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# LAMPIRAN

## 1. Data Observasi Perusahaan 2016-2019

Keterangan : IBK = Industri Barang Konsumsi  
 IDK = Industri Dasar & Kimia  
 AI = Aneka Industri

NO.	KODE SAHAM	SEKTOR USAHA	Tanggal	NL	NBE	RS-3	RS0	RS3	KWPLK	PCSR	ITM
1	ADES	IBK	30/03/2017	0,6964	0,1706	0,0292	0,0303	0,0015	1	1	1
2	ADES	IBK	28/03/2018	-0,3158	0,1005	0,0036	-0,0054	-0,0109	1	1	1
3	ADES	IBK	27/03/2019	0,3846	0,1392	0,0176	-0,0226	-0,0045	1	1	1
4	ADES	IBK	27/05/2020	0,5778	0,1785	0,0000	0,0736	0,0093	0	1	1
5	AKPI	IDK	29/03/2017	0,9111	0,0113	-0,0181	0,0000	0,0000	1	1	1
6	AKPI	IDK	30/03/2018	-0,7442	0,0059	-0,0020	0,0000	0,0000	1	1	1
7	AKPI	IDK	29/03/2019	3,7727	0,0952	0,0385	-0,0153	-0,0284	1	1	1
8	AKPI	IDK	19/05/2020	-0,1524	0,0090	0,0000	0,0000	-0,0229	0	1	1
9	ALDO	IDK	30/03/2017	0,0400	0,1753	0,0000	0,0000	0,0000	1	1	1
10	ALDO	IDK	28/03/2018	-0,0769	0,1420	0,0000	0,0000	0,0000	1	1	1
11	ALDO	IDK	29/03/2019	0,8333	0,1838	-0,0130	-0,0173	0,0067	1	1	1
12	ALDO	IDK	06/04/2020	0,2639	-0,4012	-0,0215	0,0092	-0,0015	0	1	1
13	ARNA	IDK	20/03/2017	0,3333	0,0596	0,0469	0,0470	0,0000	1	1	1
14	ARNA	IDK	06/03/2018	0,3333	0,0858	-0,0039	0,0000	-0,0039	1	1	1
15	ARNA	IDK	07/02/2019	0,3125	0,0487	0,0000	0,0085	0,0071	1	1	1
16	ARNA	IDK	06/02/2020	0,3810	0,0901	0,0171	0,0177	0,0000	1	1	1
17	ASII	AI	27/02/2017	0,0476	0,1057	0,0083	-0,0123	0,0184	1	1	1
18	ASII	AI	27/02/2018	0,2460	0,1174	-0,0029	0,0123	-0,0020	1	1	1
19	ASII	AI	27/02/2019	0,1481	0,1154	-0,0043	0,0000	-0,0197	1	1	1
20	ASII	AI	27/02/2020	0,0019	0,0711	-0,0079	-0,0165	-0,0016	1	1	1
21	BATA	AI	31/03/2017	-0,6739	0,0182	0,0045	0,0000	0,0041	1	1	1
22	BATA	AI	30/04/2018	0,2702	0,0398	0,0000	0,0087	0,0030	0	1	1
23	BATA	AI	30/04/2019	0,2665	0,0993	0,0141	-0,0082	-0,0135	0	1	1
24	BATA	AI	02/06/2020	-0,6551	0,0258	-0,0028	0,0085	-0,0085	0	1	1
25	BOLT	AI	28/02/2017	-0,2203	0,0707	0,0017	0,0047	-0,0031	1	1	1
26	BOLT	AI	28/03/2018	-0,1522	-0,2506	-0,0054	0,0000	0,0000	1	1	1
27	BOLT	AI	28/03/2019	-0,1795	0,0241	0,0000	-0,0222	-0,0019	1	1	1
28	BOLT	AI	30/03/2020	-0,3438	0,0312	0,0000	0,0000	0,0000	1	1	1
29	BRAM	AI	29/03/2017	0,7337	0,0573	-0,0016	0,0000	0,0000	1	1	1
30	BRAM	AI	02/04/2018	0,0934	0,0895	0,0139	-0,0368	-0,0104	0	1	1
31	BRAM	AI	27/03/2019	-0,1515	0,0915	0,0000	0,0000	0,0000	1	1	1
32	BRAM	AI	02/04/2020	-0,2744	-0,0337	0,0000	0,0000	0,0000	0	1	1
33	BRPT	IDK	23/03/2017	52,7000	0,1846	0,0216	0,0145	0,0226	1	1	1
34	BRPT	IDK	06/03/2018	-0,5047	-0,3089	-0,0025	-0,0346	0,0029	1	1	1
35	BRPT	IDK	29/03/2019	-0,2669	0,1302	0,0115	-0,0056	0,0048	1	1	1

36	BRPT	IDK	07/04/2020	-0,8923	-0,8033	0,1063	-0,0150	-0,0272	0	1	1
37	BUDI	IDK	31/03/2017	0,7500	0,0540	0,0001	-0,0198	-0,0033	1	1	1
38	BUDI	IDK	23/03/2018	0,2857	0,0255	0,0064	-0,0093	0,0906	1	1	1
39	BUDI	IDK	29/03/2019	0,1111	0,0266	0,0000	-0,0100	0,0034	1	1	1
40	BUDI	IDK	20/04/2020	0,3000	0,0480	0,0038	-0,0112	0,0041	0	1	1
41	CEKA	IBK	31/03/2017	1,3464	0,3876	0,0104	-0,0269	-0,0435	1	1	0
42	CEKA	IBK	21/03/2018	-0,5690	0,0170	-0,0063	0,0219	-0,0168	1	1	0
43	CEKA	IBK	19/03/2019	-0,1381	0,0815	0,0034	0,0099	0,0134	1	1	0
44	CEKA	IBK	13/04/2020	1,3205	0,1583	-0,0183	0,0314	0,0222	0	1	0
45	CINT	IBK	30/03/2017	-0,3216	0,0360	0,0000	-0,0065	0,0022	1	1	1
46	CINT	IBK	29/03/2018	0,4324	0,1711	-0,0041	0,0000	-0,0020	1	1	1
47	CINT	IBK	28/03/2019	-0,5369	0,0168	0,0092	0,0000	-0,0158	1	1	1
48	CINT	IBK	31/03/2020	-0,4473	0,0026	0,0259	0,0219	-0,0024	1	1	1
49	CPIN	IDK	31/03/2017	0,2054	0,1072	0,0104	-0,0303	0,0155	1	1	0
50	CPIN	IDK	29/03/2018	0,1259	0,1092	-0,0206	0,0714	0,0039	1	1	0
51	CPIN	IDK	29/03/2019	0,8289	0,0949	-0,0207	-0,1176	0,0052	1	1	0
52	CPIN	IDK	23/04/2020	-0,2014	0,0867	-0,0096	0,0487	0,0000	0	1	0
53	DLTA	IBK	31/03/2017	0,3319	0,1916	-0,0004	0,0023	0,0113	1	1	0
54	DLTA	IBK	29/03/2018	0,1009	0,1307	0,0033	0,0048	-0,0016	1	1	0
55	DLTA	IBK	29/03/2019	0,2092	0,1219	0,0000	0,0000	0,0000	1	1	0
56	DLTA	IBK	01/04/2020	-0,0592	-0,0550	0,0075	0,0063	-0,0047	0	1	0
57	DPNS	IDK	03/04/2017	0,0303	0,0910	0,0000	0,0000	0,0017	0	1	0
58	DPNS	IDK	02/04/2018	-0,3824	0,0174	-0,0074	0,0457	-0,0401	0	1	0
59	DPNS	IDK	28/03/2019	0,4762	0,0369	0,0084	0,0000	0,0042	1	1	0
60	DPNS	IDK	24/04/2020	-0,5161	0,0158	-0,0161	0,0000	0,0075	0	0	0
61	DVLA	IBK	30/03/2017	0,4021	0,1089	-0,0020	0,0303	0,0039	1	1	1
62	DVLA	IBK	26/03/2018	0,0662	0,0340	-0,0094	-0,0025	0,0000	1	1	1
63	DVLA	IBK	26/03/2019	0,2414	0,0752	-0,0228	0,0000	-0,0046	1	1	1
64	DVLA	IBK	01/04/2020	0,1000	0,0882	0,0148	0,0095	0,0064	0	1	1
65	EKAD	IDK	31/03/2017	0,8806	1,0277	0,0181	-0,0458	-0,0115	1	1	1
66	EKAD	IDK	28/03/2018	-0,1429	0,1196	0,0024	-0,0143	0,0000	1	1	1
67	EKAD	IDK	29/03/2019	-0,0463	0,0932	0,0000	0,0000	-0,0079	1	1	1
68	EKAD	IDK	27/04/2020	0,0291	0,1766	-0,0075	0,0000	0,0099	0	0	0
69	FASW	IDK	23/02/2017	-3,5120	0,2916	0,0158	0,0022	-0,0049	1	1	1
70	FASW	IDK	22/02/2018	-0,2357	0,0411	0,0000	-0,0138	0,0048	1	1	1
71	FASW	IDK	14/02/2019	1,3625	0,3041	0,0218	0,0250	0,0061	1	1	1
72	FASW	IDK	12/02/2020	-0,3104	0,0943	0,0000	-0,0207	0,0024	1	1	1
73	GGRM	IBK	31/03/2017	0,0374	0,0409	0,0091	-0,0176	0,0110	1	1	1
74	GGRM	IBK	28/03/2018	0,1614	0,0663	-0,0099	0,0028	0,0117	1	1	1
75	GGRM	IBK	29/03/2019	0,0050	0,0698	0,0098	-0,0116	-0,0023	1	1	1
76	GGRM	IBK	02/04/2020	0,3963	0,1285	-0,0304	0,0980	0,0314	0	1	1

77	HMSP	IBK	06/03/2017	0,1828	-0,9573	0,0109	-0,0100	0,0025	1	1	1
78	HMSP	IBK	06/03/2018	-0,0091	-0,0018	-0,0049	-0,0084	-0,0223	1	1	1
79	HMSP	IBK	21/03/2019	0,0642	0,0365	-0,0096	0,0053	0,0036	1	1	1
80	HMSP	IBK	02/04/2020	0,0172	0,0091	-0,0066	0,0848	0,0375	0	1	1
81	ICBP	IBK	24/03/2017	0,2023	-0,4355	0,0019	-0,0199	-0,0137	1	1	1
82	ICBP	IBK	20/03/2018	0,0550	0,0986	0,0048	-0,0283	0,0049	1	1	1
83	ICBP	IBK	22/03/2019	0,2025	0,1172	0,0000	-0,0048	-0,0385	1	1	1
84	ICBP	IBK	23/03/2020	0,1020	0,1746	-0,0268	-0,0696	0,0629	1	1	1
85	IGAR	IDK	27/03/2017	0,5484	0,2038	-0,0038	0,0121	-0,0134	1	1	1
86	IGAR	IDK	27/03/2018	0,1042	0,1825	-0,0015	0,0251	0,0033	1	1	1
87	IGAR	IDK	29/03/2019	-0,3585	0,0927	-0,0156	0,0108	-0,0018	1	1	1
88	IGAR	IDK	12/05/2020	0,2941	0,1118	-0,0083	0,0169	-0,0056	0	1	1
89	IMPC	IDK	31/03/2017	0,4000	-0,8883	-0,0048	-0,0732	0,0105	1	1	1
90	IMPC	IDK	29/03/2018	-0,1429	0,0517	-0,0017	-0,0051	-0,0034	1	1	1
91	IMPC	IDK	29/03/2019	-0,0556	0,0645	-0,0195	0,0000	0,0000	1	1	1
92	IMPC	IDK	03/04/2020	0,2353	0,0263	0,0000	0,0047	0,0016	0	1	1
93	INAI	IDK	31/03/2017	0,2444	0,0759	-0,0045	0,0218	0,0001	1	1	0
94	INAI	IDK	29/03/2018	-0,4554	-0,4624	0,0133	-0,0144	0,0000	1	1	0
95	INAI	IDK	29/03/2019	0,0328	0,0955	0,0032	-0,0182	0,0046	1	1	1
96	INAI	IDK	27/04/2020	-0,1746	0,0506	0,0136	-0,0366	0,0242	0	1	1
97	INCI	IDK	31/03/2017	-0,4149	0,5763	0,0286	0,1141	0,0050	1	1	0
98	INCI	IDK	29/03/2018	0,6545	0,1052	-0,0113	-0,0071	0,0024	1	1	0
99	INCI	IDK	29/03/2019	-0,0659	0,1005	-0,0295	0,0000	-0,0384	1	1	1
100	INCI	IDK	29/05/2020	-0,1765	0,0630	-0,0033	-0,0653	0,0200	0	1	1
101	INDF	IBK	24/03/2017	0,4778	0,0190	-0,0041	-0,0031	-0,0020	1	1	1
102	INDF	IBK	20/03/2018	0,0970	0,0641	-0,0057	-0,0278	0,0074	1	1	1
103	INDF	IBK	22/03/2019	0,0021	0,0597	0,0023	0,0069	-0,0335	1	1	1
104	INDF	IBK	23/03/2020	0,1793	0,0859	-0,0201	-0,0696	0,0884	1	1	1
105	INDS	AI	31/03/2017	51,7778	0,0777	-0,0058	0,0058	-0,0078	1	1	0
106	INDS	AI	28/03/2018	1,2895	0,0371	0,0012	-0,0312	0,0222	1	1	0
107	INDS	AI	29/03/2019	-0,0287	0,0230	0,0085	-0,0238	-0,0081	1	1	1
108	INDS	AI	04/05/2020	-0,0947	0,1723	-0,0091	0,0000	0,0053	0	1	1
109	INKP	IDK	30/03/2017	-0,1093	0,0513	0,0297	-0,0227	0,0115	1	1	1
110	INKP	IDK	28/03/2018	1,0221	0,1327	0,0038	-0,0108	-0,0115	1	1	1
111	INKP	IDK	29/03/2019	0,5294	0,2603	0,0028	-0,0722	-0,0144	1	1	1
112	INKP	IDK	19/03/2020	-0,5498	0,0249	-0,0709	-0,0687	-0,0620	1	1	1
113	INTP	IDK	16/03/2017	-0,1116	0,0952	0,0038	0,0224	-0,0005	1	1	1
114	INTP	IDK	22/03/2018	-0,5195	-0,0605	-0,0143	-0,0587	-0,0042	1	1	1
115	INTP	IDK	20/03/2019	-0,3842	-0,0544	0,0172	-0,0051	0,0208	1	1	1
116	INTP	IDK	19/03/2020	0,6013	0,1932	-0,0570	-0,0678	0,0433	1	1	1
117	IPOL	IDK	31/03/2017	1,3333	-0,0043	-0,0064	-0,0909	0,0443	1	1	1

118	IPOL	IDK	29/03/2018	-0,6429	0,0147	0,0054	-0,0152	-0,0077	1	1	1
119	IPOL	IDK	29/03/2019	1,2000	0,0903	-0,0068	0,0000	0,0035	1	1	1
120	IPOL	IDK	03/04/2020	-0,0909	-0,0247	0,0000	0,0566	0,0303	0	1	1
121	ISSP	IDK	09/05/2017	-0,3636	0,0359	-0,0113	0,0000	0,0000	0	1	1
122	ISSP	IDK	02/04/2018	-0,9286	0,0741	0,0055	-0,0078	-0,0026	0	1	1
123	ISSP	IDK	29/03/2019	5,0000	0,0262	0,0069	-0,0196	0,0137	1	1	1
124	ISSP	IDK	31/03/2020	3,3333	0,0629	0,0253	0,0577	0,1380	1	1	1
125	JECC	AI	31/03/2017	52,3496	0,2789	0,0556	0,0000	0,0000	1	1	1
126	JECC	AI	29/03/2018	-0,3710	0,1638	0,0296	0,1224	0,0000	1	1	1
127	JECC	AI	29/03/2019	0,0617	0,1131	0,0000	0,0000	0,0000	1	1	1
128	JECC	AI	30/04/2020	0,1590	0,0678	0,0000	-0,0071	0,0000	0	1	1
129	JPFA	IDK	01/03/2017	3,2955	0,4331	-0,0009	-0,0551	0,0183	1	1	1
130	JPFA	IDK	01/03/2018	-0,5344	0,0455	0,0084	-0,0093	-0,0063	1	1	1
131	JPFA	IDK	06/03/2019	1,1250	0,1459	-0,0074	0,0183	-0,0090	1	1	1
132	JPFA	IDK	28/02/2020	-0,1925	0,1198	-0,0223	-0,0175	0,0279	1	1	1
133	KBLI	AI	27/03/2017	1,8829	0,2862	0,0094	0,0092	0,1007	1	1	1
134	KBLI	AI	02/04/2018	0,0843	0,3522	-0,0014	0,0000	-0,0013	0	1	1
135	KBLI	AI	29/03/2019	-0,3047	0,1367	0,0409	-0,0571	0,0040	1	1	1
136	KBLI	AI	13/04/2020	0,6667	0,1731	-0,0509	-0,0201	-0,0071	0	1	1
137	KBLM	AI	31/03/2017	0,7273	0,0816	0,0611	-0,1624	-0,0475	1	1	1
138	KBLM	AI	16/04/2018	1,0526	1,4682	0,0020	0,0000	0,0058	0	1	1
139	KBLM	AI	29/03/2019	-0,0769	0,0380	0,0061	-0,0172	0,0117	1	1	1
140	KBLM	AI	02/04/2020	-0,0556	0,0328	-0,0666	-0,0328	0,0046	0	1	1
141	KDSI	IDK	31/03/2017	3,1429	0,1078	0,0448	0,0244	0,0079	1	1	0
142	KDSI	IDK	07/03/2018	0,4655	0,1566	0,0088	0,2479	-0,0185	1	1	0
143	KDSI	IDK	18/03/2019	0,1118	0,1434	0,0222	0,1927	-0,0204	0	1	0
144	KDSI	IDK	16/03/2020	-0,1640	0,0955	-0,0102	0,0000	-0,0479	1	1	0
145	KINO	IBK	31/03/2017	-0,4615	0,0988	-0,0158	0,0329	-0,0079	1	1	1
146	KINO	IBK	29/03/2018	-0,3889	0,0528	-0,0048	0,0000	-0,0076	1	1	1
147	KINO	IBK	29/03/2019	0,3636	0,0641	0,0203	-0,0083	0,0138	1	1	1
148	KINO	IBK	06/04/2020	2,4667	0,2359	-0,0083	0,0459	-0,0063	0	1	1
149	KLBF	IBK	31/03/2017	0,1473	0,1395	0,0099	-0,0065	0,0129	1	1	1
150	KLBF	IBK	29/03/2018	0,0453	0,1147	0,0025	0,0417	0,0111	1	1	1
151	KLBF	IBK	29/03/2019	0,0222	0,1008	0,0033	0,0000	-0,0021	1	1	1
152	KLBF	IBK	03/04/2020	0,0202	0,0923	0,0741	-0,0272	-0,0282	0	1	1
153	LION	IDK	31/03/2017	-0,0795	0,0352	0,0010	0,0000	0,0000	1	1	0
154	LION	IDK	09/04/2018	-0,7778	4,2077	0,0083	0,0000	-0,0050	0	1	0
155	LION	IDK	29/03/2019	0,5556	0,0505	0,0027	0,0000	0,0000	1	1	0
156	LION	IDK	08/05/2020	-0,9286	-0,0136	-0,0050	0,0182	-0,0058	0	1	0
157	MAIN	IDK	31/03/2017	-4,7941	0,1866	0,0070	-0,0081	0,0227	1	1	1
158	MAIN	IDK	09/04/2018	-0,7684	-0,0249	0,0047	-0,0069	0,4823	0	1	1

159	MAIN	IDK	29/03/2019	5,6842	0,1582	-0,0188	-0,1406	-0,0624	1	1	1
160	MAIN	IDK	30/04/2020	-0,4646	0,0696	0,0096	0,0270	-0,0140	0	1	1
161	MERK	IBK	21/03/2017	-0,8607	0,2305	0,0000	-0,0027	0,0036	1	1	1
162	MERK	IBK	23/03/2018	-0,0583	0,0562	-0,0193	-0,0152	-0,0050	1	1	1
163	MERK	IBK	29/03/2019	7,0402	-0,1579	0,0008	-0,0050	0,0033	1	1	1
164	MERK	IBK	31/03/2020	-0,9326	0,1461	0,0986	0,0545	0,0175	1	1	1
165	MLBI	IBK	07/03/2017	0,9746	0,0707	0,0029	0,0000	0,0001	1	1	1
166	MLBI	IBK	23/02/2018	0,3455	0,2977	0,0056	0,0050	0,0130	1	1	1
167	MLBI	IBK	19/02/2019	-0,0734	0,0964	0,0144	0,0014	-0,0047	1	1	1
168	MLBI	IBK	25/02/2020	-0,0155	-0,0184	-0,0044	0,0000	-0,0067	1	1	1
169	MLIA	IDK	30/03/2017	-1,0574	0,4511	0,0000	0,0893	0,0000	1	1	0
170	MLIA	IDK	26/03/2018	4,2857	0,0875	-0,0100	0,0407	0,0189	1	1	0
171	MLIA	IDK	16/04/2019	3,0000	0,2776	-0,0063	0,0000	0,0117	0	1	0
172	MLIA	IDK	02/04/2020	-0,3378	0,1169	0,0340	0,0940	-0,0128	0	1	0
173	MYOR	IBK	21/03/2017	0,1091	-0,9518	0,0033	-0,0097	0,0000	1	1	1
174	MYOR	IBK	27/03/2018	0,1639	0,1738	0,0121	0,0246	0,0046	1	1	1
175	MYOR	IBK	28/03/2019	0,0845	0,1616	-0,0063	0,0158	-0,0091	1	1	1
176	MYOR	IBK	06/04/2020	0,1558	0,1589	-0,0081	0,0442	0,0053	0	1	1
177	PBRX	AI	31/03/2017	0,5000	0,0315	-0,0026	0,0094	0,0395	1	1	0
178	PBRX	AI	30/04/2018	-0,4074	0,0237	0,0000	0,0177	0,0043	0	1	0
179	PBRX	AI	30/04/2019	1,2500	0,1475	-0,0127	0,0000	0,0000	0	1	0
180	PBRX	AI	12/05/2020	0,0000	0,0172	0,0330	-0,0435	0,0226	0	1	0
181	PICO	IDK	31/03/2017	-0,2414	0,0759	0,0000	0,0000	-0,0088	1	0	0
182	PICO	IDK	29/03/2018	0,3182	0,0521	-0,0175	-0,0317	-0,0015	1	1	0
183	PICO	IDK	01/04/2019	-0,1143	0,0583	-0,0140	0,0000	0,0097	0	1	0
184	PICO	IDK	02 June 2020	-0,7419	0,0069	0,0197	0,0252	0,0246	0	1	0
185	PTSN	AI	31/03/2017	9,8452	0,0026	-0,0103	0,0000	-0,0230	1	1	1
186	PTSN	AI	29/03/2018	-0,5939	-0,0028	-0,0085	0,0270	-0,0133	1	1	1
187	PTSN	AI	29/03/2019	25,1811	0,4821	0,0145	-0,1364	0,0039	1	1	1
188	PTSN	AI	04/05/2020	-0,9758	-0,6742	0,0061	-0,0175	-0,0080	0	1	1
189	PYFA	IBK	29/03/2017	0,6672	0,0423	0,0000	0,0294	-0,0031	1	1	1
190	PYFA	IBK	23/03/2018	0,3846	0,0317	-0,0087	-0,0481	0,0001	1	1	1
191	PYFA	IBK	27/03/2019	0,1854	0,0925	-0,0166	0,0000	-0,0018	1	1	1
192	PYFA	IBK	14/04/2020	0,1058	0,0488	0,0661	-0,0588	-0,0052	0	1	1
193	RICY	AI	31/03/2017	0,0389	0,0310	0,0000	0,0065	0,0065	1	1	0
194	RICY	AI	29/03/2018	0,0951	0,0431	0,0045	0,1342	-0,0020	1	1	0
195	RICY	AI	29/03/2019	-0,0860	0,0340	0,0000	0,0050	-0,0168	1	1	0
196	RICY	AI	11/05/2020	0,5782	0,0278	0,0363	-0,0092	-0,0249	0	1	0
197	ROTI	IBK	10/03/2017	0,0348	0,2139	-0,0108	-0,0236	0,0203	1	1	1
198	ROTI	IBK	29/03/2018	-0,4999	0,5993	0,0000	0,0042	-0,0014	1	1	1
199	ROTI	IBK	13/03/2019	0,0148	0,0343	0,0069	-0,0122	-0,0055	1	1	1

200	ROTI	IBK	03/03/2020	0,7560	0,0602	-0,0052	0,0079	0,0052	1	1	1
201	SIDO	IBK	30/03/2017	0,1092	0,0614	0,0001	0,0089	0,0029	1	1	1
202	SIDO	IBK	29/03/2018	0,1046	0,0500	0,0025	-0,0145	0,0000	1	1	1
203	SIDO	IBK	18/02/2019	0,2423	0,0023	-0,0121	0,0375	0,0607	1	1	1
204	SIDO	IBK	18/02/2020	0,2175	0,0558	-0,0027	0,0244	0,0041	1	1	1
205	SKBM	IBK	11/04/2017	-0,3159	0,0706	-0,0128	0,0000	0,0313	0	1	0
206	SKBM	IBK	29/03/2018	-0,4939	0,5071	0,0013	-0,1760	0,0388	1	1	0
207	SKBM	IBK	29/03/2019	-0,4799	0,0169	-0,0176	0,0461	0,0191	1	1	1
208	SKBM	IBK	19/05/2020	-0,6966	-0,0046	0,0373	0,1677	-0,0171	0	1	1
209	SKLT	IBK	29/03/2017	0,0156	0,9478	0,0000	0,2333	0,0000	1	1	0
210	SKLT	IBK	27/03/2018	0,1196	0,0386	0,0000	0,0000	0,0000	1	1	0
211	SKLT	IBK	28/03/2019	0,3896	0,1030	0,0000	0,0000	0,0000	1	1	1
212	SKLT	IBK	01/04/2020	0,4012	0,1213	0,0000	0,0000	0,0000	0	1	1
213	SMBR	IDK	20/03/2017	-0,2778	0,0581	-0,0148	0,0000	0,0013	1	1	1
214	SMBR	IDK	06/02/2018	-0,4231	0,0840	-0,0459	-0,0125	-0,0074	1	1	1
215	SMBR	IDK	28/02/2019	-0,4667	0,0170	-0,0073	-0,0065	-0,0065	1	1	1
216	SMBR	IDK	29/05/2020	-0,6250	0,0025	-0,0441	0,0764	0,0065	0	1	1
217	SMGR	IDK	20/02/2017	0,0000	0,1142	-0,0025	-0,0081	0,0018	1	1	1
218	SMGR	IDK	23/03/2018	-0,5538	-0,0044	-0,0193	-0,0329	0,0011	1	1	1
219	SMGR	IDK	30/04/2019	0,9011	0,0895	0,0020	-0,0018	-0,0316	0	1	1
220	SMGR	IDK	27/05/2020	-0,2235	0,0391	-0,0009	0,0787	0,0170	0	1	1
221	SMSM	AI	30/03/2017	0,0676	0,0971	0,0096	0,0047	0,0184	1	1	0
222	SMSM	AI	29/03/2018	0,1013	0,1570	0,0223	0,0113	0,0013	1	1	0
223	SMSM	AI	29/03/2019	0,1149	0,1762	0,0053	0,0062	-0,0031	1	1	0
224	SMSM	AI	23/04/2020	0,0309	0,1358	0,0261	-0,0681	-0,0150	0	1	0
225	SPMA	IDK	30/03/2017	-2,8276	0,0117	-0,0082	0,2105	-0,0144	1	1	0
226	SPMA	IDK	28/03/2018	-0,1698	0,0862	-0,0021	-0,0261	-0,0067	1	1	0
227	SPMA	IDK	28/03/2019	-0,1136	0,0703	-0,0145	0,0687	-0,0144	1	1	0
228	SPMA	IDK	02/04/2020	0,4872	0,0980	0,0448	-0,0227	0,0086	0	1	0
229	SRIL	AI	14/03/2017	0,0488	0,1703	-0,0488	-0,0291	-0,0570	1	1	1
230	SRIL	AI	20/03/2018	0,0233	0,2049	-0,0096	0,0000	-0,0058	1	1	1
231	SRIL	AI	28/03/2019	0,3409	0,2553	0,0000	-0,0059	0,0000	1	1	1
232	SRIL	AI	01/04/2020	0,0003	0,1079	0,0062	-0,0207	0,0495	0	1	1
233	SRSN	IDK	29/03/2017	-0,5000	0,1822	0,0000	0,0000	0,0000	1	1	1
234	SRSN	IDK	02/04/2018	0,5978	0,0335	0,0000	0,0000	0,0000	0	1	1
235	SRSN	IDK	01/04/2019	1,0408	0,1499	0,0097	-0,0563	-0,0100	0	1	1
236	SRSN	IDK	02/04/2020	0,1850	0,0770	0,0057	0,0167	0,0161	0	1	1
237	STTP	IBK	12/06/2017	-0,0607	0,1583	0,0000	0,0000	0,0000	0	1	1
238	STTP	IBK	12/06/2018	0,2401	0,1851	-0,0085	0,0000	0,0000	0	1	1
239	STTP	IBK	01/04/2019	0,1795	0,1889	0,0000	0,0000	0,0000	0	1	1
240	STTP	IBK	02/06/2020	0,8911	0,3047	-0,0404	-0,0693	-0,0377	0	1	1

241	TALF	IDK	31/03/2017	-0,1200	1,1470	0,0000	0,1086	0,0522	1	1	1
242	TALF	IDK	29/03/2018	-0,2727	0,0190	0,0000	0,0000	0,0176	1	1	1
243	TALF	IDK	22/03/2019	1,0000	0,0551	0,0505	0,0000	-0,0303	1	1	1
244	TALF	IDK	04/05/2020	-0,4690	0,1443	-0,0049	0,0000	-0,0227	0	1	1
245	TBMS	IDK	31/03/2017	-0,8355	-0,9348	0,0167	0,0529	-0,0131	1	1	1
246	TBMS	IDK	02/04/2018	0,0417	0,2527	-0,0233	0,0229	-0,0057	0	1	1
247	TBMS	IDK	29/03/2019	-0,0982	0,2630	-0,0018	0,0169	-0,0183	1	1	1
248	TBMS	IDK	31/03/2020	-0,1008	0,0770	-0,0386	0,0000	0,0099	1	1	1
249	TCID	IBK	21/03/2017	-0,7024	0,0398	0,0000	0,0000	0,0057	1	1	0
250	TCID	IBK	21/03/2018	0,1055	0,0422	0,0058	0,0056	0,0019	1	1	0
251	TCID	IBK	20/03/2019	-0,0337	0,0614	-0,0005	0,0000	-0,0075	1	1	1
252	TCID	IBK	20/03/2020	-0,1614	0,0237	0,0000	0,0000	-0,0237	1	1	1
253	TKIM	IDK	30/03/2017	4,4286	-0,0414	0,0188	0,0049	-0,0014	1	1	1
254	TKIM	IDK	28/03/2018	2,0789	-0,0941	0,0325	0,0108	0,0013	1	1	1
255	TKIM	IDK	29/03/2019	7,2409	0,3308	0,0104	-0,0605	-0,0054	1	1	1
256	TKIM	IDK	06/04/2020	-0,3463	0,0823	0,0644	0,0931	-0,0185	0	1	1
257	TOTO	IDK	31/03/2017	-0,9433	-0,0068	-0,0043	0,0087	-0,0057	1	1	1
258	TOTO	IDK	02/04/2018	0,6875	0,1115	-0,0087	0,0107	-0,0018	0	1	1
259	TOTO	IDK	02/04/2019	0,2222	0,1391	0,0017	0,0050	0,0000	0	1	1
260	TOTO	IDK	11/05/2020	-0,6061	-0,0027	0,0070	0,0943	-0,0234	0	1	1
261	TPIA	IDK	13/03/2017	-0,9145	0,2591	0,0032	0,0041	0,0011	1	1	1
262	TPIA	IDK	06/03/2018	1,2150	-0,7333	-0,0191	0,0000	0,0091	1	1	1
263	TPIA	IDK	28/03/2019	-0,3840	0,1404	0,0136	-0,0470	0,0001	1	1	1
264	TPIA	IDK	18/03/2020	-0,8767	-0,0399	-0,0442	0,0331	-0,0148	1	1	1
265	TRIS	AI	30/03/2017	-0,7705	0,0260	-0,0021	-0,0063	0,0021	1	1	1
266	TRIS	AI	29/03/2018	-0,7346	0,0257	-0,0023	0,0000	0,0000	1	1	1
267	TRIS	AI	29/03/2019	2,9859	0,0000	-0,0141	-0,0177	0,0000	1	1	1
268	TRIS	AI	04/05/2020	-0,8746	-0,6513	-0,0249	0,0000	-0,0219	0	1	1
269	TRST	IDK	31/03/2017	0,3333	-0,0126	0,0137	0,0000	0,0043	1	1	1
270	TRST	IDK	30/03/2018	0,1667	0,0224	-0,0017	0,0000	0,0000	1	1	1
271	TRST	IDK	29/03/2019	0,6429	0,1325	0,0000	0,0000	0,0000	1	1	1
272	TRST	IDK	29/05/2020	-0,3913	-0,0281	0,0000	0,0000	0,0424	0	1	1
273	TSPC	IBK	31/03/2017	0,0259	0,0687	0,0088	0,0051	0,0068	1	1	1
274	TSPC	IBK	29/03/2018	0,0168	0,0964	0,0000	0,0156	0,0000	1	1	1
275	TSPC	IBK	29/03/2019	-0,0579	0,0690	0,0076	0,0140	-0,0018	1	1	1
276	TSPC	IBK	01/04/2020	0,0789	0,0659	0,0018	0,0311	0,0443	0	1	1
277	ULTJ	IBK	31/03/2017	0,3500	0,2473	0,0032	0,0094	-0,0063	1	1	1
278	ULTJ	IBK	02/04/2018	0,0000	-0,6984	0,0232	-0,0440	-0,0224	0	1	1
279	ULTJ	IBK	29/03/2019	-0,0164	0,1375	0,0067	-0,0079	-0,0040	1	1	1
280	ULTJ	IBK	02/06/2020	0,4833	0,1843	0,0102	0,0296	0,0065	0	1	1
281	UNIC	IDK	31/03/2017	-24,8065	0,1196	-0,0037	0,0700	0,0000	1	1	1



282	UNIC	IDK	29/03/2018	-0,4390	-0,0246	0,0034	-0,0501	0,0176	1	1	1
283	UNIC	IDK	29/03/2019	0,5580	0,1290	0,0083	0,0000	-0,0033	1	1	1
284	UNIC	IDK	04/05/2020	-0,3643	0,0223	-0,0226	0,0000	-0,0169	0	1	1
285	UNIT	AI	29/03/2017	0,8333	0,0044	0,0000	0,0000	0,0000	1	1	0
286	UNIT	AI	29/03/2018	-0,2727	0,0051	-0,0097	0,0714	-0,0037	1	1	0
287	UNIT	AI	29/03/2019	-0,3750	0,0028	-0,0174	0,0000	0,0063	1	1	0
288	UNIT	AI	15/05/2020	0,5400	0,0032	0,0220	0,0138	0,0181	0	1	1
289	UNVR	IBK	20/03/2017	0,0940	-0,0255	0,0141	-0,0017	-0,0109	1	1	1
290	UNVR	IBK	26/02/2018	0,0955	0,0997	0,0000	-0,0087	0,0000	1	1	1
291	UNVR	IBK	01/02/2019	0,3007	0,4648	0,0154	0,0000	-0,0007	1	1	1
292	UNVR	IBK	30/01/2020	-0,1857	-0,2847	0,0031	-0,0030	-0,0143	1	1	1
293	VOKS	AI	30/03/2017	47,1425	0,3127	0,0000	0,0357	0,0000	1	1	1
294	VOKS	AI	29/03/2018	-0,7923	-0,7566	0,0030	-0,0089	-0,0121	1	1	1
295	VOKS	AI	02/04/2019	-0,3750	0,1333	-0,0168	0,0263	-0,0084	0	1	1
296	VOKS	AI	13/04/2020	0,9744	0,2027	-0,0024	0,0152	0,0050	0	1	1
297	WIIM	IBK	31/03/2017	-0,1890	0,0502	0,0028	-0,0583	-0,0088	1	1	1
298	WIIM	IBK	29/03/2018	-0,6181	-0,0131	0,0025	-0,0226	0,0051	1	1	1
299	WIIM	IBK	29/03/2019	0,2600	0,0278	-0,0072	-0,0368	0,0076	1	1	1
300	WIIM	IBK	12/05/2020	-0,4661	0,0278	0,0120	-0,0079	-0,0244	0	1	1
301	WTON	IDK	16/02/2017	0,6316	0,1003	0,0041	-0,0061	0,0021	1	1	1
302	WTON	IDK	28/02/2018	0,2258	0,1030	-0,0087	-0,0088	-0,0030	1	1	1
303	WTON	IDK	26/02/2019	0,4474	0,1415	-0,0012	-0,0043	0,0438	1	1	1
304	WTON	IDK	02/03/2020	0,0545	0,1185	-0,0446	-0,0247	0,0412	1	1	1

## 2. Hasil Uji Chow periode 2016-2019

### Hasil Uji Chow Periode 2016-2019

Redundant Fixed Effects Tests

Equation: Untitled

Test cross-section fixed effects

Dependent Variable: Y

Method: Panel Least Squares

Date: 08/05/20 Time: 21:00

Sample: 2016 2019

Periods included: 4

Cross-sections included: 76

Total panel (balanced) observations: 304

Effects Test	Statistic	d.f.	Prob.
Cross-section F	0.746863	(75,226)	0.9300
Cross-section Chi-square	67.312989	75	0.7243

3. Analisis Deskriptif NBE, NL, dan RS ( $t_{(-3)}$ ,  $t_{(0)}$ , dan  $t_{(3)}$ )**Descriptive Statistics 2016**

	N	Minimum	Maximum	Mean	Std. Deviation
Nilai Laba	76	-24,81	52,70	2,5779	11,96340
Nilai Buku Ekuitas	76	-,96	1,15	,0936	,33141
Return Saham -3	76	-,05	,06	,0045	,01595
Return Saham 0	76	-,16	,23	,0067	,05157
Return Saham 3	76	-,06	,10	,0029	,01991
Valid N (listwise)	76				

**Descriptive Statistics 2017**

	N	Minimum	Maximum	Mean	Std. Deviation
Nilai Laba	76	-,93	4,29	,0448	,72075
Nilai Buku Ekuitas	76	-,76	4,21	,1143	,54472
Return Saham -3	76	-,05	,03	-,0013	,01145
Return Saham 0	76	-,18	,25	,0021	,04702
Return Saham 3	76	-,04	,48	,0069	,05720
Valid N (listwise)	76				

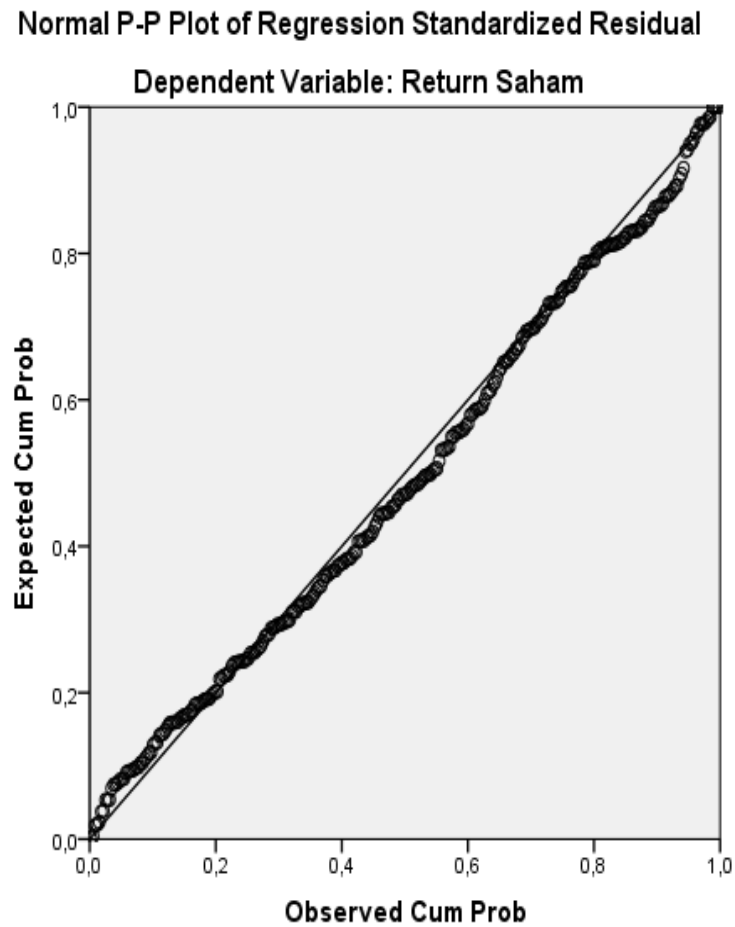
**Descriptive Statistics 2018**

	N	Minimum	Maximum	Mean	Std. Deviation
Nilai Laba	76	-,54	25,18	,9508	3,20831
Nilai Buku Ekuitas	76	-,16	,48	,1084	,09897
Return Saham -3	76	-,03	,05	,0014	,01418
Return Saham 0	76	-,14	,19	-,0063	,04009
Return Saham 3	76	-,06	,06	-,0029	,01666
Valid N (listwise)	76				

**Descriptive Statistics 2019**

	N	Minimum	Maximum	Mean	Std. Deviation
Nilai Laba	76	-,98	3,33	,0165	,67571
Nilai Buku Ekuitas	76	-,80	,30	,0330	,18069
Return Saham -3	76	-,07	,11	,0009	,03181
Return Saham 0	76	-,07	,17	,0085	,04511
Return Saham 3	76	-,06	,14	,0048	,02890
Valid N (listwise)	76				

## 4. Hasil Uji Normalitas



## 5. Hasil Uji Autokorelasi

**Model Summary<sup>b</sup>**

Model	Change Statistics		Durbin-Watson
	df2	Sig. F Change	
1	301	,942	2,087

a. Predictors: (Constant), Nilai Buku Ekuitas , Nilai Laba

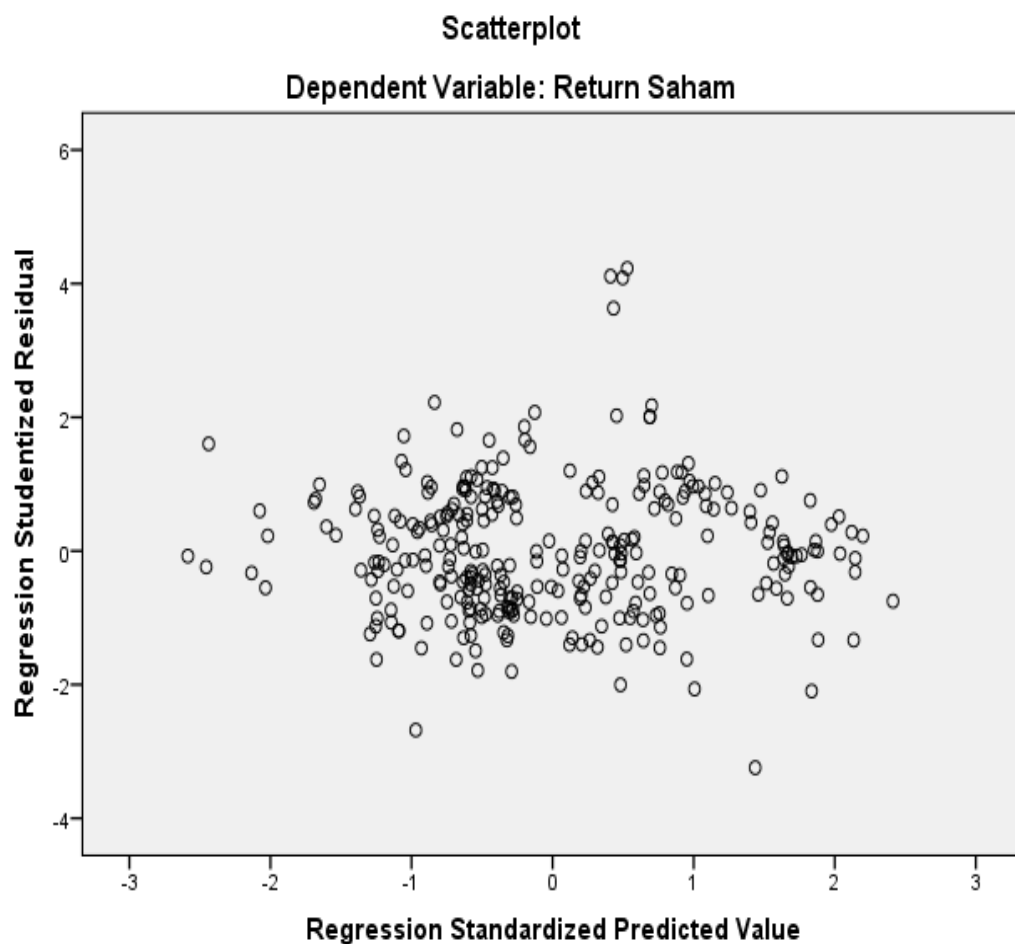
b. Dependent Variable: Return Saham

## 6. Hasil Uji Multikolinieritas

Coefficients <sup>a</sup>					
Model	Unstandardized Coefficients		Standardized Coefficients	Collinearity Statistics	
	B	Std. Error	Beta	Tolerance	VIF
(Constant)	,590	,628			
1 Nilai Laba	,416	,043	,436	,649	1,541
Nilai Buku Ekuitas	,545	,058	,416	,670	1,492
Ketepatan Waktu Publikasi LK	,315	,122	,095	,965	1,037
Pengungkapan CSR	,609	,547	,041	,977	1,024
Investasi Teknologi Modern	,175	,113	,057	,952	1,050

a. Dependent Variable: Return Saham

## 7. Hasil Uji Heterokedestisitas



## 8. Hasil Uji Regresi Relevansi LK (tiga hari sebelum publikasi LK)

**Hasil Uji Regresi NBE dan NL terhadap RS  $t_{(-3)}$  Tahun 2016**Dependent Variable: RS  $t_{(-3)}$ 

Method: Least Squares

Date: 08/05/20 Time: 19:25

Sample: 1 76

Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.003614	0.001913	1.888873	0.0629
NBE	0.001362	0.005510	0.247240	0.8054
NL	0.000287	0.000153	1.880865	0.0640
R-squared	0.048136	Mean dependent var		0.004482
Adjusted R-squared	0.022057	S.D. dependent var		0.015945
S.E. of regression	0.015768	Akaike info criterion		-5.422957
Sum squared resid	0.018151	Schwarz criterion		-5.330954
Log likelihood	209.0723	Hannan-Quinn criter.		-5.386188
F-statistic	1.845795	Durbin-Watson stat		1.876176
Prob(F-statistic)	0.165193			

**Hasil Uji Regresi NBE dan NL terhadap RS  $t_{(-3)}$  Tahun 2017**Dependent Variable: RS  $t_{(-3)}$ 

Method: Least Squares

Date: 08/05/20 Time: 19:28

Sample: 1 76

Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.001433	0.001362	-1.051866	0.2963
NBE	0.001424	0.002461	0.578779	0.5645
NL	0.000179	0.001860	0.095997	0.9238
R-squared	0.004621	Mean dependent var		-0.001262
Adjusted R-squared	-0.022649	S.D. dependent var		0.011461
S.E. of regression	0.011590	Akaike info criterion		-6.038649
Sum squared resid	0.009806	Schwarz criterion		-5.946647
Log likelihood	232.4687	Hannan-Quinn criter.		-6.001881
F-statistic	0.169466	Durbin-Watson stat		1.951850
Prob(F-statistic)	0.844446			

### Hasil Uji Regresi NBE dan NL terhadap RS $t_{(-3)}$ Tahun 2018

Dependent Variable: RS  $t_{(-3)}$

Method: Least Squares

Date: 08/05/20 Time: 19:35

Sample: 1 76

Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.001054	0.002434	-0.433187	0.6662
NBE	0.019862	0.018170	1.093117	0.2779
NL	0.000281	0.000560	0.501039	0.6179
R-squared	0.030560	Mean dependent var		0.001365
Adjusted R-squared	0.004000	S.D. dependent var		0.014187
S.E. of regression	0.014159	Akaike info criterion		-5.638310
Sum squared resid	0.014634	Schwarz criterion		-5.546308
Log likelihood	217.2558	Hannan-Quinn criter.		-5.601541
F-statistic	1.150604	Durbin-Watson stat		2.031380
Prob(F-statistic)	0.322117			

### Hasil Uji Regresi NBE dan NL terhadap RS $t_{(-3)}$ Tahun 2019

Dependent Variable: RS  $t_{(-3)}$

Method: Least Squares

Date: 08/05/20 Time: 19:44

Sample: 1 76

Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.001980	0.003690	0.536633	0.5932
NBE	-0.034053	0.022100	-1.540854	0.1277
NL	-0.000689	0.005910	-0.116624	0.9075
R-squared	0.039933	Mean dependent var		0.000845
Adjusted R-squared	0.013630	S.D. dependent var		0.031809
S.E. of regression	0.031592	Akaike info criterion		-4.033179
Sum squared resid	0.072856	Schwarz criterion		-3.941177
Log likelihood	156.2608	Hannan-Quinn criter.		-3.996410
F-statistic	1.518191	Durbin-Watson stat		1.680813
Prob(F-statistic)	0.225944			

### Hasil Uji Regresi Data Panel NBE dan NL terhadap RS $t_{(-3)}$ Tahun 2016-2019

Dependent Variable: RS  $t_{(-3)}$   
 Method: Panel Least Squares  
 Date: 08/05/20 Time: 20:01  
 Sample: 2016 2019  
 Periods included: 4  
 Cross-sections included: 76  
 Total panel (balanced) observations: 304

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.001141	0.001192	0.957618	0.3390
NBE	-0.000996	0.003428	-0.290401	0.7717
NL	0.000338	0.000183	1.843671	0.0662
R-squared	0.011274	Mean dependent var		0.001357
Adjusted R-squared	0.004705	S.D. dependent var		0.019999
S.E. of regression	0.019952	Akaike info criterion		-4.981185
Sum squared resid	0.119819	Schwarz criterion		-4.944504
Log likelihood	760.1401	Hannan-Quinn criter.		-4.966512
F-statistic	1.716143	Durbin-Watson stat		1.638318
Prob(F-statistic)	0.181512			

### 9. Hasil Uji Regresi Relevansi LK (pada saat publikasi LK)

#### Hasil Uji Regresi NBE dan NL terhadap RS $t_{(0)}$ Tahun 2016

Dependent Variable: RS  $t_{(0)}$   
 Method: Least Squares  
 Date: 08/05/20 Time: 19:55  
 Sample: 1 76  
 Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.002852	0.006039	0.472233	0.6382
NBE	0.047541	0.017390	2.733788	0.0079
NL	-0.000233	0.000482	-0.484223	0.6297
R-squared	0.093727	Mean dependent var		0.006699
Adjusted R-squared	0.068897	S.D. dependent var		0.051574
S.E. of regression	0.049766	Akaike info criterion		-3.124308
Sum squared resid	0.180794	Schwarz criterion		-3.032305
Log likelihood	121.7237	Hannan-Quinn criter.		-3.087539
F-statistic	3.774829	Durbin-Watson stat		2.089980
Prob(F-statistic)	0.027540			

### Hasil Uji Regresi NBE dan NL terhadap RS $t_{(0)}$ Tahun 2017

Dependent Variable: RS  $t_{(0)}$

Method: Least Squares

Date: 08/05/20 Time: 19:31

Sample: 1 76

Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.001381	0.005537	0.249364	0.8038
NBE	0.002320	0.010001	0.231940	0.8172
NL	0.009920	0.007559	1.312383	0.1935
R-squared	0.023371	Mean dependent var		0.002091
Adjusted R-squared	-0.003386	S.D. dependent var		0.047023
S.E. of regression	0.047102	Akaike info criterion		-3.234317
Sum squared resid	0.161960	Schwarz criterion		-3.142315
Log likelihood	125.9041	Hannan-Quinn criter.		-3.197549
F-statistic	0.873459	Durbin-Watson stat		2.089313
Prob(F-statistic)	0.421822			

### Hasil Uji Regresi NBE dan NL terhadap RS $t_{(0)}$ Tahun 2018

Dependent Variable: RS  $t_{(0)}$

Method: Least Squares

Date: 08/05/20 Time: 19:38

Sample: 1 76

Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.000912	0.006131	0.148783	0.8821
NBE	-0.015455	0.045766	-0.337693	0.7366
NL	-0.005775	0.001412	-4.090711	0.0001
R-squared	0.229754	Mean dependent var		-0.006254
Adjusted R-squared	0.208651	S.D. dependent var		0.040089
S.E. of regression	0.035663	Akaike info criterion		-3.790754
Sum squared resid	0.092843	Schwarz criterion		-3.698751
Log likelihood	147.0486	Hannan-Quinn criter.		-3.753985
F-statistic	10.88743	Durbin-Watson stat		2.129895
Prob(F-statistic)	0.000073			



### Hasil Uji Regresi NBE dan NL terhadap RS $t_{(0)}$ Tahun 2019

Dependent Variable: RS  $t_{(0)}$

Method: Least Squares

Date: 08/05/20 Time: 19:49

Sample: 1 76

Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.008315	0.005339	1.557271	0.1237
NBE	0.006035	0.031978	0.188733	0.8508
NL	-0.001560	0.008551	-0.182382	0.8558
R-squared	0.000671	Mean dependent var		0.008488
Adjusted R-squared	-0.026708	S.D. dependent var		0.045113
S.E. of regression	0.045712	Akaike info criterion		-3.294243
Sum squared resid	0.152539	Schwarz criterion		-3.202241
Log likelihood	128.1812	Hannan-Quinn criter.		-3.257475
F-statistic	0.024493	Durbin-Watson stat		1.599657
Prob(F-statistic)	0.975813			

### Hasil Uji Regresi Data Panel NBE dan NL terhadap RS $t_{(0)}$ Tahun 2016-2019

Dependent Variable: RS  $t_{(0)}$

Method: Panel Least Squares

Date: 08/05/20 Time: 20:04

Sample: 2016 2019

Periods included: 4

Cross-sections included: 76

Total panel (balanced) observations: 304

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.002323	0.002759	0.841902	0.4005
NBE	0.010079	0.007937	1.269822	0.2051
NL	-0.000498	0.000424	-1.174957	0.2409
R-squared	0.009305	Mean dependent var		0.002756
Adjusted R-squared	0.002722	S.D. dependent var		0.046259
S.E. of regression	0.046196	Akaike info criterion		-3.302031
Sum squared resid	0.642353	Schwarz criterion		-3.265350
Log likelihood	504.9087	Hannan-Quinn criter.		-3.287357
F-statistic	1.413499	Durbin-Watson stat		1.797985
Prob(F-statistic)	0.244901			

## 10. Hasil Uji Regresi Relevansi LK (tiga hari setelah publikasi LK)

**Hasil Uji Regresi NBE dan NL terhadap RS  $t_{(3)}$  Tahun 2016**Dependent Variable: RS  $t_{(3)}$ 

Method: Least Squares

Date: 08/05/20 Time: 19:58

Sample: 1 76

Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.002109	0.002428	0.868514	0.3880
NBE	0.007980	0.006993	1.141130	0.2575
NL	4.61E-07	0.000194	0.002378	0.9981
R-squared	0.017632	Mean dependent var		0.002857
Adjusted R-squared	-0.009282	S.D. dependent var		0.019919
S.E. of regression	0.020011	Akaike info criterion		-4.946417
Sum squared resid	0.029232	Schwarz criterion		-4.854415
Log likelihood	190.9639	Hannan-Quinn criter.		-4.909649
F-statistic	0.655137	Durbin-Watson stat		2.245312
Prob(F-statistic)	0.522397			

**Hasil Uji Regresi NBE dan NL terhadap RS  $t_{(3)}$  Tahun 2017**Dependent Variable: RS  $t_{(3)}$ 

Method: Least Squares

Date: 08/05/20 Time: 19:32

Sample: 1 76

Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.007418	0.006796	1.091473	0.2787
NBE	-0.002615	0.012275	-0.213021	0.8319
NL	-0.005788	0.009277	-0.623942	0.5346
R-squared	0.005731	Mean dependent var		0.006859
Adjusted R-squared	-0.021509	S.D. dependent var		0.057199
S.E. of regression	0.057811	Akaike info criterion		-2.824597
Sum squared resid	0.243975	Schwarz criterion		-2.732594
Log likelihood	110.3347	Hannan-Quinn criter.		-2.787828
F-statistic	0.210395	Durbin-Watson stat		2.061434
Prob(F-statistic)	0.810754			

### Hasil Uji Regresi NBE dan NL terhadap RS $t_{(3)}$ Tahun 2018

Dependent Variable: RS  $t_{(3)}$

Method: Least Squares

Date: 08/05/20 Time: 19:40

Sample: 1 76

Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.000758	0.002882	-0.262848	0.7934
NBE	-0.020445	0.021518	-0.950133	0.3452
NL	0.000118	0.000664	0.177941	0.8593
R-squared	0.012981	Mean dependent var		-0.002861
Adjusted R-squared	-0.014060	S.D. dependent var		0.016651
S.E. of regression	0.016768	Akaike info criterion		-5.300059
Sum squared resid	0.020524	Schwarz criterion		-5.208056
Log likelihood	204.4022	Hannan-Quinn criter.		-5.263290
F-statistic	0.480055	Durbin-Watson stat		1.704633
Prob(F-statistic)	0.620689			

### Hasil Uji Regresi NBE dan NL terhadap RS $t_{(3)}$ Tahun 2019

Dependent Variable: RS  $t_{(3)}$

Method: Least Squares

Date: 08/05/20 Time: 19:50

Sample: 1 76

Included observations: 76

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.004434	0.003082	1.438482	0.1546
NBE	0.003177	0.018461	0.172106	0.8638
NL	0.018226	0.004937	3.692099	0.0004
R-squared	0.188789	Mean dependent var		0.004839
Adjusted R-squared	0.166564	S.D. dependent var		0.028908
S.E. of regression	0.026390	Akaike info criterion		-4.392954
Sum squared resid	0.050841	Schwarz criterion		-4.300952
Log likelihood	169.9323	Hannan-Quinn criter.		-4.356186
F-statistic	8.494466	Durbin-Watson stat		1.509532
Prob(F-statistic)	0.000482			

### Hasil Uji Regresi Data Panel NBE dan NL terhadap RS $t_{(3)}$ Tahun 2016-2019

Dependent Variable: RS  $t_{(3)}$   
 Method: Panel Least Squares  
 Date: 08/05/20 Time: 20:07  
 Sample: 2016 2019  
 Periods included: 4  
 Cross-sections included: 76  
 Total panel (balanced) observations: 304

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.002744	0.002073	1.323717	0.1866
NBE	0.002061	0.005962	0.345697	0.7298
NL	-2.23E-07	0.000319	-0.000699	0.9994
R-squared	0.000398	Mean dependent var		0.002923
Adjusted R-squared	-0.006244	S.D. dependent var		0.034594
S.E. of regression	0.034701	Akaike info criterion		-3.874255
Sum squared resid	0.362460	Schwarz criterion		-3.837573
Log likelihood	591.8867	Hannan-Quinn criter.		-3.859581
F-statistic	0.059947	Durbin-Watson stat		2.434066
Prob(F-statistic)	0.941825			

### 11. Hasil Uji Regresi Tren Relevansi Nilai dari Tahun 2016 ke 2019 (H1)

#### Hasil Uji Regresi Tren Relevansi Nilai dari Tahun 2016 ke 2019

Dependent Variable: R2  
 Method: Least Squares  
 Date: 08/05/20 Time: 20:38  
 Sample: 2016 2019  
 Included observations: 4

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.073897	0.086276	-0.856516	0.4820
Tren_Waktu	0.052072	0.031504	1.652892	0.0240
R-squared	0.577350	Mean dependent var		0.056283
Adjusted R-squared	0.366025	S.D. dependent var		0.088473
S.E. of regression	0.070444	Akaike info criterion		-2.161137
Sum squared resid	0.009925	Schwarz criterion		-2.467990
Log likelihood	6.322274	Hannan-Quinn criter.		-2.834503
F-statistic	2.732051	Durbin-Watson stat		2.157441
Prob(F-statistic)	0.024016			

## 12. Hasil Uji Regresi Pengaruh LK terhadap Return Saham (H2)

**Hasil Uji Regresi Data Panel LK terhadap RS Tahun 2016-2019**

Dependent Variable: RS  
 Method: Panel Least Squares  
 Date: 08/05/20 Time: 20:19  
 Sample: 2016 2019  
 Periods included: 4  
 Cross-sections included: 76  
 Total panel (balanced) observations: 304

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.516458	0.332637	4.558899	0.0000
NBE	0.529075	0.058202	9.090268	0.0000
NL	0.446102	0.042378	10.52672	0.0000
R-squared	0.595315	Mean dependent var		6.970623
Adjusted R-squared	0.592626	S.D. dependent var		1.479946
S.E. of regression	0.944588	Akaike info criterion		2.733683
Sum squared resid	268.5660	Schwarz criterion		2.770364
Log likelihood	-412.5198	Hannan-Quinn criter.		2.748356
F-statistic	221.3943	Durbin-Watson stat		0.273589
Prob(F-statistic)	0.000000			

## 13. Hasil Uji Regresi Pengaruh KPLK terhadap Return Saham (H3)

**Hasil Uji Regresi Data Panel KPLK terhadap RS Tahun 2016-2019**

Dependent Variable: RS  
 Method: Panel Least Squares  
 Date: 08/05/20 Time: 20:23  
 Sample: 2016 2019  
 Periods included: 4  
 Cross-sections included: 76  
 Total panel (balanced) observations: 304

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	5.560659	0.839767	6.621671	0.0000
Dummy_KWPLK	0.659945	0.187461	3.520433	0.0005
Dummy_PCSR	0.939472	0.844895	1.111940	0.2671
R-squared	0.045755	Mean dependent var		6.970623
Adjusted R-squared	0.039415	S.D. dependent var		1.479946
S.E. of regression	1.450486	Akaike info criterion		3.591494
Sum squared resid	633.2771	Schwarz criterion		3.628176
Log likelihood	-542.9071	Hannan-Quinn criter.		3.606168
F-statistic	7.216378	Durbin-Watson stat		0.127814
Prob(F-statistic)	0.000869			

14. Hasil Uji Regresi ITM Memoderasi Pengaruh LK dan KPLK terhadap Return Saham (H4 dan H5)

**Hasil Uji Regresi Data Panel ITM terhadap RS Tahun 2016-2019**

Dependent Variable: RS  
 Method: Panel Least Squares  
 Date: 08/05/20 Time: 20:26  
 Sample: 2016 2019  
 Periods included: 4  
 Cross-sections included: 76  
 Total panel (balanced) observations: 304

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	6.590512	0.183657	35.88495	0.0000
Dummy_ITM	0.481473	0.206699	2.329345	0.0205
R-squared	0.017649	Mean dependent var		6.970623
Adjusted R-squared	0.014396	S.D. dependent var		1.479946
S.E. of regression	1.469254	Akaike info criterion		3.613944
Sum squared resid	651.9295	Schwarz criterion		3.638398
Log likelihood	-547.3194	Hannan-Quinn criter.		3.623726
F-statistic	5.425848	Durbin-Watson stat		0.089948
Prob(F-statistic)	0.020500			

**Hasil Uji Regresi Data Panel NBE\*NL\*ITM terhadap RS Tahun 2016-2019**

Dependent Variable: RS  
 Method: Panel Least Squares  
 Date: 08/05/20 Time: 20:29  
 Sample: 2016 2019  
 Periods included: 4  
 Cross-sections included: 76  
 Total panel (balanced) observations: 304

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	5.856229	0.113632	51.53681	0.0000
NBE_NL_ITM	0.047631	0.003850	12.37089	0.0000
R-squared	0.336320	Mean dependent var		6.970623
Adjusted R-squared	0.334123	S.D. dependent var		1.479946
S.E. of regression	1.207655	Akaike info criterion		3.221795
Sum squared resid	440.4459	Schwarz criterion		3.246249
Log likelihood	-487.7128	Hannan-Quinn criter.		3.231577
F-statistic	153.0389	Durbin-Watson stat		0.189251
Prob(F-statistic)	0.000000			

### Hasil Uji Regresi Data Panel KWPLK\*PCSR\*ITM terhadap RS Tahun 2016-2019

Dependent Variable: RS

Method: Panel Least Squares

Date: 08/05/20 Time: 20:31

Sample: 2016 2019

Periods included: 4

Cross-sections included: 76

Total panel (balanced) observations: 304

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	6.563576	0.128466	51.09208	0.0000
KWPLK_PCSR_ITM	0.695181	0.167886	4.140797	0.0000
R-squared	0.053725	Mean dependent var		6.970623
Adjusted R-squared	0.050592	S.D. dependent var		1.479946
S.E. of regression	1.442023	Akaike info criterion		3.576528
Sum squared resid	627.9880	Schwarz criterion		3.600982
Log likelihood	-541.6323	Hannan-Quinn criter.		3.586311
F-statistic	17.14620	Durbin-Watson stat		0.117439
Prob(F-statistic)	0.000045			



# The Effect of Investing in Modern Technology on Relationship Between Relevance of Financial Statement and Disclosure Quality on Firm Value

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## Keywords

Value Relevance, Financial Statements, Quality of Disclosure, Investment in Modern Technology, Firm Value.

## Abstract

The purpose of this study is to examine the trend of value relevance of financial statements and to examine the effect of financial statement information and the quality of financial statement disclosure on firm value with modern technology investment as a moderator. The sample in this study were 76 manufacturing companies listed on the Indonesia Stock Exchange (IDX) for the period 2016-2019. The sample was tested using Multiple Regression analysis and moderated regression analysis. The results of this study indicate: first, there is an increasing trend in value relevance from 2016 to 2019, second, financial statement information and the quality of financial statement disclosure have a significant effect on firm value, third, modern technology investment strengthens the effect of financial statement information and the quality of financial statement disclosure. to company value. The results of the research empirically prove that the decline in the trend of value relevance of financial statements does not occur, especially manufacturing companies listed on the IDX for the 2016-2019 period.

## 1. Introduction

One of the company's goals is to increase company value by maximizing shareholder wealth, which is reflected in stock prices/returns. Firm value is the investor's perception of the company's success rate based on the signals given by the company. In theory, when the value of the company increases, the wealth for shareholders will also increase, and vice versa. Therefore, before making investment decisions, investors need to analyze the signals or information provided by the company. One of the information that needs to be analyzed in assessing the company is financial statement information (FSI). In the capital market, FSI must be a basis for investors in making their economic decisions. This is in line with the statement from the Financial Accounting Standard Board (FASB) which states that FSI must contain information that is of value to its users. In order for the FSI to have benefits for investors in terms of decision making, the FSI must be relevant and reliable.

Value relevance is the explanatory power of accounting information on market value (Beaver, 1968). In the accounting literature, FSI can be said to have value relevance if it can influence its users in terms of decision making that affect stock prices/returns (Amir et al, 1993; Beaver, 1998; Francis & Schipper, 1999; Barth et al, 2001). Value relevance research is intended to measure whether investors actually use FSI in fixing a stock price in the capital market. The main role in testing the value relevance of FSI is to show an increase or decrease in the use of accounting information by investors in determining firm value. Research on the value relevance of FSI continues to develop because in the 1990s there was a growing issue of decreasing the value relevance of FSI. The issue of decreasing the relevance of FSI due to a decrease in the quality of financial



statement disclosures (QFSD) and developments in information technology are strong reasons for testing the value relevance of FSI. Lev and Gu (2016) reveal that FSI is increasingly less relevant, the use of FSI for investors is only around 5%. Investors prioritize political issues, market sentiment, and predictions of future trends, not on past information that is a reflection of FSI.

The incidence of financial scandals in several companies in various worlds such as Enron, Xerox, SK Group, Permalat Group, Royal Ahold, Kimia Farma, Bank Lippo, Indo Farma, Inovisi Infracom, Garuda Indonesia, Jiwasraya, etc., can explain that QFSD is decreasing, so that has an impact on investor confidence in accounting information which causes a decrease in the value relevance of FSI. The decline in the value relevance of FSI is also caused by the large number of alternative (non-accounting) information available and easy to obtain by investors in decision making (Francis & Schipper, 1999; Pinasti, 2004). This alternative information is very easy to obtain due to advancing technological developments from year to year. So that alternative information becomes the main source of information for investors for making decisions in determining company value.

Furthermore, in the capital market in Indonesia there are several manufacturing companies that do not show any change in company value, when these companies publish their FSI on the IDX. This shows that the relevance of FSI is decreasing. One example of a case occurred in a BRAM company which experienced an increase in the book value of equity by 5.42% from the previous year and a profit value of 42.40% from the previous year with changes in the value of stock returns at the time of FSI publication up to seven days after FSI publication of 0.00%. This shows that the accounting numbers do not have an impact on stock prices/returns, so it can be said that FSI in BRAM companies has no relevance for investors. The same thing also happened to companies ESTI, STTP, TRST, LION, SULI, CTBN, YPAS which had high book value of equity and earnings but had no impact on stock price/return.

Research on the relevance of FSI values has been carried out by many researchers, but they have different results. Results of value relevance studies such as Collins et al (1997); Francis & Schipper (1999); Brief & Zarowin (2000); Chuanzhou (2005); Surwadi (2005); Fung et al (2010); Puspitaningtyas (2012); Kargin (2013); Olugbenga & Atanda (2014); Wulandari & Adiwati (2015) revealed that the value relevance of FSI on stocks did not decrease and even tended to increase from time to time. But the results of studies from Amir & Lev (1996); Brown et al (1999); Lo & Lys (2001); Core et al (2003); Sami & Zhou (2004); Pinasti (2004); Negash (2008); Almujaed & Alfraih (2019); Lako & Hartono (2019) reveal that the value relevance of FSI on stocks has decreased in the last few decades.

The purpose of this study was to examine trends in the relevance of FSI values from year to year. This is to prove empirically the issue of decreasing the value relevance of FSI that has developed in society. Testing the trend of the relevance of FSI value in this study uses the book value of equity contained in the balance sheet, and the profit value contained in the income statement as an indicator of FSI on firm value. According to Ohlson (1995); Collins et al (1997); Francis & Schipper (1999); Barth et al (1999); Beaver (2002) states that the numbers in the balance sheet and income statement can be used in testing the relevance of the FSI value to determine changes in stock prices/returns. Furthermore, Beaver (2002) states that the theory underlying value relevance research is a combination of valuation coupled with contextual accounting arguments.

In addition to testing the trend of the value relevance of FSI, this study also examines the effect of FSI and QFSD on firm value with investment in modern technology (IMT) as a moderator. The indicators of the QFSD are the timeliness of the publication of financial reports and disclosure of corporate social responsibility. According to Buzby (1975); Barrett (1976); Whittred (1980); Alford et al (1993) in determining the QFSD is by looking at the level of complete disclosure, extent and timeliness of ILK delivery. Lako (2008) states that the timeliness of FSI publications is very important in measuring the quality of disclosures. Leuz & Verrecchia (1999); Grinning (2011) states that high quality disclosure can reduce information asymmetry, thereby increasing market liquidity which has a positive impact on the level of stock trading volume.

It can be concluded that the main objective in this study is to examine the trend of relevance of FSI values from 2016 to 2019, and also to examine the effect of FSI and QFSD on firm value with IMT as a moderator. This study is intended to provide empirical evidence regarding the issue of decreasing the relevance of FSI value in the era of information technology. Value relevance testing is an important thing to continue to do. So that companies, investors and accounting policy makers can find out whether the FSI still has benefits or is only a complement to administration in the capital market, especially in Indonesia.

## 2. Literature Review and Hypothesis Development

In the stock market, if the published FSI has value relevance, the stock market will react. This reaction occurred as a result of investors responding to the publication of these FSI. Value relevance is the explanatory power of accounting information on firm value (Beaver, 1968). In the literature, an accounting number can be said to have value relevance if the accounting numbers have a significant relationship with equity market value (Amir et al, 1993; Beaver, 1998; Francis & Schipper, 1999; Barth et al, 2001). According to Hung (2001) value relevance is the ability of accounting numbers to capture the information contained in stock prices. Barth et al

(2001) revealed that studies that test value relevance use various valuation modalities in compiling their tests and also use stock prices/returns as a measure of valuation. The study of value relevance aims to examine the dependent variable based on stock price/return with the independent variable based on fundamental accounting figures (Easton, 1999; Beaver, 2002). Value relevance studies have an important role as a basis for proving whether accounting numbers have a relationship with the predicted stock price/return (Barth et al, 2001). If the relation between stock price/return and accounting numbers (as measured by  $R^2$ ) is greater than zero, then the accounting numbers have value relevance for the stock market.

According to Watts & Zimmerman (1986) accounting numbers contain information that affects stock prices/returns. Ohlson (1995) shows a value relevance perspective by analyzing the usefulness of accounting numbers to assess a company. Beaver (2002) states that the theory underlying the study of value relevance is a combination of valuation theory plus contextual accounting arguments. In testing the value relevance of FSI, Ohlson's valuation model is the most well-known model among researchers. The theoretical framework of Ohlson's model has a strong basis in testing the market based on accounting variables and other information that is considered relevant in predicting firm value. According to Lako (2008) the use of valuation theory and efficient market theory can explain the linear relationship between changes in stock prices/returns and changes in accounting numbers during the period of FSI publication events. The merger can also explain the effect of the timing of financial report publication and the rate of change in accounting numbers on the rate of change in share prices around the period of the financial report publication so that it can more accurately reflect the true value relevance of the FSI.

The model of Ohlson's (1995) valuation aims to formulate the relationship between accounting numbers and firm value as measured by stock prices or returns. Ohlson's valuation predicts that there is a linear relationship between stock price/return behavior and financial report numbers at a certain point in time (Ohlson, 1995). Ohlson's model assumes that stock prices can be written as a linear function of the earnings value and book value of equity, in this model, abnormal earnings are considered an attribute of investor value (Holthausen & Watts, 2001; Lako, 2008). In value relevance research, Ohlson's model is most widely used in research because it is considered to be able to take into account firm value that reflects future stock prices/returns using accounting and non-accounting data. Then this model can be developed with predictions and criteria in accordance with market conditions (Yuliarini, 2010). Meanwhile, the efficient market theory predicts that the price/return of shares traded in a capital market at any time fairly reflects all publicly known information relating to the prices of these securities, including information from accounting measures (Beaver, 1998). The use of efficient market theory in value relevance studies is also in line with the suggestion of Beaver (2002); Lako (2008).

In the capital market, companies that have good quality will deliberately provide signals or information to investors. By giving these signals, investors are expected to be able to differentiate between companies that give good news signals and companies that give bad news signals so that they can influence stock prices/returns at the time of the publication of information. According to Miller & Whiting (2005), signaling theory indicates that the company will try to provide a signal in the form of positive information to potential investors through disclosure in financial reports and stock returns. According to Leland & Pyle (1977), signaling theory is a company action that provides information to investors. According to Schweitzer (1989) the delivery of information that is not in full will lead to information asymmetry that can affect the market in responding to this information as a signal that is reflected in changes in stock prices/returns. Based on the signaling theory, it can be assumed that when there is a publication of FSI, investors will respond to the information based on their interpretation so that it can affect the price / return on the stock market.

## 2.1 Value Relevance of Financial Statement Information

One of the main objectives in FSI is to provide relevant information for investors in making investment decisions. According to Beaver (1998), FSI is said to have value relevance if accounting numbers can affect stock prices/returns. Barth et al (2001) stated that value relevance research has an important role as a basis in proving whether accounting numbers have a relationship with the market value of securities. This study aims to examine the trend of the relevance of FSI values in manufacturing companies listed on the Indonesia Stock Exchange for the period 2016-2019. There are several results from research in Indonesia that support the increasing relevance of FSI values. Like Syagata & Daljono (2014); Wulandari & Adiati (2015); Sukma & Yadnyana (2016); Romadhani & Purwanti (2017); Petra (2018); Yuniarso & Lako (2018). The results of their research revealed that the relevance of the FSI value had increased. So that this study formulates the following hypothesis:

H1 : *The value relevance of FSI has increased from 2016 to 2019.*

## 2.2 The Effect of Financial Statement Information on Firm Value

Ohlson (1995); Collins et al (1997); Francis & Schipper (1999); Barth et al (1999); Beaver (2002) states that in FSI there are two main components used by investors in determining the value of shares, namely profit and loss and balance sheet. Ball & Brown (1968); Beaver (1968) states that the value of profit and loss is the value of profit and the value of the balance sheet is the book value of equity. Both of these variables have an important role to play in helping investors in making decisions. So that in this study using the earnings value and book value of equity as indicators in testing the effect of FSI on firm value. There are several results from research in Indonesia that support FSI has an influence on firm value, such as Agusti & Rahman (2011); Kuswanto et al (2017); Pascayanti et al (2017). The results of their research reveal that FSI has an influence on changes in firm value. So that this study formulates the following hypothesis:

H2 : *FSI has a significant effect on firm value for the 2016-2019 period.*

## 2.3 Effect of Quality of Financial Statement Disclosure on Firm Value

Buzby (1975); Barrett (1976); Whittred (1980); Alford et al (1993) revealed that comprehensiveness, adequacy, timeliness, and informativeness are concepts in QFSD that get the attention of investors in decision making. This is supported by Lako (2007) who stated that QFSD has a significant contingency effect that can increase the value relevance of FSI. So these results can explain that the QFSD has an influence on firm value. In testing whether the QFSD has an influence on firm value, this study uses disclosure of corporate social responsibility (DCSR) and timeliness of the publication of financial statement (TPFS) as indicators of QFSD. According to Epstein & Freedman, (1994); Frooman, (1997); Brammer et al, (2005) revealed that DCSR by companies can influence investors in making stock investment decisions. So that DCSR is considered to be able to contribute to influence investors in determining company value.

Meanwhile, Chambers & Penman (1984) stated that the delay in publishing the company's FSI is a bad signal, this indicates that the company is experiencing bad conditions. So this indicates that companies that publish FSI earlier can influence investors in making investment decisions. There are several research results in Indonesia that support the effect of QFSD on firm value. Like Wisadha (2008); Ayu (2013); Irma (2013). The results of their research indicate that the QFSD has an influence on firm value, meaning that investors make an assessment of the QFSD which causes reactions in the stock market. So that this study formulates the following hypothesis:

H3 : *QFSD has a significant effect on company value for the 2016-2019 period.*

## 2.4 Investment in Modern Technology Moderate the Influence of Financial Statement Information and the Quality of Financial Statement Disclosure on Firm Value

Santos et al (1993) revealed that the impact of IMT announcements made by companies can positively affect their firm value. Wiyani (2008) stated that IMT is a company competitive strategy that indicates competitive ability through changes in industrial structure. According to Kadir (2014), the role of IMT for companies can be the main facilitator for business activities, IMT also contributes greatly to fundamental changes in structure, operations and strategic management. So it can be concluded that companies that carry out IMT will be able to survive in global competition in the era of 4.0 and this is a positive signal for investors so that they can increase company value. There are several research results in Indonesia which reveal that IMT has a role in increasing the value and performance of companies, such as research conducted by Muharam & Widati (2006); Wiyani (2008). The results of their research indicate that there is an influence of IMT on the value and performance of the company. This indicates that IMT is information that can attract investors' attention in their decision making. So that this study formulates the following hypothesis:

H4 : *IMT can strengthen the influence of FSI on firm value for the 2016-2019 period.*

H5 : *IMT can strengthen the influence of the QFSD on company value for the 2016-2019 period.*

## 3. Method

### 3.1 Samples and Data

In determining the number of samples, this study used purposive sampling, in which samples were selected according to certain criteria to obtain a representative sample. Based on the criteria determined, this study collected 76 companies, so that there are 304 audited annual FSI that are ready to be observed. The research sample is presented in table 1 as follows.

**Table 1** The number of samples and research observations

Year	Number of Samples	Business Sector		
		Basic & Chemical Industries	Various Industries	Consumer Goods Industry
2016	76	35	16	25
2017	76	35	16	25
2018	76	35	16	25
2019	76	35	16	25
<b>Number of Observations</b>	<b>304</b>	<b>140</b>	<b>64</b>	<b>100</b>

Source: Indonesia Stock Exchange, 2020 (www.idx.com)

This study uses secondary data obtained from www.idx.co.id and online-based information media. This study uses two types of data, namely, cross section and time series, so the type of data from this study is pooled data. The following data are used in this study, namely: data on manufacturing companies listed on the IDX and issuing FSI for 2016-2019; company audit annual FSI data for the period 2016-2019; annual report 2016-2019; publication date of FSI for the period 2016-2019; stock return data; and information regarding company IMT announcements.

### 3.2 Regression Model

In testing H1, H2, H3, H4 and H5, this study uses a multiple linear regression model with the ordinary least square (OLS) method. The OLS method is a method for estimating parameter values in the regression equation. In principle, the OLS method minimizes the number of squares of error on parameters partially. This study uses 3 models in regression analysis. In model I, this is to see an increasing or decreasing trend in the relevance of FSI from 2016-2019. Model II, to see the effect of FSI and QFSD on firm value. Model III, to see the contribution of IMT in moderating the influence of FSI and QFSD on firm value.

#### Model I

In testing H1, the value relevance of ILK has increased from 2016-2019, this study first investigates whether the ILK indicator has value relevance. In testing H1, this study used a short window event study approach with a period of three days before the publication of ILK (-3), at the time of publication of ILK (0), and three days after publication of ILK (3). So this research uses tiered linear regression with the following model:

$$RS_{t(-3)} = \alpha_1 + \alpha_2 BVE_{it} + \alpha_3 PV_{it} + \epsilon_{it} \quad (1)$$

$$RS_{t(0)} = \alpha_1 + \alpha_2 BVE_{it} + \alpha_3 PV_{it} + \epsilon_{it} \quad (2)$$

$$RS_{t(3)} = \alpha_1 + \alpha_2 NBK_{it} + \alpha_3 NLK_{it} + \epsilon_{it} \quad (3)$$

Where:

- $RS_{it}$  = The return on stock securities i in the period ( $t_{(-3)}$ ,  $t_{(0)}$  and  $t_{(3)}$ )
- $\alpha_1$  = Constant
- $\alpha_2$ , and  $\alpha_3$  = Estimated coefficients of BVE and PV
- $BVE_{it}$  = Book value of equity of company i in period t
- $PV_{it}$  = Profit value of company i in period t
- $\epsilon_{it}$  = Residual value

To determine whether the indicators of FSI have relevance, the  $R^2$  value is used as a parameter. Thus, if  $R^2 > 0$ , then FSI has value relevance, conversely, if  $R^2 \leq 0$ , then FSI has no value relevance. Furthermore, to test H1, the  $R^2$  value from the test results of the equation above, is regressed with the time trend variable, with the following formula:

$$R^2_{it} = \alpha + \beta(\text{time}) + \epsilon_t \quad (4)$$

Where:

- $R^2_{it}$  = The  $R^2$  value of an empirical model
- $\beta$  = Coefficients
- $\text{time}$  = 1, 2, 3, and 4 are related to the 2016-2019 study period

If the coefficient  $\beta > 0$ , then the relevance of the FSI value has increased so that this study accepts H1. Conversely, if  $\beta < 0$ , then the relevance of the FSI value has decreased so that this study rejects H1.

### Model II

In testing H2, namely FSI has a significant effect on firm value for the 2016-2019 period, this study uses the following model:

$$RS_{it} = \alpha_1 + \alpha_2 BVE_{it} + \alpha_3 PV_{it} + \epsilon_{it} \quad (5)$$

In determining whether the H2 test results are significant or insignificant, the p-value can be seen. If the p-value < 0.05, the FSI has a significant effect on firm value, so this study accepts H2. Conversely, if the p-value > 0.05, then FSI has no significant effect on firm value, so this study rejects H2. In testing H3, namely QFSD has a significant effect on firm value for the 2016-2019 period, this study uses the following model:

$$RS_{it} = \alpha_1 + \alpha_4 DTPFS_{it} + \alpha_5 DDCSR_{it} + \epsilon_{it} \quad (6)$$

Where:

- DTPFS = the dummy variable of the TPFS
- DDCSR = the dummy variable of the DCSR

In determining whether the H3 test results are significant or insignificant, the p-value can be seen. If the p-value < 0.05, this study supports H3, on the other hand, if the p-value > 0.05, this study rejects H3.

### Model III

In testing H4, namely IMT can strengthen the effect of FSI on firm value, this study divides the sample into two groups, namely companies that do IMT (D = 1) and companies that do not do IMT (D = 0). To test H4, this study uses the following model:

$$RS_{it} = \alpha_1 + \alpha_6 BVE_{it} * PV_{it} * DIMT_{it} + \epsilon_{it} \quad (7)$$

Where:

- DIMT = the dummy variable of the IMT

In determining whether the results of the H4 test can strengthen or weaken the influence of FSI on firm value, the p-value can be seen. If the p-value < 0.05, this study supports H4, on the contrary, if the p-value > 0.05, this study rejects H4. In testing H5, namely IMT can strengthen the effect of QFSD on firm value for the 2016-2019 period, this study uses the following model:

$$RS_{it} = \alpha_1 + \alpha_7 DTPFS_{it} * DDCSR_{it} * DIMT_{it} + \epsilon_{it} \quad (8)$$

In determining whether the results of the H5 test can strengthen or weaken the effect of the QFSD on firm value, the p-value can be seen. If the p-value < 0.05, this study supports H5, on the contrary, if the p-value > 0.05, this study rejects H5.

## 4. Results and Discussion

### 4.2 Trends in Value Relevance in Model I

Before testing the H1 hypothesis, namely the relevance of the FSI value has increased from 2016-2019, this research first investigates whether FSI still has value relevance, then this study conducted three regression tests, namely the regression test for RS 3 days before the publication of the annual FSI ( $t_{(-3)}$ ), regression test for RS at the time of publication of the annual FSI ( $t_{(0)}$ ) and regression test at 3 days after publication of the annual FSI ( $t_{(3)}$ ). The results of the multiple linear regression test are presented in the following table.

**Table 2** Multiple linear regression test results for  $t_{(-3)}$ ,  $t_{(0)}$  and  $t_{(3)}$

$T_{(-3)}$						
Year	N	$\alpha_1$	$\alpha_2$	$\alpha_3$	$R^2$	$\Delta$
2016	76	0.0036	0.0014	0.0003	0.0481	0
2017	76	-0.0001	0.0014	0.0002	0.0046	-0.0435
2018	76	-0.0011	0.0199	0.0003	0.0306	0.026
2019	76	0.0019	-0.0341	-0.0007	0.0399	0.0093
Panel	304	0.0011	-0.0009	0.0003	0.0113	
$T_{(0)}$						
2016	76	0.0029	0.0475	-0.0002	0.0937	0
2017	76	0.0014	0.0023	0.0099	0.0233	-0.0704
2018	76	0.0009	-0.0154	-0.0058	0.2297	0.2064

2019	76	0.0083	0.0060	-0.0016	0.0007	-0.229
Panel	304	0.0023	0.0101	-0.0005	0.0093	

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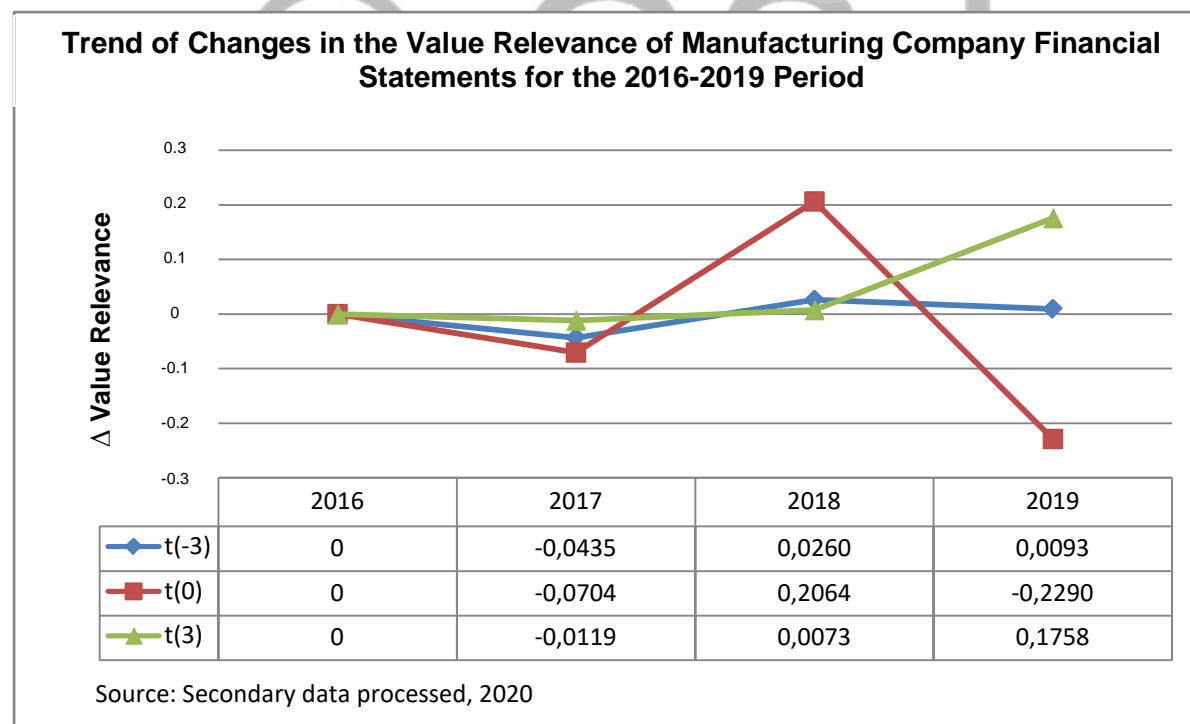
$T_{(3)}$						
2016	76	0.0021	0.0080	0.0000	0.0176	0
2017	76	0.0074	-0.0026	-0.0058	0.0057	-0.0119
2018	76	-0.0008	-0.0204	0.0001	0.0130	0.0073
2019	76	0.0044	0.0032	0.0182	0.1888	0.1758
Panel	304	0.0027	0.0021	-0.0000	0.0004	

Source: Secondary data processed, 2020

From the table above, it can be seen that three days before the publication of the annual FSI in the panel  $\alpha_3$  has a positive value while  $\alpha_2$  has a negative value. These results explain that PV has a positive effect on RS at the three days before the publication of annual FSI, while BVE has a negative effect on RS at the three days before the publication of annual FSI. At the time of publication of the annual FSI in the panel  $\alpha_2$  had a positive value while  $\alpha_3$  had a negative value. These results explain that BVE has a positive effect on RS at the day of publication of the annual FSI, while PV has a negative effect on RS at the day of publication of the annual FSI. At three days after the publication of FSI in the panel  $\alpha_2$  has a positive value while  $\alpha_3$  has a negative value. These results explain that BVE has a positive effect on RS after three days the publication of annual FSI, while PV has a negative effect on RS after three days the publication of annual FSI.

The results of the table above indicate that, three days before the publication of the annual FSI, BVE tended to have a negative effect on RS while PV tended to have a positive effect on RS. At the time of publication of the annual FSI and three days after the publication of the annual FSI, BVE tended to have a positive effect on RS while PV tended to have negative effects on RS. Furthermore,  $\Delta$  of the three tables above describes the change in the relevance of FSI. The following is the value of  $\Delta$  in graphical form.

**Figure 1** Trend changes in the relevance of FSI



The figure above indicates that at  $t_{(-3)}$ , the changes that occur from year to year experience small fluctuations. These results explain that three days before the publication of the annual FSI, accounting numbers are less relevant in having an impact on changes in firm value. Different results are shown in  $t_{(0)}$ , where changes that occur from year to year fluctuate with extreme increases and decreases. These results explain that at the time of the publication of the annual FSI, accounting numbers have relevance in providing positive and negative impacts on changes in firm value. Meanwhile, the results in  $t_{(3)}$ , changes that occur from year to year have increased. These results indicate that at the time of three days after the publication of the annual FSI, accounting numbers have relevance in providing a positive impact on changes in firm value.

Furthermore, the  $R^2$  value from the regression test in model I becomes the benchmark in testing the H1. Testing the H1 is carried out on  $R^2$  of  $t_{(3)}$  with the time variable. Due to determining whether the relevance of annual FSI has increased or decreased, the accounting numbers in the annual FSI at  $t_{(3)}$  have a major influence on changes in firm value when compared to  $t_{(-3)}$  and  $t_{(0)}$ . The results of the value relevance test from year to year are presented in table 3 as follows.

**Table 3** The results of the FSI value relevance trend test

Description	$t_{(3)}$			
	$\alpha$	$\beta$	Std.Error	
	-0.0739	0.0521	1.6259	Increased
$R^2$	= 0.5773			
Adj. $R^2$	= 0.3660			
Prob. (F-statistics)	= 0.0240			
*Significance at 0.05				

Source: Secondary data processed, 2020

The benchmark in testing the relevance of the FSI value is the coefficient of determination ( $R^2$ ). Value relevance studies focus the  $R^2$  value of the accounting numbers into valuations to measure the relevance of FSI in the capital market. Furthermore, to measure the trend of the relevance of the FSI value from year to year, the  $R^2$  value was regressed with the time trend variable. The relevance of the FSI value is said to increase or not change if the results of the FSI relevance trend test show a value of  $\beta > 0$ , on the contrary it is said to decrease if the value of  $\beta < 0$ . From Table 3, it can be seen that the  $R^2$   $\beta$  value of the results of the value relevance trend test is  $0.0521 > 0$ , meaning that the relevance of annual FSI values for manufacturing companies has increased from 2016 to 2019. These results indicate that H1 is accepted. The statement from H1 can be interpreted that FSI for manufacturing companies from 2016 to 2019 on the stock market has not lost its relevance. Even after three days of publication of the annual FSI, the relevance of FSI increased. This shows that investors still use accounting numbers in determining firm value. The results of empirical H1 testing are in line with the theories on which this research is based. The results of H1 testing are also empirically consistent with research results from Chuangzhou (2005); Suwardi (2005); Puspitaningtyas (2012); Kargin (2013); Olugbenga & Atanda (2014); Syagata & Daljono (2014); Wulandari & Adiwati (2015); Sukma & Yadnyana (2016); Romadhani & Purwanti (2017); Petra (2018); Yuniarso & Lako (2018) who reveal that the relevance of FSI values has increased or did not change from year to year.

## 4.2 Multiple Linear Regression Analysis in Model II

In testing H2 and H3, this study uses multiple linear regression. The results of the regression test are presented in the following table.

**Table 4** Multiple regression test results (FSI on firm value)

Variable	Coefficient	Std. Error	Prob.	
$\alpha_1$	1.5164	0.3326	0.0000	
BVE	0.5291	0.0582	0.0000	Significant
PV	0.4461	0.0424	0.0000	Significant
$R^2$	= 0.5953			
Adj. $R^2$	= 0.5926			
Prob. (F-statistics)	= 0.0000			
*Significance at 0.05				

Source: Secondary data processed, 2020

**Table 5** Multiple regression test results (QFSD to firm value)

Variable	Coefficient	Std. Error	Prob.	
$\alpha_1$	5.5606	0.8398	0.0000	
Dummy_TPFS	0.6599	0.1875	0.0005	Significant
Dummy_DCSR	0.9395	0.8449	0.2671	not significant
$R^2$	= 0.0457			
Adj. $R^2$	= 0.0394			
Prob. (F-statistics)	= 0.0009			
* Significance at 0.05				

Source: Secondary data processed, 2020

The results for table 4 show that the  $R^2$  value is 0.5953, so that it indicates that the annual FSI of numbers contributes to the RS effect by 59.53%. Partially the coefficients of BVE and PV have a positive value of 0.5291 for BVE and 0.4461 for PV. This indicates that for 2016 to 2019 the numbers from annual FSI have a positive effect on RS. Furthermore, the p-value of BVE and PV has a value of  $< 0.05$ , this indicates that BVE and PV have a significant effect on RS. The results from table 4 indicate that H2 is accepted. So that the statement that FSI has a significant effect on firm value for the 2016-2019 period has been empirically proven. The statement from H2 can be interpreted that accounting numbers, especially BVE and PV, are still the benchmarks for investors in determining firm value. Companies that have high BVE and PV values can empirically increase firm value. This can be seen from the results of H2 testing that the more the BVE and PV values increase, the firm value increases. The results of empirical H2 testing are in line with the theories on which this research is based. The results of empirical H2 testing are also in line with the research results of Agusti & Rahman (2011); Kuswanto et al (2017); Pascayanti et al (2017). The results of their research reveal that FSI has an influence on changes in firm value.

Furthermore, the results for table 5 show an  $R^2$  value of 0.0457, thus indicating that the QFSD contributed 4.57% to the effect of RS. Partially the coefficients of TPFS and DCSR have a positive value of 0.6599 for TPFS and 0.9395 for DCSR. This indicates that for 2016 to 2019 the QFSD has a positive influence on RS. Furthermore, the p-value of TPFS has a value of  $< 0.05$ , this explains that TPFS has a significant effect on RS, while the p-value of DCSR has a value of  $> 0.05$ , this explains that DCSR has no significant effect on RS. However, simultaneously the p-value of the QFSD has a value of  $< 0.05$ , thus explaining that the QFSD has a significant effect on RS.

The results from table 5 indicate that H3 is accepted. So that the statement that QFSD has a significant effect on firm value for the 2016-2019 period has been empirically proven. The statement of H3 can be interpreted that the quality in disclosing the company's FSI becomes an assessment for investors in determining firm value. Companies that increase their QFSD, empirically, can increase firm value. This can be seen from the results of the H3 test that if the company has a good QFSD, then the company value will increase. The results of empirical H3 testing are in line with the theories on which this research is based. The results of empirical H3 testing are also in line with research results from Nagayama & Tekada (2006); Wisadha (2008); Ayu (2013); Irma (2013). The results of their research reveal that QFSD has a significant effect on firm value.

### 4.3 Moderated Regression Analysis in Model III

In testing H4 and H5, this study uses moderated regression. The results of the moderated regression test are presented in the following table.

**Table 6** Moderated regression test results (IMT moderates the effect of FSI on firm value)

Variable	Coefficient	Std. Error	Prob.	
$\alpha_1$	5.8562	0.1136	0.0000	
Dummy_IMT	0.4815	0.2067	0.0205	
BVE*PV*IMT	0.0476	0.0038	0.0000	Significant
$R^2$	= 0.3363			
Adj. $R^2$	= 0.3341			
Prob. (F-statistics)	= 0.0000			
*Significance at 0.05				

Source: Secondary data processed, 2020

**Table 7** Moderated regression test results (IMT moderates the effect of QFSD on firm value)

Variable	Coefficient	Std. Error	Prob.	
$\alpha_1$	6.5636	0.1285	0.0000	
Dummy_IMT	0.4815	0.2067	0.0205	
DTPFS*DDCSR*DIMT	0.6952	0.1679	0.0000	Significant
$R^2$	= 0.0537			
Adj. $R^2$	= 0.0506			
Prob. (F-statistics)	= 0.0000			
* Significance at 0.05				

Source: Secondary data processed, 2020



The results for table 6 show that the  $R^2$  value is 0.3363, so it indicates that IMT in moderating the annual FSI on RS contributed 33.63% to the effect. The coefficient of  $BVE*PV*DIMT$  has a positive value of 0.0476, this indicates that for 2016 to 2019 IMT can strengthen the effect of annual FSI on RS. Furthermore, the p-value of  $BVE*PV*DIMT$  has a value of  $< 0.05$ , so this indicates that IMT in moderating annual FSI on RS has a significant effect. The results from table 6 show that H4 is accepted. So that the statement that IMT can strengthen the influence of FSI on firm value for the 2016-2019 period has been empirically proven.

The statement of H4 can be interpreted that investment in the form of modern technology has a positive contribution to the relationship between FSI and firm value. Companies that do IMT empirically have a high RS value, thus increasing the firm's value. This can be seen from the results of the H4 test that if the company does IMT, the FSI value will be better, so that the company value will increase. The results of empirical H4 testing are in line with the theories on which this research is based. The results of empirical H4 testing are also in line with the research results of Muharam & Widati (2006); Wiyani (2008) Gartner (2015). The results of their research explain that IMT becomes good news information that can change investors' interpretations to be positive in assessing the company.

The results for table 7 show that the  $R^2$  value is 0.0537, thus indicating that IMT in moderating the QFSD on RS contributed an influence of 5.37%. The coefficient of  $DTPFS*DDCSR*DIMT$  has a positive value of 0.6952, this indicates that for 2016 to 2019 IMT can strengthen the influence of QFSD on RS. Furthermore, the p-value of  $DTPFS*DDCSR*DIMT$  has a value of  $< 0.05$ , this indicates that IMT in moderating QFSD on RS has a significant effect. The results from table 7 show that H5 is accepted. So that the statement that IMT can strengthen the influence of QFSD on company value for the 2016-2019 period has been empirically proven.

The statement of H5 can be interpreted that investment in the form of modern technology has a positive contribution to the relationship between the effect of the QFSD and firm value. Companies that do IMT empirically have a high RS, so that it will increase company value. This can be seen from the results of the H5 test that if the company carries out IMT, the QFSD will be better, so that the company's value will increase. The results of empirically testing H5 are in line with the theories on which this research is based. The results of empirical testing of H5 are also in line with the results of research by Muharam & Widati (2006); Wiyani (2008) Gartner (2015). The results of their research explain that IMT becomes good news information that can change investors' interpretations to be positive in assessing the company.

## 5. Conclusions and Suggestions

Based on the results of testing the discussion of the trend of the relevance of FSI value, the influence of FSI and QFSD on firm value with IMT as a moderating variable, it can be concluded that: first, empirically, the trend of the value relevance of FSI has increased from 2016-2019. These results indicate that investors still use accounting numbers in determining firm value. These results also prove that the issue of decreasing trend in the relevance of FSI value does not occur, especially in the capital market in Indonesia for manufacturing companies for the 2016-2019 period. Then, these results also provide evidence that the large amount of alternative information available cannot reduce the relevance of the FSI value.

Second, empirically FSI has a significant effect on changes in firm value. These results indicate that as BVE and PV increase, the firm value will increase. These results also prove that the ease of information in the 4.0 era as well as the many earnings management practices do not reduce the influence of FSI on firm value. So that FSI still has an existence for investors in determining company value, especially manufacturing companies for the 2016-2019 period. Likewise with QFSD which empirically has a significant effect on firm value. These results indicate that if the company has a good quality of disclosure, then the company value will increase. These results prove that the QFSD is the benchmark for investors in determining company value.

Third, empirically IMT can strengthen the influence of FSI on firm value. These results indicate that if the company implements IMT, the FSI value will be better, thus increasing the firm's value. These results indicate that IMT will be good news for investors, so that it can strengthen the influence of FSI on changes in firm value. Likewise, IMT can empirically strengthen the effect of QFSD on firm value. These results indicate that if the company implements IMT, the QFSD will get better, thus increasing the company value. These results indicate that IMT information will become good news information, thus strengthening the QFSD influence on firm value.

Furthermore, there are several suggestions for further research related to capital market-based accounting studies, namely, first, can do a comparative test of the value relevance of other countries that adopt IFRS and use samples from similar business sectors. Second, can extend the observation period in order to have maximum results, as well as develop other variables that can increase firm value, especially those related to accounting information. Third, expected to develop indicators to measure the quality of financial statement disclosures.

## 6. Implications and Limitations of the Study

The results of this study provide empirical evidence to researchers that the issue of decreasing the relevance of FSI value that has developed in the last few decades has not occurred in the capital market in Indonesia, especially manufacturing companies for the 2016-2019 period. The results of this study also provide empirical evidence to researchers that IMT information has become a benchmark for investors in making investment decisions. So that these results can become new references in value relevance studies and financial statement analysis. The results of this study also provide empirical evidence to practitioners that companies with good QFSD can increase firm value. These results can add insight for potential investors in making investment decisions. The results of the study provide empirical evidence for publicly traded companies that TPFs can increase firm value. So that companies can pay attention to the timeliness of the publication of financial reports.

The results of this study can also be taken into consideration for capital market policy makers in Indonesia, especially the Otoritas Jasa Keuangan (OJK), to further reinforce regulations in terms of completeness and accuracy of corporate information publication. Because from research observations there are several companies that publish incomplete information and not on time. These companies still exist in the capital market during the 2016-2019 period. So that this can be detrimental to investors, especially investors who have just entered the capital market.

This study has limitations in conducting research such as the relatively short observation period, namely 2016-2019. This study also uses manufacturing companies as research samples, so that the results of this study cannot be generalized to other company sectors. Then, the QFSD indicator only uses two variables, namely TPFs and DCSR.

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