

Thursday, January 23, 2020 | daily publication

Morning Comments

Equity Market, Poland

Research Department: Michał Marczak +48 22 438 24 01 Michał Konarski +48 22 438 24 05 Piotr Poniatowski +48 22 438 24 09

Kamil Kliszcz +48 22 438 24 02 Paweł Szpigiel +48 22 438 24 06

Jakub Szkopek +48 22 438 24 03 Aleksandra Szklarczyk +48 22 438 24 04 Mikołaj Lemańczyk +48 22 438 24 07 Piotr Bogusz +48 22 438 24 08

DJIA	29,186.3	-0.03% FTSE 100	7,571.9	-0.51% Copper (LME)	6,106.0	-0.88%
S&P 500	3,321.8	+0.03% WIG20	2,146.6	-0.53% Crude Oil (Brent)	62.17	-2.74%
NASDAQ	9,383.8	+0.14% BUX	44,597.1	+1.05% USD/PLN	3.8204	+0.09%
DAX	13,515.8	-0.30% PX	1,140.5	+0.92% EUR/PLN	4.2380	+0.19%
CA C 40	6,011.0	-0.58% PLBonds10	2.271	-0.018 EUR/USD	1.1093	+0.10%

Company & Sector News

Polish banks

Government will not help CHF-exposed banks

According to Bloomberg, Polish Prime Minister Mateusz Morawiecki said in Davos that provisions taken by Polish banks for legal risks linked to fx mortgages aren't "scary" and won't destabilize the country's financial industry. Moreover, government is not planning any help to resolve the situation and its ultimately up to Polish courts to determine if mortgage holders were subject to abusive clauses. PM underlined that the polish banking sector has strong Tier 1 ratios and decent profitability. Finally, PM said that he is not concerned about the spike in Polish inflation as that it's only temporary phenomenon. We find the news slightly negative. We believe that the provisions created in 4Q'19 are just a beginning and banks will continue to provision for next 7-10 years putting pressure on the whole sector profitability. In the result we expect some banks to trim its credit action to maintain its strong capital position. (M. Konarski, M. Lemańczyk)

Banks

Bankers lobbying at Davos to stop negative rates

According to FT, in a series of private meetings with the region's regulators and politicians at the World Economic Forum in Davos, Eurozone banks chief executives launched fresh lobbying push to convince policymakers of the dangers of long-term negative interest rates, warning they will hurt savers and pensioners while fueling price bubbles in riskier assets. Moreover, bank representatives have also been lobbying politicians in countries with budget surpluses - most notably Germany — to loosen fiscal policy in the hope that more public spending and tax cuts will boost growth and inflation, paving the way for the ECB to start raising rates. Larry Kudlow, the White House's top economic adviser, told a panel that Europe needed to cut taxes and regulation on business rather than keeping rates in negative territory. We don't expect negative rates in Eurozone to reverse soon whilst the situation in short term may get even worse. In a desperate move we expect banks to continue to pass negative rates on more clients. (M. Konarski, M. Lemańczyk)

Power utilities PGG failed to deliver financial targets

According to Parkiet daily own findings, Poland's biggest coal miner PGG netted PLN 200 mln in 9M of 2019, over 30% below its business plan, and also failed to meet production, sales and investment targets in the period. Coal imports by Polish power companies are one of the reasons behind worse performance of PGG, sector insiders say. To help PGG energy companies reportedly buy coal from its coal piles but if PGG's condition worsens further such support could prove insufficient. Meanwhile, PGG's management is negotiating 2020 wages' increase. Currently observed decline of global coal prices puts further pressure on the sector and increases the risk of additional restructuring costs in PGG owned by PGN, PGE, Enea, Energa and Węglokoks. (K. Kliszcz)

TIM Insiders go shopping Overweight - 2019-12-05 On Monday, 20 January insiders bought shares: TIM's CFO (Piotr Tokarczuk) ~10k at average PLN 11.03 each, and CEO' wife (Ewa Folta) also ~10k at average PLN 10.70 each. CFO's purchase was reported by the Company on Tuesday at 2 p.m., and the wife's on Wednesday at 5:30 p.m. (P. Poniatowski) Copper

Copper falls to a near 3-week low as virus death toll rises in China

Copper fell to a near three-week low on Wednesday as the rising death toll from the Wuhan virus outbreak deepened concerns over potential damage to economic growth and metals demand. Chinese authorities on Wednesday said the virus had claimed a total of nine lives with 440 confirmed cases and stepped up efforts to control the outbreak. For more information please visit https://tinyurl.com/vdrwcj8 (J. Szkopek)

Rubber	Coronavirus outbreak boosts rubber gloves and surgical shares FT pointed to the surge of Asian companies that make rubber gloves and other surgical equipment, that could benefit from higher demand for medical products. In the last days the outbreak of a deadly coronavirus in China boosted Asian gloves/medical supplies manufacturers, i.a.: Top Glove (TOPG MK) +13.0% since Friday closing, Kossan Rubber Industries (KRI MK) +10.5%, Supermax Corp (SUCB MK) +16.2%, and Shanghai-listed Zhende Medical (603301 CH) +37,2%. Positive news for Polish Mercator Medical (MCR PW). The FT story can be found at: <u>https://tinyurl.com/uowk5qf</u> (P. Poniatowski)
Steel	China steel futures slip on virus concerns, slow pre-holiday trade Shanghai steel futures extended losses in thin trading on Thursday ahead of a week-long Lunar New Year break on worries that a new coronavirus outbreak in the country would hit construction activity. For more information please visit <u>https://tinyurl.com/uhohigi</u> (J. Szkopek)
Develia	 The Company reveals its strategy objectives for 2020-21 The Supervisory Board of Develia approved the objectives adopted for the years 2020-2021. The adopted goals are as follows: Pre-sales target & new listings: 2,000-2,200 sold flats in 2020 and a putting 1,900-2,200 new premises up for sale. Handover targets: Develia expects to delivery to clients total ca. 2,900-3,300 apartments in 2020-2021, of which 1,000-1,100 in 2020. The handover target is achievable, although the upper limit is a bit ambitious in our view. At the end of 2019, Develia had about 2,900 apartments under construction (our estimates), which together with apartments completed & no-handed-over in 2019 (over 400 units) translates into 'handovers potential' of 3,300 homes in 2020-21. We note that a completion of ca. 25% flats is expected in Q4 2021, hence ultimately we would assume handovers at a level closer to the lower limit of the target (roughly 3,000 flats). Commercial segment: (a) Investment property disposal: Sale of Wola Retro building after its commercialization by the end of 2020 - Expected news. At the end of 2020 conference meeting the Board announced it plans to sell Wola Retro building after its commercialization and start seeking a buyer in mid-2020. (b) Sky Tower: Completion of the business model change for Sky Tower building to an office, service & entertainment facility by the end of 2020 and assessment of its investment potential - In line with the existing Company's plan. After rebuilding in Wrocław, Kolejowa Street in 2020 and other commercial brojects after 2020 at the rate of at least one new building per year - In line with information provided so far. (d) Change of the land purpose in Malin (a town close to Wroclaw) for commercial and residential use by the end of 2021. The balance sheet ratios: (a) Reduction of bond debt by at least PLN 60 million and refinancing of debt with instruments other than commercial bonds.<!--</th-->
11 it studios Buy – 2019-12-05 Target price: PLN 454.00	Frostpunk and game's add-ons still high on Steam Global Top Sellers Frostpunk, Frostpunk: Season Pass and Frostpunk: Game Of The Year remain high on the Steam Global Top Sellers list for another day in a row. Two days after the release of Frostpunk: The Last Autumn, it received 87% positive ratings based on 199 reviews. The successful release of Frostpunk's add-on should support the 11B results. (P. Bogusz)

Steam Global Top Sellers

2020-01-23	Company	Position	D/D	w/w	1-week	Price	D/D	w/w	1-week
Frostpunk	11 bit studios	12	-	+172	82	44	0%	-60%	70.40
Frostpunk: SP	11 bit studios	7	-2	-	62	88	0%	-	88.00
Frostpunk: GOTY	11 bit studios	11	-1	-	14	119	0%	-	119.00
Blair Witch	Bloober Team	200+	-	-	-	-	-	-	-
Cyberpunk 2077	CD Projekt	92	-3	-75	73	199	0%	0%	199.00
The Witcher 3: WH	CD Projekt	91	+11	-22	91	100	0%	0%	100.00
The Witcher 3: WH (GOTY)	CD Projekt	39	-	-15	36	150	0%	0%	150.00
Green Hell	Creepy Jar	200+	-	-	-	-	-	-	-
Chernobylite	The Farm 51	200+	-	-	-	-	-	-	-
Dying Light	Techland	200+	-	-	175	-	-	-	100.00

Source: Steam (Valve Corporation), mBank

CD Projekt

Accumulate – 2019-12-05 Target price: PLN 281.30

Problems with optimizing Cyberpunk 2077 to XOne as a potential cause for release postponement

In an information announcing the postponement of the premiere of Cyberpunk 2077, the company informed that the main reason is to complete testing, remove bugs and give the game final polish. According to the information provided by Borys Niepiewak citing his sources, the reason for the postponement is poor production optimization for Xbox One. The company did not refer to this information. In our opinion, additional 5 months of time to the new release date should allow the company to optimize the game for all platforms. The optimization process is one of the key elements of work on the game before its release. (P. Bogusz)

Involvement of external stakeholders in the development of Cyberpunk 2077

According to the information obtained by PolskiGamdev.pl, at least 3 additional studies specializing in game conversion and optimization are still working on the game. Among these entities one can mention QLOC, Crunching Koalas, Testonic. More information at: https://tinyurl.com/tzwmg8h (Polish version) (**P. Bogusz**)

Netflix confirms the rumors about the preparation of an animated version of the Witcher movie

Rumors about the emerging animated film The Witcher: Nightmare of the Wolf were confirmed by Netflix. The film will be created by screenwriters and showrunners of the acting series Netflix, and its animation will be done by South Korean Studio Mir, known from the series The Legend of Korra and Voltron: Legendary Defender. **Another Netflix production set in The Witcher's world should increase the popularity of this universe. (P. Bogusz)**

More News

Asbis	Asbis claims ca. USD 274 mln in consolidated sales revenues in December 2019, up by some 36% y/y, the company said in a market filing of its estimates. Asbis is "very satisfied" with both December and 2019 results, and judging by the figures, it expects to have exceeded the upper end of the 2019 financial forecast range, CEO Siarhei Kostevitch said in an accompanying press release. Asbis expected USD 1.7-1.9 bln in revenues and USD 13-14 mln in net profit in entire 2019.
CDA	CDA plans to issue new shares only at the occasion of entering WSE's main floor, although it is unlikely to happen this year, CDA board's service development plenipotentiary Wolfgang Laskowski told PAP.
Grupa Azoty	Azoty and its partners to the polyolefins project secured anti-trust office UOKiK's consent to set up the SPV Grupa Azoty Polyolefins, Azoty and unit Police said in respective market filings. Also, Azoty's unit Police shareholders will vote on granting up to PLN 390 mln in long-term subordinated loans to the SPV, GA Polyolefins at an EGM scheduled for February 17, Police said in a separate filing.
PBS	Regional cooperative bank Powiatowy Bank Spoldzielczy (PBS) in Zamosc was assigned to take over the cooperative bank BS in Dolhobyczow following financial market watchdog KNF's decision, KNF announced.
Pension Funds	Poland's Social Insurance Board (ZUS) transferred PLN 172.0 mln to open pension funds OFE this week, ZUS said in a statement.
PGG	State coal miner will pay out the "fourteenth salary" bonus on time and in the full amount planned, the management board assured in a statement. PGG employs ca. 42k people.
PKP Cargo	PKP Cargo plans to receive 400 carriages for intermodal transport in 2020, CEO Czeslaw Warsewicz told a news conference. FUNDS/ NN IP - Asset manager NN Investment Partners cut its stake in healthcare sector firm Synektik to 4.98%, Synektik said in a market filing.
Polkomtel	Polkomtel, the mobile telephony arm of the TMT group Cyfrowy Polsat, was fined PLN 50.6 mln by consumer protection office UOKiK for collecting additional fees for video streaming from consumer who had already bought access to the internet, UOKiK said in a statement.

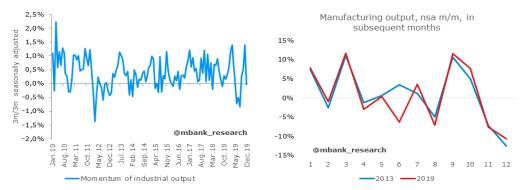


Macroeconomics

2019 ends with 3.1% GDP growth (nowcast). Further deceleration of comparable scale in 2020 unlikely and our forecast of 2,8% remains valid

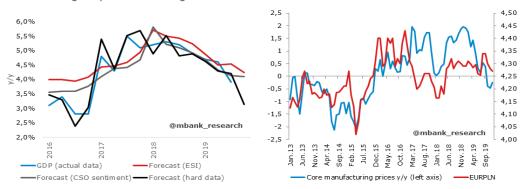
Industrial output rose by 3.8% y/y in December, much below market consensus (6.0% y/y) and our pessimistic estimate of 4.9% y/y. On a seasonally and calendar adjusted basis output dropped by a whopping 2.9% m/m, bringing the momentum of output down to zero after a few months of elevated monthly prints.

Several factors contributed to such a weak print. First, last December was marked by a peculiar arrangement of public holidays (with Christmas Eve on Tuesday), which favored very long holiday leaves. The last time this happened was in 2013 (in fact, save for slightly different timing of Easter, calendar was identical in 2013 and 2019) and December output growth was surprisingly weak indeed. Second, the previous two months were characterized by unsually strong industrial output prints, which build a sizable high base for output to fall from. This might be due to stockpiling ahead of Brexit, but the evidence is inconclusive. Finally, energy output decelerated considerably after the November spike.



Weak industrial output data, paired with weak construction print published yesterday are surprising enough to revise Q4 GDP down, to 3.1% y/y. Note that nowcasts based on hard data are now markedly lower than those based on soft indicators. Why is it then that we favor the latter? Historical experience and the nature of negative shock hitting the economy in the second half of 2019 speak in favor of giving much greater weight to hard data. The sharp slowdown in public investment is probably heavily concentrated and impacts a limited number of economic agents despite the considerable retrenchment in spending (in other words, public investment projects tend to be very large). Sentiment indicators, on the other hand, are not value-weighted and capture the experience of a median economic agent. This is what happened in 2016 and the nature of current slowdown is quite similar. The revision in Q4 GDP growth obviously impacts the 2019 figure (from 4.2 to 4.1% y/y) and will likely carry over to 2020, lowering the starting point. Nevertheless, the economy will be slowing only marginally in 2020 – our forecast of 2.8% growth (annual average) is unchanged.

Producer prices increased by 1.0% y/y in December. The jump from -0.1% y/y a month earlier reflects primarily statistical base. As for miss with our forecast (+1.3% y/y), a slower growth of "oil and coke" category is attributable (normal forecast error) and much lower growth in core manufacturing prices. Price pressure in producer prices is hardly visible. Therefore we may forget about building it up in consumer goods in CPI inflation.



Today's set of data is going to meet with warm welcome within MPC. Producer prices put aside inflation in goods. At the same time GDP growth dips faster than expected. It seems a great combination for MPC to claim that Q1 inflation is transitory and to leave rates unchanged.

mBank Research (E. Pytlarczyk, M. Mazurek, P. Bartkiewicz, K. Klimas) research@mBank.pl

Corporate Action Calendar

Date	Time	Company	Event
23-Jan		Stelmet	Q3'19 earnings announcement
24-Jan	10:00	Amica	Management meeting (Sheraton Hotel, Warsaw)
24-Jan	10:30	Stelmet	Q4'19 earnings announcement and conference (Novotel Warsaw Center Hotel, Warsaw)
28-Jan			Meeting with mBank Head of Economics (mBank HQ, Senatorska 18, Warsaw) – registration required
29-Jan		Santander	Q4'19 earnings announcement (preliminary)
30-Jan		PKN Orlen	Q4'19 earnings announcement

Economic Calendar

Thursd	lay, 23 Jar	nuary 2020			
Time	Region	Data	Period	Forecast	Previous
00:50	Japan	Exports	December		-7.90%
00:50	Japan	Imports	December		-15.70%
00:50	Japan	Trade Balance	December		-82.10bn
05:30	Japan	Industry Activity Index	November		-4.30% m/m
10:00	Poland	Retail Sales	December		5.90% y/y
13:45	EU	Interest Rate			0.00%
14:30	USA	Continuing Claims	11 January		1,767,000
14:30	USA	Initial Jobless Claims	18 January		204,000
16:00	EU	Consumer Confidence Index (P)	January		-8.10
16:00	USA	Leading Indicators Index	December		0.00%
16:30	USA	Natural Gas Inventory	17 January		3039bn
	Japan	Leading Indicators Index (F)	November		90.90
Friday,	, 24 Janua	ry 2020			
Time	Region	Data	Period	Forecast	Previous
00:30	Japan	Core CPI	December	0.2	20% m/m; 0.50% y/y
00:30	Japan	CPI	December		0.50% y/y
01:30	Japan	PMI Manufacturing (P)	January		48.40
09:15	France	PMI Manufacturing (P)	January		50.40
09:15	France	PMI Services (P)	January		52.40
09:30	Germany	PMI Manufacturing (P)	January		43.70
09:30	Germany	PMI Services (P)	January		52.90
10:00	EU	PMI Manufacturing (P)	January		46.30
10:00	EU	PMI Services (P)	January		52.80
10:30	UK	PMI Services (P)	January		50.00
14:00	Poland	M3 Money Supply	December	1.:	20% m/m; 6.70% y/y
15:45	USA	PMI Composite (P)	January		52.70
15:45	USA	PMI Services (P)	January		52.80
	Poland	Unemployment Rate	December		5.10%
Monda	y, 27 Janu	lary 2020			
Time	Region	Data	Period	Forecast	Previous
08:00	UK	Nationwide House Prices	January		0.10% m/m
16:00	USA	New Home Sales	December		719,000
	ay, 28 Jan				
Time	Region	Data	Period	Forecast	Previous
14:30	USA	Durable Goods Orders Less Transportation	December		0.00% m/m
14:30	USA	Durable Goods Orders	December		-2.00% m/m
15:00	USA	S&P/Case-Shiller Composite 20	November		2.20% y/y
16:00	USA	Conference Board Index	January		126.50
16:00	USA	Richmond Fed Index	January		-5
		January 2020			
Time	Region	Data	Period	Forecast	Previous
08:00	Germany -	GfK Consumer Confidence	January		9.60
08:45	France	Consumer Confidence Index	January		102
10:00	EU	M3 Money Supply	December		5.60% y/y
20:00	USA	Interest Rate	_		1.50%
	Japan	Consumer Confidence Index	January		39.10

Current Recommendations by mBank

Company	Recommendation	Issued On	Price At	Target	Current	Upside/	P/I	•	EV/EBI	
			Reco.	Price	Price	Downside	2019	2020	2019	2020
Financial Sector						+6.2%	10.1	10.7		
Alior Bank	hold	2019-11-06	29.34	31.00	27.40	+13.1%	8.6	7.9		
Handlowy	accumulate	2019-12-05	51.70	57.44	54.20	+6.0%	15.7	11.4		
ING BSK	hold	2019-12-05	190.80	187.77	204.00	-8.0%	16.7	14.8		
Millennium	hold	2019-12-05	5.49	5.47	5.89	-7.1%	10.2	12.8		
Pekao	buy	2019-12-05	96.34	115.20	100.90	+14.2%	11.7	10.7		
PKO BP	accumulate	2019-12-05	34.99	39.50	34.48	+14.6%	9.6	9.9		
Santander Bank Polska	hold	2019-12-05	279.00	265.50	286.80	-7.4%	13.4	12.1		
Komercni Banka	buy	2019-12-05	792.00	928.20 CZK	808.00	+14.9%	10.1	10.7		
Moneta Money Bank	buy	2019-08-28	75.95	94.33 CZK	85.40	+10.5%	11.5	10.6		
Erste Group	accumulate	2019-12-05	32.20	36.61 EUR	33.79	+8.3%	9.4	9.0		
RBI	accumulate	2019-12-05	21.24	23.05 EUR	21.55	+7.0%	6.1	5.8		
OTP Bank	hold	2019-12-05	14,870	14,681 HUF	14,550	+0.9%	10.0	9.1		
PZU	accumulate	2019-12-05	36.47	41.91	41.60	+0.7%	11.4	10.8		
Kruk	buy	2019-12-05	150.90	210.31	163.50	+28.6%	9.3	9.2		
Skarbiec Holding	buy	2019-12-05	17.20	29.34	21.60	+35.8%	6.8	6.4		
GPW	buy	2020-01-16	40.85	47.82	41.40	+15.5%	13.6	15.6		
Chemicals						+19.3%	9.9	15.7	5.2	6.0
Ciech	buy	2019-12-05	36.40	44.41	37.00	+20.0%	14.2	8.7	6.4	5.5
Grupa Azoty	hold	2019-12-05	30.00	32.75	27.56	+18.8%	5.6	22.7	4.0	6.4
Oil & Gas						+19.6%	10.5	8.9	4.4	4.8
Lotos	reduce	2019-12-05	85.20	77.80	85.10	-8.6%	13.8	9.9	6.5	5.1
MOL	accumulate	2019-11-27	2,926	3,302 HUF	2,748	+20.2%	9.2	8.3	4.3	4.6
PGNiG	buy	2019-11-06	5.07	5.64	3.96	+42.3%	11.9	7.8	4.4	3.3
PKN Orlen	hold	2019-12-05	88.50	94.17	85.00	+10.8%	7.6	9.5	4.5	4.9
Power Utilities						+34.2%	5.0	5.7	3.7	3.7
CEZ	buy	2019-12-05	502.00	597.80 CZK	517.50	+15.5%	15.4	13.4	7.4	6.9
Enea	buy	2019-11-06	8.59	11.53	7.29	+58.3%	3.1	3.0	3.1	3.1
Energa	buy	2019-11-06	6.37	11.67	7.54	+54.8%	5.9	5.7	3.7	4.3
PGE	buy	2019-10-24	8.42	12.20	7.44	+64.0%	5.0	6.4	3.2	3.6
Tauron	buy	2019-11-06	1.73	2.45	1.53	+59.9%	3.0	2.5	4.1	3.7
Telecoms, Media, IT						-1.2%	30.2	18.6	6.8	6.8
Netia	hold	2019-12-05	4.44	4.70	4.45	+5.6%	31.1	31.8	4.5	4.6
Orange Polska	accumulate	2019-11-29	6.46	7.40	7.44	-0.5%	35.0	38.4	5.5	5.7
Play	buy	2019-11-14	31.30	36.00	38.00	-5.3%	10.9	10.0	6.8	6.6
Agora	buy	2019-10-30	9.50	17.00	12.70	+33.9%	60.6	32.3	7.5	7.1
Cyfrowy Polsat	reduce	2019-11-14	28.86	26.10	27.80	-6.1%	15.9	13.4	7.1	6.9
Wirtualna Polska	hold	2019-12-05	68.20	70.00	78.00	-10.3%	30.2	20.9	13.6	10.7
Asseco Poland	hold	2019-12-05	57.35	59.20	66.70	-11.2%	16.8	16.3	5.4	5.2
Comarch	buy	2019-11-25	189.50	250.00	205.00	+22.0%	14.8	14.2	6.5	6.3
11 bit studios	buy	2019-12-05	360.50	454.00	449.00	+1.1%	45.0	53.7	28.7	32.2
CD Projekt	accumulate	2019-12-05	260.30	281.30	275.60	+2.1%	-	11.8	-	10.1
Industrials, Mining						-2.7%	7.2	11.5	4.7	5.3
Cognor	hold	2019-12-06	1.20	1.25	1.28	-2.3%	6.9	39.8	4.5	6.2
Famur	buy	2019-12-05	2.98	5.18	3.47	+49.5%	5.3	8.1	4.2	4.3
Grupa Kęty	hold	2019-12-05	338.50	335.44	349.00	-3.9%	11.9	13.6	8.1	8.9
JSW	hold	2020-01-20	22.68	23.32	20.94	+11.4%	5.3	-	0.9	3.0
Kernel	hold	2019-12-05	41.20	41.60	47.30	-12.1%	5.4	9.1	4.9	6.8
KGHM	hold	2019-12-05	88.66	85.54	97.00	-11.8%	9.6	10.1	4.8	5.2
PKP Cargo	reduce	2019-12-05	20.00	18.13	19.90	-8.9%	7.5	-	2.8	3.4
Stelmet	hold	2019-12-05	8.20	8.78	8.25	+6.4%	12.9	12.9	5.6	5.3
Property Developers						-1.9%	10.4	9.1	9.4	8.2
Atal	buy	2019-12-05	37.20	44.90	42.00	+6.9%	11.2	9.2	10.9	8.6
Dom Development	hold	2019-12-05	93.00	88.92	97.40	-8.7%	9.7	9.0	7.9	7.9
Retail						+3.5%	37.5	19.9	9.6	8.7
AmRest	hold	2019-12-05	46.35	47.00	45.85	+2.5%	37.5	36.1	12.4	11.6
CCC	buy	2019-12-05	108.10	157.00	94.65	+65.9%	89.2	19.9	5.4	4.2
Dino	accumulate	2019-11-25	134.00	148.60	166.90	-11.0%	40.2	29.9	23.7	18.0
Eurocash	reduce	2019-11-25	22.22	19.80	21.00	-5.7%	71.2	42.4	7.7	7.3
Jeronimo Martins	hold	2019-10-07	14.92	14.30 EUR	15.45	-7.4%	21.9	19.7	9.6	8.7
	buy	2019-12-05	8,575.00	10,100.00	8,635.00	+17.0%	25.6	18.9	10.8	9.2
LPP	DUV									

Current Calls by mBank

Compone.	Relative	Rated On	Price At	Current	Change	P/I		EV/EB1	ITDA
Company	Positioning	Kateu On	Rating	Price	Change	2019	2020	2019	2020
IT						15.4	12.7	6.7	5.6
Ailleron	neutral	2019-10-31	7.16	8.64	+20.7%	15.6	11.8	6.1	4.8
Asseco BS	neutral	2019-12-05	27.60	30.80	+11.6%	15.7	15.2	10.2	9.6
Asseco SEE	overweight	2019-12-05	25.60	24.60	-3.9%	15.2	13.7	7.4	6.3
Atende	neutral	2019-12-05	3.06	3.56	+16.3%	12.6	11.8	5.2	5.0
Industrials						12.3	11.1	6.5	6.7
AC	neutral	2019-12-05	43.20	49.00	+13.4%	12.3	12.4	8.6	8.2
Alumetal	neutral	2019-12-05	39.30	44.30	+12.7%	13.9	14.3	7.9	8.2
Amica	neutral	2019-12-05	133.20	143.60	+7.8%	9.7	9.1	6.2	6.2
Apator	neutral	2019-12-05	21.10	20.70	-1.9%	11.0	11.1	6.4	6.7
Astarta	overweight	2019-12-05	15.90	17.00	+6.9%	-	3.0	6.5	2.9
Boryszew	neutral	2019-12-05	4.09	4.40	+7.7%	14.5	11.5	6.9	7.0
Forte	neutral	2019-12-05	28.15	28.35	+0.7%	22.9	13.2	9.5	8.1
Kruszwica	overweight	2019-12-05	45.80	53.00	+15.7%	12.2	11.1	6.3	5.9
Mangata	neutral	2019-12-05	72.00	73.00	+1.4%	8.8	10.4	6.3	6.8
Pozbud	neutral	2019-12-05	1.80	1.75	-2.8%	4.1	4.0	4.5	5.5
TIM	overweight	2019-12-05	10.90	11.85	+8.7%	13.3	11.8	6.9	6.3

CEE bank valuations

			P/E			ROE			P/BV			DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Polish banks													
Alior Bank	27.40	8.6	7.9	7.5	6%	6%	6%	0.5	0.5	0.5	0.0%	0.0%	0.0%
Handlowy	54.20	15.7	11.4	10.9	6%	9%	9%	1.0	1.0	1.0	6.9%	7.1%	6.6%
ING BSK	204.00	16.7	14.8	13.6	12%	12%	12%	1.9	1.8	1.6	1.7%	1.8%	2.0%
Millennium	5.89	10.2	12.8	15.7	8%	6%	5%	0.8	0.8	0.7	0.0%	0.0%	0.0%
Pekao	100.90	11.7	10.7	10.0	10%	10%	11%	1.1	1.1	1.1	6.5%	6.4%	7.0%
РКО ВР	34.48	9.6	9.9	9.5	11%	10%	10%	1.0	1.0	1.0	3.9%	9.1%	10.3%
Santander BP	286.80	13.4	12.1	11.9	9%	9%	9%	1.2	1.1	1.0	6.9%	1.9%	2.1%
Median		11.7	11.4	10.9	9%	9%	9%	1.0	1.0	1.0	3.9%	1.9%	2.1%
Investors in Polish ba	nks												
BCP	0.188	6.7	6.1	5.1	6%	7%	8%	0.5	0.4	0.4	2.1%	4.8%	6.9%
Citigroup	80.100	10.5	9.4	9.0	10%	10%	9%	1.0	0.9	0.8	2.4%	2.7%	3.0%
Commerzbank	5.122	7.8	6.6	6.3	3%	3%	3%	0.2	0.2	0.2	4.1%	4.7%	5.4%
ING	10.390	8.0	8.2	8.1	10%	9%	9%	0.8	0.7	0.7	6.6%	6.7%	6.8%
UCI	12.570	7.0	7.1	6.9	8%	7%	6%	0.5	0.5	0.5	4.7%	5.5%	6.1%
Median		7.8	7.1	6.9	8%	7%	8%	0.5	0.5	0.5	4.1%	4.8%	6.1%
Foreign banks													
Erste Group	33.79	9.4	9.0	8.9	11%	11%	10%	1.0	0.9	0.9	3.8%	4.5%	4.7%
Komercni Banka	808.00	10.1	10.7	10.2	15%	13%	13%	1.5	1.4	1.3	6.3%	6.3%	6.3%
Moneta Money	85.40	11.5	10.6	10.5	15%	16%	16%	1.7	1.7	1.6	7.2%	6.5%	7.0%
OTP Bank	14,550	10.0	9.1	8.9	20%	18%	17%	1.8	1.6	1.4	1.6%	1.6%	3.8%
RBI	21.55	6.1	5.8	5.8	10%	9%	9%	0.6	0.5	0.5	5.4%	4.9%	5.1%
Akbank	8.75	8.3	5.2	4.3	11%	16%	16%	0.9	0.8	0.7	2.3%	3.5%	5.2%
Alpha Bank	1.85	16.7	12.7	8.8	2%	3%	4%	0.3	0.4	0.4	0.0%	0.0%	0.0%
Banco Santander	3.58	7.4	7.0	6.8	8%	8%	8%	0.6	0.6	0.5	6.2%	6.6%	6.8%
Deutsche Bank	7.56	26.8	16.2	10.4	-1%	1%	3%	0.3	0.3	0.3	0.0%	0.6%	2.2%
Eurobank Ergasias	0.90	12.7	7.9	6.9	4%	8%	9%	0.6	0.6	0.5	0.0%	0.0%	0.0%
National Bank of Greece	3.05	12.4	12.8	9.5	5%	4%	6%	0.6	0.5	0.5	-	0.0%	0.0%
Piraeus Bank	3.29	16.1	11.1	7.5	2%	3%	4%	0.3	0.3	0.3	-	0.0%	0.0%
Sberbank	266.54	6.7	5.9	5.4	21%	21%	21%	1.3	1.2	1.1	7.1%	8.4%	9.4%
Turkiye Garanti Bank	12.17	7.4	5.5	4.4	13%	15%	16%	0.9	0.8	0.7	1.2%	1.6%	1.6%
Turkiye Halk Bank	7.07	5.7	3.0	2.1	5%	7%	10%	0.3	0.3	0.2	0.7%	1.3%	1.8%
Turkiye Vakiflar Bankasi	6.80	6.2	3.7	3.0	9%	13%	13%	0.5	0.4	0.4	-	-	-
VTB Bank	0.05	3.5	3.5	3.1	12%	12%	12%	0.4	0.4	0.3	6.1%	6.1%	8.2%
Yapi ve Kredi Bankasi	3.02	6.1	4.5	3.6	10%	13%	13%	0.6	0.5	0.5	0.0%	0.0%	0.0%
Median		8.8	7.4	6.8	10%	11%	11%	0.6	0.5	0.5	2.3%	1.6%	3.8%

Insurance company valuations

			P/E			ROE			P/BV			DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Insurers													
PZU	41.60	11.4	10.8	10.6	21%	22%	22%	2.4	2.4	2.3	7.2%	7.0%	7.4%
Aegon	3.88	6.1	5.6	5.5	7%	8%	7%	0.4	0.4	0.4	7.9%	8.3%	8.7%
Allianz	219.35	11.6	10.9	10.3	12%	12%	12%	1.3	1.3	1.2	4.3%	4.6%	4.9%
Assicurazioni Generali	18.14	11.6	10.5	10.1	11%	10%	10%	1.1	1.0	1.0	5.3%	5.6%	6.0%
Aviva	4.10	6.9	6.8	6.5	13%	13%	14%	0.9	0.9	0.9	7.6%	7.9%	8.2%
AXA	24.39	9.2	8.5	8.2	10%	11%	11%	0.9	0.9	0.8	6.1%	6.4%	6.8%
Baloise	177.70	12.4	12.7	12.6	10%	9%	9%	1.2	1.2	1.1	3.6%	3.8%	4.0%
Helvetia	141.40	13.9	13.9	13.5	11%	10%	10%	1.2	1.1	1.1	3.5%	3.6%	3.8%
Mapfre	2.41	9.7	9.0	8.6	9%	10%	10%	0.9	0.8	0.8	6.4%	6.7%	6.8%
RSA Insurance	5.55	13.7	11.8	11.0	11%	12%	13%	1.5	1.4	1.4	4.4%	5.1%	5.7%
Uniqa	8.88	12.6	11.8	11.2	7%	7%	7%	0.9	1.0	1.0	6.2%	6.4%	6.6%
Vienna Insurance G.	25.45	10.4	9.8	9.2	6%	7%	7%	0.6	0.6	0.6	4.1%	4.4%	4.6%
Zurich Financial	407.50	14.8	13.4	12.8	13%	13%	13%	1.8	1.7	1.7	5.0%	5.3%	5.6%
Median		11.6	10.8	10.3	11%	10%	10%	1.1	1.0	1.0	5.3%	5.6%	6.0%

Source: mBank (stocks marked with bold), Bloomberg

Gas & Oil valuations

		EV	/EBITD	A		EV/S			P/E		EBI1	DA mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Oil companies																
Lotos	85.10	6.5	5.1	5.0	0.6	0.6	0.6	13.8	9.9	11.0	10%	12%	12%	3.5%	3.5%	3.5%
MOL	2748.00	4.3	4.6	4.3	0.6	0.7	0.7	9.2	8.3	7.6	13%	15%	15%	5.2%	5.4%	5.7%
PKN Orlen	85.00	4.5	4.9	5.4	0.4	0.4	0.4	7.6	9.5	11.8	9%	8%	7%	4.1%	4.1%	4.1%
Hellenic Petroleum	8.46	6.3	4.9	5.2	0.5	0.4	0.4	11.1	6.5	6.8	7%	9%	8%	5.9%	6.7%	6.5%
HollyFrontier	46.50	5.6	5.6	5.9	0.6	0.6	0.6	9.6	9.0	9.9	10%	10%	10%	2.9%	2.9%	3.0%
Marathon Petroleum	55.97	7.7	5.9	6.2	0.6	0.5	0.5	13.6	7.4	8.1	7%	9%	9%	3.8%	4.2%	4.7%
Motor Oil	20.28	4.7	4.0	4.5	0.3	0.3	0.3	7.7	6.2	7.2	6%	7%	7%	6.7%	7.0%	7.1%
Neste Oil	34.52	13.2	12.1	11.5	1.7	1.8	1.7	21.1	18.6	17.6	13%	15%	15%	2.5%	2.8%	3.0%
OMV	47.53	3.9	3.7	3.5	1.0	1.0	1.0	9.0	8.3	7.8	25%	26%	27%	4.1%	4.6%	5.0%
Phillips 66	101.86	7.9	6.8	7.1	0.5	0.5	0.5	12.8	9.8	10.2	7%	7%	7%	3.4%	3.7%	4.0%
Saras SpA	1.30	3.6	2.2	3.1	0.1	0.1	0.1	12.4	4.4	7.3	4%	6%	4%	5.1%	10.7%	7.1%
Tupras	121.20	7.0	4.6	4.9	0.4	0.4	0.4	11.8	5.4	5.3	6%	8%	8%	8.4%	15.5%	16.2%
Valero Energy	89.62	8.6	5.9	6.4	0.4	0.4	0.4	18.6	9.4	10.3	5%	7%	7%	4.0%	4.4%	4.6%
Median		6.3	4.9	5.2	0.5	0.5	0.5	11.8	8.3	8.1	7%	9%	8%	4.1%	4.4%	4.7%
Gas companies																
PGNiG	3.96	4.4	3.3	2.9	0.6	0.6	0.5	11.9	7.8	6.9	14%	17%	18%	2.8%	3.4%	5.1%
A2A SpA	1.77	7.8	7.2	6.9	1.4	1.4	1.3	17.2	14.6	14.0	18%	19%	19%	4.4%	4.5%	4.6%
BP	480.50	4.7	4.5	4.4	0.6	0.6	0.6	12.3	11.1	10.4	14%	14%	14%	0.0%	0.0%	0.0%
Centrica	93.20	4.6	4.4	4.8	0.3	0.3	0.3	13.5	9.8	9.5	7%	7%	7%	0.0%	0.0%	0.0%
Enagas	24.04	10.7	10.4	11.4	8.6	8.7	9.4	13.5	12.6	13.7	80%	84%	82%	6.7%	6.9%	6.8%
Endesa	24.39	8.9	8.8	8.7	1.6	1.6	1.5	17.0	16.7	16.3	18%	18%	18%	5.9%	6.0%	5.1%
Engie	15.30	6.9	6.5	6.2	1.1	1.0	1.0	14.8	13.2	12.0	16%	16%	16%	5.1%	5.5%	5.9%
Eni	13.56	3.6	3.4	3.3	0.9	0.9	0.9	12.7	10.5	9.6	24%	26%	28%	6.3%	6.5%	6.6%
Equinor	180.40	3.4	3.1	2.8	1.2	1.1	1.1	12.6	11.0	10.1	35%	36%	37%	0.1%	0.1%	0.1%
Gas Natural SDG	22.91	9.2	8.8	8.6	1.5	1.5	1.5	16.5	15.2	14.5	17%	17%	18%	6.0%	6.3%	6.6%
Gazprom	248.10	3.9	3.8	3.6	1.1	1.1	1.0	3.9	4.3	4.0	28%	28%	28%	6.6%	7.4%	9.6%
Hera SpA	3.98	8.2	7.8	7.6	1.4	1.3	1.3	19.5	19.0	18.9	17%	17%	17%	2.6%	2.8%	2.8%
NovaTek	1196.80	11.3	11.3	11.7	4.2	4.2	3.8	8.5	12.0	10.7	38%	37%	32%	2.4%	3.0%	3.2%
ROMGAZ	37.45	5.7	5.8	5.4	2.8	2.7	2.6	9.8	9.8	9.2	49%	47%	48%	8.9%	8.9%	10.2%
Shell	25.94	3.5	3.2	3.1	0.6	0.5	0.5	12.4	10.3	9.7	16%	17%	17%	8.1%	8.1%	8.3%
Snam SpA	4.80	13.0	12.7	12.3	10.5	10.3	10.0	15.0	14.8	14.2	81%	81%	81%	5.0%	5.3%	5.5%
Total	47.80	5.5	5.1	4.8	1.0	1.0	0.9	12.2	10.7	10.3	17%	19%	19%	6.2%	6.5%	6.8%
Median		5.7	5.8	5.4	1.2	1.1	1.1	12.7	11.1	10.4	18%	19%	19%	5.1%	5.5%	5.5%

Power generation company valuations

		EV	//EBITD	A		EV/S			P/E		EBI	FDA mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Power generation																
CEZ	517.50	7.4	6.9	6.7	2.1	1.9	1.8	15.4	13.4	13.5	29%	28%	27%	4.6%	5.8%	6.7%
Enea	7.29	3.1	3.1	2.8	0.6	0.5	0.6	3.1	3.0	2.3	20%	18%	21%	0.0%	0.0%	3.4%
Energa	7.54	3.7	4.3	4.6	0.7	0.7	0.8	5.9	5.7	5.1	19%	17%	17%	0.0%	0.0%	0.0%
PGE	7.44	3.2	3.6	2.8	0.7	0.6	0.6	5.0	6.4	4.2	21%	17%	21%	0.0%	5.0%	3.9%
Tauron	1.53	4.1	3.7	3.2	0.7	0.6	0.6	3.0	2.5	2.0	18%	17%	19%	0.0%	0.0%	0.0%
EDF	11.37	5.5	5.0	4.9	1.2	1.2	1.2	16.8	13.6	12.8	23%	24%	24%	2.9%	3.4%	3.6%
EDP	4.15	9.4	9.0	8.6	2.1	2.1	2.0	18.8	17.2	15.9	22%	23%	23%	4.6%	4.7%	4.9%
Endesa	24.39	8.9	8.8	8.7	1.6	1.6	1.5	17.0	16.7	16.3	18%	18%	18%	5.9%	6.0%	5.1%
Enel	7.55	7.8	7.4	7.1	1.7	1.7	1.6	16.0	14.7	13.9	22%	23%	23%	4.4%	4.8%	5.1%
EON	10.26	9.8	7.3	7.2	1.5	0.8	0.7	15.1	16.1	14.9	16%	11%	10%	4.5%	4.7%	4.8%
Fortum	22.13	14.9	13.8	13.2	4.6	4.5	4.4	15.5	14.7	13.7	31%	33%	33%	5.0%	5.0%	4.9%
Iberdola	9.46	10.3	9.6	9.2	2.7	2.6	2.5	17.9	16.8	16.1	27%	27%	28%	4.0%	4.2%	4.4%
National Grid	995.10	12.3	11.6	11.0	4.0	4.0	3.9	17.1	17.0	16.1	32%	34%	35%	0.0%	0.0%	0.0%
Red Electrica	17.98	9.4	9.5	9.6	7.4	7.4	7.4	13.5	14.4	14.8	78%	78%	77%	5.9%	5.7%	5.6%
RWE	31.10	11.2	6.3	5.4	1.4	1.0	0.9	28.2	18.1	13.4	12%	15%	16%	2.6%	3.0%	3.5%
SSE	1503.00	12.6	12.2	11.3	0.9	3.4	3.3	22.4	17.1	14.8	7%	28%	29%	0.0%	0.0%	0.0%
Verbund	46.30	8.5	7.1	6.8	3.1	2.7	2.6	28.4	22.2	20.9	36%	38%	39%	1.5%	2.1%	2.6%
Median		8.9	7.3	7.1	1.6	1.7	1.6	16.0	14.7	13.9	22%	23%	23%	2.9%	4.2%	3.9%

Machine and equipment manufacturers

		E\	//EBITD	A		EV/S			P/E		EBI	DA mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Industrials																
Famur	3.47	4.2	4.3	4.7	1.1	1.2	1.2	5.3	8.1	9.4	25%	28%	26%	15.3%	11.4%	9.4%
Caterpillar	142.63	8.4	8.8	8.7	1.7	1.8	1.7	12.1	11.9	11.4	21%	20%	20%	2.6%	2.9%	3.2%
Epiroc	120.85	9.6	9.1	8.7	2.4	2.3	2.2	22.2	20.7	19.6	25%	25%	25%	2.1%	2.3%	2.4%
Komatsu	2644.00	6.1	6.6	6.5	1.2	1.2	1.2	10.0	11.4	11.2	19%	18%	19%	4.0%	4.2%	4.3%
Sandvig AG	186.90	10.4	9.9	9.5	2.3	2.3	2.2	17.6	16.7	15.8	23%	23%	23%	2.5%	2.6%	2.8%
Median		8.4	8.8	8.7	1.7	1.8	1.7	12.1	11.9	11.4	23%	21%	22%	2.6%	2.9%	3.2%

Source: mBank (stocks marked with bold), Bloomberg

Fertilizer producers and chemical companies

		EV	/ EBITD	A		EV/S			P/E		EBIT	DA mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Fertilizer producers																
Grupa Azoty	27.56	4.0	6.4	8.0	0.5	0.7	0.8	5.6	22.7	-	14%	10%	10%	0.0%	0.0%	0.0%
Acron	4734.00	7.1	6.5	6.5	2.3	2.1	2.0	9.0	8.5	8.7	33%	33%	31%	7.1%	7.4%	8.1%
CF Industries	42.71	9.1	8.3	7.9	3.3	3.2	3.1	18.0	14.9	13.3	37%	39%	40%	2.8%	2.8%	2.9%
Israel Chemicals	1523.00	6.2	6.0	5.8	1.4	1.4	1.3	10.5	9.6	9.3	23%	23%	22%	0.0%	0.0%	0.0%
K+S	9.26	7.2	6.3	5.7	1.3	1.2	1.2	10.0	7.5	6.0	17%	19%	20%	3.8%	5.3%	6.4%
Phosagro	2463.00	6.1	5.7	5.4	1.9	1.8	1.7	8.9	8.9	8.7	31%	31%	31%	7.4%	6.1%	6.3%
The Mosaic Company	20.03	6.8	5.7	5.1	1.3	1.2	1.2	18.5	11.2	8.6	19%	21%	23%	1.0%	1.1%	1.4%
Yara International	350.00	46.1	39.9	37.8	7.4	6.9	6.7	-	-	-	16%	17%	18%	0.6%	0.7%	0.6%
ZA Police	10.70	5.2	4.2	4.2	1.1	1.0	1.0	1.3	0.9	0.9	21%	24%	24%	77.7%	84.1%	93.5%
ZCh Puławy	90.20	1.3	1.7	1.7	0.3	0.3	0.3	4.1	6.7	7.0	21%	16%	16%	5.5%	5.5%	5.5%
Median		6.5	6.2	5.8	1.3	1.3	1.2	9.0	8.9	8.7	21%	22%	22%	3.3%	4.0%	4.2%
Chemical companies																
Ciech	37.00	6.4	5.5	5.4	1.0	1.1	1.0	14.2	8.7	8.7	16%	20%	19%	0.0%	0.0%	5.7%
Akzo Nobel	87.92	14.6	12.8	12.0	2.1	2.0	1.9	27.5	21.3	19.0	14%	16%	16%	2.1%	2.4%	2.7%
BASF	64.16	9.6	8.4	7.8	1.3	1.2	1.2	16.7	14.3	12.8	13%	15%	15%	4.9%	5.0%	5.3%
Croda	5070.00	17.2	16.1	15.3	5.0	4.8	4.6	26.5	24.8	23.3	29%	30%	30%	0.0%	0.0%	0.0%
Sisecam	5.32	4.1	3.5	3.0	0.8	0.7	0.6	6.3	6.1	5.5	20%	20%	20%	4.4%	4.8%	5.2%
Soda Sanayii	6.58	4.9	4.1	3.5	1.2	1.0	0.8	5.1	5.2	4.6	24%	25%	24%	5.2%	5.2%	5.9%
Solvay	94.58	5.4	5.1	4.9	1.2	1.1	1.1	10.8	11.0	9.9	22%	22%	22%	4.0%	4.2%	4.4%
Tata Chemicals	748.35	10.2	9.0	8.1	1.9	1.8	1.6	18.2	16.4	14.4	18%	20%	20%	1.6%	2.0%	1.7%
Tessenderlo Chemie	30.20	6.0	5.6	5.3	0.8	0.8	0.7	15.6	12.3	10.8	13%	14%	14%	-	-	-
Wacker Chemie	63.32	5.3	4.8	4.5	0.8	0.8	0.8	22.7	16.0	12.8	15%	16%	17%	3.3%	3.9%	4.5%
Median		6.2	5.6	5.3	1.2	1.1	1.0	16.1	13.3	11.8	17%	20%	20%	3.3%	3.9%	4.5%

Mining company valuations

		EV	/ EBITD	A		EV/S			P/E		EBI	TDA mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Metals																
KGHM	97.00	4.8	5.2	5.5	1.2	1.1	1.1	9.6	10.1	11.8	24%	22%	20%	0.0%	1.5%	3.0%
Anglo American	2190.00	4.5	4.8	5.1	1.6	1.6	1.6	9.5	10.4	11.4	36%	34%	31%	0.0%	0.0%	0.0%
Antofagasta	907.00	6.0	6.2	5.6	2.9	2.9	2.8	19.8	21.2	17.3	49%	47%	50%	0.0%	0.0%	0.0%
BHP Group LTD	41.21	4.0	4.0	4.3	2.2	2.1	2.2	14.9	13.5	15.3	53%	53%	51%	3.7%	2.8%	2.3%
Boliden	254.20	5.8	5.4	5.6	1.4	1.3	1.3	12.1	11.2	11.4	24%	25%	24%	4.4%	4.7%	4.7%
First Quantum	12.56	9.0	6.2	5.8	3.6	2.6	2.5	23.1	16.4	11.4	40%	42%	44%	0.1%	0.1%	0.1%
Freeport-McMoRan	12.32	12.7	9.0	5.3	2.3	2.2	1.8	-	22.0	9.0	18%	25%	35%	1.6%	2.4%	3.0%
Fresnillo	637.60	8.4	6.6	5.4	3.1	2.9	2.7	31.7	22.5	16.0	37%	44%	49%	0.0%	0.0%	0.0%
Gold Fields	9107.00	5.3	4.5	4.3	2.4	2.2	2.1	25.0	15.7	14.4	45%	49%	49%	0.0%	0.0%	0.0%
Hudbay Min	4.49	3.7	3.3	2.7	1.2	1.2	1.1	-	37.2	10.4	32%	35%	40%	0.3%	0.3%	0.2%
KAZ Minerals	516.60	5.2	5.2	5.0	2.8	2.7	2.6	7.0	7.0	6.3	55%	52%	53%	0.0%	0.0%	0.0%
Lundin Min	7.49	7.3	4.4	3.9	2.5	1.9	1.8	23.6	10.6	8.7	35%	43%	46%	1.0%	1.0%	1.3%
MMC Norilsk Nickel	34.40	8.6	8.2	8.2	4.8	4.8	4.6	15.6	15.2	14.9	56%	59%	57%	7.0%	8.0%	8.4%
OZ Minerals	10.70	7.7	6.2	5.0	3.3	2.7	2.4	21.2	17.4	10.1	43%	44%	48%	1.9%	2.2%	2.7%
Polymetal Intl	1262.00	9.1	7.8	7.9	4.3	3.9	3.9	14.6	11.4	11.4	47%	50%	49%	0.0%	0.0%	0.0%
Polyus	7380.00	7.5	6.8	6.8	4.9	4.5	4.4	10.0	9.2	9.2	65%	66%	66%	4.4%	5.0%	5.0%
Sandfire Resources	6.00	2.4	2.0	1.9	1.2	1.1	1.0	8.4	7.1	5.9	51%	54%	56%	4.2%	4.6%	5.2%
Southern CC	41.85	10.7	10.5	9.7	5.3	5.1	4.8	20.2	19.4	18.7	49%	49%	49%	3.7%	3.5%	3.4%
Median		6.6	5.8	5.3	2.7	2.4	2.3	15.2	14.4	11.4	44%	46%	49%	0.6%	1.3%	1.8%
			/ EBITD			EV/S			P/E			TDA mar			DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Coal																
JSW	20.94	0.9	3.0	2.7	0.2	0.3	0.3	5.3	-	-	19%	9%	11%	8.2%	0.0%	0.0%
Alliance Res Partners	10.25	2.0	2.4	2.6	0.6	0.7	0.7	3.3	7.0	8.9	30%	27%	28%	20.7%	15.1%	15.1%
Arch Coal	60.94	2.3	2.7	2.6	0.4	0.4	0.4	4.1	5.0	4.9	18%	17%	17%	3.0%	3.0%	3.0%
Banpu	11.10	10.5	11.0	10.2	2.0	2.1	2.2	11.4	10.6	9.7	19%	19%	22%	4.3%	4.6%	5.0%
BHP Group	56.35	4.0	4.0	4.3	2.2	2.1	2.2	14.8	13.5	15.3	53%	53%	51%	7.9%	6.0%	4.9%
China Coal Energy	2.92	4.7	4.8	5.1	0.9	0.9	1.0	6.0	6.4	6.3	20%	20%	19%	3.9%	3.6%	3.3%
LW Bogdanka	34.00	1.2	1.2	1.3	0.4	0.4	0.4	4.1	5.0	5.7	35%	33%	31%	3.2%	5.5%	5.9%
Natural Res Partners	20.99	1.2	1.4	1.4	1.0	1.1	1.1	4.2	3.9	3.8	77%	78%	78%	8.6%	8.6%	8.6%
Peabody Energy Corp	7.93	1.4	1.7	1.7	0.3	0.3	0.3	8.5	-	-	18%	16%	16%	27.5%	6.9%	7.1%
PT Bukit Asam Tbk	2480.00	3.8	4.0	3.7	1.1	1.0	1.0	6.4	6.9	6.7	28%	26%	26%	11.2%	10.6%	10.0%
Rio Tinto	4603.50	4.0	4.5	5.1	1.9	2.1	2.2	9.4	10.8	13.2	49%	46%	43%	0.0%	0.0%	0.0%
Semirara Mining&Power	21.10	5.3	4.8	4.5	2.5	2.2	2.1	7.9	7.3	7.0	46%	46%	47%	7.7%	8.1%	8.2%
Shanxi Xishan Coal&Ele	5.78	5.2	5.3	5.2	1.0	1.0	1.0	9.2	9.2	9.0	19%	19%	19%	3.4%	3.4%	3.3%
		1.0	0.9	1.0	0.5	0.5	0.5	7.3	6.8	7.5	54%	54%	49%	7.0%	6.9%	5.5%
Shougang Fushan Res	1.71															
Stanmore Coal	1.02	1.1	1.7	2.4	0.4	0.5	0.5	2.7	4.0	6.1	38%	28%	21%	8.6%	6.6%	6.3%
Stanmore Coal Teck Resources	1.02 15.41	1.1 3.0	1.7 3.2	3.2	1.2	1.2	1.2	6.1	6.5	6.7	39%	39%	38%	8.6% 1.8%	2.2%	4.6%
Stanmore Coal Teck Resources Terracom	1.02 15.41 0.32	1.1 3.0 1.3	1.7 3.2 1.9	3.2 1.7	1.2 0.4	1.2 0.4	1.2 0.4	6.1 2.5	6.5 4.6	6.7 3.2	39% 30%	39% 22%	38% 23%	1.8%	2.2% 6.3%	4.6% 9.4%
Stanmore Coal Teck Resources Terracom Warrior Met Coal	1.02 15.41 0.32 21.64	1.1 3.0 1.3 2.5	1.7 3.2 1.9 3.6	3.2 1.7 3.6	1.2 0.4 1.0	1.2 0.4 1.1	1.2 0.4 1.2	6.1 2.5 3.6	6.5 4.6 5.6	6.7 3.2 6.0	39% 30% 39%	39% 22% 31%	38% 23% 32%	1.8% - 16.3%	2.2% 6.3% 7.3%	4.6% 9.4% 10.5%
Stanmore Coal Teck Resources Terracom	1.02 15.41 0.32	1.1 3.0 1.3	1.7 3.2 1.9	3.2 1.7	1.2 0.4	1.2 0.4	1.2 0.4	6.1 2.5	6.5 4.6	6.7 3.2	39% 30%	39% 22%	38% 23%	1.8%	2.2% 6.3%	4.6% 9.4%

Source: mBank (stocks marked with bold), Bloomberg

European telecom valuations

		EV	/ EBITD	A		EV/S			P/E		EBIT	DA mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Polish companies																
Netia	4.45	4.5	4.6	4.7	1.5	1.6	1.6	31.1	31.8	28.7	34%	34%	34%	0.0%	0.0%	9.0%
Orange Polska	7.44	5.5	5.7	5.2	1.6	1.6	1.5	35.0	38.4	21.1	29%	28%	29%	0.0%	0.0%	3.4%
Play	38.00	6.8	6.6	6.1	2.3	2.3	2.2	10.9	10.0	10.0	34%	36%	36%	3.8%	3.8%	3.8%
Median		5.5	5.7	5.2	1.6	1.6	1.6	31.1	31.8	21.1	34%	34%	34%	0%	0.0%	3.8%
Mid Caps																
Proximus	25.65	5.8	5.9	5.9	1.9	1.9	2.0	15.1	15.0	15.2	33%	33%	33%	5.9%	6.0%	6.1%
Telefonica CP	238.00	7.2	7.2	7.3	2.3	2.3	2.2	14.3	14.8	14.8	31%	31%	31%	8.7%	8.8%	8.7%
Hellenic Telekom	13.88	5.7	5.6	5.4	2.0	2.0	1.9	19.3	15.7	13.8	35%	35%	36%	4.1%	4.4%	4.7%
Matav	461.00	4.3	4.3	4.3	1.3	1.3	1.3	10.3	9.6	9.2	31%	31%	31%	5.7%	6.0%	6.6%
Telecom Austria	7.40	5.3	5.2	5.1	1.8	1.8	1.8	11.9	11.1	10.6	34%	34%	35%	2.9%	3.2%	3.7%
Median		5.7	5.6	5.4	1.9	1.9	1.9	14.3	14.8	13.8	33%	33%	33%	5.7%	6.0%	6.1%
Big Caps																
BT	174.54	3.8	3.6	3.6	1.2	1.2	1.2	6.7	7.2	7.0	32%	34%	34%	0.0%	0.0%	0.0%
DT	14.87	5.4	5.1	4.9	1.7	1.7	1.6	14.8	13.5	12.0	32%	33%	33%	4.9%	5.2%	5.5%
KPN	2.76	7.4	7.3	7.0	3.2	3.2	3.3	23.8	20.4	17.3	43%	44%	47%	4.8%	5.0%	5.3%
Orange France	13.13	5.0	4.9	4.8	1.5	1.5	1.5	12.7	11.9	11.0	31%	31%	31%	5.4%	5.7%	6.0%
Swisscom	530.80	8.3	8.3	8.2	3.1	3.1	3.2	18.5	18.8	18.8	38%	38%	38%	4.1%	4.2%	4.2%
Telefonica S.A.	6.27	5.2	5.2	5.0	1.8	1.8	1.8	9.3	8.7	8.0	34%	34%	35%	6.4%	6.5%	6.6%
Telia Company	40.95	8.6	8.3	8.2	3.0	2.9	2.9	17.5	15.8	14.7	35%	35%	36%	5.9%	6.1%	6.2%
TI	0.50	4.6	4.6	4.5	1.9	1.9	1.9	8.1	7.8	7.6	42%	42%	42%	0.0%	0.0%	0.0%
Median		5.3	5.1	4.9	1.9	1.9	1.8	13.7	12.7	11.5	35%	35%	35%	4.8%	5.1%	5.4%

Media company valuations

		EV	/ EBITD	A		EV/S			P/E		EBIT	DA mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Polish companies																
Agora	12.70	7.5	7.1	6.7	1.0	1.0	1.0	60.6	32.3	21.4	14%	14%	15%	3.9%	3.9%	3.9%
Wirtualna Polska	78.00	13.6	10.7	9.6	3.6	3.2	2.8	30.2	20.9	18.4	27%	29%	29%	1.3%	1.5%	2.5%
Median		10.5	8.9	8.2	2.3	2.1	1.9	45.4	26.6	19.9	20%	22%	22%	2.6%	2.7%	3.2%
Daily Mail																
Arnolgo Mondadori	1.98	7.0	6.4	6.4	0.7	0.7	0.7	14.2	12.9	13.0	10%	11%	11%	2.4%	2.9%	2.5%
Axel Springer	62.50	7.9	8.1	7.2	1.8	1.7	1.7	24.1	25.0	21.4	23%	21%	23%	3.4%	3.5%	3.7%
Daily Mail	823.00	9.3	10.2	9.6	1.3	1.3	1.3	21.8	20.3	19.1	13%	13%	13%	0.0%	0.0%	0.0%
Gruppo Editorial	0.46	6.5	6.2	5.7	0.5	0.6	0.6	-	19.9	14.7	8%	9%	10%	1.1%	2.0%	3.9%
New York Times	33.80	24.4	22.1	18.6	3.0	2.9	2.7	44.8	40.8	32.5	12%	13%	15%	0.6%	0.6%	0.7%
Promotora de Inform	1.42	8.8	7.5	6.9	1.8	1.8	1.6	24.0	16.1	9.9	21%	23%	24%	0.0%	0.0%	-
Median		8.3	7.8	7.1	1.5	1.5	1.5	24.0	20.1	16.9	13%	13%	14%	0.8%	1.3%	2.5%
т																
Atresmedia Corp	3.30	5.2	5.4	5.6	0.9	0.9	0.9	6.0	6.3	6.4	18%	17%	17%	13.2%	13.0%	12.2%
Gestevision Telecinco	5.34	6.5	7.1	7.4	1.7	1.7	1.7	9.0	9.2	9.4	26%	24%	23%	7.6%	8.6%	8.1%
ITV PLC	144.25	9.5	9.3	8.9	2.1	2.0	2.0	11.3	10.9	10.5	22%	22%	22%	0.0%	0.0%	0.0%
M6-Metropole Tel	15.42	5.2	5.1	5.0	1.3	1.3	1.3	11.2	10.8	10.4	25%	25%	26%	6.3%	6.5%	6.8%
Mediaset SPA	2.53	4.2	4.0	3.8	1.4	1.4	1.4	12.3	10.5	10.1	33%	35%	37%	4.5%	6.2%	6.5%
Prosieben	13.50	6.0	5.8	5.5	1.3	1.3	1.2	6.9	6.7	6.3	23%	22%	22%	7.5%	7.8%	7.4%
TF1-TV Francaise	7.21	3.1	3.1	2.9	0.6	0.6	0.6	8.6	7.9	7.0	20%	20%	21%	6.3%	6.8%	7.5%
Median		5.6	5.5	5.3	1.4	1.3	1.3	10.1	9.9	9.8	24%	23%	23%	6.3%	6.6%	7.1%
Pay TV																
Cogeco	105.82	6.0	5.8	5.7	2.8	2.8	2.7	15.2	13.9	13.8	48%	48%	48%	2.0%	2.2%	2.4%
Comcast	47.44	9.2	8.6	8.4	2.9	2.8	2.7	15.7	14.1	13.0	31%	32%	32%	1.7%	1.9%	2.1%
Dish Network	36.75	9.7	10.7	11.6	1.8	1.9	1.9	15.1	20.6	22.4	19%	18%	16%	0.0%	0.0%	0.0%
Liberty Global	20.16	4.3	4.2	4.2	1.7	1.8	1.8	-	-	-	41%	42%	43%	0.0%	0.0%	0.0%
Shaw Communications	19.88	7.8	7.4	7.1	3.2	3.1	2.9	18.8	19.2	17.8	41%	41%	42%	7.9%	7.9%	8.0%
Median		7.8	7.4	7.1	2.8	2.8	2.7	15.4	16.6	15.8	41%	41%	42%	1.7%	1.9%	2.1%

IT company valuations

		EV	/EBITD	4		EV/S			P/E		EBI	DA mare	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Polish companies																
Asseco Poland	66.70	5.4	5.2	4.9	0.8	0.8	0.7	16.8	16.3	15.9	15%	15%	15%	4.6%	4.6%	3.4%
Comarch	205.00	6.5	6.3	5.9	1.1	1.0	0.9	14.8	14.2	13.7	18%	16%	16%	0.7%	0.7%	0.7%
Median		5.9	5.7	5.4	1.0	0.9	0.8	15.8	15.3	14.8	16%	16%	15%	2.7%	2.7%	2.1%
Foreign companies																
Atos Origin	77.86	7.8	7.5	7.0	1.1	1.1	1.1	9.4	8.6	8.1	14%	15%	15%	2.1%	2.3%	2.5%
CapGemini	117.70	9.4	8.9	8.4	1.4	1.4	1.3	18.0	16.4	15.2	15%	15%	15%	1.6%	1.7%	1.9%
IBM	143.89	9.8	9.2	8.8	2.3	2.2	2.1	11.2	10.7	10.0	23%	24%	24%	4.5%	4.7%	4.9%
Indra Sistemas	11.04	6.9	6.5	6.1	0.8	0.7	0.7	14.7	12.7	11.5	11%	11%	11%	0.8%	1.4%	1.8%
Microsoft	165.70	22.5	19.6	17.5	9.6	8.6	7.7	36.1	31.5	27.9	43%	44%	44%	1.1%	1.2%	1.3%
Oracle	54.72	10.6	10.2	10.0	4.9	4.8	4.7	15.9	14.1	13.0	47%	47%	47%	1.5%	1.7%	1.8%
SAP	125.74	19.5	16.8	15.0	6.0	5.6	5.1	25.7	23.1	20.6	31%	33%	34%	1.2%	1.4%	1.5%
TietoEnator	29.36	10.3	9.2	8.9	1.5	1.3	1.3	15.8	15.3	14.7	14%	14%	14%	4.7%	5.0%	5.3%
Median		10.1	9.2	8.8	1.9	1.8	1.7	15.9	14.7	13.8	19%	19%	20%	1.5%	1.7%	1.9%

Source: mBank (stocks marked with bold), Bloomberg

Gaming company valuations

		EV/EBITDA				EV/S			P/E		EBIT	DA mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Gaming																
11 bit studios	449.00	28.7	32.2	7.1	13.0	12.8	4.5	45.0	53.7	10.8	45%	40%	63%	0.0%	0.0%	0.0%
CD Projekt	275.60	-	10.1	11.1	60.3	7.7	9.0	-	11.8	13.1	28%	76%	81%	0.4%	0.0%	0.0%
PlayWay	274.00	22.1	19.6	17.5	14.5	13.1	11.7	32.8	30.0	28.0	65%	67%	67%	0.9%	2.3%	2.5%
Activision Blizzars	60.32	19.4	16.5	15.2	6.8	6.2	5.7	27.4	23.7	20.9	35%	37%	37%	0.6%	0.6%	0.7%
Capcom	2998.00	15.3	13.8	12.4	3.7	4.0	3.6	24.5	20.6	19.4	24%	29%	29%	1.2%	1.3%	1.4%
Take Two	130.11	17.9	18.5	17.3	4.3	4.6	4.6	27.5	27.6	26.4	24%	25%	26%	-	-	-
Ubisoft	63.64	7.4	7.9	7.1	3.7	3.5	3.2	21.5	22.8	20.1	50%	44%	45%	0.0%	0.0%	0.0%
Electronic Arts	113.09	19.6	17.2	15.2	6.3	5.8	5.5	28.8	24.6	22.3	32%	34%	36%	-	0.0%	0.0%
Paradox Interactive	158.90	21.6	16.5	13.8	12.0	9.7	8.5	51.3	39.6	26.9	55%	59%	61%	1.2%	1.5%	1.2%
Mediana		19.5	16.5	13.8	6.8	6.2	5.5	28.2	24.6	20.9	35%	40%	45%	0.6%	0.3%	0.4%

Source: mBank (stocks marked with bold), Bloomberg

Steam Global Top Sellers

2020-01-23	Company	Position	D/D change	W/W change	1-week average	Price (PLN)	D/D change	W/W change	1-week average
Frostpunk	11 bit studios	12	-	+172	82	44	0%	-60%	70.40
Frostpunk: SP	11 bit studios	7	-2	-	62	88	0%	-	88.00
Frostpunk: GOTY	11 bit studios	11	-1	-	14	119	0%	-	119.00
Blair Witch	Bloober Team	200+	-	-	-	-	-	-	-
Cyberpunk 2077	CD Projekt	92	-3	-75	73	199	0%	0%	199.00
The Witcher 3: WH	CD Projekt	91	+11	-22	91	100	0%	0%	100.00
The Witcher 3: WH (GOTY)	CD Projekt	39	-	-15	36	150	0%	0%	150.00
Green Hell	Creepy Jar	200+	-	-	-	-	-	-	-
Chernobylite	The Farm 51	200+	-	-	-	-	-	-	-
Dying Light	Techland	200+	-	-	175	-	-	-	100.00

Steam Wishlist

2020-01-23	Company	Position	D/D change	W/W change	1-week average	Release date
Cyberpunk 2077	CD Projekt	1	-	-	1	2020-04-16
Alaskan Truck Simulator	Movie Games	54	+1	-	54	2020
Bum Simulator	PlayWay	41	+1	+2	42	2019
I am Your President	PlayWay	67	+1	+1	68	TBA
Junkyard Simulator	PlayWay	50	-	-	50	2019
Ship Builder Simulator	PlayWay	82	-	-2	81	TBA
Tank Mechanic Simulator	PlayWay	61	+1	+2	62	2019
Dying Light 2	Techland	3	-	-	3	Spring 2020

Source: Steam (Valve Corporation), Biuro maklerskie mBanku

Construction company valuations

		EV/EBITDA				EV/S			P/E		EBIT	DA mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Construction																
Acciona	101.30	8.4	8.3	8.0	1.5	1.4	1.4	19.3	19.1	17.9	17%	17%	17%	3.7%	3.9%	4.1%
Astaldi	0.57	0.4	0.4	0.5	0.0	0.0	0.0	0.7	0.7	0.7	9%	9%	6%	-	-	176%
Budimex	190.60	12.3	11.9	13.8	0.5	0.5	0.5	29.2	28.4	26.3	4%	5%	4%	5.1%	3.3%	3.0%
Ferrovial	29.33	-	43.4	39.7	4.5	4.5	4.4	-	47.8	42.0	3%	10%	11%	2.5%	2.6%	2.7%
Hochtief	118.20	4.5	4.4	4.0	0.3	0.3	0.3	12.6	11.9	11.4	6%	6%	7%	5.0%	5.4%	5.6%
Mota Engil	1.77	4.1	3.8	-	0.6	0.6	0.5	13.6	8.9	6.3	15%	15%	-	2.6%	6.2%	-
NCC	164.65	6.9	5.7	5.5	0.3	0.3	0.3	17.4	12.0	11.2	4%	5%	5%	3.8%	4.6%	4.7%
Skanska	225.30	9.3	9.9	9.3	0.5	0.5	0.5	16.6	16.8	15.8	6%	5%	6%	2.9%	3.2%	3.5%
Strabag	31.05	3.0	3.0	2.9	0.2	0.2	0.2	9.7	9.9	9.4	6%	6%	6%	4.2%	4.3%	4.6%
Median		5.7	5.7	6.8	0.5	0.5	0.5	15.1	12.0	11.4	6%	6%	6%	3.7%	4.1%	4.4%

Real-estate developers

		EV	/EBITD	4		P/BV			P/E		EBIT	DA mar	gin		DY	
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
RE Developers																
Atal	42.00	10.9	8.6	7.0	2.0	1.9	1.8	11.2	9.2	7.2	24%	23%	23%	11.2%	8.2%	9.9%
Dom Development	97.40	7.9	7.9	7.7	2.3	2.2	2.2	9.7	9.0	8.5	19%	20%	20%	9.3%	10.3%	11.1%
Develia	2.60	6.4	11.4	11.9	-	-	-	-	-	-	30%	28%	16%	14.6%	16.9%	12.5%
Echo Investment	5.08	9.4	12.0	12.5	1.3	1.3	1.2	8.0	8.0	11.0	55%	43%	36%	8.6%	8.5%	6.3%
GTC	9.60	16.2	15.0	14.4	1.0	1.0	1.0	11.5	10.6	10.2	83%	82%	79%	0.2%	0.2%	0.3%
CA Immobilien Anlagen	39.10	30.1	26.4	24.2	1.3	1.3	1.2	31.2	27.4	24.8	70%	65%	62%	2.5%	2.7%	2.9%
Deutsche Euroshop AG	25.20	15.4	15.4	15.4	0.7	0.7	0.7	14.1	13.6	13.1	88%	88%	88%	6.1%	6.3%	6.4%
Immofinanz AG	24.90	28.8	25.8	25.1	0.9	0.9	0.9	15.5	17.2	16.2	48%	56%	56%	3.6%	3.9%	4.2%
Klepierre	32.31	20.8	20.1	19.7	0.9	0.9	1.0	12.0	11.6	11.4	83%	86%	86%	6.8%	7.0%	7.1%
Segro	904.80	39.5	35.5	32.5	1.3	1.2	1.1	36.8	33.9	31.5	77%	80%	82%	0.0%	0.0%	0.0%
Median		15.8	15.2	14.9	1.3	1.2	1.1	12.0	11.6	11.4	62%	61%	59%	6.5%	6.6%	6.3%

Source: mBank (stocks marked with bold), Bloomberg

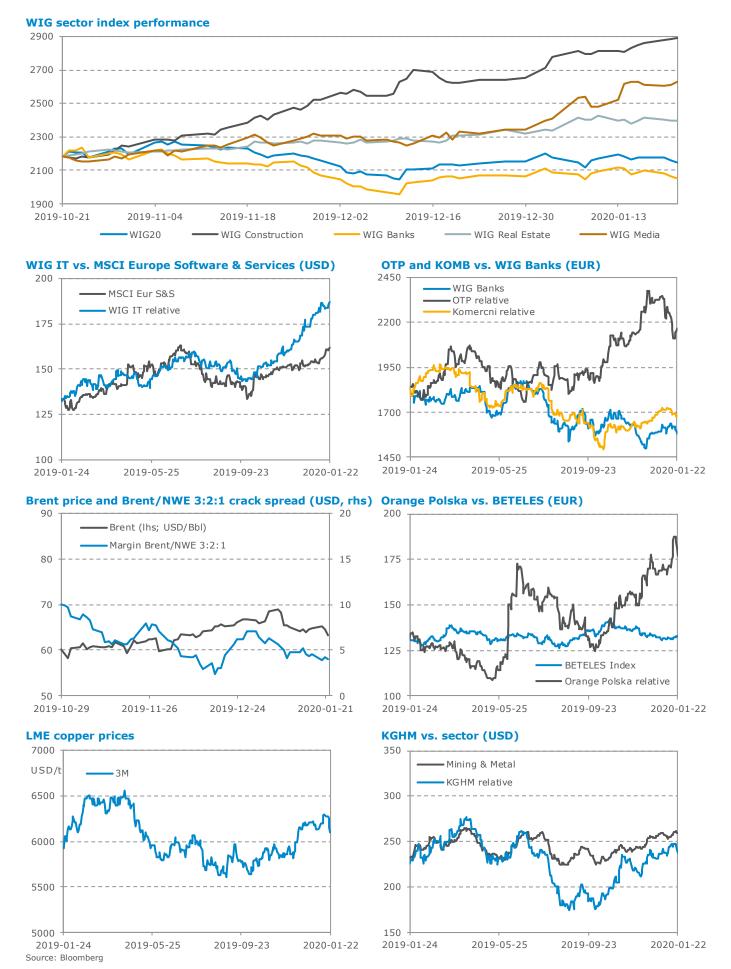
Clothing and footwear company valuations

	EV/EBITDA				EV/S			P/E EBI			SITDA margin			DY		
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Polish companies																
CCC	94.65	5.4	4.2	3.6	0.8	0.7	0.6	-	19.9	13.2	15%	17%	17%	0.5%	2.1%	2.1%
LPP	8635.00	10.8	9.2	7.9	1.7	1.4	1.2	25.6	18.9	15.1	15%	15%	15%	0.7%	0.5%	0.8%
VRG	3.92	4.8	4.4	3.9	0.9	0.8	0.7	15.1	12.5	11.3	19%	19%	19%	0.0%	0.0%	0.0%
Median		5.4	4.4	3.9	0.9	0.8	0.7	20.4	18.9	13.2	15%	17%	17%	0.5%	0.5%	0.8%
Foreign companies																
ABC Mart	7120.00	9.5	9.3	8.9	1.7	1.7	1.6	19.3	18.9	18.1	18%	18%	18%	2.2%	2.4%	2.4%
Adidas	315.05	17.9	16.4	14.7	2.6	2.5	2.3	32.2	28.4	24.7	15%	15%	16%	1.2%	1.4%	1.6%
Assoc Brit Foods	2670.00	10.2	9.6	9.1	1.3	1.2	1.2	19.6	18.2	16.9	13%	13%	13%	0.0%	0.0%	0.0%
Caleries	21.30	4.7	4.3	4.1	0.3	0.3	0.3	9.3	8.9	8.0	7%	7%	8%	1.3%	1.3%	1.3%
Crocs	42.37	19.2	16.6	15.5	2.5	2.3	2.2	30.5	26.6	22.4	13%	14%	14%	-	-	-
Foot Locker	39.78	4.0	3.9	3.9	0.5	0.4	0.4	8.7	8.0	7.7	11%	11%	11%	3.4%	3.8%	4.3%
Geox	1.16	5.4	4.3	3.0	0.4	0.4	0.3	-	21.8	14.5	7%	8%	11%	1.7%	2.8%	5.3%
H&M	186.54	10.1	9.5	9.0	1.2	1.2	1.1	23.6	21.7	20.3	12%	12%	12%	5.2%	5.1%	5.1%
Hugo Boss	45.68	5.8	5.5	5.2	1.1	1.1	1.0	13.0	11.7	10.8	19%	19%	20%	6.0%	6.6%	7.1%
Inditex	31.03	16.1	12.0	11.4	3.4	3.2	3.0	27.8	25.4	23.7	21%	27%	26%	2.6%	3.4%	3.7%
KappAhl	20.02	6.0	5.6	5.7	0.4	0.4	0.4	10.6	10.4	10.8	7%	7%	7%	5.2%	5.0%	5.0%
Lululemon	244.30	35.2	29.4	25.4	8.9	7.5	6.5	65.2	51.5	43.5	25%	26%	26%	0.0%	0.0%	0.0%
Nike	104.49	23.0	20.7	18.2	3.3	3.1	2.9	40.5	35.2	30.3	15%	15%	16%	0.8%	0.9%	1.0%
Under Armour	20.52	9.5	7.8	6.2	0.8	0.7	0.7	60.7	43.0	31.8	8%	9%	11%	0.0%	0.0%	0.0%
Median		9.8	9.4	8.9	1.2	1.2	1.1	23.6	21.8	19.2	13%	13%	13%	1.7%	2.4%	2.4%

Luxury, e-commerce, and food retail company valuations

		EV/EBITDA EV/S			EV/S		P/E EBITDA mar				rgin DY					
	Price	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Luxury goods																
Estee Lauder	212.64	15.4	13.7	12.5	3.2	3.0	2.8	40.6	35.5	31.9	21%	22%	22%	0.8%	0.9%	1.0%
Hermes Internetional	711.20	27.3	25.0	22.9	10.5	9.7	9.0	49.4	44.7	40.5	39%	39%	39%	0.8%	0.9%	1.0%
Kering	592.20	14.1	12.9	12.2	4.9	4.5	4.2	23.8	20.9	19.3	35%	35%	35%	1.9%	2.2%	2.4%
LVMH	423.45	15.5	14.2	13.2	4.2	3.9	3.6	29.2	26.4	24.2	27%	27%	27%	1.6%	1.8%	2.0%
Moncler	41.49	17.4	15.4	13.9	6.2	5.5	5.0	28.5	26.5	23.8	36%	36%	36%	1.1%	1.2%	1.4%
Median		15.5	14.2	13.2	4.9	4.5	4.2	29.2	26.5	24.2	35%	35%	35%	1.1%	1.2%	1.4%
E-commerce																
Asos	3024.00	22.9	16.0	12.3	1.0	0.8	0.7	-	50.2	34.0	4%	5%	6%	0.0%	0.0%	0.0%
boohoo.com	314.10	43.1	30.5	24.4	4.2	3.0	2.4	-	60.4	46.9	10%	10%	10%	0.0%	0.0%	0.0%
Zalando	46.77	31.1	25.2	19.8	1.7	1.4	1.2	-	-	69.0	6%	6%	6%	0.0%	0.0%	0.0%
Median		31.1	25.2	19.8	1.7	1.4	1.2	-	55.3	46.9	6%	6%	6%	0.0%	0.0%	0.0%
Retail																
Dino	166.90	23.7	18.0	13.9	2.2	1.7	1.3	40.2	29.9	22.5	9%	9%	10%	0.0%	0.0%	0.0%
Eurocash	21.00	7.7	7.3	6.9	0.1	0.1	0.1	-	42.4	29.4	2%	2%	2%	4.9%	2.8%	3.6%
Jeronimo Martins	15.45	9.6	8.7	8.2	0.5	0.5	0.5	21.9	19.7	18.8	6%	6%	6%	1.8%	1.9%	1.9%
Carrefour	14.46	4.7	4.3	4.0	0.2	0.2	0.2	12.6	10.9	10.1	5%	5%	5%	3.5%	4.0%	4.1%
AXFood	199.15	10.2	9.9	9.7	0.9	0.9	0.8	25.5	24.9	24.5	9%	9%	9%	3.5%	3.5%	3.4%
Tesco	241.90	7.7	5.4	5.2	0.4	0.4	0.4	17.0	14.2	13.2	5%	8%	8%	0.0%	0.0%	0.0%
Ahold	21.95	6.5	6.3	6.2	0.5	0.5	0.5	13.6	12.6	12.0	8%	8%	8%	3.4%	3.7%	3.9%
X 5 Retail	2150.50	6.0	5.5	5.1	0.4	0.4	0.4	14.7	13.1	11.9	7%	7%	7%	4.9%	6.0%	6.9%
Magnit	3750.00	5.6	4.9	4.5	0.4	0.4	0.3	14.6	11.3	8.4	7%	7%	7%	5.8%	6.1%	7.2%
Sonae	0.86	9.6	9.0	6.9	0.8	0.7	0.7	11.8	10.2	10.4	8%	8%	10%	5.1%	5.6%	5.7%
Median		7.7	6.8	6.6	0.5	0.5	0.4	14.7	13.7	12.6	7%	7%	7%	3.5%	3.6%	3.8%

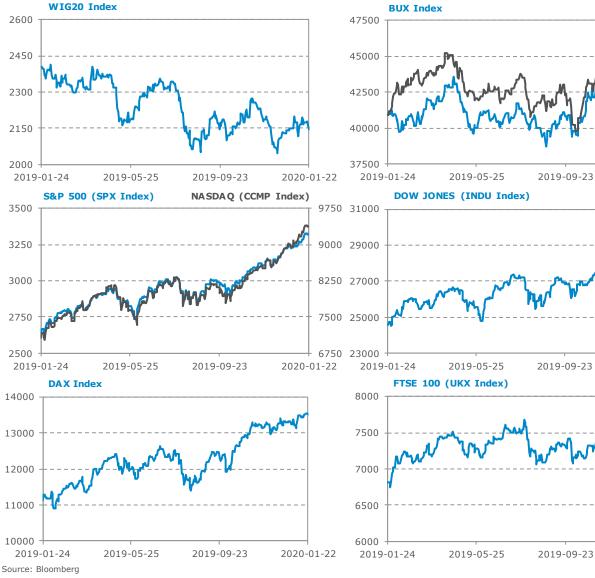
Source: mBank (stocks marked with bold), Bloomberg





Global Market Overview

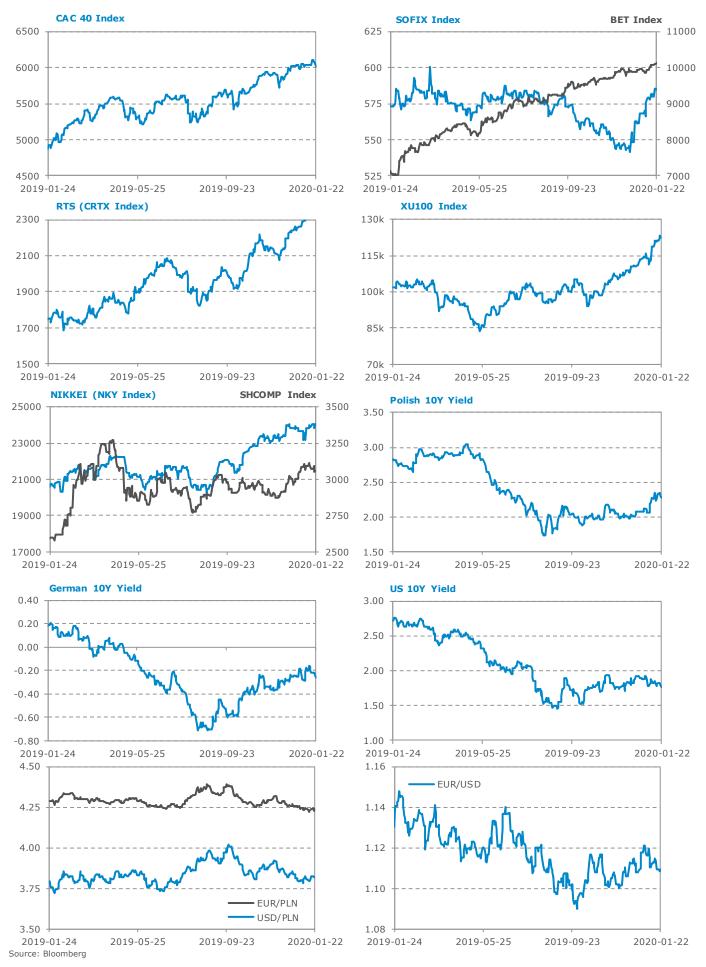
Index	Date	Open	Maximum	Minimum	Close	Change
DJIA	2020-01-22	29,263.63	29,320.20	29,172.26	29,186.27	-0.03%
S&P 500	2020-01-22	3,330.02	3,337.77	3,320.04	3,321.75	+0.03%
NASDAQ	2020-01-22	9,413.61	9,439.29	9,375.13	9,383.77	+0.14%
DAX	2020-01-22	13,601.65	13,640.06	13,498.03	13,515.75	-0.30%
CAC 40	2020-01-22	6,053.85	6,069.26	6,005.77	6,010.98	-0.58%
FTSE 100	2020-01-22	7,610.70	7,637.35	7,563.52	7,571.92	-0.51%
WIG20	2020-01-22	2,168.44	2,172.76	2,144.68	2,146.56	-0.53%
BUX	2020-01-22	44,129.07	44,629.95	44,129.07	44,597.05	+1.05%
ΡX	2020-01-22	1,130.28	1,140.66	1,130.28	1,140.48	+0.92%
RTS	2020-01-22	2,387.68	2,399.75	2,350.66	2,350.66	-1.54%
SOFIX	2020-01-22	585.28	586.39	584.16	584.90	-0.06%
BET	2020-01-22	10,100.33	10,184.36	10,087.28	10,131.77	+0.35%
XU100	2020-01-22	124,215.90	124,536.60	122,368.70	122,747.10	-0.65%
BETELES	2020-01-22	133.11	133.57	132.56	132.95	+0.02%
NIKKEI	2020-01-22	23,835.49	24,040.87	23,831.10	24,031.35	+0.70%
SHCOMP	2020-01-22	3,038.49	3,069.25	3,006.27	3,060.75	+0.28%
Copper (LME)	2020-01-22	6,151.50	6,178.00	6,095.50	6,106.00	-0.88%
Crude Oil (Brent)	2020-01-22	63.83	63.98	62.09	62.17	-2.74%
USD/PLN	2020-01-22	3.8171	3.8302	3.8144	3.8204	+0.09%
EUR/PLN	2020-01-22	4.2299	4.2415	4.2283	4.2380	+0.19%
EUR/USD	2020-01-22	1.1082	1.1098	1.1070	1.1093	+0.10%
USBonds10	2020-01-22	1.7813	1.7917	1.7569	1.7691	-0.0052
GRBonds10	2020-01-22	-0.2430	-0.2400	-0.2720	-0.2600	-0.0120
PLBonds10	2020-01-22	2.2890	2.2950	2.2640	2.2710	-0.0180





2020-01-22

2020-01-22





List of abbreviations and ratios contained in the report: EV – net debt + market value (EV – economic value EBIT – Earnings Before Interest and Taxes EBITDA – EBIT + Depreciation and Amortisation PBA - Profit on Banking Activity P/CE – price to earnings with amortisation MC/S – market capitalisation to sales MC/S - market capitalisation to sales EBIT/EV - operating profit to economic value P/E - (Price/Earnings) - price divided by annual net profit per share ROE - (Return on Equity) - annual net profit divided by average equity P/BV - (Price/Book Value) - price divided by book value per share Net debt - credits + debt papers + interest bearing loans - cash and cash equivalents EBITDA margin - EBITDA/Sales

OVERWEIGHT (OW) – a rating which indicates that we expect a stock to outperform the broad market NEUTRAL (N) – a rating which indicates that we expect the stock to perform in line with the broad market UNDERWEIGHT (UW) – a rating which indicates that we expect the stock to underperform the broad market

Recommendations of Biuro maklerskie mBanku: A recommendation is valid for a period of 9 months, unless a subsequent recommendation is issued within this period. Expected returns from individual recommendations are as follows: BUY - we expect that the rate of return from an investment will be at least 15% ACCUMULATE - we expect that the rate of return from an investment will range from 5% to 15% HOLD - we expect that the rate of return from an investment will range from -5% to +5% REDUCE - we expect that the rate of return from an investment will range from -5% to -15% SELL - we expect that an investment will be a loss greater than 15% Recommendations are undertod at least anon once incoments. Recommendations are updated at least once every nine months.

mBank S.A. with its registered office in Warsaw at Senatorska 18 renders brokerage services in the form of derived organisational unit - Brokerage Office which uses name Biuro maklerskie mBanku.

mBank S.A. as part of the Exchange's Analytical Coverage Support Programme ("Programme", https://www.gpw.pl/eacsp) prepares analytical reports for the following companies: Cognor Holding, Comarch, VRG. These documents are prepared at the request of Gielda Papierów Wartościowych w Warszawie S.A. ('WSE'), which is entitled to copyrights to these materials. mBank S.A. receives remuneration from the WSE for the preparation of the reports. All documents prepared for the Programme are available at: https://www.mdm.pl/ui-pub/site/market_and_analysis/analysis_and_recommendations/analytical_coverage_support_programme

This document has been created and published by Biuro maklerskie mBanku. The present report expresses the knowledge as well as opinions of the authors on day the report was prepared. The opinions and estimates contained herein constitute our best judgment at this date and time, and are subject to change without notice. The present report was prepared with due care and attention, observing principles of methodological correctness and objectivity, on the basis of sources available to the public, which Biuro maklerskie mBanku considers reliable, including information published by issuers, shares of which are subject to recommendations. However, Biuro maklerskie mBanku, in o case, guarantees the accuracy and completeness of the report, in particular should sources on the basis of which the report was prepared prove to be inaccurate, incomplete or not fully consistent with the facts. mBank S.A. bears no responsibility for investment decisions taken on the basis of the present report.

This document does not constitute an offer or invitation to subscribe for or purchase any financial instruments and neither this document nor anything contained herein shall form the basis of any contract or commitment whatsoever. It is being furnished to you solely for your information and may not be reproduced or redistributed to any other person This document does not constitute investment, legal, accounting or other advice, and mBank is not liable for damages resulting from or related to the use of data provided in the documents. This document may not be copied, duplicated and/or be directly or indirectly distributed in the United States, Canada, Australia or Japan, nor transferred to citizens or residents of a state where its distribution may be legally restricted, which does not limit the possibility of publishing materials prepared for the Programme on Cognor Holding, Comarch, VRG, mBank or WSE websites. Persons who disseminate this document should be aware of the need to comply with such restrictions.

Recommendations are based on essential data from the entire history of a company being the subject of a recommendation, with particular emphasis on the period since the previous recommendation. Investing in shares is connected with a number of risks including, but not limited to, the macroeconomic situation of the country, changes in legal regulations as well as changes on commodity markets. Full elimination of these risks is virtually impossible.

nendations are based on essential data from the entire history of a company being the subject of a recommendation, with particular emphasis on the period since the previous recommendation. Reco

Investing in shares is connected with a number of risks including, but not limited to, the macroeconomic situation of the country, changes in legal regulations as well as changes on commodity markets. Full elimination of these risks is virtually impossible

mBank S.A. bears no responsibility for investment decisions taken on the basis of the present report or for any damages incurred as a result of investment decisions taken on the basis of the present report.

It is possible that mBank S.A. in its brokerage activity renders, will render or in the past has rendered services for companies and other entities mentioned in the present report.

mBank S.A. does not rule out offering brokerage services to an issuer of securities being the subject of a recommendation. Information about any conflicts of interest that may arise in connection with the issuance of recommendations (should such a conflict exist) is provided below, and it is valid as of the date of the most recent Monthly Report published by Biuro maklerskie mBanku or as of the date of the most recent recommendation issued for an Issuer, as applicable.

This document was not transferred to the issuers prior to its publication.

mBank S.A. may have received compensation from the following companies in the last 12 months: ABC Data, Alchemia, Alior Bank, Ambra, Amica, Bank Handlowy, Bank Millennium, Bank Pekao, BGŻ BNP Paribas, BoomBIT, Boryszew, Capital Park, CD Projekt, Centrum Nowoczesnych Technologii, Ceramika Nowa Gala, CI Games, Cognor, Echo Investment, Elemental Holding, Elzab, Enea, Energoaparatura, Erbud, Ergis, Erste Bank, Famur, Ferrum, Gettack, Getin Holding, Getin Noble Bank, Globalworth Poland, Grodin, Helio SA, Impexmetal, INDATA, ING BSK, Kopex, Kruk, LW Bogdanka, Mangata, MCI Capital, Mennica Polska, Mostostal Warszawa, Netia, Neuca, NWAI Dom Maklerski, Oponeo.pl, Orbis, OTP Bank, PA Nova, PBKM, PEKABEX, Pfleiderer Group, PCNIG, PKO BP, Polenergia, Polimez-Mostostal, Polnord, Polwax, Prime Car Management, Primetech, Prochem, Projprzem, PZU, Raiffeisen Bank International, Rawlplug, Rubicon Partners NFI, Santander Bank Polska, Seco/Warwick, Skarbiec Holding, Solar Company, Sygnity, Tarczyński, Trakcja, Unibep, Vistal Gdynia, Wittchen, Work Service, YOLO, Zastal, ZUE.

In the last 12 months mBank S.A. has acted as dealer-manager for tender or exchange offers for the shares of: ABC Data, BoomBIT, Centrum Nowoczesnych Technologii, Ceramika Nowa Gala, CI Games, Ergis, Globalworth Poland, Helio SA, MCI Capital, Mostostal Warszawa, NWAI Dom Maklerski, Orbis, Pfleiderer Group, Prime Car Management, Primetech.

Asseco Poland provides IT services to mBank S.A.

mBank S.A. has a cash service agreement in place with Pekao and a phone subscription agreement in place with Orange Polska S.A.

mBank S.A., its shareholders and employees may hold long or short positions in the issuers' shares or other financial instruments related to the issuers' shares. mBank, its affiliates and/or clients may conduct or may have conducted transactions for their own account or for account of another with respect to the financial instruments mentioned in this report or related investments before the recipient has received this report.

Copying or publishing the present report, in full or in part, or disseminating in any way information contained in the present report requires the prior written agreement of mBank S.A. Recommendations are addressed to all Clients of Biuro maklerskie mBanku

Recommendations are addressed to all Clients of Biuro maklerskie mBanku.

All investment recommendations and strategies issued by mBank S.A. over the last 12 months are available at: http://www.mdm.pl/ui-pub/site/market_and_analysis/analysis_and_recommendations/fundamental_analysis/recommendations?recent_filter_active=true&lang=en

The activity of mBank S.A. is subject to the supervision of the Polish Financial Supervision Commission

Individuals who did not participate in the preparation of recommendations, but had or could have had access to recommendations prior to their publication, are employees of Biuro maklerskie mBanku authorised to access the premises in which recommendations are prepared and/or individuals having to access to recommendations based on their corporate roles, other than the analysts mentioned as the authors of the present recommendations.

This publication constitutes investment research within the meaning of Art. 36.1 of Commission Delegated Regulation (EU) 2017/565

The compensation of the research analysts responsible for preparing investment research is determined independently of and without regard to the compensation of or revenue generated by any other employee of the Bank, including but not limited to any employee whose business interests may reasonably be considered to conflict with the interests of the persons to whom the investment research prepared by the Research Department of Biuro maklerskie mBanku is disseminated. With that being said, since one of the factors taken into consideration when determining the compensation of research analysts is the degree of fulfillment of annual financial targets by customer service functions, there is a risk that the adequacy of compensation offered to persons preparing investment research will be questioned by a completent oversight body.

For U.S. persons only: This research report is a product of mBank SA which is the employer of the research analyst(s) who has prepared the research report. The research analyst(s) preparing the research report is/ are resident outside the United States (U.S.) and are not associated persons of any U.S. regulated broker-dealer and therefore the analyst(s) is/are not subject to supervision by a U.S. broker-dealer, and is/are not required to satisfy the regulatory licensing requirements of FINRA or required to otherwise comply with U.S. rules or regulations regarding, among other things, communications with a subject company, public appearances and trading securities held by a research analyst account. This report is intended for distribution by mBank SA only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the U.S. Securities and Exchange Act, 1934 (the Exchange Act) and interpretations thereof by U.S. Securities and Exchange Commission (SEC) in reliance on Rule 15a 6(a)(2). If the recipient of this report and Major Institutional Investor. In reliance on the exemption from registration provided by Rule 15a-6 (b)(4) or transmitted onward to any U.S. person, which is not the Major Institutional Investor. In reliance on the exemption from registration provided by Rule 15a-6 (b)(4) by the SEC in order to conduct certain business with Major Institutional Investors, mBank SA has entered into an agreement with a U.S. registered broker-dealer, Cabrera Capital Markets. ("Cabrera"). Transactions in securities discussed in this research report should be effected through Cabrera or another U.S.

Strong and weak points of valuation methods used in recommendations:

DCF - acknowledged as the most methodologically correct method of valuation; it consists in discounting financial flows generated by a company; its weak point is the significant susceptibility to a change of forecast assumptions in the model.

assumptions in the model. Relative – based on a comparison of valuation multipliers of companies from a given sector; simple in construction, reflects the current state of the market better than DCF; weak points include substantial variability (fluctuations together with market indices) as well as difficulty in the selection of the group of comparable companies. Economic profits – discounting of future economic profits; the weak point is high sensitivity to changes in the assumptions made in the valuation model. Discounted Dividends (DDM) – discounting of future dividends; the weak point is high sensitivity to changes in the assumptions as to future dividends made in the valuation model. NAV - valuation based on equity value, one of the most frequently used method in case of developing companies; the weak point of the method is that it does not factor in future changes in revenue/profits of a company.

registered broker dealer.

mBank S.A. Senatorska 18 00-950 Warszawa http://www.mbank.pl/

Research Department

Kamil Kliszcz director +48 22 438 24 02 kamil.kliszcz@mbank.pl energy, power generation

Jakub Szkopek +48 22 438 24 03 jakub.szkopek@mbank.pl industrials, chemicals, metals

Aleksandra Szklarczyk +48 22 438 24 04 aleksandra.szklarczyk@mbank.pl construction, real-estate development

Sales and Trading

Traders

Piotr Gawron director +48 22 697 48 95 piotr.gawron@mbank.pl

Adam Prokop +48 22 697 47 90 adam.prokop@mbank.pl

Sales, Foreign Markets

Bartosz Orzechowski +48 22 697 48 47 bartosz.orzechowski@mbank.pl

Private Client Sales

Kamil Szymański director +48 22 697 47 06 kamil.szymanski@mbank.pl Michał Marczak +48 22 438 24 01 michal.marczak@mbank.pl strategy

Paweł Szpigiel +48 22 438 24 06 pawel.szpigiel@mbank.pl media, IT, telco

Piotr Poniatowski +48 22 438 24 09 piotr.poniatowski@mbank.pl industrials

Krzysztof Bodek +48 22 697 48 89 krzysztof.bodek@mbank.pl

Magdalena Bernacik +48 22 697 47 35 magdalena.bernacik@mbank.pl

Jędrzej Łukomski +48 22 697 49 85 jedrzej.lukomski@mbank.pl

Jarosław Banasiak deputy director +48 22 697 48 70 jaroslaw.banasiak@mbank.pl Michał Konarski +48 22 438 24 05 michal.konarski@mbank.pl banks, financials

Piotr Bogusz +48 22 438 24 08 piotr.bogusz@mbank.pl retail, gaming

Mikołaj Lemańczyk +48 22 438 24 07 mikolaj.lemanczyk@mbank.pl financials

Tomasz Jakubiec +48 22 697 47 31 tomasz.jakubiec@mbank.pl

Andrzej Sychowski +48 22 697 48 46 andrzej.sychowski@mbank.pl