

APPENDICES

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 - b. Pengutipan tidak merugikan kepentingan yang wajar IPBUniversity.
2. Dilarang mengummumkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin IPBUniversity.

Appendix 1 Infrastructural data Availability based on IDI (Infrastructure Development Index) 2015

id	State	Year	pve	pcone	rlt	htl	vrcl	ppl	banpl	mobl	psar
1	Aceh Barat	2015	302	96.648	48.18	13	0.175	5	13	49	33
2	Aceh Barat Daya	2015	132	98.307	56.68	12	0.423	3	10	46	25
3	Aceh Besar	2015	604	99.417	76.45	6	0.182	14	18	181	32
4	Aceh Jaya	2015	149	99.410	106	6	0.782	1	7	35	16
5	Aceh Selatan	2015	241	94.157	167.97	15	0.784	7	16	58	41
6	Aceh Singkil	2015	112	97.756	47.39	21	0.571	3	5	27	17
7	Aceh Tamiang	2015	213	98.704	23.6	3	0.206	8	11	61	19
8	Aceh Tengah	2015	262	95.837	50.53	16	0.668	5	13	62	12
9	Aceh Tenggara	2015	369	96.626	39.19	16	0.187	2	7	35	17
10	Aceh Timur	2015	510	96.199	63.13	2	0.222	6	9	92	27
11	Aceh Utara	2015	840	97.689	43.24	0	0.079	9	17	131	46
12	Bener Meriah	2015	208	98.214	19.94	1	0.244	3	7	30	17
13	Bireuen	2015	609	97.711	59.61	8	0.125	6	14	92	33
14	Gayo Lues	2015	118	84.574	62.6	9	0.853	2	6	13	13
15	Kota Banda Aceh	2015	90	100.000	90.27	51	1.213	9	40	75	6
16	Kota Langsa	2015	66	99.399	9.86	15	0.308	1	10	32	6
17	Kota Lhokseumawe	2015	68	97.134	26.39	17	0.494	1	20	40	9
18	Kota Sabang	2015	18	99.103	25.69	79	2.864	1	3	14	6
19	Kota Subulussalam	2015	66	98.327	17.08	9	0.329	1	5	24	5
20	Nagan Raya	2015	209	99.303	111.1	2	0.810	4	9	38	26
21	Pidie	2015	727	97.707	91.22	14	0.197	8	24	97	37
22	Pidie Jaya	2015	222	97.636	60.08	3	0.374	4	8	32	24
23	Simeulue	2015	109	97.351	37.88	20	0.472	2	3	34	11

Appendix 2 Infrastructural data Availability based on IDI (Infrastructure Development Index) 2016

id	State	Year	pve	pcone	rlt	htl	vrcl	ppl	banpl	mobl	psar
1	Aceh Barat	2016	303	99.025	102.73	14	0.454	5	13	49	33
2	Aceh Barat Daya	2016	132	96.637	15.87	13	0.203	3	10	46	25
3	Aceh Besar	2016	604	98.866	61.82	6	0.283	14	18	181	32
4	Aceh Jaya	2016	150	98.716	13.53	6	0.146	1	7	35	16
5	Aceh Selatan	2016	241	97.001	14.18	16	0.295	7	16	58	41
6	Aceh Singkil	2016	116	99.803	29.49	21	0.767	3	5	27	17
7	Aceh Tamiang	2016	213	99.506	9	4	0.204	8	11	61	19
8	Aceh Tengah	2016	290	98.235	109.3	17	0.493	5	13	62	12
9	Aceh Tenggara	2016	369	95.298	11	16	0.135	2	7	35	17
10	Aceh Timur	2016	510	96.075	35.6	2	0.209	6	9	92	27
11	Aceh Utara	2016	840	99.147	55.32	1	0.089	9	17	131	46
12	Bener Meriah	2016	208	99.830	45.46	2	0.507	3	7	30	17
13	Bireuen	2016	609	97.012	3.1	8	0.009	6	14	92	33
14	Gayo Lues	2016	119	82.366	26	8	1.045	2	6	13	13

15	Kota Banda Aceh	2016	91	99.722	15.5	54	0.251	9	40	75	6
16	Kota Langsa	2016	51	100.000	0	15	0.312	1	10	32	6
17	Kota Lhokseumawe	2016	69	97.618	2.8	15	0.041	1	20	40	9
18	Kota Sabang	2016	18	98.870	4.94	108	0.330	1	3	14	6
19	Kota Subulussalam	2016	74	99.043	15.75	10	0.884	1	5	24	5
20	Nagan Raya	2016	211	97.944	30.87	1	0.215	4	9	38	26
21	Pidie	2016	727	98.507	61.71	14	0.169	8	24	97	37
22	Pidie Jaya	2016	222	96.447	9.31	3	0.106	4	8	32	24
23	Simeulue	2016	113	97.544	68.50	21	1.609	2	3	34	11

Appendix 3 Infrastructural data Availability based on IDI (Infrastructure Development Index) 2017

id	State	Year	pve	pcone	rlt	htl	vcrl	ppl	banpl	mobl	psar
1	Aceh Barat	2017	321	97.706	87.95	11	0.454	5	13	49	33
2	Aceh Barat Daya	2017	133	99.045	17.71	13	0.203	3	10	46	25
3	Aceh Besar	2017	604	99.181	68.29	14	0.283	14	18	181	32
4	Aceh Jaya	2017	171	100.000	10.53	5	0.146	1	7	35	16
5	Aceh Selatan	2017	247	99.499	24.98	10	0.295	7	16	58	41
6	Aceh Singkil	2017	115	97.810	49.96	30	0.793	3	5	27	17
7	Aceh Tamiang	2017	213	99.718	11.42	7	0.204	8	11	61	19
8	Aceh Tengah	2017	270	97.537	117.08	23	0.493	5	13	62	12
9	Aceh Tenggara	2017	382	97.983	10	17	0.135	2	7	35	17
10	Aceh Timur	2017	515	97.703	29.7	5	0.209	6	9	92	27
11	Aceh Utara	2017	852	97.776	57.87	1	0.089	9	17	131	46
12	Bener Meriah	2017	233	99.160	55.36	2	0.507	3	7	30	17
13	Bireuen	2017	606	98.903	2.74	8	0.009	6	14	92	33
14	Gayo Lues	2017	119	91.323	73.22	9	1.045	2	6	13	13
15	Kota Banda Aceh	2017	90	99.902	0	67	0.251	9	40	75	6
16	Kota Langsa	2017	51	99.872	3.54	13	0.312	1	10	32	6
17	Kota Lhokseumawe	2017	68	99.965	10.7	16	0.041	1	20	40	9
18	Kota Sabang	2017	18	100.000	17.34	136	0.330	1	3	14	6
19	Kota Subulussalam	2017	74	98.843	1.1	9	0.884	1	5	24	5
20	Nagan Raya	2017	222	99.511	13.12	2	0.215	4	9	38	26
21	Pidie	2017	731	98.042	63.73	13	0.169	8	24	97	37
22	Pidie Jaya	2017	222	99.718	13.06	4	0.106	4	8	32	24
23	Simeulue	2017	137	98.578	64.5	21	1.609	2	3	34	11

Appendix 4 Infrastructural data Availability based on IDI (Infrastructure Development Index) 2018

id	State	Year	pve	pcone	rlt	htl	vcrl	ppl	banpl	mobl	psar
1	Aceh Barat	2018	321	98.549	124.22	11	0.629	5	13	49	33
2	Aceh Barat Daya	2018	133	98.044	72.05	13	0.626	3	10	46	25
3	Aceh Besar	2018	604	98.972	190.5	14	0.589	14	18	181	32
4	Aceh Jaya	2018	171	98.638	98.1	5	0.927	1	7	35	16
5	Aceh Selatan	2018	247	99.250	146.92	10	0.939	7	16	58	41
6	Aceh Singkil	2018	115	99.319	58.3	30	1.337	3	5	27	17
7	Aceh Tamiang	2018	213	98.713	44.06	7	0.403	8	11	61	19
8	Aceh Tengah	2018	270	99.842	136.34	23	1.161	5	13	62	12
9	Aceh Tenggara	2018	382	99.137	43.81	17	0.322	2	7	35	17
10	Aceh Timur	2018	515	99.137	107.78	5	0.416	6	9	92	27
11	Aceh Utara	2018	852	100.000	112.58	1	0.180	9	17	131	46
12	Bener Meriah	2018	233	99.473	92.83	2	0.751	3	7	30	17
13	Bireuen	2018	606	99.460	60.53	8	0.181	6	14	92	33
14	Gayo Lues	2018	119	89.495	108.32	9	1.898	2	6	13	13
15	Kota Banda Aceh	2018	90	100.000	44.53	67	0.631	9	40	75	6
16	Kota Langsa	2018	51	100.000	29.32	13	0.748	1	10	32	6
17	Kota Lhokseumawe	2018	68	100.000	22.52	16	0.636	1	20	40	9
18	Kota Sabang	2018	18	100.000	23.48	136	3.194	1	3	14	6
19	Kota Subulussalam	2018	74	99.688	41.17	9	1.656	1	5	24	5
20	Nagan Raya	2018	222	99.046	105.1	2	1.025	4	9	38	26
21	Pidie	2018	731	99.319	145.96	13	0.366	8	24	97	37
22	Pidie Jaya	2018	222	99.012	43.44	4	0.276	4	8	32	24
23	Simeulue	2018	137	98.296	96.72	21	2.081	2	3	34	11

Appendix 5 Infrastructural data Availability based on IDI (Infrastructure Development Index) 2019

id	State	Year	pve	pcone	rlt	htl	vcrl	ppl	banpl	mobl	psar
1	Aceh Barat	2019	321	98.766	140.95	15	0.454	5	13	49	33
2	Aceh Barat Daya	2019	133	98.911	21.11	11	0.203	3	10	46	25
3	Aceh Besar	2019	604	98.662	120.01	16	0.283	14	18	181	32
4	Aceh Jaya	2019	171	98.926	12.03	4	0.146	1	7	35	16
5	Aceh Selatan	2019	247	99.233	39.47	10	0.295	7	16	58	41
6	Aceh Singkil	2019	115	97.121	57.9	24	0.767	3	5	27	17
7	Aceh Tamiang	2019	213	99.427	26.42	7	0.204	8	11	61	19
8	Aceh Tengah	2019	270	99.640	138.04	23	0.493	5	13	62	12
9	Aceh Tenggara	2019	382	99.378	20.4	17	0.135	2	7	35	17
10	Aceh Timur	2019	515	98.866	60.6	8	0.208	6	9	92	27
11	Aceh Utara	2019	852	98.880	67.03	1	0.089	9	17	131	46

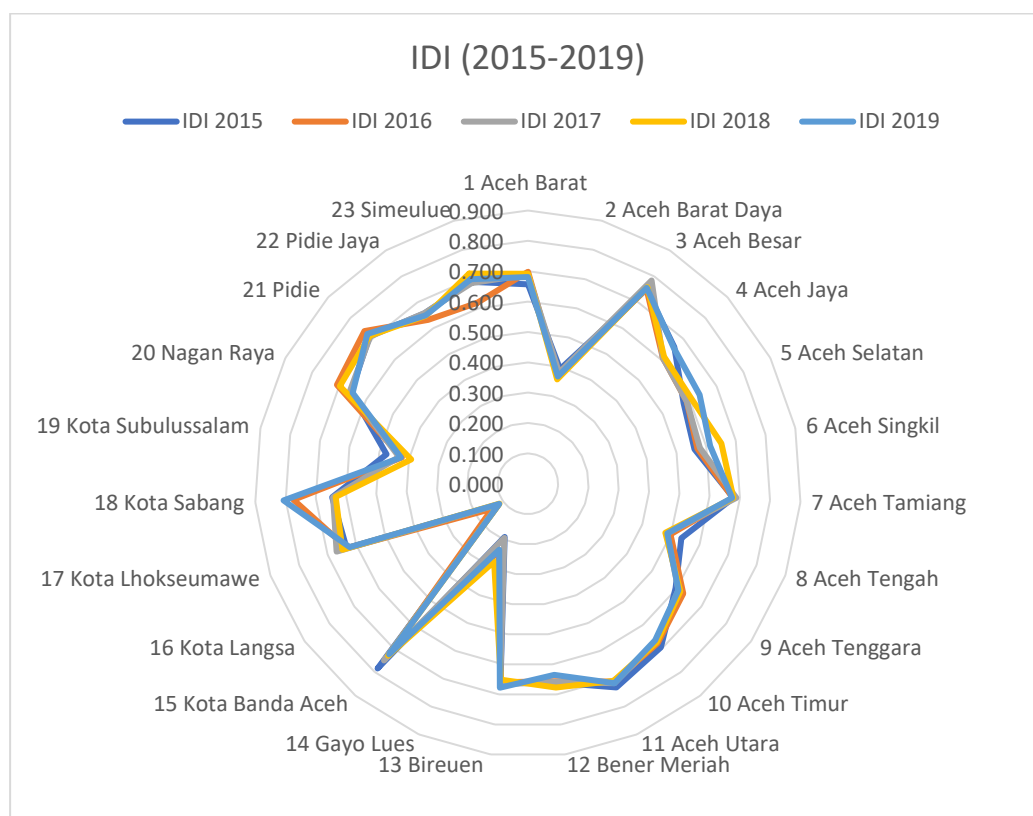


12	Bener Meriah	2019	233	98.114	89.34	2	0.507	3	7	30	17
13	Bireuen	2019	606	99.160	1.99	9	0.009	6	14	92	33
14	Gayo Lues	2019	119	91.237	135.07	9	1.045	2	6	13	13
15	Kota Banda Aceh	2019	90	100.000	22.4	82	0.251	9	40	75	6
16	Kota Langsa	2019	51	100.000	20.59	13	0.312	1	10	32	6
17	Kota Lhokseumawe	2019	68	99.547	2.8	18	0.041	1	20	40	9
18	Kota Sabang	2019	18	99.433	5.94	140	0.330	1	3	14	6
19	Kota Subulussalam	2019	74	100.000	32.23	10	0.884	1	5	24	5
20	Nagan Raya	2019	222	99.791	44.82	2	0.215	4	9	38	26
21	Pidie	2019	731	99.683	107.91	13	0.169	8	24	97	37
22	Pidie Jaya	2019	222	99.819	19.56	4	0.106	4	8	32	24
23	Simeulue	2019	137	99.570	110.74	19	1.609	2	3	34	11

Appendix 6 The value of IDI (Infrastructure Development Index) for each region for 2015-2019

no	city	IDI				
		2015	2016	2017	2018	2019
1	Aceh Barat	0.657	0.698	0.689	0.692	0.681
2	Aceh Barat Daya	0.392	0.368	0.380	0.356	0.367
3	Aceh Besar	0.750	0.751	0.784	0.758	0.755
4	Aceh Jaya	0.660	0.608	0.609	0.614	0.657
5	Aceh Selatan	0.578	0.590	0.589	0.608	0.637
6	Aceh Singkil	0.561	0.571	0.579	0.651	0.614
7	Aceh Tamiang	0.679	0.677	0.688	0.678	0.674
8	Aceh Tengah	0.536	0.498	0.487	0.480	0.488
9	Aceh Tenggara	0.595	0.627	0.608	0.615	0.607
10	Aceh Timur	0.694	0.677	0.669	0.672	0.665
11	Aceh Utara	0.731	0.711	0.717	0.708	0.717
12	Bener Meriah	0.661	0.657	0.659	0.678	0.636
13	Bireuen	0.661	0.660	0.667	0.651	0.678
14	Gayo Lues	0.191	0.243	0.194	0.280	0.237
15	Kota Banda Aceh	0.785	0.723	0.751	0.730	0.724
16	Kota Langsa	0.118	0.143	0.116	0.114	0.116
17	Kota Lhokseumawe	0.634	0.632	0.669	0.648	0.622
18	Kota Sabang	0.646	0.774	0.643	0.635	0.807
19	Kota Subulussalam	0.475	0.424	0.433	0.393	0.427
20	Nagan Raya	0.656	0.708	0.660	0.698	0.650
21	Pidie	0.713	0.736	0.711	0.714	0.723
22	Pidie Jaya	0.657	0.632	0.658	0.647	0.649
23	Simeulue	0.691	0.619	0.686	0.719	0.700

Appendix 7 IDI ((Infrastructure Development Index) for 2015-2019 (Spider Web)



Appendix 8 Gdp per capita of 23 cities/municipalities in Aceh Province 2015-2019

no	city	GDP/capita				
		2015	2016	2017	2018	2019
1	Aceh Barat	26.627	26.832	29.796	31.977	33.212
2	Aceh Barat Daya	17.836	18.308	18.808	19.372	19.968
3	Aceh Besar	21.685	22.086	22.508	22.962	23.527
4	Aceh Jaya	19.800	20.295	20.691	21.108	21.468
5	Aceh Selatan	15.894	16.362	16.763	17.306	17.799
6	Aceh Singkil	12.916	13.200	13.406	13.681	13.977
7	Aceh Tamiang	18.448	18.647	19.118	19.677	20.286
8	Aceh Tengah	25.356	25.946	26.494	27.023	27.380
9	Aceh Tenggara	14.605	14.926	15.345	15.519	15.901
10	Aceh Timur	18.016	17.472	17.831	18.280	18.706
11	Aceh Utara	26.006	25.601	25.896	26.751	27.321
12	Bener Meriah	22.442	22.929	23.418	23.964	24.479
13	Bireuen	19.485	19.899	20.275	20.753	21.364
14	Gayo Lues	19.541	19.959	20.611	20.857	20.536
15	Kota Banda Aceh	50.838	53.076	53.635	54.930	56.122
16	Kota Langsa	19.559	20.089	20.649	21.235	21.862
17	Kota Lhokseumawe	34.221	33.099	33.136	33.634	34.344
18	Kota Sabang	27.487	28.472	29.885	31.093	32.615

19	Kota Subulussalam	15.087	15.461	15.920	16.302	16.688
20	Nagan Raya	34.965	35.657	36.371	37.207	38.774
21	Pidie	15.742	16.085	16.535	16.987	17.498
22	Pidie Jaya	14.653	14.919	15.445	15.830	16.156
23	Simeulue	15.089	15.570	16.057	16.600	17.212
	average	22.013	22.387	22.982	23.611	24.226

Appendix 9 Poverty rate data in each region for 2015-2019 in Aceh Province

no	city	Poverty Rate				
		2015	2016	2017	2018	2019
1	Aceh Barat	41.36	40.11	40.72	39.56	39.288
2	Aceh Barat Daya	25.93	25.73	26.57	25.23	24.364
3	Aceh Besar	62.27	62.03	62.72	60.08	58.896
4	Aceh Jaya	13.85	13.1	13.23	12.85	12.352
5	Aceh Selatan	29.61	30.68	32.51	32.82	31.06
6	Aceh Singkil	24.84	25.09	26.27	25.74	25.661
7	Aceh Tamiang	40.38	40.88	42.01	41.21	39.353
8	Aceh Tengah	34.26	33.16	34.24	32.31	32.781
9	Aceh Tenggara	30.14	29.39	30.84	30.2	28.929
10	Aceh Timur	63.48	61.63	63.67	61.64	62.793
11	Aceh Utara	111.44	115.05	118.74	111.27	107.341
12	Bener Meriah	29.31	29.82	29.99	29.08	28.451
13	Bireuen	73.14	70.44	71.54	65.74	63.601
14	Gayo Lues	19.32	19.48	19.91	19.09	18.625
15	Kota Banda Aceh	19.3	18.8	19.23	19.13	19.421
16	Kota Langsa	19.22	18.63	19.20	18.73	18.624
17	Kota Lhokseumawe	23.15	23.28	24.40	23.88	23.051
18	Kota Sabang	5.86	5.81	5.98	5.62	5.428
19	Kota Subulussalam	15.25	14.99	15.44	14.78	14.563
20	Nagan Raya	31.32	30.31	31.06	31.06	29.932
21	Pidie	88.22	90.16	92.35	89.53	86.285
22	Pidie Jaya	31.81	31.94	33.60	31.72	30.974
23	Simeulue	18.12	17.93	18.40	18.22	17.667

Appendix 10 Unemployment rate data in each region for 2015-2019 in Aceh Province

no	City	Unemployment				
		2015	2016	2017	2018	2019
1	Aceh Barat	6.766	6.388	6.197	8.669	7.448
2	Aceh Barat Daya	11.663	6.833	3.159	3.949	4.304
3	Aceh Besar	6.806	7.930	8.493	7.300	7.747
4	Aceh Jaya	4.913	6.287	6.233	4.949	4.194
5	Aceh Selatan	10.005	6.406	7.244	6.078	6.577
6	Aceh Singkil	7.033	7.669	7.136	8.036	8.601
7	Aceh Tamiang	14.033	6.713	5.433	6.253	6.068

8	Aceh Tengah	3.128	6.104	3.914	2.128	2.654
9	Aceh Tenggara	9.786	7.690	4.749	3.758	3.460
10	Aceh Timur	13.894	7.974	8.418	6.926	7.637
11	Aceh Utara	17.048	8.684	11.022	10.176	8.627
12	Bener Meriah	1.039	5.194	1.058	1.072	1.025
13	Bireuen	11.017	7.649	4.504	3.522	3.878
14	Gayo Lues	2.244	6.931	1.709	2.525	1.739
15	Kota Banda Aceh	12.004	8.524	7.749	7.289	6.919
16	Kota Langsa	8.546	7.612	7.034	7.124	7.702
17	Kota Lhokseumawe	13.056	7.628	10.510	12.524	11.064
18	Kota Sabang	7.616	6.064	3.003	4.210	4.605
19	Kota Subulussalam	8.239	8.181	4.906	6.489	7.2473
20	Nagan Raya	3.969	7.133	4.107	5.937	5.350
21	Pidie	10.254	6.917	7.642	7.235	6.888
22	Pidie Jaya	9.182	7.950	4.885	5.022	4.365
23	Simeulue	8.513	7.360	3.117	4.938	5.868

Appendix 11 Forming the IDI (Infrastructure Development Index)

creating IDI

```
bysort id: gen idi = w_pve*y_pve + w_pcone*y_pcone + w_htl*y_htl + w_rlt*y_rlt +
w_vcrl*y_vcrl + w_ppl*y_ppl + w_banpl*y_banpl + w_mobl*y_mobl + w_psar*y_psar
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```
sum idi
```

Variable	Obs	Mean	Std. Dev.	Min	Max
idi	115	.5988306	.1620877	.1149917	.8068085

Variable	Obs	Mean	Std. Dev.	Min	Max
diff	115	.6918168	0	.6918168	.6918168

Appendix 12 Correlation matrix Stata results

correlation matrix

```
estpost correlate pve pcone rlt htl vcrl ppl banpl mobil psar poverty unemp rgdppc,
matrix listwise
```

	e (b)	e (rho)	e (p)	e (count)

pve				
pve	1	1		115
pcone	.375801	.375801	.0000349	115
rlt	-.0069114	-.0069114	.9415614	115
htl	.1055915	.1055915	.2613886	115
vcrl	-.1698211	-.1698211	.0696105	115
ppl	.3682707	.3682707	.0000514	115
banpl	.2161238	.2161238	.0203496	115
mobil	.3297719	.3297719	.0003194	115
psar	.3437671	.3437671	.0001689	115
poverty	.2741117	.2741117	.0030327	115
unemployment	.1742801	.1742801	.0624888	115
rgdppc	.210652	.210652	.0238379	115
pcone				
pcone	1	1		115
rlt	-.3119439	-.3119439	.0006894	115
htl	.1546525	.1546525	.0988835	115
vcrl	-.158283	-.158283	.0911196	115
ppl	.1367567	.1367567	.1450093	115
banpl	.1970161	.1970161	.0348228	115
mobil	.1852178	.1852178	.0475102	115
psar	.0018923	.0018923	.9839867	115
poverty	-.0096333	-.0096333	.9186146	115
unemployment	.1010528	.1010528	.2825603	115
rgdppc	.1935214	.1935214	.0382424	115
rlt				
rlt	1	1		115
htl	-.2362029	-.2362029	.0110413	115
vcrl	.2695054	.2695054	.0035838	115
ppl	.2494808	.2494808	.0071707	115
banpl	-.1413509	-.1413509	.1318525	115
mobil	.231543	.231543	.0127804	115
psar	.1604551	.1604551	.0867109	115
poverty	.1609186	.1609186	.0857924	115
unemployment	-.176865	-.176865	.0586401	115
rgdppc	-.2500441	-.2500441	.0070371	115
htl				
htl	1	1		115
vcrl	.3282444	.3282444	.0003418	115
ppl	-.1258472	-.1258472	.1801959	115
banpl	.1072171	.1072171	.2540757	115
mobil	-.1997981	-.1997981	.0322882	115
psar	-.4058485	-.4058485	6.80e-06	115
poverty	-.309984	-.309984	.000748	115
unemployment	-.0721689	-.0721689	.4433962	115
rgdppc	.4230363	.4230363	2.48e-06	115
vcrl				
vcrl	1	1		115
ppl	-.31342	-.31342	.000648	115
banpl	-.3049434	-.3049434	.0009206	115
mobil	-.36399	-.36399	.0000637	115
psar	-.3961948	-.3961948	.0000117	115
poverty	-.3904161	-.3904161	.0000161	115
unemployment	-.2072832	-.2072832	.0262305	115
rgdppc	-.0090216	-.0090216	.9237664	115
ppl				

Appendix 13 Path Correlation

(1)	pve	pcone	rlt	htl	vcrl	ppl	banpl	mobl	psar	poverty	unemplo-t	rgdppc
pve	1											
pcone	0.376***	1										
rlt	-0.00691	-0.312***	1									
htl	0.106	0.155	-0.236*	1								
vcrl	-0.170	-0.158	0.270**	0.328***	1							
ppl	0.368***	0.137	0.249**	-0.126	-0.313***	1						
banpl	0.216*	0.197*	-0.141	0.107	-0.305***	0.619***	1					
mobl	0.330***	0.185*	0.232*	-0.200*	-0.364***	0.898***	0.525***	1				
psar	0.344***	0.00189	0.160	-0.406***	-0.396***	0.621***	0.208*	0.624***	1			
poverty	0.274**	-0.00963	0.161	-0.310***	-0.390***	0.557***	0.267**	0.652***	0.670***	1		
unemplo-t	0.174	0.101	-0.177	-0.0722	-0.207*	0.268**	0.357***	0.347***	0.205*	0.338***	1	
rgdppc	0.211*	0.194*	-0.250**	0.423***	-0.00902	0.192*	0.642***	0.0903	-0.186*	-0.119	0.0907	1

* p<0.05, ** p<0.01, *** p<0.001

Appendix 14 Path analysis stata result

Path Analysis

pathreg (pov pve pcone rlt htl vcrl ppl banpl mobil psar unem) (unem pve pcone rlt htl vcrl ppl banpl mobil psar pov) (rgdppc pve pcone rlt htl vcrl ppl banpl mobil psar pov unem)

poverty	Coef.	Std. Err.	t	P> t	Beta
pve	22.70463	29.90612	0.76	0.449	.0586135
pcone	-1.031612	.7055125	-1.46	0.147	-.1108786
rlt	.0231344	.0348045	0.66	0.508	.0569117
htl	-.0029723	.0756586	-0.04	0.969	-.0031534
vcrl	-5.110553	3.70457	-1.38	0.171	-.1131161
ppl	-2.112806	1.286186	-1.64	0.103	-.2889419
banpl	.0178689	.2868112	0.06	0.950	.0059207
mobl	.3501118	.098508	3.55	0.001	.5652054
psar	.7951079	.1972848	4.03	0.000	.3953817
unemployment	1.040446	.6151101	1.69	0.094	.1233901
_cons	79.49457	65.07434	1.22	0.225	.

n = 115 R2 = 0.5871 sqrt(1 - R2) = 0.6426

unemployment	Coef.	Std. Err.	t	P> t	Beta
pve	5.177169	4.688855	1.10	0.272	.1126976
pcone	-.0913053	.1117303	-0.82	0.416	-.0827497
rlt	-.0126853	.0053423	-2.37	0.019	-.2631375
htl	-.0126143	.0118342	-1.07	0.289	-.1128454
vcrl	.5973297	.5849875	1.02	0.310	.1114834
ppl	-.3142025	.202552	-1.55	0.124	-.3623263
banpl	.1020483	.0439828	2.32	0.022	.2851135
mobl	.0357271	.0160275	2.23	0.028	.486336
psar	-.0182702	.0333133	-0.55	0.585	-.0766079
poverty	.0257332	.0152134	1.69	0.094	.216987
_cons	9.289436	10.26687	0.90	0.368	.

n = 115 R2 = 0.2739 sqrt(1 - R2) = 0.8521

rgdppc	Coef.	Std. Err.	t	P> t	Beta
pve	27.01479	10.66613	2.53	0.013	.1888315
pcone	-.1580224	.2534955	-0.62	0.534	-.0459875
rlt	-.0129051	.0124052	-1.04	0.301	-.0859597
htl	.0625435	.0269096	2.32	0.022	.1796605
vcrl	1.034413	1.329603	0.78	0.438	.0619927
ppl	-.2854686	.463354	-0.62	0.539	-.1057059
banpl	.8422341	.1020119	8.26	0.000	.7556057
mobl	-2.28e-06	.0371031	-0.00	1.000	-9.98e-06
psar	-.1158021	.075449	-1.53	0.128	-.1559182
poverty	-.0290265	.0348763	-0.83	0.407	-.0785932
unemployment	-.3424482	.2217648	-1.54	0.126	-.1099627
_cons	8.724819	23.31042	0.37	0.709	.

n = 115 R2 = 0.6207 sqrt(1 - R2) = 0.6158

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Appendix 15 Path regression analysis stata results

```
reg pov pve pcone rlt htl vcrl ppl banpl mobil psar unem, vce(robust)
```

```
Linear regression      Number of obs   =      115
                      F(10, 104)      =      9.78
                      Prob > F      =      0.0000
                      R-squared     =      0.5871
                      Root MSE    =      16.409
```

		Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
poverty							
pve		22.70463	16.52486	1.37	0.172	-10.06479	55.47404
pcone		-1.031612	.4394932	-2.35	0.021	-1.903144	-.1600808
rlt		.0231344	.0329367	0.70	0.484	-.0421803	.0884491
htl		-.0029723	.0463393	-0.06	0.949	-.0948648	.0889202
vcrl		-5.110553	3.086067	-1.66	0.101	-11.23034	1.009234
ppl		-2.112806	1.263542	-1.67	0.098	-4.618457	.3928443
banpl		.0178689	.2806231	0.06	0.949	-.5386173	.5743551
mobil		.3501118	.1169257	2.99	0.003	.1182438	.5819798
psar		.7951079	.2551544	3.12	0.002	.2891271	1.301089
unemployment		1.040446	.5790522	1.80	0.075	-.1078358	2.188728
_cons		79.49457	40.74746	1.95	0.054	-1.309162	160.2983

```
eststo result1
```

```
reg unem pve pcone rlt htl vcrl ppl banpl mobil psar pov, vce(robust)
```

```
Linear regression      Number of obs   =      115
                      F(10, 104)      =      4.13
                      Prob > F      =      0.0001
                      R-squared     =      0.2739
                      Root MSE    =      2.5805
```

		Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
unemployment							
pve		5.177169	4.329614	1.20	0.235	-3.408619	13.76296
pcone		-.0913053	.1030622	-0.89	0.378	-.2956815	.1130709
rlt		-.0126853	.0058858	-2.16	0.033	-.0243571	-.0010134
htl		-.0126143	.0085574	-1.47	0.143	-.0295839	.0043553
vcrl		.5973297	.4732543	1.26	0.210	-.3411514	1.535811
ppl		-.3142025	.2405181	-1.31	0.194	-.7911589	.1627539
banpl		.1020483	.0395837	2.58	0.011	.0235524	.1805442
mobil		.0357271	.0163662	2.18	0.031	.0032722	.0681819
psar		-.0182702	.032353	-0.56	0.573	-.0824275	.0458871
poverty		.0257332	.0154355	1.67	0.098	-.0048759	.0563424
_cons		9.289436	9.760793	0.95	0.343	-10.06658	28.64545

```
eststo result2
```

```
reg rgdppc pve pcone rlt htl vcrl ppl banpl mobil psar pov, vce(robust)
```

```
Linear regression      Number of obs   =      115
                      F(10, 104)      =      57.71
                      Prob > F      =      0.0000
                      R-squared     =      0.6119
                      Root MSE    =      5.8748
```

		Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
rgdppc							
pve		25.24188	6.094283	4.14	0.000	13.15669	37.32707
pcone		-.1267551	.1655856	-0.77	0.446	-.4551176	.2016075
rlt		-.0085611	.0116372	-0.74	0.464	-.031638	.0145159
htl		.0668633	.0202526	3.30	0.001	.0267016	.1070249

Appendix 16 Elasticity calculation for each independent variable

Variables	Mean	gdppc	Elasticity	Unemployment	Elasticity	Poverty	Elasticity
Per capita village electrified (pve)	0.96	23.574	0.982	2.678	0.384	16.783	0.492
Per capita consumption of electricity (pcon)	98.22	-0.031	-0.132	0.005	0.073	-1.143	-3.426
Road length (rlt)	77.46	0.014	0.047	-0.015	-0.220	-0.15	-0.450
Number of Hotel (htl)	17.76	0.076	0.059	-0.011	-0.127	-0.074	-0.175
Villages connected by road (vcrl)	0.52	-0.184	-0.004	0.536	1.423	1.886	0.030
Number of Bank (banpl)	11.96	0.796	0.413	0.1	0.008	0.099	0.036
Base Transceiver Station (mobl)	56.43	-0.036	-0.088	0.012	0.008	0.281	0.484
The number of market (psar)	20.57	-0.138	-0.123	-0.004	-0.007	0.878	0.551

The method for elasticity calculation:

$$\frac{\text{coefficient} \times \text{mean } j}{\text{mean } y}$$

Note:

1. *mean j = Mean*
2. *mean y*

poverty	32.77
unemployment	6.69
GDP/capita	23.04



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