

## LAMPIRAN

Lampiran 1. Data perusahaan

No.	Kode	Nama Perusahaan	2019	2020	2021	2022
			105	105	105	105
1	TKIM	Pabrik Kertas Tjiwi Kimia Tbk	x	x	x	x
2	ALDO	Alkindo Naratama Tbk				
3	KBRI	Kertas Basuki Rachmat Indonesia Tbk	x	x	x	x
4	INRU	Toba Pulp Lestari Tbk	x	x	x	x
5	FASW	Fajar Surya Wisesa Tbk	x	x	x	x
6	INKP	Indah Kiat Pulp & Paper Tbk				
7	SPMA	Suparma Tbk				
8	KDSI	Kedawung Setia Industrial Tbk				
9	SWAT	Sriwahana Adityakarta Tbk	x	x	x	x
10	INTP	Indocement Tunggul Prakarsa Tbk				
11	SMCB	Solusi Bangun Indonesia Tbk				
12	SMBR	Semen Baturaja (Persero) Tbk				
13	WSKT	Waskita Karya Tbk	x	x	x	x
14	SMGR	Semen Indonesia (Persero) Tbk				
15	WTON	Wijaya Karya Beton Tbk	x	x	x	x
16	JPFA	Japfa Comfeed Indonesia Tbk				
17	CPIN	Charoen Pokphand Indonesia Tbk				
18	SIPD	Sierad Produce Tbk	x	x	x	x
19	MAIN	Malindo Feedmill Tbk	x	x	x	x
20	AKKU	Alam Karya Unggul Tbk				
21	APLI	Asiaplast Industries Tbk	x	x	x	x
22	BRNA	Berlina Tbk	x	x	x	x
23	AKPI	Argha Karya Prima Industry Tbk	x	x	x	x
24	ESIP	Sinergi Inti Plastindo Tbk				
25	IGAR	Champion Pacific Indonesia Tbk				
26	IMPC	Impack Pratama Industri Tbk				
27	FPNI	Lotte Chemical Titan Tbk	x	x	x	x
28	IPOL	Indopoly Swakarsa Industry Tbk				
29	SIMA	Siwani Makmur Tbk	x	x	x	x
30	SMKL	Satyamitra Kemas Lestari Tbk				
31	PBID	Panca Budi Idaman Tbk				
32	YPAS	Yana Prima Hasta Persada Tbk	x	x	x	x
33	TALF	Tunas Alfin Tbk				
34	BRPT	Barito Pacific Tbk				
35	AGII	Aneka Gas Industri Tbk				
36	DPNS	Duta Pertiwi Nusantara Tbk				
37	EKAD	Ekadharma International Tbk	x	x	x	x
38	ETWA	Eterindo Wahanatama Tbk	x	x	x	x
39	BUDI	Budi Starch & Sweetener Tbk	x	x	x	x
40	MDKI	Emdeki Utama Tbk				
41	INCI	Intan Wijaya International Tbk				
42	SRSN	Indo Acidatama Tbk				
43	MOLI	Madusari Murni Indah Tbk				

No.	Kode	Nama Perusahaan	2019	2020	2021	2022
			105	105	105	105
44	TPIA	Chandra Asri Petrochemical Tbk	x	x	x	x
45	IFII	Indonesia Fireboard Industry Tbk				
46	SINI	Singaraja Putra Tbk	x	x	x	x
47	SULI	SLJ Global Tbk	x	x	x	x
48	TIRT	Trita Mahakam Resources Tbk	x	x	x	x
49	AMFG	Asahimas Flat Glass Tbk	x	x	x	x
50	CAKK	Cahayaputra Asa Keramik Tbk	x	x	x	x
51	KIAS	Inti Keramik Alamsri Industri Tbk	x	x	x	x
52	ARNA	Arwana Citra Mulia Tbk	x	x	x	x
53	MARK	Mark Dynamics Indonesia Tbk	x	x	x	x
54	TOTO	Surya Toto Indonesia	x	x	x	x
55	MLIA	Mulia Industrindo Tbk				
56	ALKA	Alaska Industrindo Tbk	x	x	x	x
57	ALMI	Alumindo Light Metal Industry Tbk	x	x	x	x
58	BTON	Betonjaya Manunggal Tbk	x	x	x	x
59	BAJA	Saranacental Bajatama Tbk	x	x	x	x
60	CTBN	Citra Tubindo Tbk	x	x	x	x
61	GGRP	Gunung Raja Paksi Tbk	x	x	x	x
62	GDST	Gunawan Dianjaya Steel Tbk	x	x	x	x
63	INAI	Indal Aluminium Industry Tbk	x	x	x	x
64	KRAS	Krakatau Steel (Persero) Tbk	x	x	x	x
65	ISSP	Steel Pipe Industry of Indonesia Tbk				
66	JKSW	Jakarta Kyohei Steel Work LTD Tbk	x	x	x	x
67	LION	Lion Metal Works Tbk	x	x	x	x
68	LMSH	Lionmesh Prima Tbk	x	x	x	x
69	PICO	Pelangi Indah Canindo Tbk	x	x	x	x
70	PURE	Trinitan Metal and Mineral Tbk	x	x	x	x
71	NIKL	Pelat Timah Nusantara Tbk				
72	TBMS	Tembaga Mulia Semanan Tbk	x	x	x	x
73	AMIN	Ateliers Mecaniques D'Indonesie Tbk	x	x	x	x
74	GMFI	Garuda Maintenance Facility Aero Asia Tbk	x	x	x	x
75	ARKA	Arkha Jayanti Persada Tbk	x	x	x	x
76	KRAH	Grand Kartech Tbk	x	x	x	x
77	KPAL	Steadfast Marine Tbk	x	x	x	x
78	ARGO	Argo Pantas Tbk	x	x	x	x
79	CNTB	Century Textile Industry Tbk	x	x	x	x
80	ADMG	Polychem Indonesia Tbk	x	x	x	x
81	BELL	Trisula Textile Industries Tbk	x	x	x	x
82	ERTX	Eratex Djaja Tbk	x	x	x	x
83	ESTI	Ever Shine Tbk	x	x	x	x
84	HDTX	Panasia Indo Resources Tbk	x	x	x	x
85	PBRX	Pan Brothers Tbk				
86	MYTX	Asia Pacific Investama Tbk	x	x	x	x
87	POLU	Golden Flower Tbk	x	x	x	x
88	SRIL	Sri Rejeki Isman Tbk	x	x	x	x
89	POLY	Asia Pacific Fibers Tbk	x	x	x	x

No.	Kode	Nama Perusahaan	2019	2020	2021	2022
			105	105	105	105
90	SSTM	Sunson Textile Manufacturer Tbk	x	x	x	x
91	STAR	Star Petrochem Tbk	x	x	x	x
92	TFCO	Tifico Fiber Indonesia Tbk	x	x	x	x
93	TRIS	Trisula International Tbk	x	x	x	x
94	UCIT	Uni-Charm Indonesia Tbk				
95	UNIT	Nusantara Inti Corpora Tbk	x	x	x	x
96	ZONE	Mega Perintis Tbk	x	x	x	x
97	JSKY	Sky Energi Indonesia Tbk	x	x	x	x
98	PTSN	Sat Nusapersada Tbk				
99	SLIS	Gaya Abadi Sempurna Tbk	x	x	x	x
100	CCSI	Communication Cable System Indonesia Tbk				
101	JECC	Jembo Cable Company Tbk	x	x	x	x
102	IKBI	Sumi Indo Kabel Tbk	x	x	x	x
103	KBLM	Kabelindo Murni Tbk	x	x	x	x
104	KBLI	KMI Wire and Cable Tbk	x	x	x	x
105	SCCO	Supreme Cable Manufacturing and Commerce Tbk	x	x	x	x
106	VOKS	Voksel Electric Tbk	x	x	x	x
107	AUTO	Astra Otoparts Tbk	x	x	x	x
108	ASII	Astra International Tbk	x	x	x	x
109	BOLT	Garuda Metalindo Tbk	x	x	x	x
110	BRAM	Indo Kordsa Tbk				
111	GDYR	Goodyear Indonesia Tbk	x	x	x	x
112	GJTL	Gajah Tunggal Tbk	x	x	x	x
113	IMAS	Indomobil Sukses Internasional Tbk	x	x	x	x
114	INDS	Indospring Tbk	x	x	x	x
115	NIPS	Nipress Tbk	x	x	x	x
116	PRAS	Prima Alloy Steel Universal Tbk	x	x	x	x
117	SMSM	Selamat Sempurna Tbk				
118	ULTJ	Ultrajaya Milk Industry and Trading Company Tbk				
119	CEKA	Wilmar Cahaya Indonesia Tbk				
120	CAMP	Campina Ice Cream Industry Tbk				
121	CLEO	Sariguna Primatirta Tbk				
122	AISA	Tiga Pilar Sejahtera Food Tbk	x	x	x	x
123	ALTO	Tri Banyan Tirta Tbk	x	x	x	x
124	ICBP	Indofood CBP Sukses Makmur Tbk				
125	COCO	Wahana Interfood Nusantara Tbk				
126	DLTA	Delta Djakarta Tbk				
127	DMND	Diamond Food Indonesia Tbk				
128	FOOD	Sentra Food Indonesia Tbk	x	x	x	x
129	GOOD	Garudafood Putra Putri Jaya Tbk				
130	HOKI	Buyung Poetra Sembada Tbk				
131	IKAN	Era Mandiri Cemerlang Tbk	x	x	x	x
132	INDF	Indofood Sukses Makmur Tbk				
133	KEJU	Mulia Boga Raya Tbk				
134	MLBI	Multi Bintang Indonesia Tbk	x	x	x	x

No.	Kode	Nama Perusahaan	2019	2020	2021	2022
			105	105	105	105
135	MYOR	Mayora Indah Tbk				
136	PANI	Pratama Abadi Nusa Industri Tbk	x	x	x	x
137	PCAR	Prima Cakrawala Abadi Tbk	x	x	x	x
138	PSDN	Prasidha Aneka Niaga Tbk	x	x	x	x
139	PSGO	Palma Serasih Tbk	x	x	x	x
140	ROTI	Nippon Indosari Corpindo Tbk				
141	SKBM	Sekar Bumi Tbk				
142	SKLT	Sekar Laut Tbk				
143	STTP	Siantar Top Tbk				
144	DVLA	Darya Varia Laboratoria Tbk				
145	INAF	Indofarma (Persero) Tbk	x	x	x	x
146	KAEF	Kimia Farma (Persero) Tbk	x	x	x	x
147	KLBF	Kalbe Farma Tbk	x	x	x	x
148	MERK	Merck Indonesia Tbk	x	x	x	x
149	PEHA	Phapros Tbk				
150	PYFA	Pyridam Farma Tbk				
151	SIDO	Industri Jamu & Farmasi Sido Muncul Tbk				
152	TSPC	Tempo Scan Pacific Tbk				
153	GGRM	Gudang Garam Tbk				
154	HMSP	Hanjaya Mandala Sampoerna Tbk				
155	ITIC	Indonesia Tobacco Tbk	x	x	x	x
156	RMBA	Bentoel International Investama Tbk	x	x	x	x
157	WIIM	Wisnilak Inti Makmur Tbk	x	x	x	x
158	ADES	Akasha Wira International Tbk	x	x	x	x
159	KINO	Kino Indonesia Tbk	x	x	x	x
160	KPAS	Cottonindo Ariesta Tbk	x	x	x	x
161	MBTO	Martina Berto Tbk	x	x	x	x
162	MRAT	Mustika Ratu Tbk	x	x	x	x
163	TCID	Mandom Indonesia Tbk	x	x	x	x
164	UNIV	Unilever Indonesia Tbk	x	x	x	x

Keterangan:

**Ungu** : Perusahaan manufaktur yang tidak mempublikasikan laporan tahunan  
 iipada tahun 2019 sampai 2022.

**Hijau** : Data Outlier.

## Lampiran 2. Daftar data outlier

No.	Kode	Tahun	DEA	VAIC	ROA	PBV
1	TKIM	2019	0,08996	0,82129	0,05438	1,66110
2		2020	0,04324	1,57617	0,04827	1,43742
3		2021	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
4		2022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5	INRU	2019	0,24739	1,23801	-0,04490	0,52414
6		2020	0,31529	1,65976	0,00807	0,68473
7		2021	0,33089	1,36842	0,00130	0,43399
8		2022	0,40765	1,12875	-0,04380	0,42963
9	FASW	2019	0,56712	3,67415	0,09011	12,27033
10		2020	0,51280	2,15352	0,03069	12,19666
11		2021	0,61476	1,34210	0,04642	11,08846
12		2022	0,56270	1,66508	0,00931	8,72913
13	SWAT	2019	0,42533	1,39203	0,00512	0,00000
14		2020	0,35931	1,31486	0,00335	0,94844
15		2021	0,46609	-1,52956	-0,10263	0,00000
16		2022	0,46807	-1,33950	-0,08822	0,00000
17	WSKT	2019	0,31947	1,77155	0,00839	2,81118
18		2020	0,17771	-3,24922	-0,08993	4,78820
19		2021	0,16962	4,88761	-0,01048	2,64536
20		2022	0,13550	24,26219	-0,01263	1,39309
21	WTON	2019	1,29649	11,77074	0,07694	1,11786
22		2020	1,04783	3,70764	0,02167	0,99221
23		2021	0,59783	3,53428	0,01316	0,61524
24		2022	0,68344	4,04521	0,36330	0,45760
25	SIPD	2019	0,88477	1,86493	0,03229	0,12936
26		2020	0,87656	1,60441	0,01090	0,18908
27		2021	0,86091	1,47006	-0,00422	0,30527
28		2022	0,89087	0,09713	-0,07264	0,28291
29	MAIN	2019	0,80965	1,91253	0,03279	2,56030
30		2020	0,77593	1,05516	-0,00833	1,92770
31		2021	0,80727	1,52423	0,01111	1,69070
32		2022	0,84023	1,38949	0,00456	1,22034
33	APLI	2019	0,66274	1,60711	0,02287	1,14655
34		2020	0,59416	0,78421	-0,01581	1,30981
35		2021	0,68700	2,32088	0,05386	1,21501
36		2022	0,79355	2,87906	0,09946	1,36778
37	BRNA	2019	0,42704	-75,26632	-0,07206	1,09842
38		2020	0,42711	16,16699	-0,09516	1,53241
39		2021	0,38625	2,22426	-0,09565	1,36909
40		2022	0,41424	-194,13828	-0,07294	1,45729



No.	Kode	Tahun	DEA	VAIC	ROA	PBV
41	AKPI	2019	0,59983	0,59204	0,01957	0,48785
42		2020	0,59912	1,16300	0,02496	0,54586
43		2021	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
44		2022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
45	FPNI	2019	1,20257	1,34964	-0,01598	0,48038
46		2020	1,21594	1,36047	-0,02440	1,50123
47		2021	1,22135	1,92231	0,04775	1,72996
48		2022	1,16119	1,61402	0,01594	0,71765
49	YPAS	2019	0,87094	1,62386	0,01254	3,02763
50		2020	0,87182	1,83933	0,03022	2,18772
51		2021	0,86003	1,05797	-0,03674	4,37986
52		2022	0,85912	1,44572	-0,00486	3,48832
53	ETWA	2019	0,16777	-10,34489	-0,03811	-0,17894
54		2020	0,44138	20,34746	0,08577	-0,22387
55		2021	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
56		2022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
57	TPIA	2019	0,49945	1,51648	0,00685	7,55825
58		2020	0,48102	2,15878	0,01434	6,33416
59		2021	0,59600	3,79486	0,03042	0,78037
60		2022	0,46976	4,63780	-0,03030	1,03716
61	SINI	2019	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
62		2020	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
63		2021	0,99191	2,94468	0,04826	2,92462
64		2022	1,01546	2,49536	0,05024	7,90568
65	SULI	2019	0,00097	3,86661	-0,00470	4,36765
66		2020	0,57380	1,53594	-0,36809	-1,10186
67		2021	0,58983	0,65260	0,06768	-1,37240
68		2022	0,69947	5,22100	0,62794	2,90753
69	TIRT	2019	0,77639	2,48497	-0,05777	1,49179
70		2020	0,23766	-1,96129	-1,04984	-0,13220
71		2021	0,04573	-10,42954	-0,44758	-0,22014
72		2022	0,00396	-10,24853	-0,34251	-0,08573
73	AMFG	2019	0,44149	-26,22612	-0,01513	0,43655
74		2020	0,41914	0,43178	-0,05413	0,39995
75		2021	0,50045	2,88263	0,04304	0,58510
76		2022	0,57790	3,84124	0,05858	0,64747
77	CAKK	2019	0,64047	1,29298	0,00626	0,60748
78		2020	0,50309	1,37783	0,00041	0,28812
79		2021	0,48892	36,66859	0,02788	0,48576
80		2022	0,48455	23,78845	0,02355	0,96256
81	KIAS	2019	0,06228	-0,45186	-0,05283	0,26473

No.	Kode	Tahun	DEA	VAIC	ROA	PBV
82		2020	0,07024	0,65725	-0,05840	0,19755
83		2021	0,15045	3,21490	-0,04463	0,21208
84		2022	0,18726	-1,87822	-0,02903	0,22242
85	ARNA	2019	0,83675	12,85626	0,16089	2,72001
86		2020	0,90150	14,92471	0,21323	3,82560
87		2021	0,97988	12,97639	0,21216	3,73332
88		2022	0,96957	11,33050	0,22551	3,98474
89	MARK	2019	0,94913	3,34096	0,19944	5,74404
90		2020	0,88128	3,80012	0,20035	7,79540
91		2021	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
92		2022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
93	TOTO	2019	0,67097	1,73858	0,04818	1,56602
94		2020	0,49267	1,36667	-0,00988	1,27688
95		2021	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
96		2022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
97	ALKA	2019	38,07586	2,88660	0,01216	2,02499
98		2020	57,55155	1,29502	0,01597	1,26429
99		2021	109,39761	3,92441	0,01473	1,00885
100		2022	166,22697	7,41805	0,01046	0,73482
101	BAJA	2019	0,85727	0,99705	0,00133	1,50430
102		2020	0,92416	5,37030	0,07248	1,63330
103		2021	1,00532	7,10159	0,12202	2,77759
104		2022	0,81007	-4,01422	-0,14130	1,89492
105	CTBN	2019	0,73601	1,59948	0,00955	1,78774
106		2020	0,73038	0,74566	-0,02344	1,83919
107		2021	0,64062	2,16967	-0,11707	1,50387
108		2022	0,72783	-1,18433	-0,04963	0,97398
109	GGRP	2019	0,55610	0,72717	-0,01944	0,49121
110		2020	0,42907	1,02814	-0,00755	0,54741
111		2021	0,49678	2,48228	0,05789	0,82119
112		2022	0,55635	2,35717	0,05655	0,48703
113	GDST	2019	0,63760	1,29025	0,01692	0,67539
114		2020	0,54507	1,30535	-0,03696	1,29803
115		2021	0,58322	1,32695	-0,03623	1,26751
116		2022	0,75582	1,28555	0,17232	1,42263
117	INAI	2019	0,95251	2,10583	0,02767	0,87320
118		2020	0,91484	1,96027	0,01878	0,65843
119		2021	0,93550	2,26014	0,00279	0,47851
120		2022	0,88607	0,19497	-0,07329	0,56229
121	KRAS	2019	0,34796	-1,97022	-0,13393	2,43684
122		2020	0,34795	2,22368	0,00716	2,61651

No.	Kode	Tahun	DEA	VAIC	ROA	PBV
123		2021	0,44685	2,14444	0,01159	1,90142
124		2022	0,53601	-0,03813	0,00716	1,46402
125	LION	2019	0,91152	1,29798	0,00838	0,51938
126		2020	0,82970	0,92818	-0,01098	0,40614
127		2021	0,75641	1,21299	-0,01272	0,38189
128		2022	0,86393	1,45426	0,00338	0,92570
129	LMSH	2019	1,00122	-16,06229	-0,12404	0,40213
130		2020	1,07128	0,38278	-0,05623	0,37212
131		2021	1,13108	2,03508	0,04478	0,51088
132		2022	1,05425	0,48190	-0,03584	0,64535
133	PICO	2019	0,59065	1,38105	0,00664	0,45977
134		2020	0,33077	0,91990	-0,05893	0,34366
135		2021	0,41629	3,47285	-0,04849	0,28497
136		2022	0,48734	1,64599	0,00794	0,70891
137	TBMS	2019	0,96057	3,73448	0,03852	0,45817
138		2020	0,97488	3,40585	0,02872	0,47609
139		2021	1,00326	5,93156	0,04737	0,77536
140		2022	1,11109	4,93298	0,03874	0,61448
141	AMIN	2019	0,87408	1,76528	0,03285	2,08838
142		2020	0,53688	0,97188	-0,17678	1,95647
143		2021	0,71201	1,57537	0,00909	1,40099
144		2022	0,76796	1,74682	0,02263	0,73554
145	GMFI	2019	2,48065	0,41094	-0,07141	2,74571
146		2020	1,05664	0,76397	-0,63119	-1,43089
147		2021	1,25338	3,58921	-0,32045	-0,43274
148		2022	1,41155	-1,95014	0,00929	-3,57846
149	ARKA	2019	0,30290	1,42540	0,00474	36,01365
150		2020	0,23961	-0,57820	-0,06776	5,46113
151		2021	0,22925	1,67778	0,00743	16,84418
152		2022	0,52641	1,86993	0,01271	31,25945
153	KPAL	2019	0,07068	0,69004	0,00007	272,13819
154		2020	0,01627	2,74615	-0,00811	256,12458
155		2021	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
156		2022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
157	ARGO	2019	0,21171	-1,19980	-0,08558	-0,22987
158		2020	0,05121	-6,98449	-0,06373	-0,50556
159		2021	0,76154	-0,00460	-0,02857	-0,42801
160		2022	0,78180	-5,59389	-0,08617	-0,29736
161	ADMG	2019	0,58951	-1,56434	-0,11594	5,93645
162		2020	0,51390	-2,64220	-0,18796	8,83637
163		2021	0,61240	1,74831	0,00175	3,98561



No.	Kode	Tahun	DEA	VAIC	ROA	PBV
164		2022	0,53602	-1,27914	-0,15550	6,61719
165	BELL	2019	0,93661	1,86878	0,03929	2,72150
166		2020	0,83167	0,77645	-0,02988	4,49367
167		2021	0,82807	1,38503	0,00796	4,07472
168		2022	0,85474	1,41785	0,00849	4,10427
169	ERTX	2019	0,86321	1,90551	0,01178	0,66234
170		2020	0,81760	1,54508	-0,01415	0,59999
171		2021	0,87535	2,12965	0,02178	0,96894
172		2022	0,89958	2,27632	0,04975	1,63505
173	ESTI	2019	0,51853	-5,60553	-0,04570	0,64638
174		2020	0,47913	0,72028	-0,01061	0,57316
175		2021	0,85902	2,25030	0,03149	1,12405
176		2022	0,93129	1,24667	0,00138	0,46787
177	HDTX	2019	0,02141	-10,94825	-0,00019	6,16011
178		2020	0,03373	-5,94105	-0,00018	0,00000
179		2021	0,02562	-0,77639	0,00000	0,00000
180		2022	0,01462	-6,51808	0,00000	0,00000
181	MYTX	2019	0,38319	-0,47613	-0,06539	1,39153
182		2020	0,27653	-7,31620	-0,02956	11,49653
183		2021	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
184		2022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
185	POLU	2019	1,26307	2,03454	0,02617	21,84237
186		2020	0,68120	1,17376	-0,02165	6,99128
187		2021	0,50888	-5,22098	-0,25344	4,63143
188		2022	0,51348	0,43651	-0,02992	3,32702
189	POLY	2019	0,71804	-0,76995	-0,04925	-0,01125
190		2020	0,62025	7,93802	-0,08717	-0,01103
191		2021	0,72034	1,29035	0,01437	-0,01499
192		2022	0,74403	1,86617	0,05399	-0,00924
193	SSTM	2019	0,60502	-0,24371	-0,03160	3,09751
194		2020	0,49819	-0,58689	-0,03185	3,58189
195		2021	0,51324	4,26914	0,12046	3,88187
196		2022	0,56036	0,63069	-0,01367	3,87609
197	TRIS	2019	0,59217	1,67795	0,02025	1,26492
198		2020	0,49718	1,50112	-0,00373	1,01353
199		2021	0,94435	1,62978	0,01699	1,02069
200		2022	1,02575	1,96968	0,05478	1,04123
201	UNIT	2019	0,33145	1,17237	0,00209	0,05472
202		2020	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
203		2021	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
204		2022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

No.	Kode	Tahun	DEA	VAIC	ROA	PBV
205	ZONE	2019	1,05371	34,19278	0,09543	1,41370
206		2020	0,52688	20,61425	-0,06709	1,30308
207		2021	0,73102	23,86370	0,05470	1,22658
208		2022	0,88695	19,88751	0,11191	3,08582
209	JSKY	2019	0,71368	2,70372	0,03201	1,90194
210		2020	0,60641	1,93357	0,01408	2,01325
211		2021	0,62168	-0,95640	-0,18785	1,32857
212		2022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
213	SLIS	2019	1,02007	3,30133	0,08530	55,61297
214		2020	1,00558	3,18798	0,06907	56,75886
215		2021	1,00286	3,12970	0,06382	7,81831
216		2022	1,02833	4,42413	0,09493	2,05044
217	JECC	2019	0,91755	9,52556	0,05428	1,23478
218		2020	0,78724	9,59710	0,00788	1,15192
219		2021	0,75620	10,08120	-0,04242	1,31387
220		2022	0,87702	9,50713	0,02731	0,99818
221	IKBI	2019	0,86148	1,88653	0,02558	0,25384
222		2020	0,75657	0,65099	-0,01370	0,29815
223		2021	0,81231	1,28242	-0,00438	0,28663
224		2022	0,83492	1,85903	0,02931	0,24232
225	KBLI	2019	0,95072	3,65875	0,11105	0,88304
226		2020	0,82776	0,68361	-0,02449	0,65475
227		2021	0,71365	2,62465	0,03426	0,45741
228		2022	0,76737	1,85246	0,02144	0,50432
229	SCCO	2019	0,82049	3,72216	-0,00022	0,60051
230		2020	0,76233	3,23409	-0,00102	0,65933
231		2021	0,65275	11,66532	0,02995	0,48485
232		2022	0,64574	4,70939	0,02081	0,37591
233	VOKS	2019	0,87901	3,32398	0,06878	1,50552
234		2020	0,76146	1,15301	0,00095	0,88185
235		2021	0,68460	1,87545	-0,07287	0,82582
236		2022	0,77686	1,59924	-0,07166	0,80327
237	AUTO	2019	0,67954	1,78871	0,05164	0,51298
238		2020	0,60440	1,19307	-0,00249	0,47681
239		2021	0,66191	1,78208	0,03747	0,46994
240		2022	0,72212	2,27436	0,07960	0,53915
241	ASII	2019	-11,58832	2,88155	7,56369	1,50109
242		2020	-9,78634	2,58853	5,49108	1,24793
243		2021	-11,35953	3,19531	7,26962	1,07022
244		2022	-13,52592	4,00210	11,95140	0,94681
245	BOLT	2019	0,77004	1,74979	0,04068	2,40794

No.	Kode	Tahun	DEA	VAIC	ROA	PBV
246		2020	0,62014	0,34264	-0,05128	2,18153
247		2021	0,74975	2,31062	0,06047	2,54077
248		2022	0,79307	1,89716	0,04089	2,49430
249	GDYR	2019	0,68919	1,27980	-0,00994	1,12665
250		2020	0,65157	1,24943	-0,06104	0,64161
251		2021	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
252		2022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
253	GJTL	2019	6,91540	1,73165	0,01427	0,32693
254		2020	6,73380	1,90052	0,01793	0,33297
255		2021	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
256		2022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
257	IMAS	2019	0,41334	1,01378	0,00349	0,49036
258		2020	0,34586	3,50293	-0,01396	0,47587
259		2021	0,38798	1,48359	-0,00500	0,27051
260		2022	0,65498	2,35340	0,00979	0,24669
261	INDS	2019	0,57021	4,01156	0,03580	0,53252
262		2020	0,50698	1,65160	0,02079	0,46439
263		2021	0,70547	2,09037	-0,00160	0,45847
264		2022	0,71362	2,42268	0,00696	0,42799
265	PRAS	2019	0,24686	-1,02378	-0,02633	0,14765
266		2020	0,21111	0,49509	-0,00297	0,16452
267		2021	0,18709	-0,89570	-0,00043	0,36537
268		2022	0,06895	-0,32051	-0,05746	0,28458
269	AISA	2019	0,59182	6,46264	0,60717	-1,25610
270		2020	0,53408	8,49329	0,59902	5,83660
271		2021	0,54123	2,66590	0,00327	2,85445
272		2022	0,61839	1,80273	0,03414	2,26280
273	ALTO	2019	0,28236	0,90824	-0,00669	2,29129
274		2020	0,27247	0,76652	-0,00950	1,81048
275		2021	0,29826	0,76576	-0,00820	1,68682
276		2022	0,32883	0,45736	-0,01576	1,00511
277	FOOD	2019	0,69352	1,57858	0,01541	1,04454
278		2020	0,56138	-24,98939	-0,15371	1,20196
279		2021	0,56198	-6,89906	-0,13765	1,97642
280		2022	0,54017	5,22067	-0,21573	1,73207
281	IKAN	2019	0,86506	2,50065	0,04898	#DIV/0!
282		2020	0,80721	0,82348	-0,00820	1,77193
283		2021	0,87319	1,46564	0,01239	1,11936
284		2022	0,86770	1,51187	0,01621	0,67577
285	PANI	2019	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
286		2020	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

No.	Kode	Tahun	DEA	VAIC	ROA	PBV
287		2021	0,03795	1,20019	0,00013	49,21591
288		2022	0,12862	4,35343	0,01809	1,74209
289	PCAR	2019	0,66410	-1,75022	-0,08223	15,23568
290		2020	0,50678	44,97109	-0,15441	10,16959
291		2021	0,89291	1,39364	0,01274	5,84649
292		2022	0,89073	1,84702	0,04798	1,54466
293	PSDN	2019	0,77612	1,02230	-0,03374	1,25208
294		2020	0,69395	0,09476	-0,06834	1,55803
295		2021	0,65668	5,30002	-0,11662	3,95323
296		2022	0,62097	2,85980	-0,03661	3,05516
297	PSGO	2019	0,22289	2,81165	-0,04945	3,20273
298		2020	0,26546	1,58144	0,81665	1,85349
299		2021	0,43400	3,07063	0,05730	2,85764
300		2022	0,46831	3,03217	0,06223	1,63224
301	INAF	2019	0,79186	1,45614	0,00575	39,89667
302		2020	0,87100	1,39747	0,00002	38,17129
303		2021	0,92502	1,14169	-0,01867	14,51134
304		2022	0,56978	-2,08959	-0,27933	41,27642
305	KAEF	2019	0,51003	5,44426	0,00087	1,87308
306		2020	0,51922	1,18783	0,00116	6,64385
307		2021	0,59675	1,28068	0,01632	3,73243
308		2022	0,49545	1,26747	-0,00539	1,29048
309	KLBF	2019	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
310		2020	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
311		2021	0,88737	3,18807	0,12592	3,56001
312		2022	0,88890	3,29743	0,12665	4,49211
313	MERK	2019	0,98317	2,45892	0,08685	10,40604
314		2020	0,90793	2,80330	0,07732	11,61110
315		2021	1,34172	2,15574	0,12829	11,69979
316		2022	1,08214	1,96163	0,17331	13,60488
317	ITIC	2019	0,34827	1,80359	-0,01563	9,18981
318		2020	0,42841	1,97397	0,01212	2,18517
319		2021	0,42554	3,34085	0,03487	0,79388
320		2022	0,46011	2,88794	0,04330	0,68168
321	RMBA	2019	0,83109	1,19051	0,00298	1,42976
322		2020	0,78050	-1,05633	-0,21398	2,16789
323		2021	0,70398	2,24742	0,00085	19,23302
324		2022	0,63916	5,75911	0,10730	16,53818
325	ADES	2019	0,74128	2,70304	0,10200	10,85406
326		2020	0,79322	3,46019	0,14163	12,29464
327		2021	0,80140	4,85278	0,20381	20,01162

No.	Kode	Tahun	DEA	VAIC	ROA	PBV
328		2022	0,80999	5,49220	0,22179	34,80182
329	KINO	2019	0,77435	2,75594	0,13546	1,81289
330		2020	0,67320	1,61309	0,02572	1,50771
331		2021	0,61868	1,61435	0,01830	1,07869
332		2022	1,52433	0,78766	-0,20321	1,42967
333	MBTO	2019	0,73558	-4,73166	-0,25333	0,42769
334		2020	0,25745	0,56403	-0,04317	0,22856
335		2021	0,27812	2,33022	-0,09382	0,35159
336		2022	0,43574	5,69403	-0,28158	0,33306
337	MRAT	2019	0,89733	1,22588	0,00025	0,17764
338		2020	0,90617	1,02328	-0,01209	0,21124
339		2021	0,94298	1,26729	0,00062	0,34420
340		2022	0,54663	2,67814	0,09760	0,79590
341	TCID	2019	0,88249	1,76455	0,05689	1,09538
342		2020	0,78301	0,93815	-0,02366	0,69770
343		2021	0,79612	1,51440	-0,04071	0,71539
344		2022	0,88630	1,43865	0,01168	0,57996
345	UNIV	2019	0,97580	10,09822	0,35802	60,67179
346		2020	0,96085	13,30204	0,34885	11,35838
347		2021	1,10713	9,09185	0,30197	7,25697
348		2022	0,91944	9,20783	0,29287	8,97140

### Lampiran 3. Hasil Pengujian

#### R Square

##### R Square

Matriks	R Square	Adjusted R Square
PBV	0.149	0.138
ROA	0.367	0.362

#### F Square

##### f Square

Matriks	f Square
KM	0.004
MI	0.235
PBV	0.115
ROA	0.254



## Predictive Relevance

### Redundansi Validasi-silang Konstruk

Total	Kasus1	Kasus2	Kasus3	Kasus4	Kasus5	Kasus6	Kasus7	Salin ke Clipboard:	Format Excel	Format R
		SSO	SSE	Q <sup>2</sup> (=1-SSE/SSO)						
KM		236.000	236.000							
MI		236.000	236.000							
PBV		236.000	203.419	0.138						
ROA		236.000	151.507	0.358						

## Pengaruh langsung

### Koefisien Jalur

Mean, STDEV, T-Values, P-Valu...	Keyakinan Interval	Keyakinan Interval Bias-Dikor...	Sampel	Salin ke Clipboard:	Format Excel	Format R
Sampel Asli (O)	Rata-rata Sam...	Standar Devias...	T Statistik (  O/...	P Values		
KM -> PBV	0.066	0.058	0.080	0.818	0.414	
KM -> ROA	0.406	0.409	0.075	5.396	0.000	
MI -> PBV	-0.149	-0.161	0.066	2.250	0.025	
MI -> ROA	0.391	0.395	0.063	6.194	0.000	
ROA -> PBV	0.394	0.405	0.113	3.478	0.001	

## Pengaruh tidak langsung

### Efek Tidak Langsung Spesifik

Mean, STDEV, T-Values, P-Valu...	Keyakinan Interval	Keyakinan Interval Bias-Dikor...	Sampel	Salin ke Clipboard:	Format Excel	Format R
Sampel Asli (O)	Rata-rata Sam...	Standar Devias...	T Statistik (  O/...	P Values		
KM -> ROA -> ...	0.160	0.170	0.067	2.392	0.017	
MI -> ROA -> ...	0.154	0.164	0.064	2.410	0.016	

### BIODATA PENULIS

Penulis dilahirkan di Jakarta pada tanggal 13 Februari 2002 sebagai anak ke tiga dari tiga bersaudara dari pasangan Slamet dan Isti. Saat ini penulis bertempat tinggal di Jl. Irigasi Tertia III, Bekasi. Nomor telepon penulis adalah 085904472393, dan alamat E-mail: amalia.dristiana@gmail.com. Pendidikan SMA ditempuh di SMAN 1 Kota Bekasi, lulus pada tahun 2020. Pada tahun yang sama, penulis diterima di Jurusan Akuntansi, Fakultas Ekonomi Universitas Jenderal Soedirman. Pada tahun 2020, penulis berhasil mengajukan PKM-Kewirausahaan dengan kriteria *Worth Uploading in SIMBELMAWA*. Selama mengikuti kuliah di Unsoed, penulis pernah menjadi kepala keuangan di AIESEC in Unsoed tahun 2023 dan aktif dalam Unit Kegiatan Mahasiswa Fotografi Ecolens, serta aktif mengikuti magang MBKM Jurusan Akuntansi di KAP Anwar dan Rekan pada 2023.

