

LAMPIRAN 1
DATA PERTUMBUHAN EKONOMI

(Juta)

Nama Negara	2011	2012	2013	2014	2015	2016	2017
Brazil	2296901	2341303	2411783	2424040	2337992	2256907	2278936
China	6682403	7207390	7766513	8333287	8908301	9505157	10161013
India	1766589	1862981	1981953	2128821	2302414	2466177	2629542
Indonesia	801682	850024	897262	942185	988129	1037864	1090459
Mexico	1096549	1136488	1151878	1184652	1223395	1259037	1284678
Russia	1605506	1664202	1693914	1706425	1658163	1654434	1680005

LAMPIRAN 2
DATA INVESTASI ASING LANGSUNG

(Juta)

Nama Negara	2011	2012	2013	2014	2015	2016	2017
Brazil	101158	86607	69686	97180	74718	78248	70332
China	280072	241214	290928	268097	242489	174750	168224
India	36499	23996	28153	34577	44009	44459	39978
Indonesia	20565	21201	23282	25121	19779	4542	22078
Mexico	24320	17570	47229	30287	36519	34776	31726
Russia	55084	50588	69219	22031	6853	32539	27886

LAMPIRAN 3
DATA TENAGA KERJA

Nama Negara	2011	2012	2013	2014	2015	2016	2017
Brazil	97106421	98201510	99541859	100603554	102301658	103214044	104278222
China	782565087	784480961	785747229	786573327	787073203	787050042	786738207
India	473683611	476800625	485906723	494963721	503834632	512765199	520194130
Indonesia	118672947	120202270	121651092	123063758	122582281	125383553	127110965
Mexico	51691471	53380542	54293599	54835995	56018784	56990890	58072901
Russia	76961789	76800194	76521071	76349070	76288744	76202012	75638703

LAMPIRAN 4
DATA TEKNOLOGI

	2011	2012	2013	2014	2015	2016	2017
Brazil	37.75	36.6	36.33	36.29	34.9	33.19	33.1
China	46.43	45.4	44.66	46.57	47.5	50.57	52.54
India	34.52	35.7	31.95	33.7	31.7	33.61	35.47
Indonesia	27.78	28.1	36.17	31.81	29.8	29.07	30.1
Mexico	30.45	32.9	36.82	36.02	38	34.56	35.79
Russia	35.85	37.9	37.2	39.14	39.3	38.5	38.76

LAMPIRAN 5
COMMON EFFECT

Dependent Variable: LOG(GWH)

Method: Least Squares

Date: 08/13/18 Time: 23:11

Sample: 1 42

Included observations: 42

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LOG(FDI)	0.250421	0.048334	5.181050	0.0000
LOG(LAB)	0.259614	0.036571	7.098999	0.0000
TECH	0.052549	0.007672	6.849433	0.0000
C	6.795800	0.421999	16.10384	0.0000
R-squared	0.932822	Mean dependent var		14.53973
Adjusted R-squared	0.927519	S.D. dependent var		0.712143
S.E. of regression	0.191726	Akaike info criterion		-0.375109
Sum squared resid	1.396833	Schwarz criterion		-0.209617
Log likelihood	11.87729	Hannan-Quinn criter.		-0.314449
F-statistic	175.8875	Durbin-Watson stat		1.239661
Prob(F-statistic)	0.000000			

LAMPIRAN 6

FIXED EFFECT

Dependent Variable: LOG(GWH?)
 Method: Pooled Least Squares
 Date: 08/13/18 Time: 22:59
 Sample: 2011 2017
 Included observations: 7
 Cross-sections included: 6
 Total pool (balanced) observations: 42

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-14.14967	5.532212	-2.557687	0.0153
LOG(FDI?)	-0.027965	0.027278	-1.025209	0.3127
LOG(LAB?)	2.368412	0.462641	5.119334	0.0000
TECH?	0.014613	0.005413	2.699675	0.0109
Fixed Effects (Cross)				
_BRAZIL--C	1.326986			
_CHINA--C	-2.420900			
_INDIA--C	-2.530260			
_INDONESIA--C	-0.019341			
_MEXICO--C	2.065225			
_RUSSIA--C	1.578289			

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.991636	Mean dependent var	14.53973
Adjusted R-squared	0.989608	S.D. dependent var	0.712143
S.E. of regression	0.072597	Akaike info criterion	-2.220385
Sum squared resid	0.173919	Schwarz criterion	-1.848027
Log likelihood	55.62809	Hannan-Quinn criter.	-2.083901
F-statistic	489.0425	Durbin-Watson stat	0.583319
Prob(F-statistic)	0.000000		

LAMPIRAN 7

UJI CHOW

Redundant Fixed Effects Tests
Equation: Untitled
Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	46.407908	(5,33)	0.0000
Cross-section Chi-square	87.501601	5	0.0000

Cross-section fixed effects test equation:
Dependent Variable: LOG(GWH)
Method: Panel Least Squares
Date: 08/13/18 Time: 23:07
Sample: 2011 2017
Periods included: 7
Cross-sections included: 6
Total panel (balanced) observations: 42

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LOG(FDI)	0.250421	0.048334	5.181050	0.0000
LOG(LAB)	0.259614	0.036571	7.098999	0.0000
TECH	0.052549	0.007672	6.849433	0.0000
C	6.795800	0.421999	16.10384	0.0000
R-squared	0.932822	Mean dependent var		14.53973
Adjusted R-squared	0.927519	S.D. dependent var		0.712143
S.E. of regression	0.191726	Akaike info criterion		-0.375109
Sum squared resid	1.396833	Schwarz criterion		-0.209617
Log likelihood	11.87729	Hannan-Quinn criter.		-0.314449
F-statistic	175.8875	Durbin-Watson stat		1.065560
Prob(F-statistic)	0.000000			

LAMPIRAN 8

RANDOM EFFECT

Dependent Variable: LOG(GWH?)
 Method: Pooled EGLS (Cross-section random effects)
 Date: 08/13/18 Time: 23:01
 Sample: 2011 2017
 Included observations: 7
 Cross-sections included: 6
 Total pool (balanced) observations: 42
 Swamy and Arora estimator of component variances

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	7.507443	0.498830	15.05009	0.0000
LOG(FDI?)	0.063251	0.025026	2.527422	0.0158
LOG(LAB?)	0.423727	0.044049	9.619409	0.0000
TECH?	0.034335	0.004661	7.366286	0.0000
Random Effects (Cross)				
_BRAZIL--C	0.314703			
_CHINA--C	0.232320			
_INDIA--C	-0.284424			
_INDONESIA--C	-0.351180			
_MEXICO--C	0.003473			
_RUSSIA--C	0.085109			
Effects Specification				
			S.D.	Rho
Cross-section random			0.093388	0.6233
Idiosyncratic random			0.072597	0.3767
Weighted Statistics				
R-squared	0.692607	Mean dependent var		4.098776
Adjusted R-squared	0.668340	S.D. dependent var		0.220167
S.E. of regression	0.126794	Sum squared resid		0.610915
F-statistic	28.54013	Durbin-Watson stat		0.555296
Prob(F-statistic)	0.000000			
Unweighted Statistics				
R-squared	0.837320	Mean dependent var		14.53973
Sum squared resid	3.382613	Durbin-Watson stat		0.100289

LAMPIRAN 9

UJI HAUSMAN

Correlated Random Effects - Hausman Test

Equation: Untitled

Test cross-section random effects

Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	80.916934	3	0.0000

Cross-section random effects test comparisons:

Variable	Fixed	Random	Var(Diff.)	Prob.
LOG(FDI)	-0.027965	0.063251	0.000118	0.0000
LOG(LAB)	2.368412	0.423727	0.212096	0.0000
TECH	0.014613	0.034335	0.000008	0.0000

Cross-section random effects test equation:

Dependent Variable: LOG(GWH)

Method: Panel Least Squares

Date: 08/13/18 Time: 23:08

Sample: 2011 2017

Periods included: 7

Cross-sections included: 6

Total panel (balanced) observations: 42

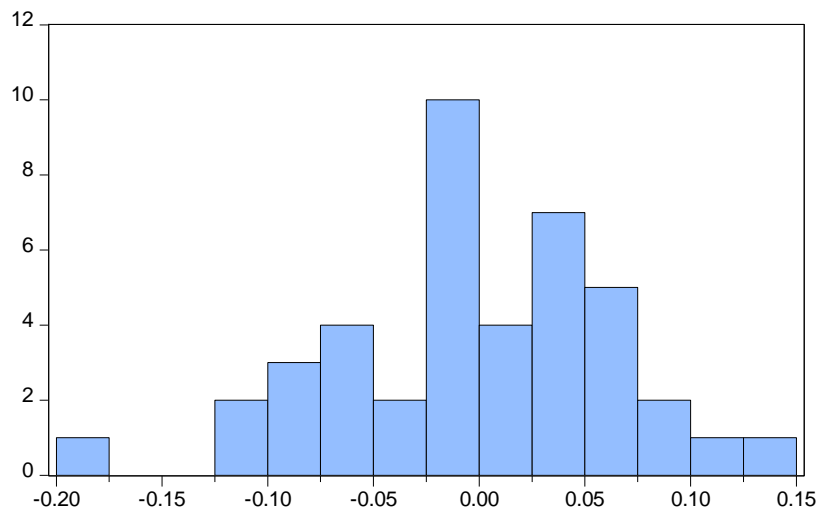
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-14.14967	5.532212	-2.557687	0.0153
LOG(FDI)	-0.027965	0.027278	-1.025209	0.3127
LOG(LAB)	2.368412	0.462641	5.119334	0.0000
TECH	0.014613	0.005413	2.699675	0.0109

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.991636	Mean dependent var	14.53973
Adjusted R-squared	0.989608	S.D. dependent var	0.712143
S.E. of regression	0.072597	Akaike info criterion	-2.220385
Sum squared resid	0.173919	Schwarz criterion	-1.848027
Log likelihood	55.62809	Hannan-Quinn criter.	-2.083901
F-statistic	489.0425	Durbin-Watson stat	0.583319
Prob(F-statistic)	0.000000		

LAMPIRAN 10
UJI NORMALITAS



Series: Standardized Residuals
Sample 2011 2017
Observations 42

Mean 4.03e-17
Median -0.004860
Maximum 0.125089
Minimum -0.182300
Std. Dev. 0.065130
Skewness -0.394774
Kurtosis 3.092052

Jarque-Bera 1.105753
Probability 0.575293

LAMPIRAN 11
UJI AUTOKOLERASI

Breusch-Godfrey Serial Correlation LM Test:

F-statistic	3.350236	Prob. F(2,36)	0.0563
Obs*R-squared	6.590556	Prob. Chi-Square(2)	0.0471

Test Equation:

Dependent Variable: RESID

Method: Least Squares

Date: 08/13/18 Time: 23:16

Sample: 1 42

Included observations: 42

Presample missing value lagged residuals set to zero.

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LOG(FDI)	-0.029287	0.048732	-0.600976	0.5516
LOG(LAB)	0.007542	0.034863	0.216349	0.8299
TECH	0.000531	0.007248	0.073209	0.9420
C	0.205294	0.413417	0.496577	0.6225
RESID(-1)	0.396891	0.167101	2.375156	0.0230
RESID(-2)	0.042237	0.175531	0.240621	0.8112

R-squared	0.156918	Mean dependent var	-1.37E-15
Adjusted R-squared	0.039823	S.D. dependent var	0.184578
S.E. of regression	0.180866	Akaike info criterion	-0.450562
Sum squared resid	1.177645	Schwarz criterion	-0.202323
Log likelihood	15.46180	Hannan-Quinn criter.	-0.359573
F-statistic	1.340095	Durbin-Watson stat	1.903790
Prob(F-statistic)	0.269808		

LAMPIRAN 12

UJI HETEROKEDASTISITAS

Heteroskedasticity Test: White

F-statistic	1.790326	Prob. F(9,32)	0.1090
Obs*R-squared	14.06573	Prob. Chi-Square(9)	0.1200
Scaled explained SS	15.13674	Prob. Chi-Square(9)	0.0872

Test Equation:

Dependent Variable: RESID²

Method: Least Squares

Date: 08/13/18 Time: 23:16

Sample: 1 42

Included observations: 42

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-4.513064	3.041536	-1.483811	0.1476
LOG(FDI) ²	0.008148	0.015605	0.522100	0.6052
LOG(FDI)*LOG(LAB)	-0.004823	0.024540	-0.196544	0.8454
LOG(FDI)*TECH	-0.001832	0.004272	-0.428707	0.6710
LOG(FDI)	-0.085958	0.226844	-0.378928	0.7072
LOG(LAB) ²	-0.049611	0.024472	-2.027264	0.0510
LOG(LAB)*TECH	0.009273	0.005274	1.758142	0.0883
LOG(LAB)	0.928518	0.488397	1.901155	0.0663
TECH ²	-0.000823	0.000521	-1.579300	0.1241
TECH	-0.028582	0.034846	-0.820246	0.4181

R-squared	0.334898	Mean dependent var	0.033258
Adjusted R-squared	0.147838	S.D. dependent var	0.054581
S.E. of regression	0.050385	Akaike info criterion	-2.933974
Sum squared resid	0.081238	Schwarz criterion	-2.520243
Log likelihood	71.61345	Hannan-Quinn criter.	-2.782325
F-statistic	1.790326	Durbin-Watson stat	1.984321
Prob(F-statistic)	0.109046		

LAMPIRAN 13**UJI MULTIKOLINIERITAS**

Variance Inflation Factors

Date: 08/13/18 Time: 23:17

Sample: 1 42

Included observations: 42

Variable	Coefficient Variance	Uncentered VIF	Centered VIF
LOG(FDI)	0.002336	311.5246	2.364407
LOG(LAB)	0.001337	222.0248	1.471685
TECH	5.89E-05	92.96202	2.250007
C	0.178083	203.4749	NA

LAMPIRAN 14

UJI LINIERITAS

Ramsey RESET Test
Equation: UNTITLED
Specification: LOG(GWH) LOG(FDI) LOG(LAB) TECH C
Omitted Variables: Squares of fitted values

	Value	Df	Probability
t-statistic	0.847620	37	0.4021
F-statistic	0.718459	(1, 37)	0.4021
Likelihood ratio	0.807731	1	0.3688

F-test summary:

	Sum of Sq.	Df	Mean Squares
Test SSR	0.026607	1	0.026607
Restricted SSR	1.396833	38	0.036759
Unrestricted SSR	1.370226	37	0.037033

LR test summary:

	Value	Df
Restricted LogL	11.87729	38
Unrestricted LogL	12.28115	37

Unrestricted Test Equation:
Dependent Variable: LOG(GWH)
Method: Least Squares
Date: 08/13/18 Time: 23:18
Sample: 1 42
Included observations: 42

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LOG(FDI)	-0.155573	0.481432	-0.323146	0.7484
LOG(LAB)	-0.179175	0.518972	-0.345250	0.7319
TECH	-0.037478	0.106490	-0.351936	0.7269
C	7.822162	1.282822	6.097620	0.0000
FITTED^2	0.056266	0.066381	0.847620	0.4021

R-squared	0.934102	Mean dependent var	14.53973
Adjusted R-squared	0.926978	S.D. dependent var	0.712143
S.E. of regression	0.192440	Akaike info criterion	-0.346721
Sum squared resid	1.370226	Schwarz criterion	-0.139856
Log likelihood	12.28115	Hannan-Quinn criter.	-0.270897
F-statistic	131.1179	Durbin-Watson stat	1.147557
Prob(F-statistic)	0.000000		

LAMPIRAN 15

DATA PANEL

Nama Negara	Tahun	PE	FDI	LABOR	GII
Brazil	2011	2296901	101158	97106	37.75
Brazil	2012	2341303	86607	98202	36.6
Brazil	2013	2411783	69686	99542	36.33
Brazil	2014	2424040	97180	100604	36.29
Brazil	2015	2337992	74718	102302	34.9
Brazil	2016	2256907	78248	103214	33.19
Brazil	2017	2278936	70332	104278	33.1
China	2011	6682403	280072	782565	46.43
China	2012	7207390	241214	784481	45.4
China	2013	7766513	290928	785747	44.66
China	2014	8333287	268097	786573	46.57
China	2015	8908301	242489	787073	47.5
China	2016	9505157	174750	787050	50.57
China	2017	10161013	168224	786738	52.54
India	2011	1766589	36499	473684	34.52
India	2012	1862981	23996	476801	35.7
India	2013	1981953	28153	485907	31.95
India	2014	2128821	34577	494964	33.7
India	2015	2302414	44009	503835	31.7
India	2016	2466177	44459	512765	33.61
India	2017	2629542	39978	520194	35.47
Indonesia	2011	801682	20565	118673	27.78
Indonesia	2012	850024	21201	120202	28.1
Indonesia	2013	897262	23282	121651	36.17
Indonesia	2014	942185	25121	123064	31.81
Indonesia	2015	988129	19779	122582	29.8
Indonesia	2016	1037864	4542	125384	29.07

Indonesia	2017	1090459	22078	127111	30.1
Mexico	2011	1096549	24320	51691	30.45
Mexico	2012	1136488	17570	53381	32.9
Mexico	2013	1151878	47229	54294	36.82
Mexico	2014	1184652	30287	54836	36.02
Mexico	2015	1223395	36519	56019	38
Mexico	2016	1259037	34776	56991	34.56
Mexico	2017	1284678	31726	58073	35.79
Russia	2011	1605506	55084	76962	35.85
Russia	2012	1664202	50588	76800	37.9
Russia	2013	1693914	69219	76521	37.2
Russia	2014	1706425	22031	76349	39.14
Russia	2015	1658163	6853	76289	39.3
Russia	2016	1654434	32539	76202	38.5
Russia	2017	1680005	27886	75639	38.76