92 | 678321019 | 411616681 | 13300000 |
| | 2011 | 41,45 | 855079723 | 593873031 | 15800000 |
| | 2012 | 41,43 | 804465897 | 520947985 | 16300000 |
| | 2013 | 41,58 | 871279373 | 526369990 | 15300000 |
| | 2014 | 41,92 | 987354872 | 625588217 | 15760000 |
| Mozambique | 2010 | 40,10 | 546330857 | 508406486 | 23400000 |
| | 2011 | 40,45 | 818689138 | 657456603 | 23900000 |
| | 2012 | 40,79 | 810941002 | 883032999 | 24500000 |
| | 2013 | 41,25 | 944776818 | 1038035854 | 25830000 |
| | 2014 | 41,64 | 1182074388 | 848453608 | 26470000 |
| Mauritania | 2010 | 48,76 | 142251017 | 156346152 | 3400000 |
| | 2011 | 48,94 | 148257833 | 159015305 | 3500000 |
| | 2012 | 49,77 | 175850327 | 156780726 | 3600000 |
| | 2013 | 50,35 | 205192987 | 184923379 | 3880000 |
| | 2014 | 50,58 | 205321493 | 207482688 | 3980000 |
| Niger | 2010 | 32,56 | 363794505 | 213496692 | 15900000 |
| | 2011 | 33,25 | 426871246 | 269645315 | 16100000 |
| | 2012 | 34,22 | 424120859 | 300435929 | 16600000 |
| | 2013 | 34,46 | 390282086 | 376402901 | 17830000 |
| | 2014 | 34,82 | 479984291 | 558864770 | 18530000 |
| Sudan | 2010 | 46,51 | 5227807844 | 1464736726 | 43200000 |
| | 2011 | 46,59 | 5406006393 | 1502522918 | 44600000 |
| | 2012 | 47,59 | 5140732694 | 1399009144 | 35000000 |
| | 2013 | 47,73 | 5598838212 | 1483617367 | 37960000 |
| | 2014 | 47,91 | 6221695614 | 1647306035 | 38760000 |

| NEGARA | TAHUN | IPM (%) | PPBK (US \$) | PPBP (US \$) | JP |
|---------------|--------------|----------------|---------------------|---------------------|-----------|
| Senegal | 2010 | 45,57 | 597671075 | 724214677 | 12900000 |
| | 2011 | 45,80 | 637830526 | 808675002 | 12800000 |
| | 2012 | 46,05 | 605535378 | 786555333 | 13100000 |
| | 2013 | 46,31 | 674402927 | 837290354 | 14130000 |
| | 2014 | 46,58 | 730420394 | 876819732 | 14540000 |
| Sierra Leone | 2010 | 38,75 | 270024464 | 67734898 | 5800000 |
| | 2011 | 39,43 | 357818462 | 80835146 | 6000000 |
| | 2012 | 39,68 | 432943323 | 112490940 | 6100000 |
| | 2013 | 40,82 | 574487782 | 120014749 | 6090000 |
| | 2014 | 41,27 | 555123030 | 138191813 | 6200000 |
| Chad | 2010 | 37,11 | 314271569 | 211229323 | 11500000 |
| | 2011 | 38,16 | 385203159 | 274478905 | 11550000 |
| | 2012 | 38,57 | 371082895 | 279258656 | 11800000 |
| | 2013 | 38,84 | 442555302 | 369162779 | 12820000 |
| | 2014 | 39,19 | 504146591 | 314349878 | 13210000 |
| Togo | 2010 | 45,94 | 170315331 | 140345418 | 6800000 |
| | 2011 | 46,75 | 195661427 | 166657373 | 6200000 |
| | 2012 | 46,97 | 197606133 | 180504922 | 6300000 |
| | 2013 | 47,33 | 208922976 | 179778732 | 6810000 |
| | 2014 | 48,35 | 235193135 | 216863733 | 6990000 |
| Uganda | 2010 | 47,29 | 2224999799 | 454990556 | 33800000 |
| | 2011 | 47,29 | 1841840108 | 546261144 | 34500000 |
| | 2012 | 47,60 | 1762176913 | 632647801 | 35600000 |
| | 2013 | 47,84 | 1843191698 | 542814467 | 37570000 |
| | 2014 | 48,26 | 1949867010 | 885361072 | 38840000 |
| Djibouti | 2010 | 45,26 | 99785807 | 50677149 | 850000 |
| | 2011 | 46,16 | 107944593 | 55640315 | 870000 |
| | 2012 | 46,45 | 121111127 | 60781098 | 880000 |
| | 2013 | 46,75 | 133022497 | 65351385 | 890000 |
| | 2014 | 47,04 | 167932323 | 71350758 | 900000 |

LAMPIRAN 2

UJI FIXED EFFECT MODEL

Dependent Variable: IPM?

Method: Pooled Least Squares

Date: 01/26/17 Time: 15:36

Sample: 2010 2014

Included observations: 5

Cross-sections included: 19

Total pool (balanced) observations: 95

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|-----------------------|-------------|------------|-------------|--------|
| C | -45.36085 | 14.11810 | -3.212956 | 0.0020 |
| LOG(PPBK?) | 2.392854 | 0.417904 | 5.725842 | 0.0000 |
| LOG(PPBP?) | 1.234416 | 0.336460 | 3.668832 | 0.0005 |
| LOG(JP?) | 1.134856 | 1.101140 | 1.030619 | 0.3061 |
| Fixed Effects (Cross) | | | | |
| _BENIN--C | 2.696324 | | | |
| _BURKINAFASO--C | -7.578939 | | | |
| _PANTAIGADING--C | -5.320275 | | | |
| _CAMEROON--C | 0.843570 | | | |
| _COMOROS--C | 16.55280 | | | |
| _GUINEA--C | -2.681144 | | | |
| _GAMBIA--C | 8.843259 | | | |
| _GUINEABISSAU--C | 7.125820 | | | |
| _MALI--C | -5.899093 | | | |
| _MOZAMBIQUE--C | -7.519088 | | | |
| _MAURITANIA--C | 9.088013 | | | |
| _NIGER--C | -11.34747 | | | |
| _SUDAN--C | -6.979965 | | | |
| _SENEGAL--C | -1.068167 | | | |
| _SIERRALEONE--C | -2.633848 | | | |
| _CHAD--C | -6.194800 | | | |
| _TOGO--C | 5.434316 | | | |
| _UGANDA--C | -2.818590 | | | |
| _DJIBOUTI--C | 9.457282 | | | |

Effects Specification

Cross-section fixed (dummy variables)

| | | | |
|--------------------|-----------|-----------------------|----------|
| R-squared | 0.992833 | Mean dependent var | 44.00579 |
| Adjusted R-squared | 0.990771 | S.D. dependent var | 4.468386 |
| S.E. of regression | 0.429270 | Akaike info criterion | 1.346281 |
| Sum squared resid | 13.45193 | Schwarz criterion | 1.937705 |
| Log likelihood | -41.94833 | Hannan-Quinn criter. | 1.585260 |
| F-statistic | 481.5311 | Durbin-Watson stat | 1.430468 |
| Prob(F-statistic) | 0.000000 | | |

LAMPIRAN 3

UJI RANDOM EFFECT MODEL

Dependent Variable: IPM?

Method: Pooled EGLS (Cross-section random effects)

Date: 01/26/17 Time: 15:37

Sample: 2010 2014

Included observations: 5

Cross-sections included: 19

Total pool (balanced) observations: 95

Swamy and Arora estimator of component variances

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|------------------------|-------------|------------|-------------|--------|
| C | 3.613824 | 9.237618 | 0.391207 | 0.6966 |
| LOG(PPBK?) | 2.512087 | 0.409811 | 6.129872 | 0.0000 |
| LOG(PPBP?) | 1.594455 | 0.325667 | 4.895964 | 0.0000 |
| LOG(JP?) | -2.523274 | 0.763856 | -3.303338 | 0.0014 |
| Random Effects (Cross) | | | | |
| _BENIN--C | 3.073222 | | | |
| _BURKINAFASO--C | -5.239938 | | | |
| _PANTAIGADING--C | -2.794626 | | | |
| _CAMEROON--C | 3.668571 | | | |
| _COMOROS--C | 8.553692 | | | |
| _GUINEA--C | -1.515979 | | | |
| _GAMBIA--C | 4.253464 | | | |
| _GUINEABISSAU--C | 2.254380 | | | |
| _MALI--C | -4.039274 | | | |
| _MOZAMBIQUE--C | -4.014114 | | | |
| _MAURITANIA--C | 6.299997 | | | |
| _NIGER--C | -8.829002 | | | |
| _SUDAN--C | -2.219911 | | | |
| _SENEGAL--C | 0.207840 | | | |
| _SIERRALEONE--C | -3.486273 | | | |
| _CHAD--C | -4.851941 | | | |
| _TOGO--C | 4.784170 | | | |
| _UGANDA--C | 2.027382 | | | |
| _DJIBOUTI--C | 1.868343 | | | |

| Effects Specification | | S.D. | Rho |
|-----------------------|--|----------|--------|
| Cross-section random | | 3.931405 | 0.9882 |
| Idiosyncratic random | | 0.429270 | 0.0118 |

| Weighted Statistics | | | |
|---------------------|----------|--------------------|----------|
| R-squared | 0.545888 | Mean dependent var | 2.146302 |
| Adjusted R-squared | 0.530917 | S.D. dependent var | 0.688560 |
| S.E. of regression | 0.471592 | Sum squared resid | 20.23833 |
| F-statistic | 36.46363 | Durbin-Watson stat | 0.984418 |
| Prob(F-statistic) | 0.000000 | | |

Unweighted Statistics

| | | | |
|-------------------|-----------|--------------------|----------|
| R-squared | -0.020282 | Mean dependent var | 44.00579 |
| Sum squared resid | 1914.916 | Durbin-Watson stat | 0.010404 |

LAMPIRAN 4

UJI CHOW

Redundant Fixed Effects Tests

Pool: PANEL

Test cross-section fixed effects

| Effects Test | Statistic | d.f. | Prob. |
|--------------------------|------------|---------|--------|
| Cross-section F | 354.037479 | (18,73) | 0.0000 |
| Cross-section Chi-square | 425.666989 | 18 | 0.0000 |

Cross-section fixed effects test equation:

Dependent Variable: IPM?

Method: Panel Least Squares

Date: 01/26/17 Time: 15:38

Sample: 2010 2014

Included observations: 5

Cross-sections included: 19

Total pool (balanced) observations: 95

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|--------------------|-------------|-----------------------|-------------|----------|
| C | 33.47473 | 6.033916 | 5.547761 | 0.0000 |
| LOG(PPBK?) | 2.130923 | 0.895415 | 2.379816 | 0.0194 |
| LOG(PPBP?) | 3.442691 | 0.847969 | 4.059927 | 0.0001 |
| LOG(JP?) | -6.167010 | 0.866558 | -7.116674 | 0.0000 |
| R-squared | 0.367150 | Mean dependent var | | 44.00579 |
| Adjusted R-squared | 0.346287 | S.D. dependent var | | 4.468386 |
| S.E. of regression | 3.612804 | Akaike info criterion | | 5.448038 |
| Sum squared resid | 1187.764 | Schwarz criterion | | 5.555570 |
| Log likelihood | -254.7818 | Hannan-Quinn criter. | | 5.491489 |
| F-statistic | 17.59798 | Durbin-Watson stat | | 0.035001 |
| Prob(F-statistic) | 0.000000 | | | |

LAMPIRAN 5

UJI HAUSMAN

Correlated Random Effects - Hausman Test

Pool: PANEL

Test cross-section random effects

| Test Summary | Chi-Sq. Statistic | Chi-Sq. d.f. | Prob. |
|----------------------|-------------------|--------------|--------|
| Cross-section random | 21.827971 | 3 | 0.0001 |

Cross-section random effects test comparisons:

| Variable | Fixed | Random | Var(Diff.) | Prob. |
|------------|----------|-----------|------------|--------|
| LOG(PPBK?) | 2.392854 | 2.512087 | 0.006699 | 0.1452 |
| LOG(PPBP?) | 1.234416 | 1.594455 | 0.007146 | 0.0000 |
| LOG(JP?) | 1.134856 | -2.523274 | 0.629033 | 0.0000 |

Cross-section random effects test equation:

Dependent Variable: IPM?

Method: Panel Least Squares

Date: 01/26/17 Time: 15:39

Sample: 2010 2014

Included observations: 5

Cross-sections included: 19

Total pool (balanced) observations: 95

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|------------|-------------|------------|-------------|--------|
| C | -45.36085 | 14.11810 | -3.212956 | 0.0020 |
| LOG(PPBK?) | 2.392854 | 0.417904 | 5.725842 | 0.0000 |
| LOG(PPBP?) | 1.234416 | 0.336460 | 3.668832 | 0.0005 |
| LOG(JP?) | 1.134856 | 1.101140 | 1.030619 | 0.3061 |

Effects Specification

Cross-section fixed (dummy variables)

| | | | |
|--------------------|-----------|-----------------------|----------|
| R-squared | 0.992833 | Mean dependent var | 44.00579 |
| Adjusted R-squared | 0.990771 | S.D. dependent var | 4.468386 |
| S.E. of regression | 0.429270 | Akaike info criterion | 1.346281 |
| Sum squared resid | 13.45193 | Schwarz criterion | 1.937705 |
| Log likelihood | -41.94833 | Hannan-Quinn criter. | 1.585260 |
| F-statistic | 481.5311 | Durbin-Watson stat | 1.430468 |
| Prob(F-statistic) | 0.000000 | | |

LAMPIRAN 6

UJI HETEROSKEDASTISITAS DENGAN MENGGUNAKAN UJI PARK

Dependent Variable: RESID?

Method: Pooled Least Squares

Date: 01/26/17 Time: 15:52

Sample: 2010 2014

Included observations: 5

Cross-sections included: 19

Total pool (balanced) observations: 95

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|-----------------------|-------------|------------|-------------|--------|
| C | 9.310096 | 7.353531 | 1.266072 | 0.2095 |
| LOG(PPBK?) | -0.157656 | 0.217669 | -0.724292 | 0.4712 |
| LOG(PPBP?) | -0.283246 | 0.175248 | -1.616256 | 0.1104 |
| LOG(JP?) | -0.026718 | 0.573538 | -0.046584 | 0.9630 |
| Fixed Effects (Cross) | | | | |
| _BENIN--C | -0.009810 | | | |
| _BURKINAFASO--C | 0.488254 | | | |
| _PANTAIGADING--C | 0.779217 | | | |
| _CAMEROON--C | 0.822825 | | | |
| _COMOROS--C | -1.072660 | | | |
| _GUINEA--C | -0.061939 | | | |
| _GAMBIA--C | -0.987362 | | | |
| _GUINEABISSAU--C | -1.204503 | | | |
| _MALI--C | 0.236016 | | | |
| _MOZAMBIQUE--C | 0.511364 | | | |
| _MAURITANIA--C | -0.358487 | | | |
| _NIGER--C | 0.190201 | | | |
| _SUDAN--C | 1.264155 | | | |
| _SENEGAL--C | 0.253138 | | | |
| _SIERRALEONE--C | -0.277392 | | | |
| _CHAD--C | -0.053866 | | | |
| _TOGO--C | -0.232760 | | | |
| _UGANDA--C | 0.422083 | | | |
| _DJIBOUTI--C | -0.708474 | | | |

Effects Specification

Cross-section fixed (dummy variables)

| | | | |
|--------------------|----------|-----------------------|----------|
| R-squared | 0.386501 | Mean dependent var | 0.281039 |
| Adjusted R-squared | 0.210015 | S.D. dependent var | 0.251560 |
| S.E. of regression | 0.223589 | Akaike info criterion | 0.041726 |
| Sum squared resid | 3.649418 | Schwarz criterion | 0.633150 |
| Log likelihood | 20.01802 | Hannan-Quinn criter. | 0.280706 |
| F-statistic | 2.189983 | Durbin-Watson stat | 2.424985 |
| Prob(F-statistic) | 0.007414 | | |

LAMPIRAN 7

UJI MULTIKOLINERITAS

Covariance Analysis: Ordinary

Date: 01/26/17 Time: 15:59

Sample: 2010 2014

Included observations: 95

| Correlation | IPM | PPBK | PPBP | JP |
|-------------|----------|----------|----------|----------|
| IPM | 1.000000 | | | |
| PPBK | 0.217214 | 1.000000 | | |
| PPBP | 0.191089 | 0.809676 | 1.000000 | |
| JP | 0.017273 | 0.818409 | 0.816597 | 1.000000 |

LAMPIRAN 8
COMMON EFFECT MODEL

Dependent Variable: IPM?
 Method: Pooled Least Squares
 Date: 01/26/17 Time: 15:35
 Sample: 2010 2014
 Included observations: 5
 Cross-sections included: 19
 Total pool (balanced) observations: 95

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|--------------------|-------------|-----------------------|-------------|----------|
| LOG(PPBK?) | 3.596571 | 0.984323 | 3.653853 | 0.0004 |
| LOG(PPBP?) | 4.484391 | 0.951377 | 4.713582 | 0.0000 |
| LOG(JP?) | -7.160700 | 0.975452 | -7.340902 | 0.0000 |
| R-squared | 0.153110 | Mean dependent var | | 44.00579 |
| Adjusted R-squared | 0.134699 | S.D. dependent var | | 4.468386 |
| S.E. of regression | 4.156562 | Akaike info criterion | | 5.718323 |
| Sum squared resid | 1589.485 | Schwarz criterion | | 5.798972 |
| Log likelihood | -268.6204 | Hannan-Quinn criter. | | 5.750911 |
| Durbin-Watson stat | 0.044814 | | | |