

Atende

A year of rebuilding profitability - test for management

We are upgrading our recommendation to **HOLD** (previously: **SELL**) with a 12-month target price of **PLN 3.1** (previously **PLN 2.3**).

- **Atende S.A. reported 4Q'24 cons. revenue of PLN 132mn vs. 96mn of our assumptions (+27% y/y).** The largest sales were to the public sector (PLN 62mn, +82% y/y). The second largest in terms of sales was the industrial sector, where sales increased to PLN 26mn from PLN 12mn a year earlier. Once again, sales to the TMT sector showed weakness (-7% y/y, PLN 23mn). The largest y/y decline was in sales to the energy sector, which fell to PLN 5mn vs. 24mn a year earlier.
- **Consolidated gross profit margin was at the level of 2% vs. 21% a year earlier.** The y/y decline was due in part to the continued negative A2CC contribution from the PGE contract. SG&A expenses increased 3% y/y to PLN 15mn vs. PLN 17mn of our assumptions.
- **Management expects '25e to bring further revenue growth** (Atende Industries increased revenue in '24 to PLN 10mn vs. PLN 7mn a year earlier, and Phoenix Systems to PLN 8mn vs. PLN 5mn) **and improved financial performance of its subsidiaries**, particularly through the implementation of key R&D and implementation projects.
- **After a better-than-expected '24 sales year, we are raising our '25 revenue forecast to PLN 365m (+4% y/y) vs. PLN 327m previously. We continue to assume an improvement in the y/y EBIT margin given the planned completion of the first stage of work on the PGE contract to 1.5%.** At the same time, we assume that subsequent years will see a further recovery in profitability given the larger share of proprietary services in the group's portfolio (targeting 3.2% in 27e).

Key financial information

PLN mn	2022	2023	2024	2025e	2026e	2027e	2028e
Revenues	225.6	328.1	352.3	364.8	375.4	386.0	396.4
EBITDA	12.9	22.4	-0.7	17.9	19.4	21.2	21.0
EBIT	3.0	11.8	-12.0	5.5	9.4	12.4	12.7
Net income	1.8	7.4	-12.0	3.0	6.1	8.5	8.8
EPS	0.0	0.2	-0.3	0.1	0.2	0.2	0.2
DPS	0.0	0.0	0.1	0.1	0.1	0.2	0.2
DY	0.0	0.0	5.2%	4.0%	5.0%	6.1%	7.1%
P/E	53.8	13.1	neg.	33.0	15.9	11.4	11.1
EV/EBITDA	7.3	3.8	neg.	4.3	4.3	3.8	3.8

Source: Atende ('22-'24), Pekao Equity Research

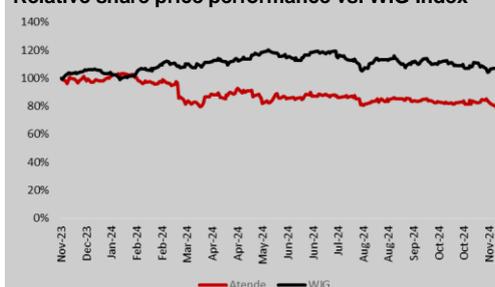
HOLD (prev. SELL)

Target price **PLN 3.1**

Upside to TP **14.3%**
 Price on 4 April 2025 **PLN 2.68**

ESG Rating **C**
ESG Score **0.69**

Relative share price performance vs. WIG Index



UPCOMING EVENTS

1Q'24e results	14.05.25
1HY'24e results	16.09.25
3Q'24e results	13.11.25

STOCK DATA

Bloomberg	ATD PW
Free float (%)	45.0
Market cap (PLNmn)	95.6
No. of shares	36.3

Shareholders	Spinoza Family Foundation 32.9%
	Piotr Nadolski 12.3%
	OFE PKO BP Bankowy 10.0%

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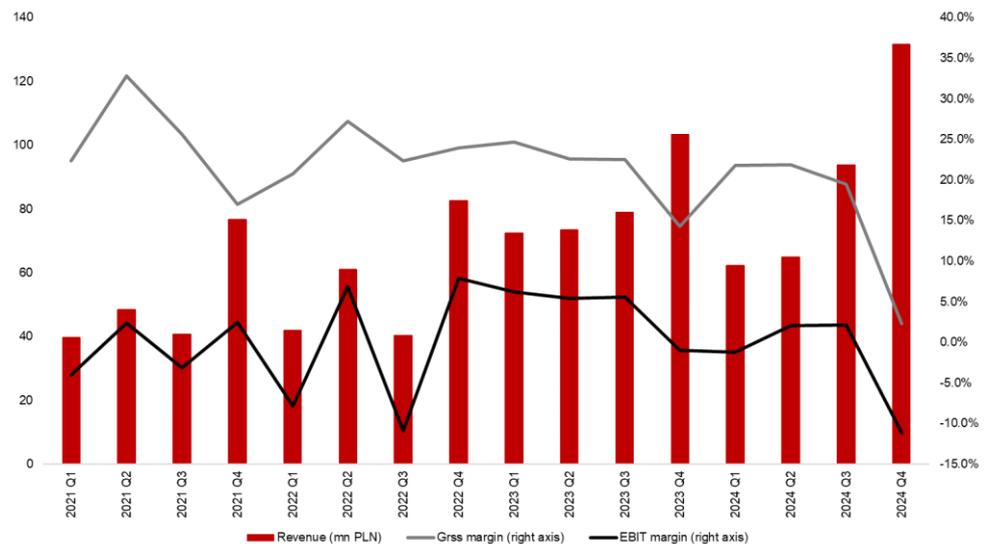
Recent developments

4Q'24 results

Atende S.A. Group reported Q4 revenue of PLN 132mn vs. 96mn of our assumptions (+27% y/y). The largest sales were to the public sector (PLN 62mn, +82% y/y). The second largest sector in terms of sales was the industrial sector, where sales increased to PLN 26mn from PLN 12mn a year earlier. Once again, sales to the TMT sector showed weakness (-7% y-o-y, PLN 23mn). The largest y/y decline was in sales to the energy sector, which fell to PLN 5mn vs. 24mn a year earlier.

The consolidated gross profit margin was 2% vs. 21% a year earlier. The y/y decline was due to, among other things, the continued negative A2CC contribution from the PGE contract. General and administrative expenses increased 3% y-o-y to PLN 15mn vs. PLN 17mn of our assumptions.

Consolidated OCF was PLN +51mn vs. +14mn a year earlier, due to positive changes in working capital (mainly positive delta of liabilities) = PLN +47mn. FCF = PLN 50mn vs. 12mn a year earlier.



Source: Atende, Pekao Equity Research

Contract in the public sector

On 4.02.25, a contract was signed between Atende S.A. and a public sector client for the delivery of products and services from leading global manufacturers. The contract includes the delivery of: hardware, licences, software, as well as their implementation and provision of technical support for a period of 60 months. The contract is for guaranteed and optional orders. The total value of guaranteed orders amounts to PLN 34.43 million gross.



Status of the contract with PGE

21.03.25 a pilot billing and CRM system was launched at two locations in a contract implemented for PGE Obrót S.A. and PGE Dystrybucja S.A.

Valuation

Valuation method

Our valuation is based 100% on the DCF method, and a comparative valuation is presented for informational purposes only (0% weighting). We also decided to mark to market minority interests in Omnichip and Phoenix Systems, whose profile is different in nature from the group's core business.

Atende: Summary

Method	Price (PLN)	Weight (%)
12M DCF method	3.06	100%
12M peers valuation	4.78	0%
12M cena docelowa	3.06	
Current price	2.68	
Upside/downside (%)	14.3%	

Source: Pekao Equity Research.

Peers valuation

Company name	Ticker	P/S			EV/EBITDA			P/E		
		2025e	2026e	2027e	2025e	2026e	2027e	2025e	2026e	2027e
Capgemini SE	CAP FP Equit	1.0	0.9	0.9	7.1	6.8	6.5	11.2	10.4	9.5
Tieto OYJ	TIETO NO Equ	0.7	0.7	0.7	6.6	6.4	6.1	8.4	7.9	7.7
Sopra Steria Group	SOP FP Equit	0.6	0.6	0.5	5.9	5.6	5.4	9.3	8.5	7.9
Computacenter PLC	CCC LN Equit	0.3	0.3	0.3	6.1	5.7	5.2	13.0	12.0	10.9
Accenture PLC	ACN US Equit	2.7	2.6	2.4	14.1	13.2	12.2	23.4	21.8	19.9
Asseco Poland	ACP PW Equi	0.7	0.6	0.6	6.4	6.2	5.8	20.7	18.6	12.9
Asseco BS	ABS PW Equi	5.0	4.6	4.2	13.3	12.0	11.1	19.4	16.9	16.0
Cognizant	CTSH US Equ	1.7	1.6	1.5	9.0	8.6	7.9	14.4	13.4	12.3
Mediana		0.8	0.8	0.8	6.9	6.6	6.3	13.7	12.7	11.6
Atende		0.3	0.3	0.3	4.3	4.3	3.8	33.0	15.9	11.4
Premium/discount		210%	214%	212%	58%	53%	65%	-59%	-20%	2%
Implied value PLN		8.31	8.41	8.37	3.93	3.90	4.12	1.11	2.13	2.72

Source: Bloomberg, Pekao Equity Research

Shares in Omnichip

Our assumptions for the company's valuations:

PLN mn	2025e	2026e	2027e
Revenues	6.0	6.6	7.3
EBITDA	2.1	2.3	2.5
EBIT	1.7	1.9	2.1
Net income	1.4	1.5	1.7
Net debt	-2.5	-2.5	-2.5

Source: Pekao Equity Research

Peers valuation

Company	Krótki opis spółki	Ticker	P/S			EV/EBITDA			P/E		
			2025e	2026e	2027e	2025e	2026e	2027e	2025e	2026e	2027e
Realtek Semiconductor Corp	IC designer, tester and distributor	2379 TT Equit	2.1	1.9	1.6	11.5	10.2	8.7	15.7	13.9	12.1
Mediatek Inc	R&D, semiconductor manufacturing and sales	2454 TT Equit	3.8	3.2	2.9	15.7	12.5	10.5	19.8	16.6	13.5
AT&S	Manufacturer of PCBs and substrates for semiconductors	ATS AV Equit	0.3	0.2	0.2	8.2	5.3	4.5	1.6	#N/A	#N/A
Synopsys Inc	IP and software for chip manufacturing	SNPS US Eq	9.1	8.1	7.1	20.5	17.7	15.4	26.8	23.4	20.2
Cadence Design Systems Inc	IP, software, hardware for chip manufacturing	CDNS US Eq	12.6	11.2	10.0	27.0	23.8	20.7	35.5	30.8	27.1
Median			3.8	3.2	2.9	15.7	12.5	10.5	19.8	20.0	16.8
Omnichip (value mnPLN)			22.4	21.1	21.4	35.7	31.2	28.7	27.5	30.8	28.7
ATD share			55%	55%	55%	55%	55%	55%	55%	55%	55%
Omnichip - ATD share (mnPLN)			12.33	11.63	11.75	19.62	17.17	15.80	15.12	16.95	15.81
Omnichip - minorities ATD (mnPLN)			10.09	9.52	9.61	16.05	14.05	12.93	12.37	13.87	12.94
Omnichip - minorities (mnPLN)						12.4					

Source: Bloomberg, Pekao Equity Research

Shares in Phoenix Systems

Our assumptions for the company's valuations:

PLN mn	2025e	2026e	2027e
Revenues	5.7	6.1	6.4
EBITDA	1.8	1.9	2.0
EBIT	1.5	1.6	1.7
Net income	1.3	1.4	1.5
Net debt	0.4	0.4	0.4

Source: Pekao Equity Research

Peers valuation

Company	Description	Ticker	P/S			EV/EBITDA			P/E		
			2025e	2026e	2027e	2025e	2026e	2027e	2025e	2026e	2027e
Kontron AG	IoT solutions for business	KTN GY Equit	0.7	0.7	0.6	7.2	6.5	5.8	11.2	9.6	8.9
Cancom SE	IoT solutions for business	COK GR Equit	0.4	0.4	0.4	6.6	6.0	5.7	17.8	14.9	13.2
Seco SPA	IoT systems and solutions for various industries	IOT IM Equity	1.1	1.0	0.9	7.6	6.3	5.5	31.0	17.4	12.5
Alarm.com	Provides IoT solutions (i.a. home)	ALRM US Eq	2.6	2.5	2.4	12.2	11.2	10.1	22.3	21.0	23.4
Johnson Controls PLC	Provides IoT solutions (min. smart building)	JCI US Equity	2.1	2.0	1.9	15.6	14.0	12.9	21.0	18.0	15.6
Median total			1.1	1.0	0.9	7.6	6.5	5.8	21.0	17.4	13.2
Omnichip (value mnPLN)			7.2	6.8	6.6	15.2	13.3	12.4	29.8	27.1	21.9
ATD share			51%	51%	51%	51%	51%	51%	51%	51%	51%
Phoenix Systems - ATD share (mnPLN)			3.68	3.47	3.34	7.77	6.76	6.35	15.21	13.82	11.15
Phoenix Systems - minorities ATD (mnPLN)			3.54	3.34	3.21	7.46	6.50	6.10	14.61	13.28	10.72
Phoenix Systems - minorities (mnPLN)						7.64					

Source: Bloomberg, Pekao Equity Research



The key assumptions incorporated in our DCF valuation model are as follows:

- Risk-free rate of 5.8% from 2025-30e and 4.0% in the residual period.
- Capital risk premium of 6.0% from 2025-30e and 5.0% in the residual period.
- Beta ratio of 1.0.
- A credit margin of 2.5%.
- An effective income tax rate of 19.0%.
- Residual EBIT margin as an average over the forecast period.
- Dynamic weighting of equity and debt capital in the calculation of the weighted cost of capital (WACC).
- Non-controlling interests based on market valuation of Omnichip and Phoenix Systems.
- Residual period growth rate of 2.0% - taking into account the capital reinvestment rate.

Rating ESG

TMT	E	S	G
Score	0.26	0.60	1.00
Sector weight	20%	40%	40%
Final ESG Score	0.69		
ESG Rating	C		

	score from:	to	Rating	WACC risk premium impact (% of RFR)
ESG Score	1.5	2	A	-15.00%
	1	1.5	B	-7.50%
	0.5	1	C	0%
	0	0.5	D	15.00%

WACC calculation

	2025e	2026e	2027e	2028e	2029e	2030e	Terminal Year
Risk free rate	5.8%	5.8%	5.8%	5.8%	5.8%	5.8%	4.0%
Equity risk premium	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	5.0%
ESG discount/premium	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Beta	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Cost of equity	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	9.0%
Cost of debt	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	6.5%
After-tax cost of debt	6.7%	6.7%	6.7%	6.7%	6.7%	6.7%	5.3%
Equity weight	81%	81%	81%	81%	81%	81%	81%
WACC	10.9%	10.9%	10.9%	10.9%	10.9%	10.9%	8.3%

DCF valuation

(PLN mn)	2025e	2026e	2027e	2028e	2029e	2030e	Terminal Year
Revenues	365	375	386	396	407	417	425
EBIT	5.5	9.4	12.4	12.7	13.1	13.4	12.0
Taxes on EBIT	-1.0	-1.8	-2.4	-2.4	-2.5	-2.5	-2.3
NOPAT	4.5	7.6	10.0	10.3	10.6	10.9	9.7
Depreciation and assets write-offs	12.4	9.9	8.8	8.3	8.1	8.1	8.1
Change in NWC	-23.5	-9.2	-1.0	-1.0	-1.0	-0.9	-0.9
Capital expenditures	-7.3	-7.5	-7.7	-7.9	-8.1	-8.3	-9.3
FCFF	-13.9	0.9	10.1	9.7	9.6	9.7	7.6
<i>Terminal value growth</i>							2.0%
Terminal value							122.7
<i>Discount factor</i>	0.90	0.81	0.73	0.66	0.60	0.54	0.50
Discounted free cash flow	-12.5	0.7	7.4	6.4	5.7	5.2	64.7
Enterprise value	77.7						
Minorities (market value)	20.0						
Net debt (31.12.24)	-38.9						
Other adjustments	0.0						
Equity value	96.6						
Number of shares (mn)	36.3						
12M target price per share (PLN)	3.06						
Share price as of 4.04.25 (PLN)	2.68						
<i>Upside/Downside vs. current price</i>	14.3%						

Revenues growth	4%	3%	3%	3%	3%	3%	2.0%
EBIT margin	1.5%	2.5%	3.2%	3.2%	3.2%	3.2%	2.8%
Tax rate	19.0%	19.0%	19.0%	19.0%	19.0%	19.0%	19.0%
Capex/revenues	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.2%
Capex/depreciation	58.8%	75.5%	88.0%	95.9%	100.4%	102.7%	114.1%

Sensitivity of 12M target price per share to Terminal value growth & WACC

Terminal value growth/WACC	0.5%	1.0%	1.5%	2.0%	2.5%	3.0%	3.5%
6.3%	3.2	3.5	3.7	4.0	4.4	4.9	5.6
7.3%	2.9	3.1	3.2	3.5	3.7	4.0	4.4
8.3%	2.7	2.8	2.9	3.1	3.2	3.5	3.7
9.3%	2.5	2.6	2.7	2.8	2.9	3.1	3.2
10.3%	2.3	2.4	2.5	2.6	2.7	2.8	2.9

Sensitivity of 12M target price per share to key drivers' of company earnings

TV EBIT margin/WACC in Terminal Year	1.5%	2.0%	2.5%	2.8%	3.0%	3.5%	4.0%
6.3%	3.0	3.3	3.7	4.0	4.2	4.6	5.1
7.3%	2.5	2.8	3.2	3.4	3.6	4.0	4.4
8.3%	2.2	2.5	2.8	3.1	3.2	3.5	3.9
9.3%	1.9	2.3	2.6	2.8	2.9	3.2	3.5
10.3%	1.8	2.1	2.4	2.6	2.7	3.0	3.2

Source: Pekao Equity Research



Risk factors

Economic environment risk. The company's business is dependent on the condition of the domestic and global economies, which affects the financial results and the amount of IT budgets of companies. Increase in economic uncertainty may also affect the amount of IT investments.

Currency risk. The Group imports IT equipment that is settled in foreign currencies (mainly EUR and USD), which implies currency risk. To mitigate the risk, the Company uses hedging instruments at a level of at least 90.0% of foreign currency transactions.

Risk of losing key employees. The company's operations include, among others, IT specialists, which means that their loss could expose the company to the risk of delays in the execution of contracts and the acquisition of new ones.

Delivery delays. The Group's business is based on IT equipment through which it is exposed to the risk of delays, loss of contracts and problems with acquiring new ones in the situation of disruptions in supply chains.

Competition risk. The Group operates in a highly fragmented market for ICT services, which may adversely affect financial performance and force continuous innovation.

Risk of losing a key customer and concentration of orders. The group sells services to large entities and public customers. In 2023, the share of two customers exceeded 10% of the parent company Atende's sales revenue. Revenues from a public sector client amounted to PLN 40.6 million, representing a 14% share of the Company's sales. Revenues from a telecommunications customer amounted to PLN 37.5 million, representing a 12.9% share of the Company's sales.

Risks associated with operations with defense customers. The Group sells a portion of its services, where the requirement is to have clearance to access classified information with the highest clauses. Loss of such clearances could expose the company to loss of customers and revenue from this area.

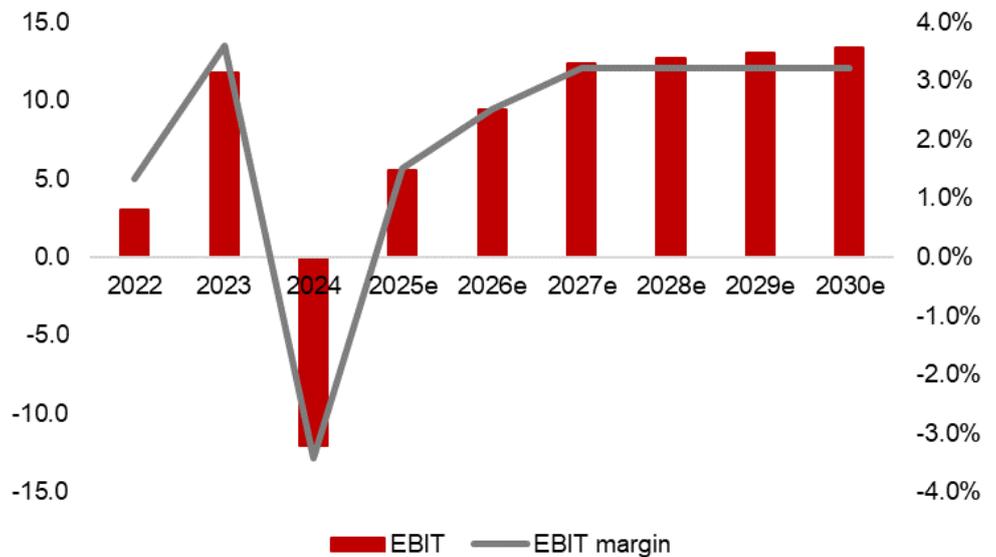
Risks associated with winning new contracts. The Group operates in a sector where the majority of contracts are awarded through tenders and competitive pricing pressures can result in loss of orders and have a negative impact on margins.

Cyber security risks. In the event of an IT security incident and data leakage, the group is exposed to compensation and reputational risks, which could lead to the loss of customers and a claim in this respect.



Update of forecasts

After a better-than-expected '24 sales year, we are raising our '25 revenue forecast to PLN 365m (+4% y/y) vs. PLN 327m previously. We continue to assume an improvement in the y/y EBIT margin given the planned completion of the first stage of work on the contract with PGE to 1.5%. At the same time, we assume that subsequent forecast periods will see a further recovery in profitability given the larger share of proprietary services in the group's portfolio (targeting 3.2% in '27e).



Source: Pekao Equity Research

A summary of the changes to our forecasts vs. the initiating report is presented in the table below:

	2025e			2026e			2027e		
	Earlier	Now	change	Earlier	Now	change	Earlier	Now	change
Revenues	326.8	364.8	11.6%	340.2	375.4	10.3%	354.1	386.0	9.0%
EBITDA	15.9	17.9	12.7%	17.1	19.4	13.3%	20.3	21.2	4.3%
EBIT	4.8	5.5	15.0%	7.4	9.4	27.5%	11.2	12.4	10.8%
Net income	2.2	2.9	33.7%	4.1	6.1	49.1%	7.0	8.5	21.7%

Source: Pekao Equity Research



P&L (PLN mn)	2022	2023	2024	2025e	2026e	2027e	2028e
Revenues	226	328	352	365	375	386	396
Gross Profit	54	67	49	68	76	81	83
Other Operating Income/Cost	-51	-55	-61	-63	-66	-68	-70
EBITDA	13	22	-1	18	19	21	21
EBIT	3	12	-12	6	9	12	13
Financial Income/(Cost)	-1	-1	-2	-2	-2	-2	-2
Pretax Profit	-1	2	-14	4	8	11	11
Income Tax	0	-1	2	-1	-1	-2	-2
Net Income	2	7	-12	3	6	9	9
EPS (PLN)	0.0	0.2	-0.3	0.1	0.2	0.2	0.2
Balance Sheet (PLN mn)	2022	2023	2024	2025e	2026e	2027e	2028e
Total Current Assets	109	153	181	184	185	192	196
Cash and Equivalents	17	34	61	46	37	40	41
Other Current Assets	91	119	120	138	148	152	155
Total Fixed Assets	55	65	70	65	63	62	61
Tangible Assets	24	23	26	21	18	17	17
Other Fixed Assets	31	41	45	45	45	45	45
Total Assets	164	218	251	249	248	253	258
Stockholders' Equity	75	82	65	64	66	68	70
Long Term Liabilities	13	25	29	29	29	29	29
Long -Term Debt	4	7	13	13	13	13	13
Other Long - Term liabilities	9	18	16	16	16	16	16
Short Term Liabilities	76	110	157	155	153	156	158
Short -Term Debt	10	15	9	9	9	9	9
Other Current Liabilities	66	96	148	146	144	147	149
Total Equity & Liabilities	164	218	251	249	248	253	258
Net debt	-3	-12	-39	-23	-15	-18	-19
Cash Flow (PLN m)	2022	2023	2024	2025e	2026e	2027e	2028e
Net Profit	2	7	-12	3	6	9	9
Depreciation and Amortisation	10	11	11	12	10	9	8
Other (incl. WC)	3	5	45	-16	-8	3	3
Operating Cash Flows	15	23	45	0	8	20	20
Capital Expenditures	-6	-8	-6	-7	-8	-8	-8
Other	0	-1	0	0	0	0	0
Cash Flows from Investing Activities	-6	-8	-6	-7	-8	-8	-8
Dividends paid	0	0	-5	-4	-5	-6	-7
Other	-2	3	-7	-4	-4	-4	-4
Cash Flows from Financing Activities	-2	3	-12	-8	-9	-10	-11
Change in Cash	8	17	27	-16	-8	3	1
Cash at the end of period	17	34	61	46	37	40	41
DPS (PLN)	0.0	0.0	0.1	0.1	0.1	0.2	0.2
Y/Y growth ratios							
Revenues	10%	45%	7%	4%	3%	3%	3%
EBITDA	30%	74%	-103%	-2522%	8%	9%	-1%
EBIT	1928%	293%	-202%	-146%	71%	31%	3%
Net profit	-249%	310%	-262%	-125%	108%	39%	3%
EPS	-249%	310%	-262%	-125%	108%	39%	3%
Margins							
EBITDA	5.7%	6.8%	-0.2%	4.9%	5.2%	5.5%	5.3%
EBIT Margin	1.3%	3.6%	-3.4%	1.5%	2.5%	3.2%	3.2%
Net Margin	0.8%	2.3%	-3.4%	0.8%	1.6%	2.2%	2.2%
ROE	2.4%	9.0%	-18.4%	4.6%	9.3%	12.5%	12.5%
Balance Sheet Ratios							
BVPS (PLN)	2.1	2.3	1.8	1.8	1.8	1.9	1.9
Net debt/EBITDA	-0.2	-0.5	52.6	-1.3	-0.8	-0.8	-0.9
Bank Debt/Equity	18.9%	26.8%	34.4%	34.9%	34.3%	33.0%	32.1%

Source: Pekao Equity Research



Key financial data

Tabela wskaźnikowa (PLN)	2022	2023	2024	2025e	2026e	2027e	2028e	2029e	2030e
EPS, GAAP	0.0	0.2	-0.3	0.1	0.2	0.2	0.2	0.2	0.3
Revenue	226	328	352	365	375	386	396	407	417
Gross Margin %	24.0%	20.4%	13.9%	18.7%	20.2%	20.9%	20.9%	20.9%	20.9%
EBIT	3.0	11.8	-12.0	5.5	9.4	12.4	12.7	13.1	13.4
EBITDA	12.9	22.4	-0.7	17.9	19.4	21.2	21.0	21.2	21.5
Net Income, GAAP	1.8	7.4	-12.0	2.9	6.1	8.5	8.8	9.1	9.3
Net Debt	-3	-12	-39	-23	-15	-18	-19	-19	-18
BPS	2.07	2.27	1.80	1.77	1.80	1.88	1.93	1.96	1.97
DPS	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Return on Equity %	2.4%	9.0%	-18.4%	4.6%	9.3%	12.5%	12.5%	12.7%	13.0%
Return on Assets %	1.1%	3.4%	-4.8%	1.2%	2.5%	3.4%	3.4%	3.5%	3.5%
Depreciation	10	11	11	12	10	9	8	8	8
Amortization	0	0	0	0	0	0	0	0	0
Free Cash Flow	9	15	39	-8	0	13	12	12	12
CAPEX	-6	-8	-6	-7	-8	-8	-8	-8	-8

Source: Atende (22-24), Pekao Equity Research

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Analyst	Position	Financial instrument	Number of instruments	Exposure (long/short)	Average transactions price	Transactions dates
Lukas Cinikas	Analyst	Atende	n.a.	n.a.	n.a.	n.a.

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METHODS USED TO FORMULATE OUR RECOMMENDATIONS:

Our company valuations are based on two valuation methods selected from among the following: discount model, multiples-based model or asset-based valuation method.

Discount models are characterized by simultaneous and comprehensive consideration of key determinants of intrinsic value, e.g. operating cash flow, capex, cost of capital (WACC). They are theoretically appealing and provide a direct computation of intrinsic value. However, discount model valuations are highly sensitive to changes in assumptions, particularly the risk free rate and terminal growth rate. Moreover, projections cannot be stated with certainty; unforeseen future events can cause income or earnings projections to be invalid.

Multiples-based models are based on the analysis of the valuation multipliers of a given company in relation to other similar companies in the industry. Among strengths of multiplier models we can highlight their simplicity, as they are easy to compute as well as to understand. Moreover, only the key statistics for investors are chosen for valuation. On the other hand, multiples are based on historic data or near-term forecasts. Valuations based on multiples will therefore fail to capture differences in projected performance over the longer term. Finally, it may be problematic to select a suitable peer group.

Asset-based models can be used even if a company has a brief record of earnings or its future existence is uncertain. However, it may be challenging to determine market value of some assets, particularly intangibles. Additionally, asset-based models do not take into account future changes in financial results, nor do they include non-balance sheet items, such as know-how.

Valuation models are dependent on macroeconomic factors, such as interest rates, exchange rates, raw materials, and on assumptions about the economy. Furthermore, market sentiment affects the valuation of companies. The valuation is also based on expectations that might change rapidly and without notice, depending on developments specific to individual industries. Our recommendations and target prices derived from the models might therefore change accordingly.

The investment ratings generally relate to a 12-month horizon. They are, however, also subject to market conditions and can only represent a snapshot. The ratings may in fact be achieved more quickly or slowly than expected, or need to be revised upward or downward. In the tables and charts throughout this report, we designate the years with an "E" to denote that the figures presented are forecasts and estimates.

Definition of ratings used in our publications:

We currently use a three-tier recommendation system for the stocks in our formal coverage: Buy, Hold, or Sell (see definitions below):

A **Buy** is applied when the expected total return over the next twelve months is higher than 15%.

A **Hold** is applied when the expected total return over the next twelve months is within the range of 0% to 15%.

A **Sell** is applied when the stock's expected total return over the next twelve months is negative.

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Coverage in transition: Due to changes in the research team, the disclosure of a stock's rating and/or target price and/or financial information are temporarily suspended. The stock remains in the research universe and disclosures of relevant information will be resumed in due course.

Under review: A rating and/or financial forecasts and/or target price is at the moment under revision of an analyst and the previous rating and/or financial forecasts and/or target price should not be relied on.

Not rated: We do not issue company-specific recommendations and we do not plan to issue them in the foreseeable future.

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P/E – „Price/Earnings” is the ratio of the financial instrument price to the net financial result for the issuer of the financial instrument.

P/B – „Price/Book Value” is the ratio of the price of the financial instrument to the issuer's equity capital.

EPS – „Earnings per Share”, i.e. net profit per share.

BVPS – „Book Value per Share”.

FWD – „Forward” - stands for the ratio (eg. P/E) calculated on the basis of the expected results.

DPS – „Dividend per Share”.

DY – „Dividend Yield”, a ratio calculated as dividends per share divided by the current share price.

EBIT – „Earnings Before Interest and Taxes”.

EBITDA - „Enterprise Value / Earnings Before Interest, Taxes, Depreciation and Amortization”.

EV/EBITDA – “Enterprise Value / Earnings Before Interest, Taxes, Depreciation and Amortization” is the company's market capitalization (price x number of shares) increased by the value of net financial debt and the value of minority shareholders divided by the operating result increased by the value of the company's asset depreciation.

AGM – Annual General Meeting