

11 bit Studios

Accumulate

PLN mn	2020	2021e	2022e	2023e			52 weeks			
Net sales	87.4	64.3	82.2	273.3	700 7					
EBITDA	51.1	29.8	34.3	175.9	650 -					
EBIT	40.8	19.5	22.8	122.8	600 - 🔏				~~	~~~
Net result after min.	37.4	18.4	20.9	112.3	550		~~~	mayo	My mark	۸
EPS (PLN)	15.83	7.78	8.83	47.50	500	Sugar .	ation.	. ~	70 7	/ M M/
CEPS (PLN)	20.18	12.14	13.69	69.94	450	111	Mary Mary	W 21		ν
BVPS (PLN)	69.75	79.20	89.79	139.05	400		V			
Div./share (PLN)	0.00	0.00	0.00	0.00	400		11 bit Studios	· —	WIG	
EV/EBITDA (x)	20.2	36.4	32.2	5.6						
P/E (x)	29.9	62.9	55.4	10.3	Performance		12M	6M	3M	1M
P/CE (x)	23.5	40.3	35.8	7.0	in PLN		2.2%	7.8%	-5.8%	0.5%
Dividend Yield	0.0%	0.0%	0.0%	0.0%			2.270	7.070	0.070	
Share price (PLN) clos	se as of 15/06	6/2021		489.6	Reuters 1	1B.WA	Free float			81.9%
Number of shares (mr	n)			2.4	Bloomberg 1	1B PW	Shareholders	zegorz	Miechowsk	ki (7.5%)
Market capitalization (PLN mn / EU	R mn)	1,	157 / ,255	Div. Ex-date		,	Aviva Inv	estors TFI	(6.04%)
Enterprise value (PLN	mn / EUR m	n)	1,	084 / ,239	Target price	574.6	Homepage:	,	www.11bitstu	udios.com

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Solid triggers finally ahead, frosty August incoming?

After years of prolonged silence, 11 bit studios is just about to release more details on the first project from its own portfolio, while the snowy trailer, and the fact that Project Eleanor (Frostpunk team) is the most advanced in terms of development, suggests a **great likelihood of a Frostpunk 2 announcement**, which we believe would be **warmly welcomed by investors**, due to the **4mn player base of the first Frostpunk and its likely high conversion, at least based on the 90% share of positive reviews on Steam**. It is important to note that the company's direct focus on increasing franchise recognition, including mobile version development, the successful Kickstarter campaign for the board game, freshly announced Anthology and DLCs port to consoles, all seems supportive for potential FP 2 monetization. **The key issue with the 11b investment case**, i.e. limited details on planned releases coupled with no short-term triggers **seems to be coming to an end.**

The recent decision on scaling up the own production budget led us to increase our forecast regarding **Eleanor/Dolly/P8 development cost up to PLN 40/20/40mn** vs. the PLN 20/12/30mn expected previously. The Eleanor budget is hence **2x higher** than we assumed earlier and **3.3x higher** than the PLN 12mn allocated for Frostpunk, which suggests that Frostpunk 2 may even be two times bigger than the previous version.

Based on our model, 11 bit may deliver avg. earnings of PLN 73-74mn in 2021-25/30e. Such earnings imply a P/E ratio excl. cash of 14.6-14.7x vs. >20x in terms of peers, which we see as attractive. Hence, we maintain our Accumulate rating and increase our TP to PLN 574.6 per share.

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Valuation

We use an adjusted DCF model in our valuation, based on our forecasts for 2021-25. We have smoothed out and equated all FCFs using a 3% annual growth rate. WACC is used as a discount rate for the given periods. The terminal value FCF is equal to the previous year's FCF increased by 3%. For comparison purposes, we also present peer multiples and a TP implied by the 5Y average P/E multiple and 2021-25e average earnings.

Assumptions:

- Project Eleanor expected to release in 2Q23e, with 1.7mn copies to be sold in 2023e and 3.9mn in the first 4 years.
- Project Dolly expected at the end of 2023, with 0.7mn copies to be sold in 2023e and 2.5mn copies in the first 4 years.
- Project 8 expected in 2Q24e, with 1.7mn copies to be sold in the release year and 4.1mn in the first 4 years.
- Next releases from own portfolio expected in 2028/29e, i.e. 5 years after Eleanor/Dolly debut.
- Vitrol projects to be first to release in the publishing segment (3Q22e, 2.5mn copies expected in the first 4 years). Botin and Ava expected to release in 2023e with 4 years sales potential of approx. 1.6mn units.
- Foxhole project completely removed from our model.
- USD/PLN at 3.8 in 2021-30e, EUR/PLN of EUR 4.5 in same period.
- 2021-25 CAPEX expected at PLN 237mn vs. PLN 171mn previously.
- Operating profit reduced by PLN 4.2mn non-cash incentive scheme provision. So as not to calculate again for the incentive scheme, we are using a non-diluted number of common shares.

Peer group comparison

	P/E			EV/EBITDA			
	2021E	2022E	2023E	2021E	2022E	2023E	
Activision Blizzard Inc	25.9	22.2	21.0	17.9	15.5	14.6	
Electronic Arts Inc	26.6	23.6	20.9	17.3	14.9	13.9	
Ubisoft Entertainment	24.1	24.5	20.1	6.7	8.3	6.7	
Take-Tw o Interactive Softw are	30.8	39.0	26.0	20.9	26.5	18.5	
Konami	32.2	22.1	19.7	13.8	10.6	9.5	
Capcom	32.5	24.3	22.0	23.7	18.0	16.4	
Naver Corp	5.4	35.3	31.2	34.2	27.9	23.8	
Tencent	33.4	26.9	22.0	23.0	19.4	16.5	
Square Enix	27.5	20.7	18.9	11.3	10.3	9.3	
Paradox Interactive	35.0	26.3	24.2	16.2	12.1	11.3	
Embracer Group	46.6	33.3	33.4	32.6	16.7	15.6	
Playtika	26.5	20.5	18.1	11.8	11.0	10.1	
Ten Square Games	14.6	12.4	10.7	12.0	10.0	8.7	
PlayWay	20.8	18.6	17.1	14.3	12.8	11.7	
CD Projekt	31.7	27.3	32.0	20.4	19.8	19.5	
Huuuge	23.9	14.2	10.6	9.2	7.8	6.9	
Median	27.1	23.9	20.9	16.7	13.9	12.8	
11 bit studios	62.9	55.4	10.3	36.4	32.2	5.6	
Premium/discount	133%	131%	-51%	118%	132%	-56%	
Implied value (PLN/share)	200.0	200.9	943.2	229.7	212.5	969.1	

Source: Bloomberg, Erste Group Research

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Target price per share implied by average 5Y P/E (mcap excl. cash) ratio and 2021-25e avg. earnings (in PLN/share)

		2021-25e average earnings									
		33	43	53	63	73	83	93	103	113	
	30.00	456	583	710	837	964	1 091	1 218	1 344	1 471	
	29.00	442	565	687	810	933	1 055	1 178	1 301	1 423	
	28.00	428	546	665	783	902	1 020	1 138	1 257	1 375	
	27.00	414	528	642	756	870	985	1 099	1 213	1 327	
	26.00	399	509	619	729	839	949	1 059	1 169	1 279	
	25.00	385	491	597	702	808	914	1 020	1 126	1 231	
	24.00	371	473	574	676	777	879	980	1 082	1 183	
٥	23.00	357	454	551	649	746	843	941	1 038	1 135	
ratio	22.00	343	436	529	622	715	808	901	994	1 087	
P/E	21.00	329	417	506	595	684	773	862	950	1 039	
5	20.00	314	399	484	568	653	737	822	907	991	
ge	19.00	300	381	461	541	622	702	783	863	943	
Average	18.00	286	362	438	515	591	667	743	819	895	
₹	17.00	272	344	416	488	560	632	703	775	847	
	16.00	258	325	393	461	529	596	664	732	799	
	15.00	244	307	371	434	497	561	624	688	751	
	14.00	229	289	348	407	466	526	585	644	703	
	13.00	215	270	325	380	435	490	545	600	655	
	12.00	201	252	303	353	404	455	506	556	607	
	11.00	187	233	280	327	373	420	466	513	559	
	10.00	173	215	257	300	342	384	427	469	511	

10.00 173 215 Source: Erste Group Research

Potential valuation upside (+) / downside (-) based on 2021-25 avg. earnings and avg. 5Y P/E ratio (mcap excl. cash

	•	2021-25e average earnings										
		33	43	53	63	73	83	93	103	113		
	30.00	-7%	19%	45%	71%	97%	123%	149%	175%	201%		
	29.00	-10%	15%	40%	65%	90%	116%	141%	166%	191%		
	28.00	-13%	12%	36%	60%	84%	108%	133%	157%	181%		
	27.00	-16%	8%	31%	54%	78%	101%	124%	148%	171%		
	26.00	-18%	4%	27%	49%	71%	94%	116%	139%	161%		
	25.00	-21%	0%	22%	43%	65%	87%	108%	130%	151%		
	24.00	-24%	-3%	17%	38%	59%	79%	100%	121%	142%		
	23.00	-27%	-7%	13%	33%	52%	72%	92%	112%	132%		
ratio	22.00	-30%	-11%	8%	27%	46%	65%	84%	103%	122%		
	21.00	-33%	-15%	3%	22%	40%	58%	76%	94%	112%		
P/E	20.00	-36%	-19%	-1%	16%	33%	51%	68%	85%	102%		
Fair P/E	19.00	-39%	-22%	-6%	11%	27%	43%	60%	76%	93%		
üΪ	18.00	-42%	-26%	-10%	5%	21%	36%	52%	67%	83%		
	17.00	-44%	-30%	-15%	0%	14%	29%	44%	58%	73%		
	16.00	-47%	-34%	-20%	-6%	8%	22%	36%	49%	63%		
	15.00	-50%	-37%	-24%	-11%	2%	15%	28%	40%	53%		
	14.00	-53%	-41%	-29%	-17%	-5%	7%	19%	32%	44%		
	13.00	-56%	-45%	-34%	-22%	-11%	0%	11%	23%	34%		
	12.00	-59%	-49%	-38%	-28%	-17%	-7%	3%	14%	24%		
	11.00	-62%	-52%	-43%	-33%	-24%	-14%	-5%	5%	14%		
	10.00	-65%	-56%	-47%	-39%	-30%	-22%	-13%	-4%	4%		

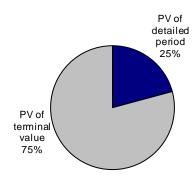
Source: Erste Group Research

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WACC calculation						Term. value
	2021e	2022e	2023e	2024e	2025e	Normalized
Risk free rate	2.0%	2.0%	2.0%	2.0%	2.0%	4.0%
Equity risk premium	6.0%	6.0%	6.0%	6.0%	6.0%	5.0%
Beta	1.0	1.0	1.0	1.0	1.0	1.0
Cost of equity	8.0%	8.0%	8.0%	8.0%	8.0%	9.0%
Cost of debt	4.0%	4.0%	4.0%	4.0%	4.0%	6.0%
Nominal tax rate	19.0%	19.0%	19.0%	19.0%	19.0%	19.0%
After-tax cost of debt	3.2%	3.2%	3.2%	3.2%	3.2%	4.9%
Equity w eight	100%	100%	100%	100%	100%	100.0%
WACC	8.0%	8.0%	8.0%	8.0%	8.0%	9.0%
DCF valuation						
(PLN mn)	2021e	2022e	2023e	2024e	2025e	Normalized
Sales growth	-26.5%	27.9%	232.6%	28.7%	-39.0%	3.0%
ЕВІТ	19.5	22.8	122.8	146.7	62.2	88.4
EBIT margin	30.3%	27.8%	44.9%	41.7%	29.0%	40.0%
Effective tax rate	8.2%	10.4%	8.8%	8.4%	9.0%	10.0%
Taxes on EBIT	-1.6	-2.4	-10.8	-12.4	-5.6	-8.8
NOPLAT	17.9	20.5	112.0	134.4	56.6	79.6
+ Depreciation	10.3	11.5	53.0	83.1	54.7	55.0
Capital expenditures / Depreciation	427.6%	495.9%	94.3%	45.7%	87.7%	100.0%
+/- Change in w orking capital	-0.5	-0.6	-6.8	-2.8	4.9	0.1
Chg. working capital / chg. Sales	2.1%	-3.6%	-3.6%	-3.6%	-3.6%	1.0%
- Capital expenditures	-44.0	-57.0	-50.0	-38.0	-48.0	-55.0
Free cash flow to the firm	-16.3	-25.7	108.2	176.7	68.2	79.6
Adjusted free cash flow to the firm	55.7	58.8	62.0	65.5	69.1	71.2
Terminal value growth						3.0%
Terminal value						1 293.8
Discounted free cash flow - Dec 31 2020	51.6	50.4	49.3	48.1	47.1	880.6
Enterprise value - Dec 31 2020	1 127.0					
Minorities	0.0					
Non-operating assets	0.0					
Net debt	-85.3					
Other adjustments	0.0					
Equity value - Dec 31 2020	1 212.3					
Number of shares outstanding (mn)	2.4					
Cost of equity	8.0%					
12M target price per share (PLN)	574.6					
Current share price (PLN)	489.6					
Up/Downside	17.4%					

Enterprise value breakdown

Adjusted DCF calculation method



2021e	2022e	2023e	2024e	2025e	
-16.3	-25.7	108.2	176.7	68.2	FCFF
				311.2	Sum of FCFF
				0.00	Check
55.7	58.8	62.0	65.5	69.1	Adjusted FCFF
				311.2	Sum of FCFF
	3%	3%	3%	3%	growth rate

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Income Statement	2018	2019	2020	2021e	2022e	2023e
(IAS, PLN mn, 31/12)	31/12/2018	31/12/2019	31/12/2020	31/12/2021	31/12/2022	31/12/2023
Net sales	82.78	71.68	87.43	64.27	82.18	273.35
Invent. changes + capitalized costs	0.00	0.00	0.00	0.00	0.00	0.00
Total revenues	82.78	71.68	87.43	64.27	82.18	273.35
Other operating revenues	0.00	0.00	0.00	0.00	0.00	0.00
Material costs	-16.75	-26.83	-26.22	-19.07	-31.25	-74.15
Personnel costs	-12.97	-12.29	-6.85	-13.13	-14.30	-20.52
Other operating expenses	-1.63	-2.26	-3.30	-2.30	-2.30	-2.80
EBITDA	51.44	30.29	51.06	29.77	34.33	175.88
Depreciation/amortization	-4.49	-6.42	-10.27	-10.29	-11.49	-53.04
EBIT	46.95	23.87	40.79	19.48	22.83	122.83
Financial result	1.16	1.16	-0.14	0.56	0.47	0.30
Extraordinary result	0.00	0.00	0.00	0.00	0.00	0.00
EBT	48.11	25.03	40.65	20.04 -1.64	23.31 -2.43	123.13 -10.84
Income taxes	-10.56	-3.32 0.00	-3.29			
Result from discontinued operations Minorities and cost of hybrid capital	0.00 0.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00
Net result after minorities	37.55	21.71	37.36	18.39	20.88	112.28
Net result after inmortues						
Balance Sheet	2018	2019	2020	2021e	2022e	2023e
(IAS, PLN mn, 31/12)						
Intangible assets	17.14	24.87	41.86	74.92	119.80	116.16
Tangible assets	18.73	24.04	26.89	27.55	28.17	28.76
Financial assets	0.35	0.90	1.65	1.65	1.65	1.65
Total fixed assets	36.22	49.82	70.40	104.11	149.61	146.57
Inventories	0.00	0.00	0.00	0.00	0.00	0.00
Receivables and other current assets	16.70	23.64	19.81	17.01	19.46	45.65
Other assets	0.00	0.00	0.00	0.00	0.00	0.00
Cash and cash equivalents	56.34	82.21	96.13	82.14	60.03	171.71
Total current assets	73.04	105.85	115.94	99.15	79.50	217.37
TOTAL ASSETS	109.26	155.67	186.34	203.26	229.11	363.93
Shareholders'equity	89.91	119.74	164.65	187.20	212.24	328.68
Minorities	0.00	0.00	0.00	0.00	0.00	0.00
Hybrid capital and other reserves	0.00	0.00	0.00	0.00	0.00	0.00
Pension and other LT personnel accruals	0.00 0.00	0.00	0.00	0.00	0.00	0.00
LT provisions		0.00	0.00	0.00 8.50	0.00	0.00
Interest-bearing LT debts Other LT liabilities	11.34	10.43	9.50		7.50	6.50
Total long-term liabilities	0.68 12.02	0.83 11.26	0.97 10.47	0.97 9.47	0.97 8.47	0.97 7.47
Interest-bearing ST debts	1.45	1.30	1.36	0.00	0.00	0.00
Other ST liabilities	5.88	23.36	9.86	6.59	8.40	27.78
Total short-term liabilities	7.33	24.67	11.22	6.59	8.40	27.78
TOTAL LIAB. , EQUITY	109.26	155.67	186.34	203.26	229.11	363.93
Cash Flow Statement	2018	2019	2020	2021e	2022e	2023e
(IAS,PLN mn, 31/12)						
Cash flow from operating activities	39.05	41.64	37.66	32.37	35.89	162.68
Cash flow from investing activities	-55.57	-49.34	-34.42	-44.00	-57.00	-50.00
Cash flow from financing activities	12.60	-1.67	6.01	-2.36	-1.00	-1.00
CHANGE IN CASH , CASH EQU.	-3.93	-9.37	9.25	-13.99	-22.11	111.68
Margins & Ratios	2018	2019	2020	2021e	2022e	2023e
Sales growth	324.6%	-13.4%	22.0%	-26.5%	27.9%	232.6%
EBITDA margin	62.1%	42.3%	58.4%	46.3%	41.8%	64.3%
EBIT margin	56.7%	33.3%	46.7%	30.3%	27.8%	44.9%
Net profit margin	45.4%	30.3%	42.7%	28.6%	25.4%	41.1%
ROE	55.2%	20.7%	26.3%	10.5%	10.5%	41.5%
ROCE	116.7%	42.6%	57.5%	18.4%	14.9%	68.9%
Equity ratio	82.3%	76.9%	88.4%	92.1%	92.6%	90.3%
Net debt	-43.6	-70.5	-85.3	-73.6	-52.5	-165.2
Working capital	65.7	81.2	104.7	92.6	71.1	189.6
Capital employed	47.0	50.1	80.3	114.5	160.7	164.4
Inventory turnover	nm	nm	nm	nm	nm	nm
Source: Company data Erste Group estimates						

Source: Company data, Erste Group estimates