

LAMPIRAN

Lampiran 1: Data Panel Penelitian (dalam juta rupiah)

Provinsi	Tahun	PAD	PDRB	DAU	DAK	Investasi
Aceh	2010	6967815	10154524000	621075	43416	82466
	2011	7610320	10487421000	716646	50611	463430
	2012	9180143	10891490000	911081	50414	1726341
	2013	10671827	11175583000	1092446	75149	4784604
	2014	11606325	11349036000	1201613	72954	5497184
	2015	11694163	11266104000	1237895	70866	4484854
	2016	12551166	11638673000	1263871	155251	4285300
	2017	14291939	121263000	1930152	1560836	8060000
Sumatera Utara	2010	3885636	33108524000	812748	29138	2299120
	2011	4958482	35314759000	948868	38486	8507552

	2012	7201840	37592414000	1103389	41628	8790351
	2013	7397986	39872714000	1223445	54823	15886638
	2014	7772029	41957331000	1349132	59728	11075852
	2015	8480759	44095585000	1139261	47747	21477350
	2016	9973988	46377546000	1604506	3103685	18664120
	2017	12170582	487531000	2638744	4028794	131985000
Sumatera Barat	2010	1920971	10501774000	648943	14415	145184
	2011	2071161	11167949000	662403	40733	1233857
	2012	2922582	11872442000	764681	32501	1610550
	2013	3147839	12594063000	918560	63942	1791875
	2014	3635838	13334084000	1129886	54108	1815624
	2015	4052249	14070488000	1221129	62731	2340195
	2016	4595704	14811075000	1261916	1180339	4874080
	2017	6110977	155964000	2067838	1764826	17114000
Riau	2010	4346845	38857823000	58869	22369	1819618
	2011	5440441	41021584000	380051	56823	9387736

	2012	6847315	425626000	489180	62491	16598843
	2013	6994646	43618751000	726631	38738	20779726
	2014	8132410	44798678000	820985	43738	24744180
	2015	6911045	44899196000	654220	63362	18956653
	2016	7588648	45899809000	737745	1421530	18433460
	2017	8859018	471420000	1434458	1686339	118909000
Jambi	2010	1640186	9061841000	488743	20030	559439
	2011	2078807	9774087000	583882	24736	4127140
	2012	2654694	10461508000	731952	33110	2957121
	2013	2886305	11176613000	836578	53328	3217683
	2014	3165056	11999144000	948338	49356	1547416
	2015	3129719	12503640000	1009166	57945	5025922
	2016	3441963	13049963000	1070425	81645	4714000
	2017	4163725	136557000	1432088	967584	30834000
Sumatera Selatan	2010	3224160	19401297000	512084	17807	3421807
	2011	3963985	20636070000	646813	32287	6122496

	2012	5223884	22045920000	716153	45401	10535088
	2013	5468140	2321755000	870518	25188	9318635
	2014	6237368	24329777000	985543	62755	20185660
	2015	5990424	25404488000	931915	69405	19852911
	2016	7036774	26681541000	1071421	148180	46525700
	2017	8587020	281544000	1721811	2017261	93831000
Lampung	2010	2091684	15056084000	643376	27574	549705
	2011	2527991	16043750000	769973	42210	1545306
	2012	3742004	17076921000	939139	31088	1409481
	2013	3901951	18062001000	1060663	60108	1895745
	2014	4526532	18979749000	1136053	48852	5443560
	2015	4787308	19953610000	1097129	245066	4905582
	2016	5350903	20980719000	1321679	1651558	7197320
	2017	6723785	220657000	1906179	1902233	71354000
Bengkulu	2010	1000861	2835257000	523041	20984	235304
	2011	1166982	3219971000	607388	36610	897297

	2012	1562525	3620768000	775311	28621	346568
	2013	1696370	4056549000	854648	51587	381415
	2014	1986239	453899000	955095	53927	247892
	2015	2180679	5033699000	1046081	63893	838077
	2016	2417156	5540251000	1070751	419941	1706620
	2017	3041325	42080000	1354429	0	4352000
Kep.Bangka Belitung	2010	848025	3556190000	410642	8072	20279
	2011	1193497	3801399000	481590	17881	1838328
	2012	1384937	4010491000	634088	25136	1105964
	2013	1529111	4219086000	717140	44171	1978244
	2014	1719594	4415944000	806820	43372	1921700
	2015	1886999	4596146000	897887	44356	2164547
	2016	2015482	4785269000	905526	77899	2918720
	2017	2355579	50008000	1035119	455719	18878000
Kep.Riau	2010	1853590	11122367000	310162	21903	206502
	2011	1876879	11896142000	395746	23166	3362640

	2012	2473412	12803497000	460858	23166	5237257
	2013	2843718	13726385000	656068	36673	4265767
	2014	2919185	14632523000	698009	41678	4906224
	2015	2513438	15511288000	695944	42537	9446418
	2016	3026807	16292250000	866811	76385	7552260
	2017	3201559	166198000	1043954	552050	24295000
DKI Jakarta	2010	23025987	107518348000	0	0	6135103
	2011	28297361	114755823000	209909	0	53001339
	2012	35379180	122252792000	275328	0	48261559
	2013	39517544	129669457000	299182	0	37337418
	2014	43824301	137338913000	85985	0	73908436
	2015	44209238	145434582000	0	0	65442323
	2016	59004784	153937665000	0	2883078	58432420
	2017	62466130	1635856000	0	3148972	518573000
Jawa Barat	2010	9742188	90668576000	1086124	38570	31088712
	2011	11053860	96562206000	1181553	45765	46009979

	2012	16878129	102840974000	1269961	48356	52101469
	2013	19237611	109354355000	1472453	80072	95851506
	2014	22310953	114921606000	1687686	78215	100358180
	2015	24009981	120708341000	1303654	18904	105438267
	2016	26806857	127554648000	1247046	7596342	104764440
	2017	30540901	1342953000	2992042	9271388	435335000
Jawa Tengah	2010	6626317	62322462000	1168788	28304	1329428
	2011	7547670	65626813000	1276180	51790	4324700
	2012	11694480	69134312000	1516893	50630	8132405
	2013	13343358	72665512000	1670859	82523	18252953
	2014	15157460	76495915000	1803931	57973	19366296
	2015	16828154	80677536000	1629429	5263717	27141968
	2016	22026202	84938356000	1859907	5373908	38089280
	2017	23467518	894050000	3688746	6739831	222385000
DI Yogyakarta	2010	1374205	6467897000	527471	11384	54276
	2011	1604911	6804987000	620812	19490	295403

	2012	2171734	7170245000	757057	19053	1154983
	2013	2583057	7562745000	828335	34496	644594
	2014	3139872	7953608000	899924	37132	1511256
	2015	3400015	8347444000	920545	39084	1591535
	2016	3921069	8768793000	940835	643208	1215160
	2017	4988379	92301000	1380357	949084	3311000
Jawa Timur	2010	9980545	99064884000	1212935	56982	24070591
	2011	11493376	105440177000	1347502	55031	21584716
	2012	15543040	112446464000	1491561	53490	43749696
	2013	17372769	119278980000	1496594	48048	76246401
	2014	20772484	126268450000	1866548	101876	60555100
	2015	22228450	133139499000	1587262	66039	71265753
	2016	22663137	140523611000	1672878	5516241	72729200
	2017	27932994	1482148000	3687184	7298680	466112000
Banten	2010	3139438	27146528000	13661	13661	19805891
	2011	3755614	29054584000	45180	45180	201228356

	2012	5413705	31038559000	530833	29687	31384121
	2013	6230230	33109911000	617081	10601	49354218
	2014	7068433	34935123000	728490	12538	33391724
	2015	7328221	36821655000	640981	16789	45776790
	2016	8005287	38759537000	693447	1537832	52030860
	2017	9790923	409960000	1105821	2377528	181894000
Bali	2010	237707	9374935000	489943	8351	2828119
	2011	26662077	9999163000	560674	15916	4685083
	2012	3633134	10695146000	694079	34026	3574094
	2013	4109378	11410358000	792366	43835	7749380
	2014	4577678	12178757000	832297	41601	5565924
	2015	4967967	12913059000	831597	134497	8089961
	2016	5619450	13719252000	850144	844872	6610460
	2017	6222704	144964000	1311447	1156285	14794000
Nusa Tenggara Barat	2010	1272218	7012273000	573065	24764	3798238
	2011	1689351	6737914000	646671	45964	4259827

	2012	2242817	6634081000	809618	53326	6193586
	2013	2379594	6976671000	859353	57408	7348670
	2014	2789427	7337296000	980390	54663	7068184
	2015	3448586	8934458000	1088634	214257	9996023
	2016	3576521	9454821000	1117692	1090304	7313200
	2017	4791395	94645000	1496973	1372423	55456000
Nusa Tenggara Timur	2010	1088071	4384661000	674636	30249	34437
	2011	1324470	4633413000	752057	47399	50874
	2012	2241542	4886319000	940647	57089	98529
	2013	2393070	5150519000	1003992	77823	138271
	2014	2787589	5410797000	1131688	74236	191444
	2015	3315669	5683192000	1300446	100655	2259971
	2016	3876020	5977570000	1337092	1445047	1613720
	2017	4722737	62788000	1782981	1829233	12209000
Kalimantan Barat	2010	1778927	8606585000	755123	29619	2711434
	2011	2202217	9079759000	845484	38370	5944348

	2012	2932913	9616193000	1023230	43913	6654825
	2013	3262314	10198034000	1144713	74172	33143850
	2014	3719770	10711496000	1290223	63189	16339084
	2015	4073147	11232486000	1405594	85584	24569482
	2016	4761613	11818463000	1493486	189823	17593020
	2017	5095395	124307000	1667450	1516276	129493000
Kalimantan Tengah	2010	1555426	5653102000	707880	32296	8446778
	2011	1921945	6049293000	795816	51915	8306272
	2012	2514031	6464917000	951256	50184	9603449
	2013	2809096	6941099000	1062517	63299	7705522
	2014	3129695	7372452000	1152429	61189	12810840
	2015	3232748	7889097000	1280596	72526	14149112
	2016	4235178	8390949000	1294850	272357	13730620
	2017	4086898	89565000	1612658	691371	36788000
Kalimantan Selatan	2010	2279776	85305000	458075	19837	3842079
	2011	3148043	9125213000	504876	37246	4585703

	2012	4381611	9669784000	652535	38848	6142941
	2013	4350811	10185054000	683511	41554	11475653
	2014	4793165	10677940000	701726	54190	8867600
	2015	4746943	11086788000	571245	63890	15320154
	2016	5579393	11572755000	779517	969446	9554840
	2017	5703186	121864000	1111201	953297	32257000
Kalimantan Timur	2010	7044557	41821158000	165	33643	17750419
	2011	9817100	44526442000	51447	38188	12031663
	2012	11886471	46964625000	52638	34616	25365647
	2013	11631697	438532910	55539	8048	32334191
	2014	11285828	44602905000	57313	1038	39551508
	2015	9376313	44064770000	0	218651	42462713
	2016	10296924	43897704000	80402	1011083	22383660
	2017	8098900	4528847000	649654	1133767	122654000
Sulawesi Utara	2010	1158671	5172133000	558781	17439	2145165
	2011	1365705	5491090000	691711	29288	2328374

	2012	1834908	5867759000	790534	43540	1130089
	2013	2062083	6242250000	885684	54346	867617
	2014	2320811	6636076000	949853	59675	1307096
	2015	2527959	7042514000	1026959	76745	1484560
	2016	3001755	747717000	1065545	668226	10275680
	2017	3556373	79495000	1340353	990544	19711000
Sulawesi Tengah	2010	1177610	5175207000	659331	28597	1405086
	2011	1410594	5683383000	743162	38179	5978987
	2012	1962393	6224953000	902088	43237	8401655
	2013	2132935	6821932000	994659	65949	11026895
	2014	2440227	7167753000	1087885	63942	18683648
	2015	2901588	8280320000	1221603	250986	15938734
	2016	3312289	9107055000	1272925	872787	22845280
	2017	3579386	97552000	1493238	970464	34753000
Sulawesi Selatan	2010	2564076	17174074000	663422	29276	7204405
	2011	3110567	18570847000	706276	41886	4798793

	2012	4433963	20218459000	996940	42774	7952642
	2013	4867593	21758913000	1089771	64264	6562069
	2014	5503161	23398805000	1209599	72976	8443996
	2015	6105815	25075828000	1180010	222686	12433674
	2016	6851572	26933855000	1394148	425077	8400600
	2017	8901929	288909000	2266265	2595324	26822000
Sulawesi Tenggara	2010	1055174	4840115000	595762	24032	145704
	2011	1288980	5354669000	700837	33805	213156
	2012	1811984	5978540000	870258	34660	1252519
	2013	1972560	6426871000	981036	53267	2314730
	2014	2189560	6829178000	1053636	58750	3262692
	2015	2471389	7299133000	1176424	86400	4015675
	2016	2641119	7773955000	1200634	190920	6909160
	2017	3545198	83038000	1602254	1047429	38417000
Gorontalo	2010	593415	1547574000	400751	10735	23929
	2011	697576	166699000	461118	28057	125150

	2012	933170	1798707000	582140	24008	506251
	2013	1052626	1936757000	652284	43014	397657
	2014	1209049	2077580000	734279	42374	96104
	2015	1389324	2206859000	845396	67884	189486
	2016	1682038	2350715000	884558	378985	2375220
	2017	1831693	25093000	1019780	413823	9297000
Sulawesi Barat	2010	610378	1718383000	405750	17532	1177043
	2011	718871	1902750000	441579	35861	269381
	2012	959030	2078689000	590680	36786	230534
	2013	1073860	2222739000	685498	47017	715573
	2014	1240242	2419565000	776214	50586	892872
	2015	1473750	2598365000	895581	72514	1131390
	2016	1706337	2755026000	925148	430186	364260
	2017	1813837	29449000	977904	509141	6716000
Maluku	2010	952661	1842858000	607573	32771	26204
	2011	1138187	2136786000	703994	44658	106196

	2012	1436646	2466175000	829491	38063	85595
	2013	1545465	2783444000	897657	53425	716225
	2014	1823030	3165648000	1019704	70134	162964
	2015	2132589	3434412000	1177775	216915	1173288
	2016	2479134	3706264000	1260898	247937	1406760
	2017	2860027	27812000	1465642	774789	2172300
Maluku Utara	2010	695829	1498391000	479481	26386	2222856
	2011	936792	1707814000	540390	51234	1190526
	2012	1196746	1934046000	703159	37858	1193701
	2013	1315899	2143949000	772591	69688	4387647
	2014	1508578	2404208000	906624	74623	1384128
	2015	1801248	2664079000	1061178	146686	2859621
	2016	2241174	2916523000	1132579	271523	5977840
	2017	2864176	23211000	1219426	582355	2431600
Papua Barat	2010	3407803	4136167000	604786	21757	206719
	2011	3699884	4286719000	700445	40539	347351

	2012	3873388	4442334000	901398	38633	355240
	2013	5637697	4769423000	1064873	64931	964644
	2014	5762348	5025991000	1122265	61216	2008296
	2015	5840353	5234649000	1284079	92376	3630787
	2016	6165288	5471128000	1322766	533498	7007800
	2017	688868	56907000	1378806	419629	1439000
Papua	2010	5661736	11080818000	1148498	75055	3156266
	2011	6227545	10606672000	1276286	72116	13276116
	2012	7462045	10789094000	1569782	106191	11681908
	2013	8361139	11711882000	1889268	133897	3460904
	2014	10709819	12139123000	1991292	120506	15931764
	2015	11805767	13045991000	2277933	460304	13649315
	2016	8912516	14247635000	2085374	328169	16110740
	2017	13968877	148824000	2570118	1242998	31420000

Lampiran 2: Model Regresi Data Panel

Common Effect Model

```
. reg lpad lpdrb ldak ldau linv
```

Source	SS	df	MS	Number of obs =	254
Model	119.811865	4	29.9529662	F(4, 249) =	108.25
Residual	68.8956834	249	.276689492	Prob > F =	0.0000
Total	188.707548	253	.745879637	R-squared =	0.6349
				Adj R-squared =	0.6290
				Root MSE =	.52601

lpad	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
lpdrb	.1844298	.0205594	8.97	0.000	.1439373 .2249223
ldak	.1586917	.0299242	5.30	0.000	.0997548 .2176286
ldau	.0550949	.0430429	1.28	0.202	-.0296796 .1398694
linv	.2352259	.0211159	11.14	0.000	.1936373 .2768145
_cons	9.861105	1.391453	7.09	0.000	7.120587 12.60162

```
. hettest
```

```
Breusch-Pagan / Cook-Weisberg test for heteroskedasticity
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```
Ho: Constant variance
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```
Variables: fitted values of lpad
```

```
chi2(1) = 6.04
```

```
Prob > chi2 = 0.0140
```

Fixed Effect Model

```

Fixed-effects (within) regression      Number of obs      =      254
Group variable: prov                  Number of groups   =      32

R-sq:  within = 0.4875                Obs per group: min =      7
      between = 0.6482                avg =              7.9
      overall  = 0.5549                max =              8

corr(u_i, Xb) = 0.4131                F(4,218)           =      51.84
                                          Prob > F           =      0.0000

```

lpad	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
lpdrb	.0484516	.0165967	2.92	0.004	.0157411	.081162
ldak	.0916198	.0200274	4.57	0.000	.0521478	.1310919
ldau	.1317145	.0412724	3.19	0.002	.0503705	.2130584
linv	.1480814	.0250463	5.91	0.000	.0987175	.1974452
_cons	16.93636	1.37694	12.30	0.000	14.22254	19.65018
sigma_u	.55225084					
sigma_e	.32101403					
rho	.74744564	(fraction of variance due to u_i)				

```

F test that all u_i=0:      F(31, 218) =      14.53      Prob > F = 0.0000

```

Random Effect Model

```

Random-effects GLS regression           Number of obs   =       254
Group variable: prov                   Number of groups =        32

R-sq:  within = 0.4733                  Obs per group:  min =         7
        between = 0.6949                                     avg =         7.9
        overall = 0.6103                                     max =         8

corr(u_i, X) = 0 (assumed)              Wald chi2(4)    =       258.94
                                           Prob > chi2     =        0.0000

```

lpad	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
lpdrb	.0865019	.0167441	5.17	0.000	.053684	.1193198
ldak	.0941696	.0214374	4.39	0.000	.052153	.1361862
ldau	.0984056	.0405242	2.43	0.015	.0189797	.1778315
linv	.2054258	.0223705	9.18	0.000	.1615804	.2492713
_cons	14.73285	1.354392	10.88	0.000	12.07829	17.38741
sigma_u	.29954905					
sigma_e	.32101403					
rho	.46545181	(fraction of variance due to u_i)				

Robust Standard Error

```
. xtreg lpad lpdrb ldau ldak linv lpd lrd, re vce(robust)
```

```
Random-effects GLS regression           Number of obs   =       252
Group variable: prov                   Number of groups =        32

R-sq:  within = 0.5164                  Obs per group: min =         6
        between = 0.7410                  avg =             7.9
        overall = 0.6806                  max =             8

corr(u_i, X) = 0 (assumed)              Wald chi2(6)     =    473.47
                                                Prob > chi2      =     0.0000
```

(Std. Err. adjusted for 32 clusters in prov)

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
lpad						
lpdrb	.0512403	.018672	2.74	0.006	.0146439	.0878367
ldau	.0670341	.0637306	1.05	0.293	-.0578755	.1919438
ldak	.0784625	.0141441	5.55	0.000	.0507406	.1061844
linv	.1102133	.0290963	3.79	0.000	.0531856	.1672409
lpd	.2854644	.0820452	3.48	0.001	.1246588	.4462701
lrd	.0239892	.0303148	0.79	0.429	-.0354266	.0834051
_cons	11.60889	2.084867	5.57	0.000	7.52262	15.69515
sigma_u	.30892149					
sigma_e	.31054765					
rho	.49737493	(fraction of variance due to u_i)				

Lampiran 3: Pemilihan Model

Chow Test

```
. reg lpad lpdrb ldak ldau linv
```

Source	SS	df	MS	
Model	119.811865	4	29.9529662	Number of obs = 254
Residual	68.8956834	249	.276689492	F(4, 249) = 108.25
Total	188.707548	253	.745879637	Prob > F = 0.0000
				R-squared = 0.6349
				Adj R-squared = 0.6290
				Root MSE = .52601

Hausman Test

```
. hausman fe re
```

	Coefficients		(b-B) Difference	sqrt(diag(V_b-V_B)) S.E.
	(b) fe	(B) re		
lpdrb	.0484516	.0865019	-.0380503	.
ldak	.0916198	.0941696	-.0025498	.
ldau	.1317145	.0984056	.0333088	.0078231
linv	.1480814	.2054258	-.0573445	.0112639

b = consistent under Ho and Ha; obtained from xtreg
 B = inconsistent under Ha, efficient under Ho; obtained from xtreg

Test: Ho: difference in coefficients not systematic

chi2(4) = (b-B)' [(V_b-V_B)^(-1)] (b-B)
 = 49.44
 Prob>chi2 = 0.0000
 (V_b-V_B is not positive definite)

Lampiran 4: Uji Asumsi Klasik

Heterokedasticity Test

```
. hettest
```

```
Breusch-Pagan / Cook-Weisberg test for heteroskedasticity
```

```
Ho: Constant variance
```

```
Variables: fitted values of lpad
```

```
chi2(1)      =      6.04
```

```
Prob > chi2  =      0.0140
```

Multikolinearity Test

```
. estat vif
```

Variable	VIF	1/VIF
ldak	1.97	0.508622
linv	1.48	0.675682
lpdrb	1.31	0.763137
ldau	1.26	0.795916
Mean VIF	1.50	