

LAMPIRAN 1

Data Nama Perusahaan

NO	KODE	NAMA PERUSAHAAN
1	ACES	Ace Hardware Indonesia Tbk
2	AMRT	Sumber Alfaria Trijaya Tbk
3	CENT	Centratama Telekomunikasi Indonesia Tbk
4	CSAP	Catur Sentosa Adiparna Tbk
5	ERAA	Erajaya Swasembada Tbk
6	GLOB	Global Teleshop Tbk
7	GOLD	Golden Retailindo Tbk
8	HERO	Hero Supermarket Tbk
9	KOIN	Kokoh Inti Arebama Tbk
10	LPPF	Matahari Department Store Tbk
11	MAPI	Mitra Adiperkasa Tbk
12	MIDI	Midi Utama Indonesia Tbk
13	MPPA	Matahari Putra Prima Tbk
14	RALS	Ramayana Lestari Sentosa Tbk
15	RANC	Supra Boga Lestari Tbk
16	RIMO	Rimo International Lestari Tbk
17	SKYB	Skybee Tbk
18	SONA	Sona Topas Tourism Industry Tbk

Lanjutan....

19	TELE	Tiphone Mobile Indonesia Tbk
20	TRIO	Trikonsel Oke Tbk
21	ECII	Electronic City Indonesia Tbk
22	DAYA	Duta Intidaya Tbk
23	MKNT	Mitra Komunikasi Nusantara Tbk

LAMPIRAN 2

Tabulasi Data Penelitian

1. Model Altman

Kode Saham	Tahun	CA-CL (WC)	WC/TA (X1)	RE/TA (X2)	EBIT/TA (X3)	MVE/TL (X4)	REVENUE/TA (X5)
ACES	2011	680,343,321,760	0.4686	0.79	0.26287	31.9786	1.64590849
	2012	1,010,565,586,508	0.5272	0.554	0.29344	47.047	1.665845069
	2013	1,307,910,080,344	0.5276	0.564	0.26269	17.9591	1.553217848
	2014	1,744,454,742,308	0.5919	0.626	0.24213	23.0054	1.535131989
	2015	2,055,106,000,028	0.6289	0.656	0.23532	22.1516	1.451401348
	2016	2,433,416,721,806	0.6522	0.688	0.23601	20.9859	1.322907666
	2017	2,880,063,000,000	0.6503	0.683	0.21865	21.5678	1.340887153
AMRT	2011	-434,131,000,000	-0.087	0.18	0.09843	3.81367	3.634554566
	2012	2,094,000,000	0.0003	0.16	0.08088	4.49977	3.113913985
	2013	-1,251,337,000,000	-0.114	0.141	0.08617	2.03234	3.18340963
	2014	-729,100,000,000	-0.052	0.137	0.08351	1.75743	2.985393103
	2015	714,894,000,000	0.047	0.146	0.07528	2.32795	3.17621821
	2016	-1,187,163,000,000	-0.061	0.136	0.06533	1.83029	2.881072129
	2017	-1,511,713,000,000	-0.069	0.126	0.04735	1.52117	2.806393602
CENT	2011	56,433,683,129	0.5353	0.291	0.00702	4.15139	0.577388884
	2012	41,387,939,334	0.3855	0.23	-0.0843	28.2251	0.513432543
	2013	44,769,174,773	0.0538	-0.005	-0.0296	17.7401	0.040181928
	2014	-78,445,579,953	-0.085	-0.052	-0.026	6.19228	0.081250421
	2015	314,085,900,456	0.2429	-0.079	-0.0282	6.03161	0.081197967
	2016	65,287,274,424	0.0497	-0.1	-0.0154	4.45787	0.106977594
	2017	28,278,000,000	0.0063	-0.056	-0.0045	1.63399	0.15750834
CSAP	2011	225,916,060,000	0.1124	0.094	0.07205	0.47071	2.073444893
	2012	162,609,340,000	0.0647	0.093	0.05974	0.35723	1.998693019
	2013	155,047,424,000	0.0499	0.095	0.05733	0.21794	2.071738529
	2014	289,726,520,000	0.0876	0.116	0.07305	0.66852	2.158991377
	2015	209,111,728,000	0.0594	0.12	0.04402	0.4317	2.067953683
	2016	641,963,287,000	0.1514	0.114	0.04718	0.75214	1.830987501
	2017	502,708,000,000	0.0978	0.108	0.04353	0.5093	1.876020458
ERAA	2011	1,448,117,096,923	0.4943	0.091	0.13306	3.70786	2.35517598
	2012	1,569,634,289,850	0.4038	0.18	0.16136	6.53851	3.314170479

	2013	1,579,284,483,520	0.3158	0.174	0.10924	1.28987	2.544617566
	2014	1,405,001,000,000	0.2296	0.178	0.078	1.01754	2.361223546
	2015	1,066,227,826,007	0.1367	0.161	0.06122	0.34397	2.564978053
	2016	1,233,005,449,176	0.1661	0.197	0.07186	0.43333	2.767437423
	2017	1,635,898,000,000	0.1843	0.197	0.06762	0.4125	2.730477384
GLOB	2012	367,244,585,123	0.3565	0.187	0.19453	21.1624	2.877265134
	2013	416,919,701,897	0.2801	0.169	0.13611	1.36927	2.611467357
	2014	508,747,992,523	0.2748	0.186	0.0965	0.86475	2.180470717
	2015	-616,138,780,938	-4.971	-6.336	8.69215	0.79016	20.42490512
	2016	-216,500,254,177	-2.902	-12.11	-1.1771	0.67141	7.546450406
	2017	-214,782,000,000	-3.532	-15.09	-0.8295	0.68023	10.22058146
GOLD	2011	46,270,701,852	0.5668	0.184	0.08182	6.31912	0.54781713
	2012	55,701,748,516	0.6353	0.249	0.07684	6.81861	0.547358681
	2013	64,883,218,457	0.671	0.294	0.06908	5.81518	0.510447244
	2014	70,201,977,021	0.7366	0.33	0.01916	6.16367	0.482242068
	2015	67,593,864,705	0.726	0.291	-0.0898	5.14359	0.573380802
	2016	-18,767,496,459	-0.124	0.172	-0.0416	2.3543	0.063956464
	2017	-25,206,000,000	-0.138	0.138	0.01458	1.77787	0.14667266
HERO	2011	-383,841,000,000	-0.103	0.319	0.10319	1.57727	2.406735379
	2012	-1,061,323,000,000	-0.201	0.269	0.08362	3.93683	1.991841548
	2013	1,411,067,000,000	0.1819	0.278	0.10086	4.2224	1.533886212
	2014	495,115,000,000	0.0597	0.272	0.00145	3.50376	1.635078876
	2015	548,721,000,000	0.0682	0.251	-0.0113	1.70101	1.784540876
	2016	846,299,000,000	0.113	0.302	0.02464	2.5977	1.826882692
	2017	543,264,000,000	0.0738	0.272	-0.0342	1.78796	1.77011858
KOIN	2011	-28,243,531,822	-0.092	-0.272	-0.3258	0.60856	2.282218704
	2012	42,488,249,109	0.1261	-0.149	0.11275	1.02985	2.611621252
	2013	81,472,421,845	0.2421	-0.04	0.12472	1.08486	3.304855777
	2014	85,166,468,423	0.1621	0.025	0.06384	1.06159	2.292969562
	2015	87,004,281,486	0.1263	0.033	0.02888	0.50337	2.135815079
	2016	90,221,099,579	0.1274	0.028	0.46747	0.50142	2.045234308
	2017	91,079,000,000	0.1225	0.014	-0.0112	0.42828	2.158297582
LPPF	2011	-140,970,000,000	-0.058	0.199	0.51243	1.36647	1.940460819
	2012	-425,985,000,000	-0.145	0.428	0.54078	1.62064	1.917203914
	2013	-187,114,000,000	-0.064	0.818	0.61796	8.6323	2.299828866
	2014	-401,014,000,000	-0.118	0.987	0.61141	13.5474	2.325317483
	2015	-166,073,000,000	-0.043	1.103	0.0006	18.4524	2.315818744
	2016	385,698,000,000	0.0794	1.037	0.00052	14.6934	2.036899465
	2017	362,925,000,000	0.0669	1.016	0.4379	9.41434	1.846908829

MAPI	2011	91,105,529,000	0.0206	0.318	0.15438	3.26147	1.909130028
	2012	579,838,767,000	0.0968	0.33	0.14323	2.89137	1.844909888
	2013	468,893,746,000	0.0601	0.206	0.06128	1.69689	1.246652937
	2014	1,320,200,544,000	0.152	0.19	0.02142	1.38635	1.361025669
	2015	2,405,667,143,000	0.2537	0.179	0.01227	0.96799	1.353251818
	2016	2,434,951,653,000	0.2279	0.178	0.03464	1.19841	1.324444032
	2017	2,233,827,000,000	0.1955	0.188	0.05229	1.43283	1.42714892
MIDI	2011	-37,900,000,000	-0.03	0.036	0.05863	1.41204	2.026032322
	2012	-111,742,000,000	-0.065	0.048	0.05555	1.76836	2.235012327
	2013	-14,543,100,0000	-0.069	0.066	0.07005	0.94999	2.353292266
	2014	-254,396,000,000	-0.099	0.1	0.10435	0.86021	2.336862228
	2015	-341,075,000,000	-0.106	0.113	0.10082	0.9004	2.218589006
	2016	-524,952,000,000	-0.123	0.121	0.09901	0.69358	1.99308964
	2017	-881,765,000,000	-0.185	0.118	0.02716	0.76518	2.052996338
MPPA	2011	651,330,000,000	0.0632	0.256	0.00981	1.10935	0.864228264
	2012	2,368,814,000,000	0.288	0.344	0.03804	1.46435	1.321324232
	2013	1,130,559,000,000	0.1718	0.342	0.08944	3.17646	1.810582933
	2014	1,154,434,000,000	0.1981	0.31	0.12213	5.50686	2.332198272
	2015	1,156,480,000,000	0.1422	0.287	0.04453	2.78939	2.308870069
	2016	768,578,000,000	0.1147	0.207	0.02641	1.86315	2.018481038
	2017	-1,390,361,000,000	-0.256	0.024	-0.2873	0.57157	2.314841243
RALS	2011	1,352,786,000,000	0.3599	0.629	0.10045	5.56764	1.353045975
	2012	1,447,737,000,000	0.3554	0.632	0.10959	8.39291	1.399263017
	2013	1,411,217,000,000	0.3223	-0.002	0.09204	6.47654	1.370501599
	2014	1,727,400,000,000	0.3793	0.636	0.06552	4.69022	1.286888372
	2015	1,870,283,000,000	0.4088	0.666	0.0548	3.68779	1.20942516
	2016	1,821,834,000,000	0.392	0.699	0.07922	6.475	1.260388564
	2017	2,044,856,000,000	0.418	0.697	0.07702	6.09283	1.149390362
RANC	2012	205,186,995,235	0.3599	0.147	0.0906	0.00594	1.889051731
	2013	165,476,469,367	0.2324	0.159	0.06021	3.27836	1.829963889
	2014	97,078,119,962	0.1242	0.164	0.02942	1.85613	2.10663907
	2015	99,048,940,362	0.1374	0.153	-0.021	1.59623	2.657965067
	2016	151,097,696,366	0.2095	0.213	0.06892	2.85805	2.861721195
	2017	181,208,000,000	0.2254	0.227	0.05859	1.50336	2.723283003
RIMO	2011	-43,068,458,753	-4.108	-13.99	-1.3913	0.35329	0.634385597
	2012	-53,088,904,782	-7.788	-23.23	-1.734	0.70129	0.814296834
	2013	-54,063,809,488	-10.64	-32.28	-1.1254	0.64971	0.057306545
	2014	-58,105,000,000	-8.01	-24.42	-0.7043	0.96505	0.017754524
	2015	-52,636,838,299	-1.961	-6.471	-0.1313	0.70534	0.003696333

	2016	-52,212,017,043	-1.504	-5.092	-0.0948	0.62946	0.001349047
	2017	-568,735,685,000	-0.096	-0.209	0.00519	0.06889	4.77933E-05
SKYB	2011	230,931,029,890	0.2712	0.058	0.04192	0.51959	1.659471887
	2012	205,470,053,703	0.1959	0.054	-0.0232	0.35313	1.639915294
	2013	138,925,838,651	0.1617	0.054	-0.03	0.49849	1.577265529
	2014	134,326,713,635	0.3714	0.025	-0.0607	1.13565	1.7187531
	2015	6,000,460,123	0.051	-0.868	-0.021	1.67149	0
	2016	5,308,525,769	0.1504	-1.768	-0.0615	193.938	0
	2017	3,126,000,000	0.0944	-1.935	-0.072	301.103	0.060705769
SONA	2011	319,625,609,796	0.4717	0.312	0.14057	3.01107	1.143021317
	2012	472,288,003,386	0.5083	0.326	0.13938	1.89368	0.922102619
	2013	471,984,430,204	0.4992	0.344	0.1768	4.01542	1.064216182
	2014	498,517,780,103	0.4567	0.397	0.13935	3.1317	1.118230982
	2015	529,828,962,190	0.4664	0.427	0.08705	0.12965	1.270270054
	2016	437,448,679,243	0.4242	0.349	-0.0014	0.23432	1.386516535
	2017	455,928,000,000	0.3994	0.361	0.08632	1.50977	1.386505728
TELE	2012	985,999,000,000	0.7257	0.217	0.21955	11.5505	6.031500415
	2013	815,058,000,000	0.2359	0.157	0.12979	1.6402	3.03432601
	2014	1,975,280,000,000	0.3936	0.169	0.10779	2.59925	2.907539675
	2015	5,107,277,000,000	0.7164	0.162	0.10889	1.27122	3.091673579
	2016	6,224,911,000,000	0.7577	0.185	0.12347	1.22566	3.324218874
	2017	5,965,781,000,000	0.6818	0.208	0.11788	1.40423	3.190283157
TRIO	2011	1,142,914,694,645	0.2441	0.128	0.14943	1.16133	1.889613902
	2012	1,776,498,043,828	0.3322	0.162	0.15465	1.35792	1.792744877
	2013	3,304,058,367,794	0.4009	0.152	0.12439	0.98856	1.257703416
	2014	5,177,890,806,460	0.5714	0.173	0.11935	0.9077	1.1893944
	2015	-3,449,277,081,129	-4.283	-8.755	-10.685	1.32747	8.020760353
	2016	-3,975,123,742,482	-9.244	-17.54	-0.8478	1.31545	3.994071527
	2017	-496,209,000,000	-1.865	-29.06	-0.2853	13.565	7.62310236
ECII	2013	1,277,791,891,274	0.6318	0.164	0.11802	10.9765	0.99507214
	2014	1,272,025,988,902	0.6349	0.212	0.07784	6.43402	1.111420126
	2015	1,222,851,328,869	0.6441	0.236	0.02109	8.04708	0.93793963
	2016	1,129,175,627,759	0.6001	0.223	-0.0701	5.20261	0.882126416
	2017	1,161,045,000,000	0.6111	0.215	0.00426	4.37152	0.957124759
DAYA	2016	54,094,000,000	0.2714	-0.697	-0.1183	4.06337	1.191479542
	2017	68,599,000,000	0.2488	-0.521	-0.0135	2.72127	1.319082801
MKNT	2015	117,775,000,000	0.8622	0.056	0.06762	46.1449	4.452676584
	2016	125,841,000,000	0.7972	0.063	0	22.0457	1.716216131
	2017	198,164,000,000	0.2047	0.036	0.05315	1.90811	6.542641056

2. Model Springate

Kode Saham	Tahun	WC/TA (A)	EBIT/TA (B)	EBT/CL (C)	REVENUE/TA (D)
ACES	2011	0.46863	0.26287	2.2271	1.64590849
	2012	0.52718	0.29344	2.5801	1.665845069
	2013	0.52761	0.26269	1.4182	1.553217848
	2014	0.59187	0.24213	1.5983	1.535131989
	2015	0.62894	0.23532	1.7866	1.451401348
	2016	0.6522	0.23601	2.2208	1.322907666
	2017	0.6503	0.21865	2.0074	1.340887153
AMRT	2011	-0.0866	0.09843	0.1323	3.634554566
	2012	0.00028	0.08088	0.1397	3.113913985
	2013	-0.1141	0.08617	0.0956	3.18340963
	2014	-0.0521	0.08351	0.0824	2.985393103
	2015	0.04705	0.07528	0.0897	3.17621821
	2016	-0.061	0.06533	0.0655	2.881072129
	2017	-0.069	0.04735	0.0292	2.806393602
CENT	2011	0.53534	0.00702	0.1157	0.577388884
	2012	0.38553	-0.08432	-0.383	0.513432543
	2013	0.05378	-0.02955	-0.266	0.040181928
	2014	-0.0846	-0.02596	-0.267	0.081250421
	2015	0.24291	-0.02816	-0.684	0.081197967
	2016	0.04965	-0.01541	-0.212	0.106977594
	2017	0.00629	-0.00445	-0.154	0.15750834
CSAP	2011	0.11244	0.07205	0.0774	2.073444893
	2012	0.06473	0.05974	0.054	1.998693019
	2013	0.04989	0.05733	0.0461	2.071738529
	2014	0.08756	0.07305	0.0627	2.158991377
	2015	0.05936	0.04402	0.0224	2.067953683
	2016	0.15138	0.04718	0.0405	1.830987501
	2017	0.09784	0.04353	0.0364	1.876020458
ERAA	2011	0.49432	0.13306	0.4708	2.35517598
	2012	0.40377	0.16136	0.4598	3.314170479
	2013	0.31575	0.10924	0.2078	2.544617566
	2014	0.22956	0.078	0.1016	2.361223546
	2015	0.13669	0.06122	0.0728	2.564978053
	2016	0.16608	0.07186	0.0975	2.767437423

	2017	0.18435	0.06762	0.095	2.730477384
GLOB	2012	0.35651	0.19453	0.2501	2.877265134
	2013	0.28009	0.13611	0.1542	2.611467357
	2014	0.27477	0.0965	0.098	2.180470717
	2015	-4.9711	8.69215	-1.633	20.42490512
	2016	-2.9022	-1.17713	-0.466	7.546450406
	2017	-3.5319	-0.82951	-0.051	10.22058146
	GOLD	2011	0.56681	0.08182	0.6596
2012		0.63533	0.07684	0.7616	0.547358681
2013		0.67102	0.06908	0.6316	0.510447244
2014		0.73657	0.01916	0.5585	0.482242068
2015		0.72599	-0.08976	-0.374	0.573380802
2016		-0.1244	-0.04161	-0.097	0.063956464
2017		-0.1382	0.01458	-0.003	0.14667266
HERO	2011	-0.1032	0.10319	0.1723	2.406735379
	2012	-0.2011	0.08362	0.1203	1.991841548
	2013	0.18188	0.10086	0.349	1.533886212
	2014	0.05968	0.00145	0.015	1.635078876
	2015	0.06823	-0.01134	-0.039	1.784540876
	2016	0.11304	0.02464	0.0936	1.826882692
	2017	0.07378	-0.03418	-0.126	1.77011858
KOIN	2011	-0.0918	-0.32583	-0.367	2.282218704
	2012	0.12612	0.11275	0.1333	2.611621252
	2013	0.24213	0.12472	0.1741	3.304855777
	2014	0.16207	0.06384	0.0846	2.292969562
	2015	0.12629	0.02888	0.0374	2.135815079
	2016	0.12742	0.46747	0.0002	2.045234308
	2017	0.12245	-0.01117	-0.012	2.158297582
LPPF	2011	-0.0582	0.51243	0.4306	1.940460819
	2012	-0.1454	0.54078	0.534	1.917203914
	2013	-0.0637	0.61796	0.8061	2.299828866
	2014	-0.1177	0.61141	0.7348	2.325317483
	2015	-0.0427	0.0006	0.9204	2.315818744
	2016	0.07938	0.00052	0.9785	2.036899465
	2017	0.06687	0.4379	0.9178	1.846908829
MAPI	2011	0.02063	0.15438	0.2127	1.909130028
	2012	0.09679	0.14323	0.2228	1.844909888
	2013	0.06005	0.06128	0.1214	1.246652937
	2014	0.15199	0.02142	0.0499	1.361025669

	2015	0.25368	0.01227	0.045	1.353251818
	2016	0.22792	0.03464	0.096	1.324444032
	2017	0.19551	0.05229	0.1309	1.42714892
MIDI	2011	-0.0297	0.05863	0.0626	2.026032322
	2012	-0.0645	0.05555	0.0494	2.235012327
	2013	-0.069	0.07005	0.0694	2.353292266
	2014	-0.0986	0.10435	0.1205	2.336862228
	2015	-0.1055	0.10082	0.1144	2.218589006
	2016	-0.1232	0.09901	0.1133	1.99308964
	2017	-0.1853	0.02716	0.0473	2.052996338
MPPA	2011	0.06319	0.00981	0.0555	0.864228264
	2012	0.28799	0.03804	0.0988	1.321324232
	2013	0.17183	0.08944	0.1926	1.810582933
	2014	0.19811	0.12213	0.2658	2.332198272
	2015	0.1422	0.04453	0.0828	2.308870069
	2016	0.11468	0.02641	0.0303	2.018481038
	2017	-0.2562	-0.28729	-0.431	2.314841243
RALS	2011	0.35988	0.10045	0.5564	1.353045975
	2012	0.35542	0.10959	0.5678	1.399263017
	2013	0.3223	0.09204	0.4751	1.370501599
	2014	0.37926	0.06552	0.4011	1.286888372
	2015	0.40881	0.0548	0.3795	1.20942516
	2016	0.39204	0.07922	0.4609	1.260388564
	2017	0.41801	0.07702	0.4449	1.149390362
RANC	2012	0.35993	0.0906	0.2765	1.889051731
	2013	0.23238	0.06021	0.1538	1.829963889
	2014	0.12416	0.02942	0.0509	2.10663907
	2015	0.13743	-0.02101	-0.076	2.657965067
	2016	0.2095	0.06892	0.1954	2.861721195
	2017	0.22538	0.05859	0.1559	2.723283003
RIMO	2011	-4.1083	-1.39133	-0.298	0.634385597
	2012	-7.7879	-1.73397	-0.218	0.814296834
	2013	-10.64	-1.1254	-0.105	0.057306545
	2014	-8.0102	-0.70427	-0.087	0.017754524
	2015	-1.9615	-0.13135	-0.089	0.003696333
	2016	-1.5037	-0.09477	-0.061	0.001349047
	2017	-0.0959	0.00519	0.1086	4.77933E-05
SKYB	2011	0.27125	0.04192	0.0733	1.659471887
	2012	0.19587	-0.02317	0.018	1.639915294

	2013	0.16173	-0.03	-0.016	1.577265529
	2014	0.37139	-0.0607	-0.238	1.7187531
	2015	0.05104	-0.02099	-98.96	0
	2016	0.15041	-0.06154	40.902	0
	2017	0.09436	-0.072	-4.46	0.060705769
SONA	2011	0.47174	0.14057	0.4365	1.143021317
	2012	0.50833	0.13938	0.5838	0.922102619
	2013	0.4992	0.1768	0.5048	1.064216182
	2014	0.4567	0.13935	0.6368	1.118230982
	2015	0.46638	0.08705	0.2383	1.270270054
	2016	0.42421	-0.00138	-0.019	1.386516535
	2017	0.39939	0.08632	0.1857	1.386505728
TELE	2012	0.72574	0.21955	1.2571	6.031500415
	2013	0.23588	0.12979	0.1947	3.03432601
	2014	0.39365	0.10779	0.1671	2.907539675
	2015	0.71644	0.10889	0.3984	3.091673579
	2016	0.7577	0.12347	0.5085	3.324218874
	2017	0.68182	0.11788	0.2713	3.190283157
TRIO	2011	0.24409	0.14943	0.154	1.889613902
	2012	0.33217	0.15465	0.1763	1.792744877
	2013	0.40085	0.12439	0.1422	1.257703416
	2014	0.57138	0.11935	0.1338	1.1893944
	2015	-4.2829	-10.6849	-2.364	8.020760353
	2016	-9.2438	-0.84784	-0.103	3.994071527
	2017	-1.8646	-0.28531	-0.186	7.62310236
ECII	2013	0.63176	0.11802	0.8512	0.99507214
	2014	0.63489	0.07784	0.9317	1.111420126
	2015	0.64414	0.02109	0.4266	0.93793963
	2016	0.6001	-0.07011	-0.278	0.882126416
	2017	0.6111	0.00426	-0.083	0.957124759
DAYA	2016	0.27138	-0.11833	-0.281	1.191479542
	2017	0.24881	-0.01351	-0.031	1.319082801
MKNT	2015	0.86224	0.06762	0.5761	4.452676584
	2016	0.79722	0	0.1429	1.716216131
	2017	0.20469	0.05315	0.0773	6.542641056

3. Model Zmijewski

Kode Saham	Tahun	EAT/TA (X1)	TL/TA (X2)	CA/CL (X3)
ACES	2011	0.19253	0.15146	5.0856
	2012	0.22372	0.15593	5.8525
	2013	0.20291	0.22728	3.9774
	2014	0.18623	0.19855	5.0889
	2015	0.17899	0.19547	5.9846
	2016	0.18926	0.18289	7.2612
	2017	0.17627	0.20737	7.0226
AMRT	2011	0.07192	0.70877	0.8558
	2012	0.06411	0.58694	1.0005
	2013	0.05191	0.76248	0.8207
	2014	0.0409	0.78513	0.9146
	2015	0.03055	0.68082	1.1018
	2016	0.02844	0.72812	0.896
	2017	0.01177	0.76029	0.8842
CENT	2011	-0.0001	0.14324	7.2143
	2012	-0.0681	0.22966	3.4259
	2013	-0.0377	0.12066	1.6266
	2014	-0.0471	0.25735	0.5357
	2015	-0.0413	0.1666	4.6728
	2016	-0.0227	0.21102	1.4382
	2017	-0.0265	0.33966	1.0384
CSAP	2011	0.03748	0.70406	1.1763
	2012	0.02511	0.74195	1.102
	2013	0.24321	0.76934	1.0735
	2014	0.03466	0.75252	1.1287
	2015	0.01221	0.7577	1.0892
	2016	0.0176	0.6671	1.2575
	2017	0.01733	0.70315	1.1591
ERAA	2011	0.08749	0.26698	0.5248
	2012	0.11168	0.33657	0.809
	2013	0.0697	0.44951	1.3921
	2014	0.03503	0.50847	2.0737
	2015	0.02946	0.58907	4.1261
	2016	0.03525	0.54083	3.1916

	2017	0.03912	0.5823	3.0862
GLOB	2012	0.10982	0.59633	1.6046
	2013	0.07729	0.68143	1.4148
	2014	0.04976	0.69396	1.3993
	2015	-9.1162	5.53651	0.0965
	2016	-1.5837	10.1158	0.1589
	2017	-0.2412	12.2483	0.1314
	GOLD	2011	0.08202	0.21345
2012		0.0779	0.18897	5.8299
2013		0.06844	0.19582	5.8072
2014		0.03169	0.15092	9.0361
2015		-0.0438	0.17916	7.278
2016		-0.0086	0.44283	0.7141
2017		-0.0058	0.54324	0.6481
HERO	2011	0.07355	0.61765	0.8174
	2012	0.05737	0.68584	0.6821
	2013	0.08651	0.3097	1.6288
	2014	0.00527	0.34257	1.1776
	2015	-0.0179	0.32144	1.2104
	2016	0.01611	0.27104	1.4294
	2017	-0.026	0.29395	1.2714
KOIN	2011	-0.351	0.94268	0.9013
	2012	0.09953	0.84811	1.1516
	2013	0.10902	0.73891	1.3385
	2014	0.05039	0.78242	1.2121
	2015	0.02091	0.82023	1.1599
	2016	-0.0000094617	0.8288	1.1603
	2017	-0.0196	0.91758	1.1494
LPPF	2011	0.19222	2.11556	0.9175
	2012	0.26312	1.65928	0.8037
	2013	0.39163	1.26605	0.901
	2014	0.41636	0.9479	0.8408
	2015	0.45788	0.71559	0.9319
	2016	0.41567	0.61817	1.149
	2017	0.35138	0.57107	1.139
MAPI	2011	0.11683	0.84964	1.04
	2012	0.10526	0.92863	1.2161
	2013	0.04198	0.68906	1.1174
	2014	0.00843	0.69959	1.3436

	2015	0.00317	0.68629	1.7311
	2016	0.01951	0.70014	1.5823
	2017	0.03064	0.62869	1.4894
MIDI	2011	0.0248	0.68033	0.94
	2012	0.02598	0.74328	0.86
	2013	0.03192	0.76252	0.87
	2014	0.05374	0.75992	0.82
	2015	0.04347	0.77241	0.79
	2016	0.04601	0.78994	0.77
	2017	0.02591	0.83133	0.68
MPPA	2011	0.09434	0.68033	1.22
	2012	0.13764	0.74328	1.8722
	2013	0.21097	0.76252	1.3722
	2014	0.21478	0.75992	1.4199
	2015	0.05661	0.77241	1.4109
	2016	0.00903	0.78994	1.2305
	2017	-0.2291	0.78365	0.6413
RALS	2011	0.10045	0.24412	2.7333
	2012	0.10402	0.25323	2.6611
	2013	0.08919	0.26524	2.4649
	2014	0.07796	0.26242	2.7853
	2015	0.07346	0.27128	2.9464
	2016	0.0879	0.28182	2.8056
	2017	0.08311	0.28569	2.95
RANC	2012	0.06396	0.36973	2.2247
	2013	0.04672	0.44231	1.5937
	2014	0.01205	0.47988	1.313
	2015	-0.028	0.46236	1.3349
	2016	0.05484	0.40225	1.5939
	2017	0.04687	0.42713	1.5996
RIMO	2011	-1.2168	4.59004	0.0736
	2012	-1.729	8.24998	0.0218
	2013	-1.1174	11.8442	0.0173
	2014	-0.6889	9.67437	0.0127
	2015	-0.1761	3.41298	0.0128
	2016	-0.0906	2.95569	0.0119
	2017	0.01036	0.13147	0.0024
SKYB	2011	0.03635	0.78023	1.3794
	2012	0.01214	0.78173	1.2768

	2013	-0.0148	0.75141	1.2234
	2014	-0.1219	0.59817	1.6332
	2015	-1.4867	1.25042	6.6805
	2016	1.11966	0.0359	6.5508
	2017	-0.0518	0.02463	7.1779
SONA	2011	0.10719	0.35715	2.4998
	2012	0.09791	0.43296	3.3193
	2013	0.05592	0.41874	3.7393
	2014	0.09931	0.39723	3.1957
	2015	0.03248	9.10674	3.2188
	2016	-0.0141	0.43307	2.5143
	2017	0.04737	0.44199	2.2236
TELE	2012	0.14988	0.18465	5.5555
	2013	0.08535	0.59868	1.4033
	2014	0.06075	0.50213	1.8011
	2015	0.05199	0.60506	5.0636
	2016	0.05707	0.60984	5.9891
	2017	0.04779	0.59503	3.8838
TRIO	2011	0.06471	0.72832	1.3373
	2012	0.07142	0.65564	1.5229
	2013	0.06065	0.75382	1.698
	2014	0.0356	0.73806	2.5869
	2015	-10.889	8.90763	0.0765
	2016	-1.1743	16.8344	0.0545
	2017	-0.7137	14.4087	0.2599
ECII	2013	0.10224	0.16679	5.5567
	2014	0.06462	0.11283	8.599
	2015	0.0174	0.07424	14.03
	2016	-0.0171	0.08178	10.287
	2017	-0.0052	0.0972	9.1808
DAYA	2016	-0.1211	0.50039	1.6448
	2017	-0.0144	0.56175	1.5664
MKNT	2015	0.03302	0.08091	12.202
	2016	0.01456	0.15518	6.2682
	2017	0.03917	0.70914	1.2979

4. Model Grover

Kode Saham	Tahun	WC/TA (X1)	EBIT/TA (X2)	REVENUE/TA (ROA)
ACES	2011	0.46863	0.26287	1.64590849
	2012	0.52718	0.29344	1.665845069
	2013	0.52761	0.26269	1.553217848
	2014	0.59187	0.24213	1.535131989
	2015	0.62894	0.23532	1.451401348
	2016	0.6522	0.23601	1.322907666
	2017	0.6503	0.21865	1.340887153
AMRT	2011	-0.0866	0.09843	3.634554566
	2012	0.00028	0.08088	3.113913985
	2013	-0.1141	0.08617	3.18340963
	2014	-0.0521	0.08351	2.985393103
	2015	0.04705	0.07528	3.17621821
	2016	-0.061	0.06533	2.881072129
	2017	-0.069	0.04735	2.806393602
CENT	2011	0.53534	0.00702	0.577388884
	2012	0.38553	-0.08432	0.513432543
	2013	0.05378	-0.02955	0.040181928
	2014	-0.0846	-0.02596	0.081250421
	2015	0.24291	-0.02816	0.081197967
	2016	0.04965	-0.01541	0.106977594
	2017	0.00629	-0.00445	0.15750834
CSAP	2011	0.11244	0.07205	2.073444893
	2012	0.06473	0.05974	1.998693019
	2013	0.04989	0.05733	2.071738529
	2014	0.08756	0.07305	2.158991377
	2015	0.05936	0.04402	2.067953683
	2016	0.15138	0.04718	1.830987501
	2017	0.09784	0.04353	1.876020458
ERAA	2011	0.49432	0.13306	2.35517598
	2012	0.40377	0.16136	3.314170479
	2013	0.31575	0.10924	2.544617566
	2014	0.22956	0.078	2.361223546
	2015	0.13669	0.06122	2.564978053

	2016	0.16608	0.07186	2.767437423
	2017	0.18435	0.06762	2.730477384
GLOB	2012	0.35651	0.19453	2.877265134
	2013	0.28009	0.13611	2.611467357
	2014	0.27477	0.0965	2.180470717
	2015	-4.9711	8.69215	20.42490512
	2016	-2.9022	-1.17713	7.546450406
	2017	-3.5319	-0.82951	10.22058146
GOLD	2011	0.56681	0.08182	0.54781713
	2012	0.63533	0.07684	0.547358681
	2013	0.67102	0.06908	0.510447244
	2014	0.73657	0.01916	0.482242068
	2015	0.72599	-0.08976	0.573380802
	2016	-0.1244	-0.04161	0.063956464
	2017	-0.1382	0.01458	0.14667266
HERO	2011	-0.1032	0.10319	2.406735379
	2012	-0.2011	0.08362	1.991841548
	2013	0.18188	0.10086	1.533886212
	2014	0.05968	0.00145	1.635078876
	2015	0.06823	-0.01134	1.784540876
	2016	0.11304	0.02464	1.826882692
	2017	0.07378	-0.03418	1.77011858
KOIN	2011	-0.0918	-0.32583	2.282218704
	2012	0.12612	0.11275	2.611621252
	2013	0.24213	0.12472	3.304855777
	2014	0.16207	0.06384	2.292969562
	2015	0.12629	0.02888	2.135815079
	2016	0.12742	0.46747	2.045234308
	2017	0.12245	-0.01117	2.158297582
LPPF	2011	-0.0582	0.51243	1.940460819
	2012	-0.1454	0.54078	1.917203914
	2013	-0.0637	0.61796	2.299828866
	2014	-0.1177	0.61141	2.325317483
	2015	-0.0427	0.0006	2.315818744
	2016	0.07938	0.00052	2.036899465
	2017	0.06687	0.4379	1.846908829
MAPI	2011	0.02063	0.15438	1.909130028
	2012	0.09679	0.14323	1.844909888
	2013	0.06005	0.06128	1.246652937

	2014	0.15199	0.02142	1.361025669
	2015	0.25368	0.01227	1.353251818
	2016	0.22792	0.03464	1.324444032
	2017	0.19551	0.05229	1.42714892
MIDI	2011	-0.0297	0.05863	2.026032322
	2012	-0.0645	0.05555	2.235012327
	2013	-0.069	0.07005	2.353292266
	2014	-0.0986	0.10435	2.336862228
	2015	-0.1055	0.10082	2.218589006
	2016	-0.1232	0.09901	1.99308964
	2017	-0.1853	0.02716	2.052996338
MPPA	2011	0.06319	0.00981	0.864228264
	2012	0.28799	0.03804	1.321324232
	2013	0.17183	0.08944	1.810582933
	2014	0.19811	0.12213	2.332198272
	2015	0.1422	0.04453	2.308870069
	2016	0.11468	0.02641	2.018481038
	2017	-0.2562	-0.28729	2.314841243
RALS	2011	0.35988	0.10045	1.353045975
	2012	0.35542	0.10959	1.399263017
	2013	0.3223	0.09204	1.370501599
	2014	0.37926	0.06552	1.286888372
	2015	0.40881	0.0548	1.20942516
	2016	0.39204	0.07922	1.260388564
	2017	0.41801	0.07702	1.149390362
RANC	2012	0.35993	0.0906	1.889051731
	2013	0.23238	0.06021	1.829963889
	2014	0.12416	0.02942	2.10663907
	2015	0.13743	-0.02101	2.657965067
	2016	0.2095	0.06892	2.861721195
	2017	0.22538	0.05859	2.723283003
RIMO	2011	-4.1083	-1.39133	0.634385597
	2012	-7.7879	-1.73397	0.814296834
	2013	-10.64	-1.1254	0.057306545
	2014	-8.0102	-0.70427	0.017754524
	2015	-1.9615	-0.13135	0.003696333
	2016	-1.5037	-0.09477	0.001349047
	2017	-0.0959	0.00519	4.77933E-05
SKYB	2011	0.27125	0.04192	1.659471887

	2012	0.19587	-0.02317	1.639915294
	2013	0.16173	-0.03	1.577265529
	2014	0.37139	-0.0607	1.7187531
	2015	0.05104	-0.02099	0
	2016	0.15041	-0.06154	0
	2017	0.09436	-0.072	0.060705769
SONA	2011	0.47174	0.14057	1.143021317
	2012	0.50833	0.13938	0.922102619
	2013	0.4992	0.1768	1.064216182
	2014	0.4567	0.13935	1.118230982
	2015	0.46638	0.08705	1.270270054
	2016	0.42421	-0.00138	1.386516535
	2017	0.39939	0.08632	1.386505728
TELE	2012	0.72574	0.21955	6.031500415
	2013	0.23588	0.12979	3.03432601
	2014	0.39365	0.10779	2.907539675
	2015	0.71644	0.10889	3.091673579
	2016	0.7577	0.12347	3.324218874
	2017	0.68182	0.11788	3.190283157
TRIO	2011	0.24409	0.14943	1.889613902
	2012	0.33217	0.15465	1.792744877
	2013	0.40085	0.12439	1.257703416
	2014	0.57138	0.11935	1.1893944
	2015	-4.2829	-10.6849	8.020760353
	2016	-9.2438	-0.84784	3.994071527
	2017	-1.8646	-0.28531	7.62310236
ECII	2013	0.63176	0.11802	0.99507214
	2014	0.63489	0.07784	1.111420126
	2015	0.64414	0.02109	0.93793963
	2016	0.6001	-0.07011	0.882126416
	2017	0.6111	0.00426	0.957124759
DAYA	2016	0.27138	-0.11833	1.191479542
	2017	0.24881	-0.01351	1.319082801
MKNT	2015	0.86224	0.06762	4.452676584
	2016	0.79722	0	1.716216131
	2017	0.20469	0.05315	6.542641056

Lanjutan....

3. CENT (Centratama Telekomunikasi Indonesia Tbk)

Altman								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.2	0.64241	0.4626	0.06453	-0.1015	0.29149	0.05958	0.00755
X2	1.4	0.40711	0.3219	-0.00766	-0.0728	-0.1105	-0.1404	-0.07816
X3	3.3	0.02318	-0.2783	-0.09753	-0.0857	-0.0929	-0.0508	-0.0147
X4	0.6	2.49083	16.935	10.644	3.7154	3.61897	2.67472	0.98039
X5	0.999	0.57681	0.5129	0.04014	0.0812	0.08112	0.10687	0.15735
Score		4.14034	17.954	10.6435	3.5365	3.78811	2.6499	1.05243
Zone		Sehat	Sehat	Sehat	Sehat	Sehat	kelabu	bangkrut

Springate								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
A	1.03	0.5514	0.3971	0.05539	-0.0871	0.2502	0.05114	0.00648
B	3.07	0.02156	-0.2589	-0.09073	-0.0797	-0.0865	-0.0473	-0.01367
C	0.66	0.07634	-0.253	-0.17575	-0.1761	-0.4514	-0.1399	-0.1016
D	0.4	0.23096	0.2054	0.01607	0.0325	0.03248	0.04279	0.00674
Score		0.88026	0.0906	-0.19501	-0.3105	-0.2552	-0.0932	-0.10206
Zone		sehat	Bangkrut	Bangkrut	Bangkrut	Bangkrut	Bangkrut	Bangkrut

zmijewski								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
		-4.3	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3
X1	4.5	-0.0005	-0.3065	-0.16966	0.2119	-0.1858	-0.102	-0.11918
X2	5.7	0.8165	1.3091	0.68775	1.4669	0.94962	1.2028	1.93607
X3	0.004	0.02886	0.0137	0.00651	0.0021	0.01869	0.00575	0.00415
Score		-3.5119	-2.6981	-3.4491	-3.0471	-3.1832	-3.0009	-2.2489
Zone		sehat	sehat	sehat	sehat	sehat	sehat	sehat

Grover								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.65	0.88331	0.6361	0.08873	-0.1396	0.4008	0.08192	0.01038
X3	3.404	0.02391	-0.287	-0.1006	-0.0884	-0.0959	-0.0524	-0.01516
ROA	0.016	0.00024	-0.0011	-0.00058	-0.0007	-0.0007	-0.0004	-0.00053
		0.057	0.057	0.057	0.057	0.057	0.057	0.057
Score		0.96398	0.4072	0.04572	-0.1702	0.36259	0.08684	0.05275
Zone		sehat	sehat	sehat	bangkrut	sehat	sehat	sehat

Lanjutan....

5. ERAA (Erajaya Swasembada Tbk)

Altman								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.2	0.59318	0.4845	0.3789	0.2709	0.16403	0.19929	0.22122
X2	1.4	0.12673	0.2514	0.24429	0.2491	0.22565	0.27586	0.27521
X3	3.3	0.43909	0.5325	0.36048	0.2578	0.20203	0.23715	0.22315
X4	0.6	2.22472	3.9231	0.77392	0.6105	0.20638	0.26	0.2475
X5	0.999	2.35282	3.3109	2.54207	2.3584	2.56241	2.76467	2.72775
Score		5.73654	8.5024	4.29966	3.7468	3.3605	3.73697	3.69483
Zone		Sehat	Sehat	Sehat	Sehat	Sehat	Sehat	Sehat

Springate								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
A	1.03	0.50915	0.4159	0.32523	0.2365	0.14079	0.17106	0.18988
B	3.07	0.40849	0.4954	0.33535	0.2399	0.18795	0.22062	0.20759
C	0.66	0.31073	0.3035	0.13715	0.0673	0.04807	0.06433	0.0627
D	0.4	0.94207	1.3257	1.01785	0.9443	1.02599	1.10697	1.09219
Score		2.17044	2.5404	1.81557	1.4879	1.4028	1.56298	1.55237
Zone		sehat	sehat	sehat	sehat	sehat	sehat	sehat

zmijewski								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
		-4.3	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3
X1	4.5	0.3937	0.5025	0.31365	0.1582	0.13258	0.15863	0.17604
X2	5.7	1.52178	1.9185	2.56221	2.898	3.35768	3.08273	3.31909
X3	0.004	0.0021	0.0032	0.00557	0.0083	0.0165	0.01277	0.01234
Score		-3.174	-2.8873	-2.057	-1.5685	-1.0914	-1.3887	-1.1693
Zone		sehat	sehat	sehat	sehat	sehat	sehat	sehat

Grover								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.65	0.81563	0.6662	0.52099	0.3788	0.22554	0.27403	0.30418
X3	3.404	0.45293	0.5493	0.37184	0.266	0.2084	0.24462	0.23018
ROA	0.016	0.0014	0.0018	0.00111	0.0005	0.00049	0.00055	0.00062
		0.057	0.057	0.057	0.057	0.057	0.057	0.057
Score		1.32416	1.2707	0.94872	0.7012	0.49045	0.57509	0.59073
Zone		sehat	sehat	sehat	sehat	sehat	sehat	sehat

Lanjutan....

6. GLOB (Global Teleshop Tbk)

Altman								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.2	0	0.4278	0.33611	0.3297	-5.9653	-3.4826	-4.23828
X2	1.4	0	0.2619	0.23617	0.2598	-8.8708	-16.951	-21.129
X3	3.3	0	0.6419	0.44915	0.3184	28.6841	-3.8845	-2.73737
X4	0.6	0	12.697	0.82156	0.5189	0.47409	0.40285	0.40814
X5	0.999	0	2.8744	2.60886	2.1783	20.4045	7.5389	10.2104
Score		0	16.904	4.45184	3.6051	34.7266	-16.376	-17.4861
Zone			Sehat	Sehat	Sehat	Sehat	bangkrut	bangkrut

Springate								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
A	1.03	0	0.3672	0.28849	0.283	-5.1202	-2.9892	-3.63786
B	3.07	0	0.5972	0.41784	0.2962	26.6849	-3.6138	-2.54659
C	0.66	0	0.1651	0.10179	0.0647	-1.0776	-0.3078	-0.03364
D	0.4	0	1.1509	1.04459	0.8722	8.16996	3.01858	-0.03364
Score		0	2.2804	1.85271	1.5161	28.6571	-3.8922	-6.25173
Zone		0	sehat	sehat	sehat	sehat	Bangkrut	Bangkrut

zmijewski								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
		0	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3
X1	4.5	0	0.4942	0.34779	0.2239	-41.023	-7.1268	-1.08556
X2	5.7	0	3.3991	3.88414	3.9556	31.5581	57.6599	69.8153
X3	0.004	0	0.0064	0.00566	0.0056	0.00039	0.00064	0.00053
Score		0	-1.4015	-0.7693	-0.5739	68.2806	60.4861	66.6004
Zone		0	sehat	sehat	sehat	bangkrut	bangkrut	bangkrut

Grover								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.65	0	0.5882	0.46214	0.4534	-8.2023	-4.7886	-5.82764
X3	3.404	0	0.6622	0.4633	0.3285	29.5881	-4.0069	-2.82364
ROA	0.016	0	0.0018	0.00124	0.0008	-0.1457	-0.0253	-0.00383
		0	0.057	0.057	0.057	0.057	0.057	0.057
Score		0	1.3057	0.98121	0.838	21.5886	-8.7133	-8.59045
Zone		0	sehat	sehat	sehat	sehat	bangkrut	bangkrut

Lanjutan....

7. GOLD (Golden Retailindo Tbk)

Altman								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.2	0.68017	0.7624	0.80523	0.8839	0.87119	-0.1493	0.19269
X2	1.4	0.25748	0.3488	0.41209	0.4625	0.40784	0.24013	0.19269
X3	3.3	0.27002	0.2536	0.22798	0.0632	-0.2962	-0.1373	0.0481
X4	0.6	3.79147	4.0912	3.48911	3.6982	3.08615	1.41258	1.06672
X5	0.999	0.54727	0.5468	0.50994	0.4818	0.57281	0.06389	0.14653
Score		5.54642	6.0028	5.44434	5.5896	4.64179	1.43002	1.64672
Zone		Sehat	Sehat	Sehat	Sehat	Sehat	bangkrut	bangkrut

Springate								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
A	1.03	0.58381	0.6544	0.69115	0.7587	0.74777	-0.1281	-0.14233
B	3.07	0.2512	0.2359	0.21209	0.0588	-0.2756	-0.1277	0.04475
C	0.66	0.43532	0.5027	0.41686	0.3686	-0.2659	-0.0638	-0.00214
D	0.4	0.21913	0.2189	0.20418	0.1929	0.22935	0.02558	0.05867
Score		1.48946	1.6119	1.52428	1.379	0.43567	-0.2941	-0.04104
Zone		sehat	sehat	sehat	sehat	Bangkrut	Bangkrut	Bangkrut

zmijewski								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
		-4.3	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3
X1	4.5	0.36908	0.3506	0.30799	0.1426	-0.197	-0.0387	-0.02608
X2	5.7	1.21668	1.0771	1.1162	0.8603	1.02122	2.52414	3.09647
X3	0.004	0.01783	0.0233	0.02323	0.0361	0.02911	0.00286	0.00259
Score		-3.4702	-3.5967	-3.51501	-3.6185	-3.1109	-1.74	-1.18005
Zone		sehat	sehat	sehat	sehat	sehat	sehat	sehat

Grover								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.65	0.93524	1.0483	1.10718	1.2153	1.19788	-0.2052	-0.228
X3	3.404	0.27853	0.2616	0.23516	0.0652	-0.3055	-0.1416	0.04962
ROA	0.016	0.00131	0.0013	0.0011	0.0005	-0.0007	-0.0001	-6.78E-05
		0.057	0.057	0.057	0.057	0.057	0.057	0.057
Score		1.26945	1.3656	1.39824	1.3371	0.95005	-0.2898	-0.12131
Zone		sehat	sehat	sehat	sehat	sehat	bangkrut	bangkrut

Lanjutan....

8. HERO (Hero Supermarket Tbk)

Altman								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.2	-0.1238	-0.2414	0.21825	0.0716	0.08187	0.13564	0.08854
X2	1.4	0.44649	0.3772	0.38947	0.3811	0.35126	0.4227	0.38056
X3	3.3	0.34052	0.2759	0.33282	0.0048	-0.0374	0.0813	-0.11278
X4	0.6	0.94636	2.3621	2.53344	2.1023	1.02061	1.55862	1.07278
X5	0.999	2.40433	1.9898	1.53235	1.6334	1.78276	1.82506	1.76835
Score		4.01386	4.7638	5.00635	4.1932	3.19908	4.02331	3.19744
Zone		Sehat	Sehat	Sehat	Sehat	Sehat	Sehat	Sehat

Springate								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
A	1.03	-0.1063	-0.2072	0.18733	0.0615	0.07027	0.11643	0.07599
B	3.07	0.31679	0.2567	0.30963	0.0045	-0.0348	0.07563	-0.10492
C	0.66	0.11372	0.0794	0.23036	0.0099	-0.0254	0.06177	-0.08298
D	0.4	0.96269	0.7967	0.61355	0.654	0.71382	0.73075	0.70805
Score		1.2869	0.9257	1.34088	0.7299	0.72384	0.98458	0.59614
Zone		sehat	sehat	sehat	Bangkrut	Bangkrut	sehat	Bangkrut

zmijewski								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
		-4.3	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3
X1	4.5	0.33099	0.2582	0.38928	0.0237	0.08061	0.07248	-0.11698
X2	5.7	3.5206	3.9093	1.76528	1.9526	1.8322	1.5449	1.67552
X3	0.004	0.00327	0.0027	0.00646	0.0047	0.00493	0.00572	0.00509
Score		-1.1137	-0.6516	-2.93045	-2.3758	-2.5533	-2.8333	-2.51259
Zone		sehat	sehat	sehat	sehat	sehat	sehat	sehat

Grover								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.65	-0.1703	-0.3319	0.3001	0.0985	0.11257	0.18651	0.12174
X3	3.404	0.35125	0.2846	0.34331	0.0049	-0.0386	0.00865	-0.11634
ROA	0.016	0.00118	0.0007	0.00152	0.0002	-0.0005	0.00052	-0.00056
		0.057	0.057	0.057	0.057	0.057	0.057	0.057
Score		0.23679	0.0091	0.69889	0.1602	0.13147	0.25164	0.06297
Zone		sehat	Kelabu	sehat	sehat	sehat	sehat	sehat

Lanjutan....

10. LPPF (Matahari Departement Store Tbk)

Altman								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.2	-0.0698	-0.1745	-0.07645	-0.1412	-0.0512	0.09526	0.08024
X2	1.4	0.27898	0.599	1.14587	1.3813	1.54471	1.4523	1.42211
X3	3.3	1.69102	1.7846	2.03926	2.0177	0.00198	0.00172	1.44507
X4	0.6	0.81988	0.9724	5.17938	8.1285	11.0714	8.81602	5.6486
X5	0.999	1.93852	1.9153	2.29753	2.323	2.3135	2.03486	1.84506
Score		4.65857	5.0968	10.5856	13.709	14.8804	12.4002	10.4411
Zone		Sehat	Sehat	Sehat	Sehat	Sehat	Sehat	Sehat

Springate								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
A	1.03	-0.0599	-0.1498	-0.06562	-0.1212	-0.044	0.08176	0.06887
B	3.07	1.57316	1.6602	1.89713	1.877	0.00184	0.0016	1.34435
C	0.66	0.2842	0.3525	0.53201	0.485	0.60745	0.6458	0.60577
D	0.4	0.77618	0.7669	0.91993	0.9301	0.92633	0.81476	0.73876
Score		2.57361	2.6298	3.28345	3.1709	1.49164	1.54392	2.75776
Zone		sehat	sehat	sehat	sehat	sehat	sehat	sehat

zmijewski								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
		-4.3	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3
X1	4.5	0.86499	1.184	1.76232	1.8736	2.06048	1.87053	1.5812
X2	5.7	12.0587	9.4579	7.21651	5.403	4.07884	3.5236	3.2551
X3	0.004	0.00367	0.0032	0.0036	0.0034	0.00373	0.0046	0.00456
Score		6.89003	3.9706	1.15059	-0.774	-2.2854	-2.6515	-2.63066
Zone		bangkrut	bangkrut	bangkrut	sehat	sehat	sehat	sehat

Grover								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.65	-0.096	-0.2399	-0.10512	-0.1941	-0.0705	0.13098	0.11033
X3	3.404	1.74432	1.8408	2.10353	2.0812	0.00205	0.00177	1.49061
ROA	0.016	0.00308	0.0042	0.00627	0.0067	0.00733	0.00665	0.00556
		0.057	0.057	0.057	0.057	0.057	0.057	0.057
Score		1.70222	1.6537	2.04914	1.9374	-0.0187	0.1831	1.65238
Zone		sehat	sehat	sehat	sehat	Kelabu	sehat	sehat

Lanjutan....

16. RIMO (Rimo International Lestari Tbk)

Altman								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.2	-4.9299	-9.3454	-12.7684	-9.6123	-2.3538	-1.8045	-0.11506
X2	1.4	-19.583	-32.527	-45.1964	-34.184	-9.0594	-7.1282	-0.29209
X3	3.3	-4.5914	-5.7221	-3.71381	-2.0563	-0.4335	-0.3127	0.01714
X4	0.6	0.21198	0.4208	0.38982	0.579	0.4232	0.37768	0.04133
X5	0.999	0.63375	0.8135	0.05725	0.0177	0.00369	0.00135	0.00004774
Score		-28.258	-46.361	-61.2316	-45.256	-11.42	-8.8663	-0.34863
Zone		bangkrut	bangkrut	bangkrut	bangkrut	bangkrut	bangkrut	bangkrut

Springate								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
A	1.03	-4.2315	-8.0215	-10.9595	-8.2506	-2.0203	-1.5488	-0.09876
B	3.07	-4.2714	-5.3233	-3.45497	-2.1621	-0.4032	-0.2909	0.01594
C	0.66	-0.1965	-0.1441	-0.0693	-0.0506	-0.0586	-0.0403	0.07169
D	0.4	0.25375	0.3257	0.02292	0.0071	0.00148	0.00054	0.00001912
Score		-8.4457	-13.163	-14.4609	-10.456	-2.4807	-1.8796	-0.0111
Zone		Bangkrut	Bangkrut	Bangkrut	Bangkrut	Bangkrut	Bangkrut	Bangkrut

zmijewski								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
		-4.3	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3
X1	4.5	-5.4755	-7.7807	-5.0284	-3.1003	-0.7927	-0.4078	0.04663
X2	5.7	26.1632	47.025	67.5122	55.144	19.454	16.8474	0.74939
X3	0.004	0.0003	0.00009	0.00007	0.00004	0.00005	0.00005	0.00005
Score		27.3385	50.506	68.2405	53.944	15.9466	12.9552	-3.59728
Zone		bangkrut	bangkrut	bangkrut	bangkrut	bangkrut	bangkrut	sehat

Grover								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.65	-6.7787	-12.85	-17.5566	-13.217	-3.2365	-2.4811	-0.15821
X3	3.404	-4.7361	-5.9024	-3.83086	-2.1211	-0.4471	-0.3226	0.01768
ROA	0.016	-0.0195	-0.0277	-0.01788	-0.01	-0.0028	-0.0015	0.00017
		0.057	0.057	0.057	0.057	0.057	0.057	0.057
Score		-11.438	-18.668	-21.3125	-15.271	-3.6238	-2.7453	-0.0837
Zone		bangkrut	bangkrut	bangkrut	bangkrut	bangkrut	bangkrut	bangkrut

Lanjutan....

Lanjutan....

20. TRIO (Trikomsel Oke Tbk)

Altman								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.2	0.2929	0.3986	0.48102	0.6857	-5.1395	-11.093	-2.23753
X2	1.4	0.17927	0.2275	0.21275	0.2428	-12.257	-24.563	-40.6791
X3	3.3	0.49313	0.5103	0.41049	0.3938	-35.26	-2.7979	-0.94154
X4	0.6	0.6968	0.8148	0.59314	0.5446	0.79648	0.78927	8.13899
X5	0.999	1.88772	1.791	1.25645	1.1882	8.01274	3.99008	7.61548
Score		3.54982	3.7421	2.95384	3.0552	-43.848	-33.674	-28.1037
Zone		Sehat	Sehat	Sehat	Sehat	bangkrut	bangkrut	bangkrut

Springate								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
A	1.03	0.25141	0.3421	0.41288	0.5885	-4.4114	-9.5211	-1.92054
B	3.07	0.45876	0.4748	0.38188	0.3664	-32.803	-2.6029	-0.13089
C	0.66	0.10162	0.1164	0.09387	0.0883	-1.5605	-0.0682	-0.12286
D	0.4	0.75585	0.7171	0.50308	0.4758	3.2083	1.59763	5.76189
Score		1.56763	1.6504	1.39171	1.519	-35.566	-10.595	3.58759
Zone		sehat	sehat	sehat	sehat	Bangkrut	Bangkrut	sehat

zmijewski								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
		-4.3	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3
X1	4.5	0.2912	0.3214	0.27295	0.1602	-49.002	-5.2844	-3.21182
X2	5.7	4.15141	3.7372	4.29677	4.2069	50.7735	95.9562	82.1293
X3	0.004	0.00535	0.0061	0.00679	0.0103	0.00031	0.00022	0.00104
Score		-0.4451	-0.8903	-0.28297	-0.2636	95.4753	96.9404	81.0401
Zone		sehat	sehat	sehat	sehat	bangkrut	bangkrut	bangkrut

Grover								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.65	0.40274	0.5481	0.66141	0.9428	-7.0668	-15.252	-3.0766
X3	3.404	0.50867	0.5264	0.42342	0.4063	-36.371	-2.886	-0.14513
ROA	0.016	0.00104	0.0012	0.00099	0.0006	-0.174	-0.0188	-0.01137
		0.057	0.057	0.057	0.057	0.057	0.057	0.057
Score		0.96737	1.1304	1.14083	1.4055	-43.207	-18.062	-3.15336
Zone		sehat	sehat	sehat	sehat	bangkrut	bangkrut	bangkrut

Lanjutan....

21. ECII (Electronic City Indonesia Tbk)

Altman								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.2	0	0	0.75812	0.7619	0.77297	0.72012	0.73332
X2	1.4	0	0	0.22994	0.2966	0.03305	0.31258	0.30037
X3	3.3	0	0	0.38946	0.2569	0.06959	-0.2314	0.01405
X4	0.6	0	0	6.58591	3.8604	4.82825	3.12156	2.62291
X5	0.999	0	0	0.99408	1.1103	0.937	0.88124	0.95617
Score		0	0	8.95751	6.2861	6.64086	4.80415	4.62682
Zone		0	0	Sehat	Sehat	Sehat	Sehat	Sehat

Springate								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
A	1.03	0	0	0.65072	0.6539	0.66347	0.6181	0.62943
B	3.07	0	0	0.36232	0.239	0.06474	-0.2152	0.01307
C	0.66	0	0	0.56181	0.6149	0.28153	-0.1832	0.38285
D	0.4	0	0	0.39803	0.4446	0.37518	0.35285	0.38285
Score		0	0	1.97288	1.9524	1.38491	0.57256	1.4082
Zone		0	0	sehat	sehat	sehat	Bangkrut	sehat

zmijewski								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
		0	0	-4.3	-4.3	-4.3	-4.3	-4.3
X1	4.5	0	0	0.46006	0.2908	0.07832	-0.0772	-0.02322
X2	5.7	0	0	0.95068	0.6431	0.42318	0.46616	0.55402
X3	0.004	0	0	0.02223	0.0344	0.05612	0.04115	0.03672
Score		0	0	-3.83161	-3.9821	-4.0113	-3.7978	-3.75949
Zone		0	0	sehat	sehat	sehat	sehat	sehat

Grover								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.65	0	0	1.04241	1.0476	1.06283	0.99016	1.00831
X3	3.404	0	0	0.40174	0.265	0.07178	-0.2387	0.01449
ROA	0.016	0	0	0.00164	0.001	0.00028	-0.0002	6.81E-05
		0	0	0.057	0.057	0.057	0.057	0.057
Score		0	0	1.49951	1.3685	1.19134	0.80869	1.07974
Zone		0	0	sehat	sehat	sehat	sehat	sehat

Lanjutan....

22. DAYA (Duta Intidaya Tbk)

Altman								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.2	0	0	0	0	0	0.32565	0.29857
X2	1.4	0	0	0	0	0	-0.9752	-0.72891
X3	3.3	0	0	0	0	0	-0.3905	-0.0446
X4	0.6	0	0	0	0	0	2.43802	1.63276
X5	0.999	0	0	0	0	0	1.19029	1.31776
Score		0	0	0	0	0	2.58826	2.47559
Zone			0	0	0	0	kelabu	kelabu

Springate								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
A	1.03	0	0	0	0	0	0.27952	0.25627
B	3.07	0	0	0	0	0	-0.3633	-0.04149
C	0.66	0	0	0	0	0	-0.1856	-0.0203
D	0.4	0	0	0	0	0	0.47659	0.52763
Score		0	0	0	0	0	0.20729	0.72211
Zone		0	0	0	0	0	Bangkrut	Bangkrut

Zmijewski								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
		-4.3	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3
X1	4.5	0	0	0	0	0	-0.5447	-0.06498
X2	5.7	0	0	0	0	0	2.85222	3.20198
X3	0.004	0	0	0	0	0	0.00658	0.00627
Score		0	0	0	0	0	-0.9096	-1.0393
Zone		0	0	0	0	0	sehat	sehat

Grover								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.65	0	0	0	0	0	0.44777	0.41054
X3	3.404	0	0	0	0	0	-0.4028	-0.046
ROA	0.016	0	0	0	0	0	-0.0019	-0.00027
		0.057	0.057	0.057	0.057	0.057	0.057	0.057
Score		0	0	0	0	0	0.10392	0.42181
Zone		0	0	0	0	0	sehat	sehat

Lanjutan....

23. MKNT (Mitra Komunikasi Nusantara Tbk)

Altman								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.2	0	0	0	0	1.03469	0.95667	0.24563
X2	1.4	0	0	0	0	0.07848	0.08815	0.04999
X3	3.3	0	0	0	0	0.22316	0	0.17539
X4	0.6	0	0	0	0	27.6869	13.2274	1.14487
X5	0.999	0	0	0	0	4.44822	1.7145	6.5361
Score		0	0	0	0	33.4715	15.9867	8.15198
Zone		0	0	0	0	Sehat	Sehat	Sehat

Springate								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
A	1.03	0	0	0	0	0.88811	0.82114	0.21083
B	3.07	0	0	0	0	0.20761	0	0.16317
C	0.66	0	0	0	0	0.38022	0.09433	0.05105
D	0.4	0	0	0	0	1.78107	0.68649	2.61706
Score		0	0	0	0	3.257	1.60196	3.04211
Zone		0	0	0	0	sehat	sehat	sehat

Zmijewski								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
		-4.3	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3
X1	4.5	0	0	0	0	0.14858	0.06551	0.17626
X2	5.7	0	0	0	0	0.46121	0.88451	4.04213
X3	0.004	0	0	0	0	0.04881	0.02507	0.00519
Score		0	0	0	0	-4.0362	-3.5061	-0.43932
Zone		0	0	0	0	sehat	sehat	sehat

Grover								
	Koefisien	2011	2012	2013	2014	2015	2016	2017
X1	1.65	0	0	0	0	1.42269	1.31542	0.33773
X3	3.404	0	0	0	0	0.23019	0	0.18092
ROA	0.016	0	0	0	0	0.00054	0.00023	0.00128
		0.057	0.057	0.057	0.057	0.057	0.057	0.057
Score		0	0	0	0	1.70935	1.37219	0.57438
Zone		0	0	0	0	sehat	sehat	sehat

LAMPIRAN 4

1. Model Altman

NO.	KODE SAHAM	Tahun							Rata - rata	prediksi
		2011	2012	2013	2014	2015	2016	2017		
1	ACES	23.367	32.27	14.617	17.72	17.19	16.438	16.739	19.763	sehat
2	AMRT	6.3915	6.303	4.745	4.442	5.0797	4.309	3.9665	5.0338	sehat
3	CENT	4.1403	17.95	10.644	3.537	3.7881	2.6499	1.0524	6.2522	sehat
4	CSAP	2.7936	3.867	2.5179	4.599	2.6117	4.2307	2.5079	3.304	sehat
5	ERAA	5.7365	8.502	4.2997	3.747	3.3605	3.737	3.6948	4.7254	sehat
6	GLOB	0	16.9	4.4518	3.605	34.727	-16.376	-17.486	4.3041	sehat
7	GOLD	5.5464	6.003	5.4443	5.59	4.6418	1.43	1.6467	4.3288	sehat
8	HERO	4.0139	4.764	5.0063	4.193	3.1991	4.0233	3.1974	4.0567	sehat
9	KOIN	1.0785	3.541	4.5981	3.299	2.7281	4.0787	2.7262	3.15	sehat
10	LPPF	4.6586	5.097	10.586	13.71	14.88	12.4	10.441	10.253	sehat
11	MAPI	4.8434	4.628	2.8268	2.711	2.5281	2.6797	2.9558	3.3104	sehat
12	MIDI	3.0792	3.467	3.1616	3.216	3.1204	2.756	2.5423	3.0489	sehat
13	MPPA	1.996	3.152	4.6951	6.708	4.6997	3.649	1.4337	3.7619	sehat
14	RALS	6.3363	7.834	5.6056	5.225	4.5412	6.3868	6.0357	5.9949	sehat
15	RANC	0	2.827	4.4956	3.695	3.9233	5.3502	4.4038	3.5278	sehat
16	RIMO	-28.258	-46.36	-61.23	-45.26	-11.42	-8.8663	-0.3486	-28.82	Bangkrut
17	SKYB	2.5146	2.085	2.0455	2.679	-0.22	113.86	177.89	42.98	sehat
18	SONA	4.4158	3.583	5.134	4.56	2.791	2.5192	3.5611	3.7949	sehat
19	TELE	0	14.86	4.9462	5.528	5.2965	5.6319	5.5275	6.9643	sehat
20	TRIO	3.5498	3.742	2.9538	3.055	-43.85	-33.674	-28.104	-13.19	Bangkrut
21	ECII	0	0	8.9575	6.286	6.6409	4.8041	4.6268	6.2631	sehat
22	DAYA	0	0	0	0	0	2.5883	2.4756	2.5319	Grey Area
23	MKNT	0	0	0	0	33.471	15.987	8.152	19.203	sehat

2. Model Springate

NO.	KODE SAHAM	Tahun							Rata - rata	prediksi
		2011	2012	2013	2014	2015	2016	2017		
1	ACES	3.418	3.813	2.9078	3.022	3.13	3.3912	3.2023	3.2692	sehat
2	AMRT	1.7541	1.586	1.4834	1.451	1.6092	1.3334	1.2161	1.4905	sehat
3	CENT	0.8803	0.091	-0.195	-0.31	-0.255	-0.0932	-0.1021	0.0021	bangkrut
4	CSAP	1.2174	1.085	1.0865	1.219	1.0382	1.0599	1.0089	1.1022	sehat
5	ERAA	2.1704	2.54	1.8156	1.488	1.4028	1.563	1.5524	1.7903	sehat
6	GLOB	0	2.28	1.8527	1.516	28.657	-3.8922	-6.2517	4.0271	sehat
7	GOLD	1.4895	1.612	1.5243	1.379	0.4357	-0.2941	-0.041	0.8722	sehat
8	HERO	1.2869	0.926	1.3409	0.73	0.7238	0.9846	0.5961	0.9411	sehat
9	KOIN	-0.4239	1.609	2.0691	1.336	1.0977	2.3846	0.9473	1.2885	sehat
10	LPPF	2.5736	2.63	3.2834	3.171	1.4916	1.5439	2.7578	2.493	sehat
11	MAPI	1.3993	1.424	0.8288	0.8	0.87	0.9342	1.0192	1.0394	sehat
12	MIDI	1.0011	1.031	1.1311	1.233	1.1638	1.0491	0.7449	1.0505	sehat
13	MPPA	0.4775	1.007	1.3029	1.687	1.2614	1.0269	-0.257	0.9295	sehat
14	RALS	1.5875	1.637	1.4763	1.371	1.3235	1.4554	1.4204	1.4673	sehat
15	RANC	0	1.587	1.2577	1.094	1.0903	1.701	1.6042	1.1907	sehat
16	RIMO	-8.4457	-13.16	-14.46	-10.46	-2.481	-1.8796	-0.0111	-7.271	bangkrut
17	SKYB	1.1202	0.798	0.6949	0.726	-65.33	26.961	-3.0435	-5.438	bangkrut
18	SONA	1.6627	1.706	1.8149	1.766	1.413	0.9747	0.9085	1.4636	sehat
19	TELE	0	4.664	1.9836	2.012	2.5718	2.8248	2.5193	2.7625	sehat
20	TRIO	1.5676	1.65	1.3917	1.519	-35.57	-10.595	3.5876	-5.206	bangkrut
21	ECII	0	0	1.9729	1.952	1.3849	0.5726	1.4082	1.4582	sehat
22	DAYA	0	0	0	0	0	2.5883	2.4756	2.5319	sehat
23	MKNT	0	0	0	0	3.257	1.602	3.0421	2.6337	sehat

3. Model Zmijewski

NO.	KODE SAHAM	Tahun							Rata - rata	prediksi
		2011	2012	2013	2014	2015	2016	2017		
1	ACES	-4.3234	-4.441	-3.933	-4.027	-4.015	-4.1383	-3.9393	-4.117	sehat
2	AMRT	-0.5871	-1.247	-0.191	-0.012	-0.561	-0.2813	-0.0229	-0.415	sehat
3	CENT	-3.5119	-2.698	-3.449	-3.047	-3.183	-3.0009	-2.2489	-3.02	sehat
4	CSAP	-0.2929	-0.076	0.0218	-0.016	0.0144	-0.5029	-0.297	-0.164	sehat
5	ERAA	-3.174	-2.887	-2.057	-1.569	-1.091	-1.3887	-1.1693	-1.905	sehat
6	GLOB	0	-1.402	-0.769	-0.574	68.281	60.486	66.6	32.104	bangkrut
7	GOLD	-3.4702	-3.597	-3.515	-3.618	-3.111	-1.74	-1.1801	-2.89	sehat
8	HERO	-1.1137	-0.652	-2.93	-2.376	-2.553	-2.8333	-2.5126	-2.139	sehat
9	KOIN	2.6493	0.082	-0.584	-0.072	0.2766	0.4195	1.0139	0.5407	bangkrut
10	LPPF	6.89	3.971	1.1506	-0.774	-2.285	-2.6515	-2.6307	0.5242	bangkrut
11	MAPI	0.0131	0.515	-0.566	-0.356	-0.409	-0.4033	3.4397	0.319	bangkrut
12	MIDI	-0.5375	-0.184	-0.101	-0.214	-0.096	-0.0074	0.3193	-0.117	sehat
13	MPPA	-0.8515	-0.69	-0.908	-0.941	-0.158	0.1571	1.1952	-0.314	sehat
14	RALS	-3.3715	-3.335	-3.199	-3.166	-3.096	-3.1004	-3.0574	-3.189	sehat
15	RANC	0	-2.489	-1.995	-1.624	-1.544	-2.2603	-2.0827	-1.714	sehat
16	RIMO	27.338	50.51	68.24	53.94	15.947	12.955	-3.5973	32.19	bangkrut
17	SKYB	-0.0218	0.096	0.0449	-0.348	9.491	-9.1601	-3.9552	-0.55	sehat
18	SONA	-2.7566	-3.872	-4.198	-4.613	-3.124	-3.6682	-4.2665	-3.785	sehat
19	TELE	0	-3.944	-1.277	-1.724	-1.105	-1.1047	-1.1389	-1.716	sehat
20	TRIO	-0.4451	-0.89	-0.283	-0.264	95.475	96.94	81.04	38.796	bangkrut
21	ECII	0	0	-3.832	-3.982	-4.011	-3.7978	-3.7595	-3.876	sehat
22	DAYA	0	0	0	0	0	-0.9096	-1.0393	-0.974	sehat
23	MKNT	0	0	0	0	-4.036	-3.5061	-0.4393	-2.661	sehat

4. Model Grover

NO.	KODE SAHAM	Tahun							Rata - rata	prediksi
		2011	2012	2013	2014	2015	2016	2017		
1	ACES	1.722	1.922	1.8185	1.855	1.8929	1.9336	1.8716	1.8594	sehat
2	AMRT	0.248	0.331	0.1612	0.255	0.3904	0.1783	0.1042	0.2383	sehat
3	CENT	0.964	0.407	0.0457	-0.17	0.3626	0.0868	0.0527	0.2498	sehat
4	CSAP	0.4872	0.367	0.3341	0.45	0.3046	0.4671	0.3663	0.3965	sehat
5	ERAA	1.3242	1.271	0.9487	0.701	0.4904	0.5751	0.5907	0.843	sehat
6	GLOB	0	1.306	0.9812	0.838	21.589	-8.7133	-8.5904	1.235	sehat
7	GOLD	1.2695	1.366	1.3982	1.337	0.95	-0.2898	-0.1213	0.8442	sehat
8	HERO	0.2368	0.009	0.6989	0.16	0.1315	0.2516	0.063	0.2216	sehat
9	KOIN	-1.198	0.647	0.8793	0.541	0.3634	1.8585	0.2612	0.4789	sehat
10	LPPF	1.7022	1.654	2.0491	1.937	-0.019	0.1831	1.6524	1.3085	sehat
11	MAPI	0.6147	0.703	0.364	0.381	0.5172	0.5506	0.5571	0.5267	sehat
12	MIDI	0.2071	0.139	0.1812	0.249	0.2254	0.19	-0.1566	0.1479	sehat
13	MPPA	0.1931	0.659	0.6416	0.796	0.4423	0.3359	-0.944	0.3035	sehat
14	RALS	0.9911	1.015	0.9007	0.905	0.9169	0.9722	1.0076	0.9583	sehat
15	RANC	0	0.958	0.6447	0.362	0.2118	0.6364	0.6276	0.4915	sehat
16	RIMO	-11.438	-18.67	-21.31	-15.27	-3.624	-2.7453	-0.0837	-10.45	bangkrut
17	SKYB	0.6467	0.301	0.222	0.465	0.0935	0.0778	-0.0315	0.2535	sehat
18	SONA	1.3122	1.369	1.4816	1.283	1.1223	0.7525	0.4084	1.1041	sehat
19	TELE	0	1.999	0.8866	1.072	1.609	1.7266	1.5825	1.4794	sehat
20	TRIO	0.9674	1.13	1.1408	1.405	-43.21	-18.062	-3.1534	-8.54	bangkrut
21	ECII	0	0	1.4995	1.369	1.1913	0.8087	1.0797	1.1896	sehat
22	DAYA	0	0	0	0	0	0.1039	0.4218	0.2629	sehat
23	MKNT	0	0	0	0	1.7094	1.3722	0.5744	1.2186	sehat

LAMPIRAN 5

Hasil Uji Tingkat Akurasi

Prediksi	Altman	Springate	Zmijewski	Grover
Bangkrut	2	4	6	2
Grey Area	1	0	0	0
Sehat	20	19	17	21
Total	23	23	23	23
Akurasi (%)	86,96	82,61	73,9	91,30
Tipe error (%)	8,69	17,39	26,1	8,70
Grey area (%)	4,35	0	0	0