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## Morning Comments

### Equity Market, Poland

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<b>DJIA</b>	29,398.1	-0.09%	<b>FTSE 100</b>	7,409.1	-0.58%	<b>Copper (LME)</b>	5,760.0	-0.52%
<b>S&amp;P 500</b>	3,380.2	+0.18%	<b>WIG20</b>	2,115.3	-0.23%	<b>Crude Oil (Brent)</b>	57.22	+1.49%
<b>NASDAQ</b>	9,731.2	+0.20%	<b>BUX</b>	44,906.0	+0.62%	<b>USD/PLN</b>	3.9225	+0.15%
<b>DAX</b>	13,744.2	-0.01%	<b>PX</b>	1,102.9	-0.11%	<b>EUR/PLN</b>	4.2480	+0.04%
<b>CAC 40</b>	6,069.4	-0.39%	<b>PLBonds10</b>	2.194	-0.037	<b>EUR/USD</b>	1.0831	-0.09%

### Company & Sector News

#### OTP Bank

Hold – 2019-12-05

Target price: HUF 14,681.00

#### KBC is leading in race for OTP's Slovakian unit

According to Dennik N, Belgian KBC is leader in contest for OTP's entity in Slovakia, however information wasn't confirmed by any of interested sides. If it really turns out to KBC acquired bank from OTP, it very likely that it will be merged with currently owned by KBC, CSOB. **We recall that OTP decided to withdraw from Slovakian market, due lack of scale and poor profitability. Slovakian OTP unit has minor impact on bank's valuation as we value it at HUF 84 per share. (M. Konarski, M. Lemańczyk)**

#### PGNiG

Hold – 2020-01-28

Target price: PLN 4.06

#### Strong Q4 preliminary results

PGNiG reported preliminary figures for Q4 with EBITDA at PLN 1.57bn (our estimate at PLN 1.3bn) and net profit PLN 0.03bn (our estimate PLN 0.4bn). However, Q4 figures were distorted by several one-offs: dry wells provisions at PLN -0.14bn (our assumption at PLN -0.1bn), assets impairments at PLN -0.23bn (o/w -0.21bn in upstream) and PGG's shares impairment at PLN -0.27bn (booked below EBITDA line). Additionally company booked inventories' impairment in trading segment at PLN -0.34bn which is of course a part of the business model (and recent gas prices decline may result in further losses on inventories in 2020) but it should be applied rather to Q1'20 results instead of Q4. **Adjusted EBITDA line would be therefore PLN 1.94bn (before inventories losses even PLN 2.3bn) vs our estimate at PLN 1.4bn.** Positive surprises occurred almost in every segment; in upstream adj EBITDA amounted to 1.04bn vs expected PLN 0.92bn, in distribution EBITDA was PLN 0.51bn vs expected PLN 0.43bn (lower balancing costs at PLN -0.17bn vs expected -0.19bn) and in heat generation business EBITDA came in at PLN 0.41bn vs expected PLN 0.34bn (CO<sub>2</sub> provisions reversal was in line with expectations at PLN 0.08bn). However, the biggest surprise was recorded in trading segment where EBITDA amounted to PLN -10m vs expected PLN -250m, despite mentioned inventory loss. Company reported PLN +188m impact from hedging activity, however this figure is not very helpful in understanding the beat as it reflects hedges both on the cost and revenue side. In our view, the main source of strong results here are the higher realized price: 1) in retail business as pricelists for SME's were not updated in line with market prices drop; 2) company sold significant volumes at TGE at much higher prices in 2018. This thesis may be verified after full reported being published. **Preliminary Q4 EBITDA figures after adjustments are PLN 0.5bn higher than our estimates and we expect positive market reaction today, even despite the fact that Q4 beat should not be 1:1 extrapolated in FY 2020, especially in trading business (further gas prices drop, gas/oil spread increasing, hedges realized at TGE at much lower prices).** (K. Kliszcz)

### Telecommunications

#### UPC Polska results for 2019

Liberty Global has published the financial report for 2019. UPC Polska has gained 36k new customers within 2019, sold 115k new services (RGU) and has added 84k households in its network coverage. The UPC network coverage is currently 3,548k households, the number of clients is 1,484k, no of RGUs accounts for 3,168k (2.13 RGU / client). The flagship products of UPC Polska are of course broadband (1,230k RGUs) and digital TV (1,067k RGUs). The company currently has only 9k mobile customers, however, is focused on significant growth in this area in short term. In 2019, UPC Polska had USD 426m, i.e. PLN 1.634 bn (+ 2.7% y / y). UPC Polska CEO said it was the best year in the last 5 years for the company. The president does not expect that the merger of Vectra and Multimedia will radically change the conditions of the market game. UPC Polska has high hopes for a new element of its strategy, i.e. the introduction of its own services into wholesale FTTH networks built as part of the Digital Poland Operational Program (POPC). The operator has already signed a contract with Inea and wants contracts with Orange or Nexera as well. The sale of services in 2020 is to stimulate the introduction of a new Horizon UX decoder and a new offer of WiFi devices. (P. Szpigiel)

## Automotive, European Industry

### Fiat Chrysler halts production in Serbia over China disruption

Fiat Chrysler (FCA) said on Friday it had temporarily halted production at its Serbian plant, the first such suspension by an automaker in Europe in response to the coronavirus outbreak in China. Planned downtime at the Kragujevac plant in Serbia, where FCA builds its Fiat 500L car, has been rescheduled "due to availability of certain components sourced in China", a spokesman for the Italian American automaker said. **For more information please visit <https://tinyurl.com/yx67plqo>** In our opinion, in the near future, a number of European manufacturers may be affected by suspending the supply of components needed for production from China. In our opinion, it is worth noting that in the case of Amica 40-60% of supplies come from China. If the period of exclusions in China extends, then they may feel a drop in sales in subsequent periods, because there is a shortage of goods for sale (stock is usually 6-7 weeks of consumption). In addition, AC SA and Apator base their product on control systems imported from China. Cognor may suffer from a shortage of graphite electrodes on the market, which China is a significant producer. KGHM is also under threat, which places about 10% of revenues on the Chinese market or Elemental (20-30% of sales to China). On the supply side, more difficult availability of goods can be a problem for Ferro, from where the company purchases semi-finished products. Polish chemical companies (Ciech and Grupa Azoty), which do not sell directly to China, could be the winners of production downtime in Asia. China was historically the world leader in the production of fertilizers and soda. The decrease in production in China may translate into smaller competition from the East and better sales volumes and obtained prices of Polish chemical producers. (J. Szkopek) (J. Szkopek)

## Automotive, China

### China's auto sales may fall 10% in H1 due to coronavirus

China's auto market, the world's largest, is likely to see sales slide more than 10% in the first half of the year due to the coronavirus epidemic, the country's top auto industry body told Reuters on Friday. Its forecast is grimmer than an initial prediction made last month for a 2% dip in sales this year. It has also asked Beijing to offer more fundraising support and credit lines to companies. **For more information please visit <https://tinyurl.com/s8dv7ym>** Worth to mention German automotive producers have quite significant exposition to Asia market. VW sells 18% to Asia, Daimler sells 12% directly to China and BMW 20% to China. (J. Szkopek)

## Copper

### Copper edges up as China cuts rates on medium-term loans

Copper prices edged up on Monday after China's central bank lowered the interest rate on its medium-term loans to support an economy jolted by disruptions to logistics and factory output due to the coronavirus outbreak. The PBOC said on Saturday Chinese lenders will tolerate higher levels of bad loans to support firms hit by the epidemic, which has killed over 1,700 people and infected about 70,550 in China, where it is severely disrupting business activities. **For more information please visit <https://tinyurl.com/rocx9kz>** We believe that copper next to steel may be the most exposed raw material as a result of the spread of coronavirus. In the case of copper, China is responsible for 50% of metal consumption, and downtime translates into weaker demand for concentrates and copper, and an increase in inventories. It is worth noting that KGHM places about 10% of sales in China. (J. Szkopek)

## Precious metals

### Gold holds near 2-week high on uncertainty over virus impact

Gold prices on Monday held near a two-week high scaled in the previous session as uncertainty prevailed over the impact of the coronavirus outbreak on the global economy. The death toll from the outbreak in mainland China reached 1,770 by Sunday, up by 105 from the previous day, the country's National Health Commission. **For more information please visit <https://tinyurl.com/wa7l9he>** (J. Szkopek)

## 11 bit studios

Hold – 2020-02-05  
Target price: PLN 439.00

### Frostpunk production contract for mobile devices

Games developer 11 bit studios inked a deal with an unspecified "leading global" mobile games company to produce a mobile version of its game Frostpunk for devices with iOS and Android operating systems. This is another step in building Frostpunk as a multi-platform global brand. Cooperation details and game release date will be published later. **Developing a mobile version of Frostpunk will allow 11B to further exploit the commercial potential of the game.** (P. Bogusz)

## More News

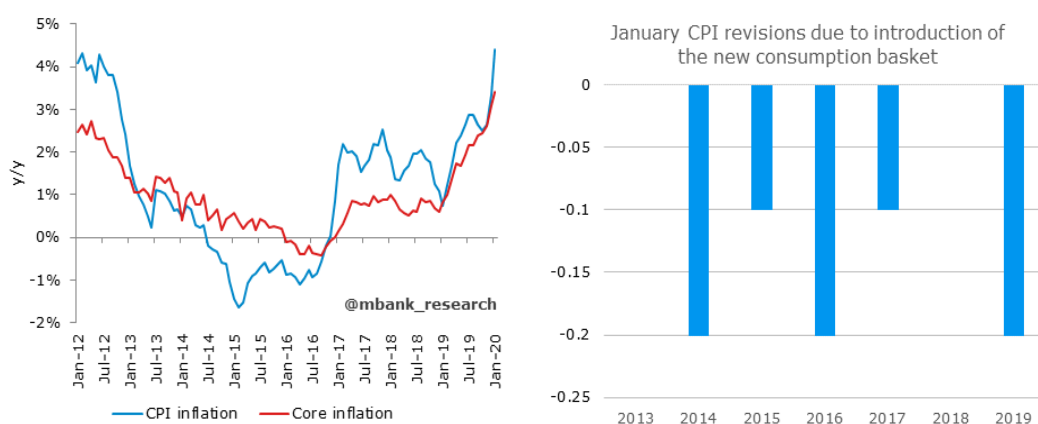
<b>Alumetal</b>	<p>Alumetal stands by its dividend policy of distributing 70% annual net profit among shareholders, CEO Agnieszka Drzyzdzyk told PAP.</p> <p>Alumetal plans to double capex in 2020 vs last year, CEO Agnieszka Drzyzdzyk told PAP. Alumetal earlier estimated its 2019 investment outlays at ca. PLN 40 mln.</p> <p>Alumetal expects its 2020 sales volumes to considerably exceed 200k tons of alloys, CEO Agnieszka Drzyzdzyk told PAP.</p>
<b>Banking</b>	<p>Polish commercial banks posted a PLN 185 mln profit in December, vs a prior-year period loss, putting 2019 result to PLN 14.68 bln, data from financial market regulator KNF show.</p> <p>Alior Bank reached a deal with four trade unions, thus ending a collective dispute over an increase in remuneration for all the bank's employees holding employment contracts, the bank said in a market filing.</p>
<b>CNG</b>	<p>Ceramika Nowa Gala and its unit Ceramika Gres will have their products sold by peer Cerrad, which recently increased its stake in the firm to 82.8% as a result of a tender offer, CNG said in a market filing of deals signed with Cerrad. Cerrad will also commission manufacturing some of its products to CNG, according to the deals.</p>
<b>Coal</b>	<p>Polish miners sold 4.5 mln tons of coal in December 2019, down from 4.9 mln tons in November and from 4.8 mln tons in the prior year period, industry development agency ARP said in a statement.</p>
<b>Fertilizers</b>	<p>Polish farmers will be able to start using nitrogen fertilizers as of February 15 this year, i.e. earlier than the March 1 date included in the EU regulations, the ministry of agriculture said in a statement, citing a nod from the EC.</p>
<b>Fuel</b>	<p>Poland had transfer of oil via the Druzhba pipeline restored following the discovery of a crack in the pipeline by the Belarussian operator Gomeltransneft Druzhba, Gomeltransneft said in a statement.</p>
<b>Housing</b>	<p>Poland hopes to maintain apartment handovers at over 200k in 2020 thanks to a freshly amended construction law expected to shorten the investment process, Development Minister Jadwiga Emilewicz said as quoted in the ministry's statement.</p>
<b>Miedzi Copper</b>	<p>Copper miner Miedzi Copper secured approval for geological documentation of a new copper and silver ores deposit Nowa Sol, the company said in a press release. The deposit is expected to contain 848 mln tons of copper and silver ore, 11 mln tons of copper and 36k tons of silver.</p>
<b>Mirbud</b>	<p>Mirbud filed a PLN 164.7 mln gross best bid in a tender by the regional road and railway authority in Wroclaw for construction of a road in the Dolnoslaskie region, the company said in a market filing.</p>
<b>Mo-Bruk</b>	<p>Mo- Bruk wants to allocate PLN 12.3 mln from its retained profits to dividend, or PLN 3.51 DPS, according to draft resolutions for the company's EGM scheduled for March 3.</p>
<b>Murapol</b>	<p>Joint venture of real estate group Ares Management Corp. and Griffin Real Estate bought a 98.04% stake in a major non-listed real estate developer Murapol for an undisclosed sum, a press statement from the buyers shows.</p>
<b>OFE</b>	<p>Poland's lower house approved the draft bill on OFE pension funds wind-down, giving its nod to transferring the OFE moneys into private pension accounts IKE.</p>
<b>PGG</b>	<p>PGG spent PLN 389 mln on the 2020 "fourteenth salary" annual bonus, according to the company's press office.</p>
<b>PKN Orlen</b>	<p>PKN Orlen plans to continue the Ostroleka C project after it takes over power group Energa and is mulling various options regarding the investment, CEO Daniel Obajtek told PAP after Energa and Enea suspended financing of the project.</p> <p>PKN Orlen will reverse ca. PLN 1 bln impairment for Lithuanian assets in its standalone financial report for 2019 without impacting its group EBITDA line, the company said in a market filing.</p>
<b>Power</b>	<p>Poland wants to introduce an income cap and minimum consumption criterion for power price hike compensations for households in 2020, according to a draft bill added to the government legislative agenda.</p> <p>Polish energy-intensive firms received nearly PLN 900 mln in compensations for 2019 power price hikes, energy market regulator URE said Friday.</p>
<b>State Administration</b>	<p>Poland's lower house approved a draft bill revamping government administration divisions by creating, among others, new divisions pertaining to state assets and climate. The bill is now heading to the presidential desk to be signed.</p>

## Macroeconomics

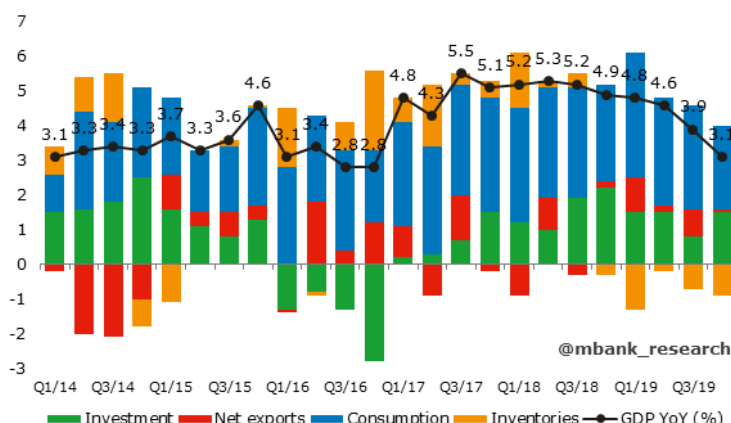
### Inflation surprises to the upside. GDP growth slows down

The first estimate of January inflation popped at 4.4% (we 4.1%, median estimate 4.2%). It is still based on "old" consumption basket (2018) which is going to be switched in March for the one prepared based on 2019 data. Therefore the revealed details are scarce, however, quite telling. Food prices surprised to the upside (+1.7% m/m) and they doubled our original estimate. Prices related to housing increased by 2.3% m/m. We forecast that large chunk of the increase stems from garbage collection fees (over 20% m/m) and the rest can be attributed to energy-related prices (+3.0% m/m). What is more, transport category reveals that the drop of airline tickets was somehow less pronounced than we thought. We think core inflation rose to 3.3-3.4%. However, cyclical factors seem to be at the background here.

It is quite likely that inflation is going to accelerate further in February on the back on energy prices (and possibly another, high reading of food prices), but let's not get carried away in forecasts for the path for the whole 2020. First, the consumption basket revision is set to bring the CPI most likely slightly down given the historical evidence and behavioral law that consumers shun higher prices and substitution effect is in place (see the graph for the direction of recent revisions).



It is also quite straightforward to say at this stage that inflation is not going to drop substantially over the course of the year. However, it is also fair to say that Q1 is going to mark a peak. Our measures of cyclical inflation point to the downside soon, the more so since GDP growth forecasts are tilted to the downside (2019 ended with 3.1% y/y growth and we forecast 2.8% in 2020). Given the fact that inflation target should be treated as an anchor for some longer horizon, and MPC is sticking to such approach, the decision to hike rates is not going to be taken. Inflation projection (to be revealed in March) is going to confirm that higher price growth is transitory.



#### mBank Research

(E. Pytlarczyk, M. Mazurek, P. Bartkiewicz, K. Klimas)

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## Corporate Action Calendar

Date	Time	Company	Event
20-Feb		<b>Jeronimo Martins</b>	Q4'19 earnings announcement (after market close)
20-Feb		<b>Santander</b>	Q4'19 earnings announcement
21-Feb		<b>MOL</b>	Q4'19 earnings announcement
26-Feb		<b>Play</b>	Q4'19 earnings announcement
27-Feb		<b>Netia</b>	Q4'19 earnings announcement
27-Feb		<b>Pekao</b>	Q4'19 earnings announcement
28-Feb		<b>Alior Bank</b>	Q4'19 earnings announcement
28-Feb		<b>Apator</b>	Q4'19 earnings announcement
28-Feb		<b>Erste Bank</b>	Q4'19 earnings announcement (preliminary)
28-Feb		<b>Kernel</b>	Q2'20 earnings announcement
28-Feb		<b>mBank</b>	Q4'19 earnings announcement
28-Feb		<b>Stelmet</b>	Q1'20 earnings announcement

## Economic Calendar

Monday, 17 February 2020					
Time	Region	Data	Period	Forecast	Previous
00:50	Japan	GDP (P)	Q4	0.40% q/q; 1.80% y/y	
11:00	EU	Construction Orders	December	0.70% m/m; 1.40% y/y	
12:00	UK	CBI Industrial Trends	February		-22
	Japan	Industrial Production (F)	December	-1.00% m/m; -8.20% y/y	
Tuesday, 18 February 2020					
Time	Region	Data	Period	Forecast	Previous
10:00	USA	TIC Net Long-term Flows	December		22.90bn
10:30	UK	Unemployment Rate	December		3.80%
11:00	Germany	ZEW Current Situation	February		-9.50
11:00	EU	ZEW Current Situation	February		-9.90
11:00	Germany	ZEW Economic Sentiment	February		26.70
11:00	EU	ZEW Economic Sentiment	February		25.60
14:30	USA	Empire State Manufacturing Index	February		4.80
16:00	USA	NAHB Housing Market Index	February		75
22:00	USA	TIC Net Flows	December		73.10bn
Wednesday, 19 February 2020					
Time	Region	Data	Period	Forecast	Previous
08:00	Germany	Wholesale Price Index	January	0.00% m/m; -1.30% y/y	
10:00	EU	Current Account Balance	December		34bn
10:00	Poland	Wages	January	7.20% m/m; 6.20% y/y	
10:30	UK	Core CPI	January		1.40% y/y
10:30	UK	CPI	January	0.00% m/m; 1.30% y/y	
10:30	UK	PPI Input	January	0.10% m/m; -0.10% y/y	
10:30	UK	PPI Output	January	0.00% m/m; 0.90% y/y	
12:00	UK	CBI Distributive Trades Report	February		0%
13:45	EU	Interest Rate			0.00%
14:30	USA	Building Permits	January		1,416,000 m/m
14:30	USA	Housing Starts	January		1,608,000 m/m
14:30	USA	PPI	January	0.10% m/m; 1.30% y/y	
Thursday, 20 February 2020					
Time	Region	Data	Period	Forecast	Previous
00:50	Japan	Exports	January		-6.30%
00:50	Japan	Imports	January		-4.90%
00:50	Japan	Trade Balance	January		-152.50bn
08:00	Germany	GfK Consumer Confidence	February		9.90
08:00	Germany	PPI	January	0.10% m/m; -0.20% y/y	
08:45	France	CPI Harmonized	January	0.50% m/m; 1.60% y/y	
08:45	France	CPI	January	0.30% m/m; 1.50% y/y	
10:00	Poland	Industrial Production	January	-9.40% m/m; 3.80% y/y	
10:00	Poland	Manufacturing Production	January	-10.70% m/m; 3.80% y/y	
10:00	Poland	PPI	January	-0.10% m/m; 1.00% y/y	
10:30	UK	Retail Sales	January	-0.30% m/m; 1.50% y/y	
10:30	UK	Retail Sales Less Autos	January	-0.80% m/m; 1.10% y/y	
12:30	Japan	Core CPI	January	0.10% m/m; 0.90% y/y	
12:30	Japan	CPI	January		0.80% y/y
14:30	USA	Philadelphia Fed Index	February		17.00
16:00	EU	Consumer Confidence Index (P)	February		-8.10
16:00	USA	Leading Indicators Index	January		0.10%
17:30	Japan	Industry Activity Index	December		0.90% m/m
Friday, 21 February 2020					
Time	Region	Data	Period	Forecast	Previous
09:15	France	PMI Manufacturing (P)	February		51.00
09:30	Germany	PMI Manufacturing (P)	February		45.30
10:00	EU	PMI Manufacturing (P)	February		47.90
10:00	Poland	Retail Sales	January		7.50% y/y
10:30	UK	PMI Manufacturing (P)	February		50
11:00	EU	Core CPI	December		1.30% y/y
11:00	EU	CPI	December	0.30% m/m; 1.30% y/y	
16:00	USA	Existing Home Sales	January		5.54m

## Current Recommendations by mBank

Company	Recommendation	Issued On	Price At Reco.	Target Price	Current Price	Upside/Downside	P/E		EV/EBITDA	
							2019	2020	2019	2020
<b>Financial Sector</b>						<b>+4.4%</b>	<b>10.6</b>	<b>10.4</b>		
Alior Bank	hold	2019-11-06	29.34	31.00	27.64	+12.2%	8.7	8.0		
Handlowy	accumulate	2019-12-05	51.70	57.44	57.80	-0.6%	16.8	12.2		
ING BSK	sell	2020-02-04	202.00	170.00	197.00	-13.7%	15.4	14.5		
Millennium	reduce	2020-02-05	5.91	5.47	5.81	-5.8%	10.1	12.7		
Pekao	buy	2019-12-05	96.34	115.20	101.05	+14.0%	11.7	10.7		
PKO BP	accumulate	2020-02-05	36.00	39.69	35.79	+10.9%	10.9	10.4		
Santander Bank Polska	hold	2020-02-05	304.00	287.90	305.40	-5.7%	14.6	12.7		
Komercni Banka	buy	2019-12-05	792.00	928.20 CZK	787.50	+17.9%	9.8	10.4		
Moneta Money Bank	buy	2019-08-28	75.95	94.33 CZK	84.60	+11.5%	11.4	10.5		
Erste Group	accumulate	2019-12-05	32.20	36.61 EUR	35.44	+3.3%	9.8	9.4		
RBI	accumulate	2019-12-05	21.24	23.05 EUR	22.53	+2.3%	6.4	6.1		
OTP Bank	hold	2019-12-05	14,870	14,681 HUF	15,150	-3.1%	10.4	9.5		
PZU	hold	2020-02-05	40.54	41.91	39.50	+6.1%	10.8	10.3		
Kruk	buy	2019-12-05	150.90	210.31	156.90	+34.0%	8.9	8.8		
Skarbiec Holding	buy	2019-12-05	17.20	29.34	21.80	+34.6%	6.8	6.5		
GPW	buy	2020-01-16	40.85	47.82	40.60	+17.8%	13.4	15.3		
<b>Chemicals</b>						<b>+13.2%</b>	<b>11.4</b>	<b>11.0</b>	<b>5.5</b>	<b>5.7</b>
Ciech	buy	2020-02-13	39.40	47.46	38.95	+21.8%	15.8	9.0	6.7	5.6
Grupa Azoty	buy	2020-02-06	27.50	30.31	28.60	+6.0%	7.1	13.0	4.4	5.8
<b>Oil &amp; Gas</b>						<b>+1.6%</b>	<b>10.2</b>	<b>10.5</b>	<b>4.4</b>	<b>5.0</b>
Lotos	reduce	2020-02-05	76.78	68.47	76.60	-10.6%	12.1	9.8	5.9	5.1
MOL	accumulate	2020-02-05	2,618	2,816 HUF	2,556	+10.2%	8.4	9.0	4.0	4.9
PGNiG	hold	2020-01-28	3.86	4.06	3.58	+13.3%	11.9	13.9	4.5	4.4
PKN Orlen	reduce	2020-02-03	75.66	68.03	76.00	-10.5%	7.2	11.2	4.3	5.2
<b>Power Utilities</b>						<b>+45.8%</b>	<b>4.1</b>	<b>5.3</b>	<b>3.7</b>	<b>3.7</b>
CEZ	buy	2019-12-05	502.00	597.80 CZK	500.00	+19.6%	14.9	13.0	7.3	6.7
Enea	buy	2019-11-06	8.59	11.53	7.28	+58.5%	3.1	3.0	3.1	3.0
Energa	buy	2019-11-06	6.37	11.67	7.55	+54.6%	5.9	5.7	3.7	4.3
PGE	buy	2019-10-24	8.42	12.20	6.11	+99.8%	4.1	5.3	2.9	3.3
Tauron	buy	2019-11-06	1.73	2.45	1.45	+69.2%	2.8	2.3	4.0	3.7
<b>Telecoms, Media, IT</b>						<b>-4.9%</b>	<b>30.3</b>	<b>19.5</b>	<b>6.4</b>	<b>6.6</b>
Netia	hold	2019-12-05	4.44	4.70	4.34	+8.3%	30.3	31.0	4.4	4.5
Orange Polska	accumulate	2019-11-29	6.46	7.40	7.24	+2.2%	34.1	37.4	5.5	5.6
Play	accumulate	2020-02-05	34.80	36.00	34.58	+4.1%	10.0	9.1	6.4	6.2
Agora	buy	2019-10-30	9.50	17.00	13.15	+29.3%	62.7	33.5	7.6	7.2
Cyfrowy Polsat	reduce	2019-11-14	28.86	26.10	27.50	-5.1%	15.7	13.3	7.1	6.9
Wirtualna Polska	hold	2020-02-05	82.20	79.70	85.00	-6.2%	36.7	23.1	14.0	11.3
Asseco Poland	hold	2019-12-05	57.35	59.20	65.55	-9.7%	16.5	16.0	5.4	5.1
Comarch	buy	2019-11-25	189.50	250.00	203.00	+23.2%	14.7	14.1	6.4	6.2
11 bit studios	hold	2020-02-05	440.00	439.00	460.00	-4.6%	59.5	47.6	35.8	30.1
CD Projekt	hold	2020-02-05	305.00	284.20	326.00	-12.8%	-	13.9	-	12.2
<b>Industrials, Mining</b>						<b>-0.3%</b>	<b>6.7</b>	<b>9.1</b>	<b>4.5</b>	<b>4.4</b>
Cognor	hold	2019-12-06	1.20	1.25	1.24	+0.8%	6.7	38.5	4.4	6.1
Famur	buy	2019-12-05	2.98	5.18	3.20	+62.1%	4.9	7.5	3.9	4.0
Grupa Kęty	hold	2019-12-05	338.50	335.44	400.00	-16.1%	13.6	15.6	9.1	9.9
JSW	hold	2020-02-05	19.78	18.41	17.88	+3.0%	4.5	-	0.7	2.9
Kemel	hold	2020-02-05	47.20	47.25	49.00	-3.6%	5.5	8.0	5.0	6.6
KGHM	reduce	2020-02-05	96.44	86.33	93.90	-8.1%	8.5	8.3	4.7	4.6
PKP Cargo	reduce	2020-02-05	17.50	16.40	16.28	+0.7%	13.8	-	2.9	3.6
Stelmet	accumulate	2020-02-05	7.85	8.92	7.50	+18.9%	-	9.8	5.0	4.2
<b>Property Developers</b>						<b>-1.1%</b>	<b>11.9</b>	<b>8.3</b>	<b>10.9</b>	<b>7.5</b>
Atal	accumulate	2020-02-05	39.80	44.28	40.00	+10.7%	14.0	7.4	13.9	7.0
Dom Development	hold	2019-12-05	93.00	88.92	99.00	-10.2%	9.8	9.2	8.0	8.0
<b>Retail</b>						<b>+5.3%</b>	<b>38.7</b>	<b>20.9</b>	<b>10.5</b>	<b>9.2</b>
AmRest	hold	2019-12-05	46.35	47.00	47.50	-1.1%	38.7	37.3	12.7	11.9
CCC	buy	2019-12-05	108.10	157.00	99.70	+57.5%	93.9	20.9	5.7	4.4
Dino	reduce	2020-02-05	164.70	149.70	162.10	-7.6%	39.4	29.1	23.1	17.5
Eurocash	hold	2020-02-05	19.94	19.80	20.00	-1.0%	67.9	40.4	7.4	7.0
Jeronimo Martins	hold	2020-02-05	15.78	16.30 EUR	16.87	-3.4%	19.9	19.6	10.5	9.2
LPP	buy	2020-02-05	8,610.00	10,100.00	8,335.00	+21.2%	27.2	19.0	11.3	9.3
VRG	buy	2020-02-05	3.93	4.50	3.84	+17.2%	14.8	12.3	4.7	4.3

## Current Calls by mBank

Company	Relative Positioning	Rated On	Price At Rating	Current Price	Change	P/E		EV/EBITDA	
						2019	2020	2019	2020
IT						16.0	13.5	7.3	6.1
Ailleron	neutral	2019-10-31	7.16	8.74	+22.1%	15.8	11.9	6.2	4.9
Asseco BS	overweight	2020-01-30	32.60	33.00	+1.2%	16.3	15.1	10.5	9.8
Asseco SEE	overweight	2019-12-05	25.60	28.00	+9.4%	17.3	15.6	8.5	7.3
Atende	neutral	2019-12-05	3.06	3.48	+13.7%	12.3	11.5	5.1	4.9
Industrials						13.2	11.8	7.0	6.9
AC	neutral	2019-12-05	43.20	47.60	+10.2%	12.0	12.0	8.4	8.0
Alumetal	neutral	2020-01-30	42.80	44.20	+3.3%	13.9	14.3	7.9	8.2
Amica	neutral	2019-12-05	133.20	141.40	+6.2%	9.6	8.9	6.1	6.2
Apator	neutral	2020-01-30	20.70	21.20	+2.4%	13.3	12.2	7.3	7.1
Astarta	overweight	2020-01-30	15.90	17.95	+12.9%	-	3.3	7.3	3.1
Boryszew	underweight	2020-01-30	4.54	4.37	-3.9%	14.4	11.4	6.9	7.0
Forte	underweight	2020-01-30	32.30	37.50	+16.1%	22.9	16.2	10.2	9.2
Kruszwica	overweight	2020-01-30	52.20	59.60	+14.2%	13.1	12.4	7.0	6.8
Mangata	neutral	2019-12-05	72.00	75.00	+4.2%	9.1	10.7	6.4	6.9
Pozbud	neutral	2019-12-05	1.80	1.60	-11.4%	3.8	3.6	4.4	5.3
TIM	overweight	2019-12-05	10.90	11.85	+8.7%	13.3	11.8	6.9	6.3



## CEE bank valuations

	Price	2019	P/E 2020	2021	2019	ROE 2020	2021	2019	P/BV 2020	2021	2019	DY 2020	2021
<b>Polish banks</b>													
Alior Bank	27.64	8.7	8.0	7.6	6%	6%	6%	0.5	0.5	0.5	0.0%	0.0%	0.0%
Handlowy	57.80	16.8	12.2	11.6	6%	9%	9%	1.1	1.1	1.0	6.5%	6.6%	6.2%
ING BSK	197.00	15.4	14.5	13.4	12%	12%	12%	1.8	1.7	1.6	1.8%	2.0%	2.1%
Millennium	5.81	10.1	12.7	15.5	8%	6%	5%	0.8	0.8	0.7	0.0%	0.0%	0.0%
Pekao	101.05	11.7	10.7	10.0	10%	10%	11%	1.1	1.1	1.1	6.5%	6.4%	7.0%
PKO BP	35.79	10.9	10.4	9.8	10%	10%	10%	1.1	1.0	1.0	3.7%	8.3%	9.9%
Santander BP	305.40	14.6	12.7	11.7	9%	9%	9%	1.2	1.2	1.1	6.5%	1.7%	2.0%
<b>Median</b>		<b>11.7</b>	<b>12.2</b>	<b>11.6</b>	<b>9%</b>	<b>9%</b>	<b>9%</b>	<b>1.1</b>	<b>1.1</b>	<b>1.0</b>	<b>3.7%</b>	<b>2.0%</b>	<b>2.1%</b>
<b>Investors in Polish banks</b>													
BCP	0.190	7.9	6.3	5.4	6%	7%	8%	0.5	0.4	0.4	1.1%	3.7%	5.8%
Citigroup	78.790	10.5	9.2	8.3	10%	10%	10%	1.0	0.9	0.8	2.4%	2.8%	3.1%
Commerzbank	6.485	11.2	12.1	10.5	2%	2%	3%	0.3	0.3	0.3	2.8%	2.9%	3.2%
ING	10.710	8.3	8.6	8.5	9%	9%	9%	0.8	0.7	0.7	6.4%	6.6%	6.6%
UCI	13.886	7.8	8.0	7.6	6%	6%	6%	0.6	0.5	0.5	4.7%	4.2%	4.4%
<b>Median</b>		<b>8.3</b>	<b>8.6</b>	<b>8.3</b>	<b>6%</b>	<b>7%</b>	<b>8%</b>	<b>0.6</b>	<b>0.5</b>	<b>0.5</b>	<b>2.8%</b>	<b>3.7%</b>	<b>4.4%</b>
<b>Foreign banks</b>													
Erste Group	35.44	9.8	9.4	9.3	11%	11%	10%	1.0	1.0	1.0	3.7%	4.3%	4.4%
Komerční Banka	787.50	9.8	10.4	10.0	15%	13%	13%	1.4	1.4	1.3	6.5%	6.5%	6.5%
Moneta Money	84.60	11.4	10.5	10.4	15%	16%	16%	1.7	1.6	1.6	7.3%	6.6%	7.1%
OTP Bank	15,150	10.4	9.5	9.3	20%	18%	17%	1.9	1.6	1.5	1.5%	1.6%	3.6%
RBI	22.53	6.4	6.1	6.1	10%	9%	9%	0.6	0.6	0.5	5.1%	4.7%	4.9%
Akbank	8.10	8.2	5.2	4.6	11%	16%	17%	0.8	0.7	0.6	2.1%	4.4%	5.6%
Alpha Bank	1.82	21.4	13.5	8.3	2%	2%	4%	0.3	0.4	0.4	0.0%	0.0%	0.4%
Banco Santander	3.92	8.4	8.3	7.8	7%	8%	8%	0.7	0.6	0.6	5.5%	5.8%	6.0%
Deutsche Bank	10.16	-	92.4	17.6	-8%	0%	1%	0.4	0.4	0.4	0.0%	0.0%	0.8%
Eurobank Ergasias	0.81	12.4	7.4	6.8	3%	7%	8%	0.6	0.5	0.5	0.0%	0.0%	0.0%
National Bank of Greece	2.92	7.8	12.0	9.4	7%	5%	5%	0.5	0.5	0.5	0.0%	0.0%	0.0%
Piraeus Bank	3.11	12.6	10.5	6.1	3%	2%	4%	0.2	0.3	0.2	0.0%	0.0%	0.0%
Sberbank	251.75	6.5	5.8	5.4	21%	20%	20%	1.3	1.1	1.0	7.5%	8.7%	9.4%
Türkiye Garanti Bank	11.52	7.6	5.1	4.7	13%	18%	18%	0.9	0.8	0.7	-	-	-
Türkiye Halk Bank	7.35	6.0	3.2	2.4	5%	7%	10%	0.3	0.3	0.2	0.8%	1.4%	1.8%
Türkiye Vakıflar Bankası	6.55	5.8	3.4	2.8	9%	14%	14%	0.5	0.4	0.4	-	-	-
VTB Bank	0.05	3.7	3.7	3.4	12%	12%	12%	0.4	0.4	0.3	31.3%	8.4%	8.4%
Yapi ve Kredi Bankası	2.87	5.9	4.2	3.5	10%	12%	12%	0.6	0.5	0.4	0.0%	0.0%	0.0%
<b>Median</b>		<b>8.2</b>	<b>7.9</b>	<b>6.5</b>	<b>10%</b>	<b>11%</b>	<b>11%</b>	<b>0.6</b>	<b>0.5</b>	<b>0.5</b>	<b>1.8%</b>	<b>2.9%</b>	<b>4.0%</b>

## Insurance company valuations

	Price	2019	P/E 2020	2021	2019	ROE 2020	2021	2019	P/BV 2020	2021	2019	DY 2020	2021
<b>Insurers</b>													
PZU	39.50	10.8	10.3	10.1	21%	22%	22%	2.3	2.2	2.2	7.5%	7.4%	7.8%
Aegon	3.81	5.8	5.7	5.3	6%	6%	7%	0.4	0.4	0.3	8.1%	8.5%	8.9%
Allianz	231.05	12.4	11.4	10.8	12%	12%	12%	1.4	1.3	1.2	4.1%	4.4%	4.5%
Assicurazioni Generali	18.72	10.8	10.8	10.4	11%	10%	10%	1.1	1.0	1.0	5.2%	5.5%	5.8%
Aviva	4.11	6.9	7.0	6.7	13%	13%	13%	0.9	0.9	0.9	7.6%	7.8%	8.1%
AXA	25.46	10.5	9.0	8.6	9%	10%	11%	1.0	0.9	0.9	5.6%	6.0%	6.4%
Baloise	181.60	13.1	13.4	12.6	10%	9%	9%	1.3	1.2	1.1	3.5%	3.7%	3.9%
Helvetia	145.20	13.7	14.0	13.5	10%	10%	10%	1.2	1.2	1.2	3.4%	3.5%	3.7%
Mapfre	2.42	11.7	9.2	8.8	8%	9%	10%	0.9	0.8	0.8	6.1%	6.4%	6.6%
RSA Insurance	5.75	14.7	12.5	11.6	10%	11%	12%	1.5	1.4	1.4	4.0%	33.7%	5.4%
Uniq	9.85	13.5	12.7	12.1	7%	7%	7%	1.0	0.9	0.9	5.6%	5.9%	6.0%
Vienna Insurance G.	25.00	11.0	9.8	9.3	6%	7%	7%	0.6	0.6	0.6	4.2%	4.4%	4.7%
Zurich Financial	433.10	16.0	14.3	13.5	13%	13%	13%	1.9	1.8	1.8	4.7%	5.0%	5.4%
<b>Median</b>		<b>11.7</b>	<b>10.8</b>	<b>10.4</b>	<b>10%</b>	<b>10%</b>	<b>10%</b>	<b>1.1</b>	<b>1.0</b>	<b>1.0</b>	<b>5.2%</b>	<b>5.9%</b>	<b>5.8%</b>

Source: mBank (stocks marked with bold), Bloomberg

## Gas & Oil valuations

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Oil companies																
Lotos	76.60	5.9	5.1	4.8	0.6	0.6	0.5	12.1	9.8	10.2	10%	11%	11%	3.9%	3.9%	3.9%
MOL	2556.00	4.0	4.9	4.3	0.5	0.6	0.6	8.4	9.0	7.6	13%	13%	15%	5.6%	5.9%	6.1%
PKN Orlen	76.00	4.3	5.2	5.3	0.4	0.4	0.4	7.2	11.2	11.5	8%	7%	7%	4.6%	4.6%	4.6%
Hellenic Petroleum	7.80	6.5	5.4	5.4	0.4	0.4	0.4	11.4	6.9	6.6	7%	8%	8%	5.9%	6.1%	6.4%
HollyFrontier	43.32	5.2	5.5	5.9	0.6	0.5	0.5	8.8	8.8	10.0	11%	10%	9%	3.1%	3.3%	3.4%
Marathon Petroleum	58.33	7.0	5.6	5.8	0.5	0.5	0.5	14.1	8.5	9.7	8%	9%	9%	3.6%	4.0%	4.4%
Motor Oil	18.90	5.0	4.3	4.5	0.3	0.3	0.3	8.4	6.3	7.1	5%	7%	6%	6.9%	7.2%	7.5%
Neste Oil	39.11	12.5	13.5	12.3	1.9	2.1	1.9	20.3	20.7	18.5	15%	15%	16%	2.4%	2.5%	2.8%
OMV	43.97	3.8	3.7	3.6	1.0	1.0	1.0	8.4	8.3	7.7	26%	26%	26%	4.4%	4.8%	5.2%
Phillips 66	89.47	7.4	6.5	6.4	0.5	0.5	0.4	11.0	9.3	9.0	7%	7%	7%	3.9%	4.3%	4.6%
Saras SpA	1.27	3.3	2.2	2.9	0.1	0.1	0.1	13.3	4.9	7.3	4%	6%	4%	5.2%	9.2%	7.2%
Tupras	110.00	8.8	5.2	4.9	0.4	0.4	0.4	21.7	6.4	5.8	5%	7%	7%	5.9%	13.4%	15.4%
Valero Energy	82.64	7.9	5.6	6.2	0.4	0.4	0.4	16.7	9.1	10.2	5%	7%	6%	4.4%	4.8%	5.1%
Median		5.9	5.2	5.3	0.5	0.5	0.4	11.4	8.8	9.0	8%	8%	8%	4.4%	4.8%	5.1%
Gas companies																
PGNiG	3.58	4.5	4.4	3.5	0.6	0.6	0.6	11.9	13.9	9.2	12%	13%	16%	3.1%	3.4%	2.9%
A2A SpA	1.85	7.8	7.6	7.2	1.5	1.4	1.4	16.8	16.4	15.4	19%	19%	19%	4.3%	4.3%	4.6%
BP	456.85	4.8	4.7	4.6	0.6	0.6	0.6	12.5	11.3	10.8	13%	13%	13%	0.0%	0.0%	0.0%
Centrica	71.26	4.0	3.9	4.2	0.3	0.3	0.3	9.9	7.6	7.3	7%	7%	7%	0.0%	0.0%	0.0%
Enagas	25.63	11.3	11.4	12.2	9.5	9.7	10.6	14.1	13.8	14.1	83%	85%	87%	6.3%	6.5%	6.6%
Endesa	25.10	9.1	8.8	8.5	1.7	1.6	1.6	17.1	16.2	15.6	19%	19%	19%	5.8%	6.1%	5.2%
Engie	16.14	7.1	6.8	6.5	1.1	1.1	1.0	15.6	14.1	12.7	16%	16%	16%	4.8%	5.2%	5.6%
Eni	12.89	3.7	3.5	3.3	0.9	0.9	0.8	14.4	11.2	10.0	24%	25%	26%	6.7%	6.8%	7.0%
Equinor	160.80	3.2	2.8	2.6	1.1	1.0	1.0	11.6	10.2	9.2	35%	36%	37%	0.1%	0.1%	0.1%
Gas Natural SDG	23.92	9.4	9.1	8.8	1.6	1.6	1.6	17.5	16.3	15.5	17%	18%	18%	5.7%	6.0%	6.3%
Gazprom	232.50	3.9	4.0	3.6	1.0	1.1	1.0	4.2	5.0	4.4	27%	27%	27%	6.5%	7.5%	10.9%
Hera SpA	4.33	9.0	8.5	8.4	1.4	1.3	1.3	19.9	20.3	19.7	16%	16%	15%	2.3%	2.5%	2.6%
NovaTek	1051.40	13.2	10.3	9.8	3.9	3.7	3.5	3.4	9.7	10.1	29%	36%	36%	2.7%	3.4%	3.7%
ROMGAZ	34.55	5.0	5.4	5.2	2.4	2.5	2.5	8.6	9.3	9.1	48%	48%	49%	9.6%	9.0%	9.7%
Shell	23.28	3.2	3.0	2.9	0.5	0.5	0.5	11.8	10.2	9.3	16%	17%	17%	8.7%	8.8%	9.0%
Snam SpA	5.00	13.3	13.1	12.7	10.8	10.6	10.3	15.4	15.1	14.5	81%	81%	81%	4.8%	5.1%	5.2%
Total	45.25	5.3	4.7	4.6	1.0	0.9	0.9	12.5	10.6	10.2	18%	19%	20%	6.4%	6.7%	7.1%
Median		5.3	5.4	5.2	1.1	1.1	1.0	12.5	11.3	10.2	19%	19%	19%	4.8%	5.2%	5.2%

## Power generation company valuations

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Power generation																
CEZ	500.00	7.3	6.7	6.6	2.1	1.9	1.8	14.9	13.0	13.0	29%	28%	27%	4.8%	6.0%	6.9%
Enea	7.28	3.1	3.0	2.8	0.6	0.5	0.6	3.1	3.0	2.3	20%	18%	21%	0.0%	0.0%	3.4%
Energia	7.55	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	6.11	2.9	3.3	2.6	0.6	0.6	0.5	4.1	5.3	3.6	21%	17%	21%	0.0%	6.1%	4.7%
Tauron	1.45	4.0	3.7	3.2	0.7	0.6	0.6	2.8	2.3	1.9	18%	17%	19%	0.0%	0.0%	0.0%
EDF	12.87	5.4	5.0	4.9	1.3	1.2	1.2	19.2	15.9	15.4	23%	24%	25%	2.4%	2.9%	3.0%
EDP	4.71	10.1	9.8	9.5	2.2	2.2	2.2	22.0	20.2	19.0	22%	22%	23%	4.0%	4.1%	4.2%
Endesa	25.10	9.1	8.8	8.5	1.7	1.6	1.6	17.1	16.2	15.6	19%	19%	19%	5.8%	6.1%	5.2%
Enel	8.28	8.2	7.9	7.6	1.8	1.8	1.8	17.4	15.8	14.8	22%	23%	24%	4.0%	4.4%	4.8%
EON	11.09	11.4	8.5	8.2	1.8	1.0	0.9	17.0	16.9	15.7	16%	12%	11%	4.1%	4.3%	4.6%
Fortum	22.05	14.9	13.8	13.9	4.6	4.5	4.4	12.9	14.2	14.1	31%	33%	32%	5.0%	5.0%	4.9%
Iberdola	10.86	11.2	10.5	9.9	3.0	2.8	2.8	20.5	19.1	18.2	27%	27%	28%	3.5%	3.7%	4.0%
National Grid	1040.00	12.6	12.0	11.4	4.1	4.1	4.0	17.9	17.7	17.0	32%	34%	35%	0.0%	0.0%	0.0%
Red Electrica	19.02	10.1	9.9	9.9	7.8	7.7	7.7	14.4	15.4	15.6	78%	78%	78%	5.5%	5.4%	5.4%
RWE	33.46	9.2	6.2	5.4	1.5	1.2	1.1	20.0	20.1	14.9	16%	19%	21%	2.4%	2.7%	3.3%
SSE	1659.00	13.4	13.2	12.1	0.9	3.0	2.9	24.7	19.4	16.9	7%	23%	24%	0.0%	0.0%	0.0%
Verbund	48.62	9.0	7.6	7.3	3.2	2.8	2.8	29.9	24.3	23.2	35%	37%	38%	1.5%	1.9%	2.1%
Median		9.1	7.9	7.6	1.8	1.8	1.8	17.1	15.9	15.4	22%	23%	24%	2.4%	3.7%	4.0%

## Machine and equipment manufacturers

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Industrials																
Famur	3.20	3.9	4.0	4.3	1.0	1.1	1.1	4.9	7.5	8.6	25%	28%	26%	16.6%	12.3%	10.2%
Caterpillar	137.99	7.5	8.5	8.2	1.5	1.6	1.6	12.7	14.6	13.1	20%	19%	19%	2.7%	3.1%	3.4%
Epiroc	119.25	9.5	9.5	9.1	2.4	2.5	2.4	22.3	22.5	21.1	25%	26%	26%	2.1%	2.2%	2.4%
Komatsu	2336.50	5.5	6.9	6.8	1.1	1.2	1.1	8.8	11.7	11.3	19%	17%	17%	4.5%	4.7%	4.6%
Sandvig AG	184.40	10.1	10.0	9.5	2.4	2.4	2.3	17.4	16.3	15.2	23%	24%	24%	2.4%	2.7%	2.9%
Median		7.5	8.5	8.2	1.5	1.6	1.6	12.7	14.6	13.1	23%	21%	22%	2.7%	3.1%	3.4%

Source: mBank (stocks marked with bold), Bloomberg

## Fertilizer producers and chemical companies

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
<b>Fertilizer producers</b>																
<b>Grupa Azoty</b>	<b>28.60</b>	<b>4.4</b>	<b>5.8</b>	<b>7.8</b>	<b>0.6</b>	<b>0.7</b>	<b>0.8</b>	<b>7.1</b>	<b>13.0</b>	<b>54.5</b>	<b>13%</b>	<b>11%</b>	<b>10%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
Acron	4750.00	8.0	7.0	6.7	2.5	2.2	2.0	9.6	7.9	7.8	31%	32%	30%	6.8%	7.0%	7.2%
CF Industries	38.30	9.0	8.7	8.2	3.2	3.2	3.1	18.1	16.3	13.8	36%	37%	38%	3.1%	3.2%	3.2%
Israel Chemicals	1385.00	6.2	6.1	5.8	1.4	1.3	1.3	10.5	10.1	9.2	22%	22%	22%	0.0%	0.0%	0.0%
K+S	8.93	8.1	7.5	6.5	1.3	1.2	1.2	18.8	14.8	8.6	16%	16%	18%	2.7%	3.3%	4.2%
Phosagro	2418.00	5.8	6.1	5.7	1.8	1.9	1.8	8.0	10.3	10.3	31%	30%	31%	7.3%	4.9%	4.9%
The Mosaic Company	18.75	8.0	7.1	5.9	1.3	1.3	1.2	44.5	20.2	11.6	16%	18%	20%	1.0%	1.2%	1.4%
Yara International	378.60	51.3	46.6	42.9	8.2	7.7	7.4	-	-	-	16%	17%	17%	0.3%	0.5%	0.5%
ZCh Pulawy	88.00	-	-	2.9	-	-	0.5	-	-	6.8	-	-	16%	-	-	5.7%
<b>Median</b>		<b>8.0</b>	<b>7.0</b>	<b>6.5</b>	<b>1.6</b>	<b>1.6</b>	<b>1.3</b>	<b>10.5</b>	<b>13.0</b>	<b>9.7</b>	<b>19%</b>	<b>20%</b>	<b>20%</b>	<b>1.9%</b>	<b>2.2%</b>	<b>3.2%</b>
<b>Chemical companies</b>																
<b>Ciech</b>	<b>38.95</b>	<b>6.7</b>	<b>5.6</b>	<b>5.5</b>	<b>1.0</b>	<b>1.1</b>	<b>1.1</b>	<b>15.8</b>	<b>9.0</b>	<b>8.9</b>	<b>15%</b>	<b>20%</b>	<b>19%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>5.6%</b>
Akzo Nobel	87.16	13.5	11.7	11.0	1.9	1.9	1.8	28.8	20.8	18.8	14%	16%	17%	2.2%	2.5%	2.7%
BASF	62.51	9.2	8.7	8.0	1.2	1.2	1.2	16.3	14.9	13.2	14%	14%	15%	5.2%	5.3%	5.4%
Croda	5060.00	17.3	16.6	15.8	5.0	4.9	4.7	27.0	25.8	24.2	29%	30%	30%	0.0%	0.0%	0.0%
Sisecam	5.47	4.2	3.6	3.1	0.9	0.7	0.6	6.1	6.3	5.9	21%	20%	21%	4.1%	4.4%	4.7%
Soda Sanayii	6.29	6.5	5.6	4.7	1.5	1.3	1.2	5.2	-	-	24%	24%	25%	-	-	-
Solvay	97.52	5.3	5.3	5.0	1.2	1.2	1.1	10.8	12.2	11.0	22%	22%	22%	3.9%	4.1%	4.3%
Tata Chemicals	766.65	10.4	9.5	8.6	1.9	1.9	1.7	18.6	17.4	15.6	18%	20%	20%	1.5%	1.9%	1.6%
Tessenderlo Chemie	31.85	5.6	5.4	5.1	0.8	0.8	0.8	16.2	12.2	10.7	15%	15%	15%	-	-	-
Wacker Chemie	71.30	6.1	6.5	5.6	0.9	0.9	0.9	52.3	27.0	18.7	15%	14%	15%	2.2%	2.4%	3.1%
<b>Median</b>		<b>6.6</b>	<b>6.0</b>	<b>5.5</b>	<b>1.2</b>	<b>1.2</b>	<b>1.2</b>	<b>16.3</b>	<b>14.9</b>	<b>13.2</b>	<b>17%</b>	<b>20%</b>	<b>20%</b>	<b>2.2%</b>	<b>2.5%</b>	<b>3.7%</b>

## Mining company valuations

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
<b>Metals</b>																
<b>KGHM</b>	<b>93.90</b>	<b>4.7</b>	<b>4.6</b>	<b>5.4</b>	<b>1.1</b>	<b>1.1</b>	<b>1.1</b>	<b>8.5</b>	<b>8.3</b>	<b>12.0</b>	<b>24%</b>	<b>24%</b>	<b>20%</b>	<b>0.0%</b>	<b>1.6%</b>	<b>3.6%</b>
Anglo American	2093.50	4.5	4.5	4.9	1.5	1.5	1.5	9.7	9.9	11.1	34%	34%	32%	0.0%	0.0%	0.0%
Antofagasta	868.00	5.8	5.8	5.4	2.8	2.8	2.7	21.4	20.7	17.9	49%	49%	50%	0.0%	0.0%	0.0%
BHP Group LTD	38.65	3.8	3.8	4.1	2.0	2.0	2.1	13.7	13.0	14.6	53%	53%	51%	3.8%	2.6%	2.3%
Boliden	233.40	5.3	4.9	5.0	1.4	1.2	1.2	10.9	9.9	10.2	25%	25%	25%	4.7%	5.4%	5.6%
First Quantum	12.19	9.5	6.1	5.9	3.7	2.6	2.6	36.5	23.0	14.0	39%	44%	44%	0.1%	0.1%	0.1%
Freeport-McMoRan	12.24	13.9	9.4	5.4	2.4	2.3	1.9	-	28.7	10.2	17%	24%	35%	1.6%	1.6%	1.8%
Fresnillo	675.00	9.5	7.6	6.4	3.3	3.1	2.9	37.8	28.6	21.6	34%	40%	45%	0.0%	0.0%	0.0%
Gold Fields	9460.00	5.2	4.0	3.8	2.4	2.0	2.0	34.1	14.6	11.9	46%	51%	52%	0.0%	0.0%	0.0%
Hudbay Min	4.13	4.0	3.6	2.9	1.2	1.2	1.1	-	-	14.9	29%	32%	37%	0.3%	0.3%	0.3%
KAZ Minerals	495.00	5.0	5.0	4.8	2.7	2.6	2.5	6.5	6.4	6.2	54%	53%	52%	0.0%	0.0%	0.0%
Lundin Min	7.33	7.0	4.6	3.8	2.5	1.9	1.8	26.1	11.8	9.1	36%	42%	47%	0.9%	1.1%	2.2%
MMC Norilsk Nickel	33.70	8.2	7.0	7.1	4.7	4.3	4.2	10.7	9.6	10.3	57%	61%	59%	6.9%	9.2%	9.9%
OZ Minerals	10.16	7.0	7.3	4.8	3.0	2.7	2.2	18.6	22.3	10.9	43%	37%	45%	1.9%	1.7%	2.5%
Polymetal Intl	1272.50	9.1	7.9	8.0	4.2	3.9	3.9	14.5	11.2	11.3	46%	50%	49%	0.0%	0.0%	0.0%
Polys	8003.00	7.9	7.1	7.0	5.2	4.7	4.7	10.3	9.1	9.0	66%	67%	67%	4.3%	4.9%	4.9%
Sandfire Resources	5.22	2.3	2.0	1.8	1.2	1.1	1.0	7.3	7.1	5.2	51%	52%	56%	4.8%	4.5%	5.6%
Southern CC	39.26	9.8	9.3	9.0	4.9	4.7	4.6	19.4	17.9	17.1	50%	50%	50%	4.1%	4.1%	4.0%
<b>Median</b>		<b>6.4</b>	<b>5.4</b>	<b>5.2</b>	<b>2.6</b>	<b>2.4</b>	<b>2.1</b>	<b>14.1</b>	<b>11.8</b>	<b>11.2</b>	<b>44%</b>	<b>46%</b>	<b>48%</b>	<b>0.6%</b>	<b>1.4%</b>	<b>2.0%</b>
<b>Coal</b>																
<b>JSW</b>	<b>17.88</b>	<b>0.7</b>	<b>2.9</b>	<b>3.1</b>	<b>0.1</b>	<b>0.2</b>	<b>0.3</b>	<b>4.5</b>	<b>-</b>	<b>-</b>	<b>19%</b>	<b>8%</b>	<b>10%</b>	<b>9.6%</b>	<b>0.0%</b>	<b>0.0%</b>
Alliance Res Partners	8.04	1.7	2.2	2.2	0.5	0.6	0.6	3.3	8.2	8.9	30%	28%	27%	-	-	-
Arch Coal	56.01	2.3	2.6	2.6	0.4	0.4	0.4	4.1	5.0	4.3	16%	16%	15%	3.2%	3.2%	3.2%
Banpu	10.00	12.3	11.9	10.1	2.0	2.1	2.1	14.0	14.9	10.9	16%	18%	21%	4.2%	3.7%	4.7%
BHP Group	51.70	3.7	3.8	4.0	2.0	2.0	2.1	13.6	12.9	14.5	53%	53%	51%	8.6%	5.7%	5.2%
China Coal Energy	2.73	4.5	4.6	4.7	0.9	0.9	0.9	5.0	5.4	5.3	20%	20%	19%	4.4%	4.1%	4.1%
LW Bogdanka	25.50	0.8	0.8	0.9	0.3	0.3	0.3	2.8	3.7	5.0	36%	34%	31%	3.7%	8.2%	8.5%
Peabody Energy Corp	7.45	1.9	2.9	2.4	0.3	0.4	0.4	-	-	-	16%	13%	15%	31.5%	7.8%	7.9%
PT Bukit Asam Tbk	2330.00	3.7	4.0	4.0	1.0	1.0	0.9	6.4	7.2	6.9	27%	24%	24%	12.7%	10.2%	8.3%
Rio Tinto	4197.00	3.7	4.1	4.6	1.8	1.9	2.0	8.8	9.7	12.0	48%	46%	44%	0.0%	0.0%	0.0%
Semirara Mining&Power	19.90	5.4	4.7	4.2	2.4	2.2	2.0	8.2	7.3	6.5	45%	46%	48%	7.9%	8.3%	8.9%
Shanxi Xishan Coal&Ele	5.22	3.3	3.9	4.0	0.6	0.6	0.6	-	-	-	18%	15%	15%	3.9%	3.9%	3.6%
Shougang Fushan Res	1.63	4.8	4.7	5.3	2.6	2.4	2.5	7.1	7.0	8.0	54%	52%	47%	8.2%	7.8%	5.7%
Stanmore Coal	0.95	1.0	1.6	2.4	0.4	0.4	0.5	2.5	4.2	6.8	38%	26%	19%	9.3%	6.3%	6.0%
Teck Resources	13.46	2.9	3.2	3.0	1.1	1.2	1.1	6.2	7.0	6.4	37%	36%	37%	2.1%	2.6%	4.6%
Terracom	0.28	1.2	1.8	1.6	0.4	0.4	0.4	2.1	3.9	3.1	30%	24%	26%	-	7.3%	10.9%
Warrior Met Coal	20.54	2.5	3.5	3.3	1.0	1.1	1.1	3.7	5.7	5.3	38%	32%	33%	22.5%	7.6%	8.9%
Yanzhou Coal Mining	6.37	3.5	3.9	3.9	1.1	1.1	1.1	3.1	3.7	3.7	30%	28%	28%	17.7%	7.5%	7.1%
<b>Median</b>		<b>3.1</b>	<b>3.6</b>	<b>3.6</b>	<b>0.9</b>	<b>1.0</b>	<b>0.9</b>	<b>4.8</b>	<b>7.0</b>	<b>6.5</b>	<b>30%</b>	<b>27%</b>	<b>26%</b>	<b>8.0%</b>	<b>6.3%</b>	<b>5.7%</b>

Source: mBank (stocks marked with bold), Bloomberg

## European telecom valuations

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
<b>Polish companies</b>																
Netia	4.34	4.4	4.5	4.6	1.5	1.5	1.5	30.3	31.0	28.0	34%	34%	34%	0.0%	0.0%	9.2%
Orange Polska	7.24	5.5	5.6	5.1	1.6	1.6	1.5	34.1	37.4	20.5	29%	28%	29%	0.0%	0.0%	3.5%
Play	34.58	6.4	6.2	5.8	2.2	2.2	2.1	10.0	9.1	9.1	34%	36%	36%	4.2%	4.2%	4.2%
Median		5.5	5.6	5.1	1.6	1.6	1.5	30.3	31.0	20.5	34%	34%	34%	0%	0.0%	4.2%
<b>Mid Caps</b>																
Proximus	26.37	5.9	5.9	5.9	2.0	2.0	2.0	15.6	15.4	15.5	33%	34%	34%	5.7%	5.7%	5.7%
Telefonica CP	230.50	6.6	6.7	6.8	2.1	2.1	2.1	14.6	15.4	14.4	32%	31%	31%	9.0%	9.1%	9.1%
Hellenic Telekom	13.80	5.6	5.4	5.4	2.0	2.0	1.9	18.9	15.7	13.7	36%	36%	36%	4.0%	4.4%	5.1%
Matav	452.00	4.1	4.0	4.0	1.3	1.3	1.3	11.4	10.2	10.4	32%	32%	32%	5.9%	6.3%	6.5%
Telecom Austria	7.50	5.4	5.3	5.2	1.9	1.8	1.8	12.4	11.3	10.8	34%	34%	35%	2.8%	3.1%	3.5%
Median		5.6	5.4	5.4	2.0	2.0	1.9	14.6	15.4	13.7	33%	34%	34%	5.7%	5.7%	5.7%
<b>Big Caps</b>																
BT	153.54	3.5	3.3	3.3	1.1	1.1	1.1	5.9	6.5	6.5	32%	35%	35%	0.0%	0.0%	0.0%
DT	15.57	6.2	5.8	5.6	1.9	1.9	1.8	15.2	14.1	12.6	31%	32%	33%	4.2%	4.4%	4.6%
KPN	2.50	6.7	6.9	6.6	3.0	3.1	3.1	17.2	18.9	16.5	45%	45%	47%	5.2%	5.5%	5.8%
Orange France	13.36	4.9	4.9	4.8	1.5	1.5	1.5	13.4	12.6	11.8	31%	31%	31%	5.3%	5.5%	5.9%
Swisscom	571.00	8.8	8.8	8.7	3.3	3.4	3.4	18.9	19.8	20.0	38%	38%	39%	3.9%	3.9%	3.9%
Telefonica S.A.	6.25	5.4	5.1	5.1	1.7	1.8	1.8	11.6	9.3	8.6	32%	34%	35%	6.4%	6.5%	6.6%
Telia Company	41.42	8.5	8.3	8.2	3.1	2.9	2.8	19.0	17.3	16.1	36%	34%	35%	5.8%	6.0%	6.1%
TI	0.52	4.5	4.6	4.5	1.9	1.9	1.9	9.1	9.2	8.0	42%	42%	43%	0.0%	0.0%	0.4%
Median		5.8	5.5	5.3	1.9	1.9	1.9	14.3	13.3	12.2	34%	34%	35%	4.7%	4.9%	5.2%

## Media company valuations

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
<b>Polish companies</b>																
Agora	13.15	7.6	7.2	6.8	1.0	1.0	1.0	62.7	33.5	22.1	14%	14%	15%	3.8%	3.8%	3.8%
Wirtualna Polska	85.00	14.0	11.3	10.1	3.9	3.3	2.9	36.7	23.1	20.0	28%	29%	29%	1.2%	1.2%	2.3%
Median		10.8	9.2	8.4	2.5	2.2	2.0	49.7	28.3	21.1	21%	22%	22%	2.5%	2.5%	3.0%
<b>Daily Mail</b>																
Amolgo Mondadori	1.87	6.0	5.8	5.7	0.7	0.7	0.7	13.3	11.7	11.7	11%	12%	12%	3.2%	4.0%	3.0%
Axel Springer	63.00	12.2	12.2	11.2	2.6	2.6	2.5	26.0	25.4	22.1	21%	21%	22%	3.4%	3.5%	3.7%
Daily Mail	817.00	8.5	9.4	8.8	1.2	1.2	1.2	21.8	22.2	20.1	14%	13%	14%	0.0%	0.0%	0.0%
Gruppo Editoriale	0.46	6.8	6.7	6.8	0.5	0.5	0.5	-	19.9	16.3	8%	8%	8%	0.0%	2.4%	2.6%
New York Times	39.28	27.4	26.4	22.7	3.6	3.4	3.2	50.4	48.3	40.2	13%	13%	14%	0.5%	0.5%	0.6%
Promotora de Inform	1.38	9.3	8.0	8.2	1.9	1.8	1.9	15.2	11.2	8.4	20%	23%	23%	0.0%	0.0%	-
Median		8.9	8.7	8.5	1.5	1.5	1.6	21.8	21.0	18.2	13%	13%	14%	0.3%	1.5%	2.6%
<b>TV</b>																
Atresmedia Corp	3.15	5.2	5.5	5.7	0.9	0.9	0.9	6.0	6.3	6.5	18%	17%	16%	13.0%	12.4%	12.0%
Gestevisión Telecinco	5.09	5.9	6.4	6.8	1.6	1.6	1.7	8.2	8.7	9.2	28%	26%	25%	8.3%	8.4%	8.3%
ITV PLC	136.00	8.7	8.9	8.3	2.0	1.9	1.9	10.2	10.3	9.6	23%	22%	23%	0.0%	0.0%	0.0%
M6-Metropole Tel	15.65	5.4	5.3	5.1	1.4	1.3	1.3	11.2	10.9	10.3	25%	25%	25%	6.4%	6.5%	6.6%
Mediaset SPA	2.40	4.2	4.3	4.2	1.5	1.5	1.5	11.7	9.9	9.5	36%	35%	36%	4.7%	5.2%	6.0%
ProSieben	12.35	6.1	5.8	5.5	1.3	1.2	1.2	6.9	6.7	6.2	21%	21%	22%	7.4%	7.6%	7.4%
TF1-TV Francaise	7.37	3.3	3.3	3.1	0.6	0.6	0.6	9.1	8.8	7.7	19%	19%	20%	6.3%	6.3%	7.0%
Median		5.6	5.6	5.3	1.4	1.4	1.4	9.7	9.3	9.3	24%	23%	24%	6.3%	6.4%	6.8%
<b>Pay TV</b>																
Cogeco	106.99	5.8	5.8	5.6	2.9	2.8	2.7	15.4	14.5	13.8	50%	48%	49%	2.0%	1.9%	2.1%
Comcast	46.09	9.0	8.8	8.6	2.8	2.7	2.6	14.9	14.3	13.5	32%	31%	31%	1.8%	2.0%	2.2%
Dish Network	39.97	9.7	10.0	10.9	1.8	1.9	2.0	15.9	19.6	22.8	19%	19%	18%	0.0%	0.0%	0.0%
Liberty Global	20.33	4.6	4.6	4.6	1.9	1.9	1.9	-	-	-	41%	40%	40%	0.0%	0.0%	0.0%
Shaw Communications	19.54	7.8	7.1	6.8	3.2	3.1	3.0	18.7	19.8	18.0	41%	44%	44%	8.1%	8.1%	8.1%
Median		7.8	7.1	6.8	2.8	2.7	2.6	15.6	17.0	15.9	41%	40%	40%	1.8%	1.9%	2.1%

## IT company valuations

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
<b>Polish companies</b>																
Asseco Poland	65.55	5.4	5.1	4.9	0.8	0.8	0.7	16.5	16.0	15.6	15%	15%	15%	4.7%	4.7%	3.4%
Comarch	203.00	6.4	6.2	5.8	1.1	1.0	0.9	14.7	14.1	13.5	18%	16%	16%	0.7%	0.7%	0.7%
Median		5.9	5.6	5.3	1.0	0.9	0.8	15.6	15.0	14.6	16%	16%	15%	2.7%	2.7%	2.1%
<b>Foreign companies</b>																
Atos Origin	80.84	7.5	7.3	6.9	1.1	1.1	1.1	9.7	9.0	8.5	15%	15%	15%	2.0%	2.2%	2.4%
CapGemini	114.95	9.5	8.8	8.3	1.5	1.4	1.3	18.3	16.5	15.2	15%	16%	16%	1.6%	1.8%	1.9%
IBM	150.70	10.4	10.2	9.7	2.5	2.4	2.3	11.8	11.3	10.6	24%	23%	24%	4.3%	4.4%	4.7%
Indra Sistemas	10.90	6.9	6.4	6.1	0.8	0.7	0.7	14.4	12.5	11.4	11%	11%	11%	0.5%	1.2%	1.8%
Microsoft	185.35	25.2	20.9	18.9	10.8	9.5	8.5	40.4	32.8	29.4	43%	45%	45%	1.0%	1.1%	1.2%
Oracle	55.47	10.5	10.1	9.8	4.9	4.8	4.7	16.1	14.3	13.2	47%	47%	48%	1.5%	1.7%	1.8%
SAP	126.62	16.7	16.8	14.9	6.0	5.6	5.2	25.3	23.0	20.6	36%	33%	35%	1.2%	1.4%	1.5%
TietoEVRY	30.30	17.7	10.5	9.9	2.6	1.5	1.4	16.5	14.6	13.5	15%	14%	14%	4.7%	4.6%	4.9%
Median		10.4	10.2	9.7	2.5	1.9	1.9	16.3	14.4	13.3	19%	19%	20%	1.6%	1.7%	1.8%

Source: mBank (stocks marked with bold), Bloomberg

## Gaming company valuations

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Gaming																
11 bit studios	460.00	35.8	30.1	7.7	14.9	12.4	4.7	59.5	47.6	11.3	42%	41%	62%	0.0%	0.0%	0.0%
CD Projekt	326.00	-	12.2	13.6	65.5	9.3	11.0	-	13.9	15.5	29%	76%	81%	0.3%	0.0%	0.0%
PlayWay	372.00	28.5	23.4	21.3	19.1	15.7	14.2	39.6	34.5	31.2	67%	67%	67%	0.7%	2.3%	2.6%
Activision Blizzars	63.52	20.4	17.7	15.7	7.2	6.6	6.1	28.7	25.6	22.3	35%	38%	39%	0.6%	0.6%	0.7%
Capcom	3315.00	17.1	15.6	14.0	4.1	4.8	4.2	27.0	23.0	21.3	24%	31%	30%	1.1%	1.2%	1.4%
Take Two	113.43	15.3	15.9	15.6	3.7	3.8	3.9	24.0	23.5	24.3	24%	24%	25%	-	-	-
Ubisoft	74.66	9.0	14.9	8.4	4.5	5.6	3.7	25.2	-	21.4	50%	38%	43%	0.0%	0.0%	0.0%
Electronic Arts	109.69	18.6	16.1	15.1	5.9	5.5	5.3	28.0	23.3	22.3	32%	34%	35%	-	0.0%	0.0%
Paradox Interactive	143.60	20.5	15.2	13.3	11.5	8.9	8.0	41.3	30.2	26.4	56%	59%	60%	0.8%	1.5%	1.8%
Mediana		19.5	15.9	14.0	7.2	6.6	5.3	28.3	24.5	22.3	35%	38%	43%	0.6%	0.3%	0.3%

Source: mBank (stocks marked with bold), Bloomberg

## Steam Global Top Sellers

2020-02-17	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	186	-	-	163	110	-	-	110.00
Frostpunk: SP	11 bit studios	197	-5	-49	157	88	0%	0%	88.00
Frostpunk: GOTY	11 bit studios	200+	-	-	196	-	-	-	178.00
Blair Witch	Bloober Team	200+	-	-	-	-	-	-	-
Cyberpunk 2077	CD Projekt	106	-50	-10	78	199	0%	0%	199.00
The Witcher 3: WH	CD Projekt	196	-32	-67	142	100	0%	0%	100.00
The Witcher 3: WH (GOTY)	CD Projekt	74	+10	-1	70	150	0%	0%	150.00
Green Hell	Creepy Jar	200+	-	-	-	-	-	-	-
Chernobylite	The Farm 51	200+	-	-	-	-	-	-	-
Dying Light	Techland	157	+12	-63	137	100	0%	0%	100.00

## Steam Wishlist

2020-02-17	Company	Position	D/D change	W/W change	1-week average	Release date
Cyberpunk 2077	CD Projekt	1	-	-	1	2020-09-17
Alaskan Truck Simulator	Movie Games	55	-	-1	54	2020
Bum Simulator	PlayWay	42	-	-	42	2019
I am Your President	PlayWay	72	-1	-4	70	TBA
Junkyard Simulator	PlayWay	53	-	-2	52	2019
Ship Builder Simulator	PlayWay	89	+1	-4	88	TBA
Tank Mechanic Simulator	PlayWay	60	-	-	61	2019
Dying Light 2	Techland	4	-	-1	3	Spring 2020

Source: Steam (Valve Corporation), Biuro maklerskie mBanku

### Construction company valuations

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Construction																
Acciona	110.30	8.9	8.8	8.4	1.6	1.5	1.4	21.3	20.9	19.6	17%	17%	17%	3.4%	3.6%	3.8%
Budimex	177.00	9.0	8.3	6.7	0.5	0.5	0.5	23.0	19.5	14.3	6%	6%	7%	3.6%	3.7%	3.9%
Ferrovial	29.87	-	45.2	38.2	4.6	4.5	4.5	-	52.3	43.3	3%	10%	12%	2.5%	2.5%	2.6%
Hochtief	112.80	3.9	3.9	3.6	0.3	0.3	0.3	22.9	11.6	11.2	7%	7%	7%	5.2%	5.6%	5.6%
Mota Engil	1.66	4.0	3.9	3.7	0.6	0.6	0.5	23.7	5.9	13.8	14%	14%	15%	3.6%	-	5.4%
NCC	193.40	9.2	7.2	6.7	0.4	0.4	0.4	20.8	14.1	12.6	4%	5%	6%	3.1%	3.7%	4.1%
Skanska	238.70	8.5	9.8	8.8	0.5	0.5	0.5	15.0	16.4	15.5	6%	5%	6%	2.8%	3.0%	3.4%
Strabag	31.00	2.9	2.9	2.8	0.2	0.2	0.2	9.9	10.2	9.6	6%	6%	7%	4.3%	4.4%	4.6%
Median		8.5	7.7	6.7	0.5	0.5	0.5	21.3	15.2	14.1	6%	7%	7%	3.5%	3.7%	4.0%

### Real-estate developers

	Price	EV/EBITDA			P/BV			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
RE Developers																
Atal	40.00	13.9	7.0	6.7	2.0	1.7	1.7	14.0	7.4	6.8	23%	23%	23%	11.8%	6.6%	12.3%
Dom Development	99.00	8.0	8.0	7.8	2.3	2.3	2.2	9.8	9.2	8.6	19%	20%	20%	9.1%	10.2%	10.9%
Develia	2.78	6.2	11.6	7.6	0.8	0.9	0.8	7.6	18.5	8.4	28%	30%	24%	9.7%	14.8%	7.9%
Echo Investment	5.20	8.5	8.5	9.0	1.4	1.3	1.2	7.3	8.0	8.0	58%	57%	52%	9.6%	9.5%	5.9%
GTC	9.68	14.5	14.2	13.1	1.0	1.0	1.0	9.7	9.1	9.1	89%	83%	83%	0.2%	0.3%	0.3%
CA Immobilien Anlagen	41.85	31.2	27.2	24.1	1.4	1.3	1.3	33.3	29.4	26.5	66%	69%	-	2.2%	2.5%	2.7%
Deutsche Euroshop AG	25.44	15.3	16.1	16.1	0.7	0.7	0.7	13.3	12.7	12.4	88%	84%	84%	6.1%	6.3%	6.3%
Immofinanz AG	26.45	30.1	27.0	26.0	0.9	0.9	0.9	24.7	21.1	19.3	47%	49%	49%	3.5%	3.9%	4.2%
Klepierre	31.23	19.8	19.8	19.6	0.9	0.9	1.0	11.4	11.1	10.8	84%	85%	85%	7.0%	7.2%	7.4%
Segro	935.00	40.5	36.2	33.2	1.3	1.2	1.2	38.2	35.2	33.8	85%	86%	88%	0.0%	0.0%	0.0%
Median		14.9	15.1	14.6	1.2	1.1	1.1	12.3	11.9	10.0	62%	63%	52%	6.6%	6.4%	6.1%

Source: mBank (stocks marked with bold), Bloomberg

## Clothing and footwear company valuations

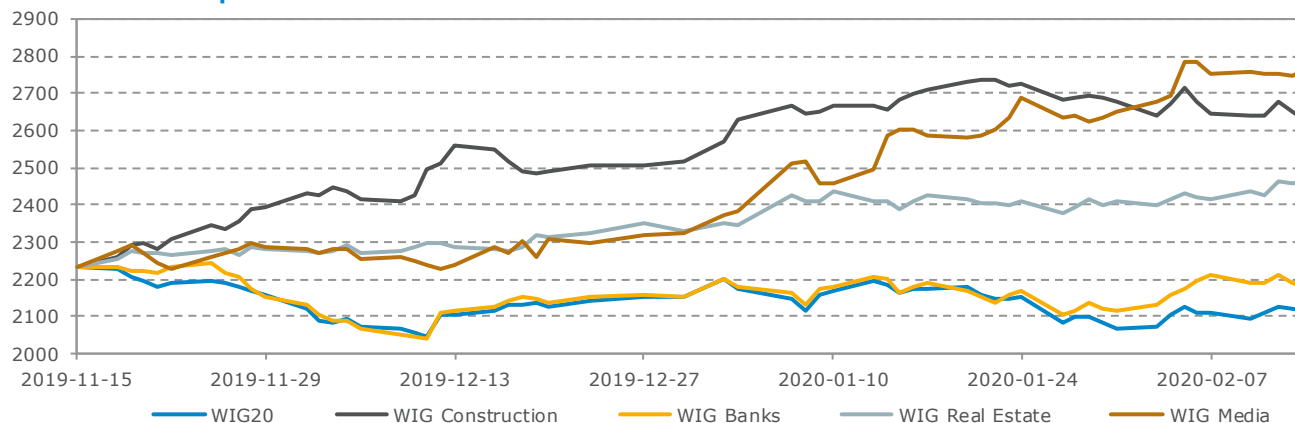
	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Polish companies																
CCC	99.70	5.7	4.4	3.7	0.9	0.7	0.6	-	20.9	13.9	15%	17%	17%	0.5%	2.0%	2.0%
LPP	8335.00	11.3	9.3	8.1	1.6	1.4	1.2	27.2	19.0	15.5	14%	15%	14%	0.7%	0.5%	0.8%
VRG	3.84	4.7	4.3	3.8	0.9	0.8	0.7	14.8	12.3	11.0	19%	19%	19%	0.0%	0.0%	0.0%
Median		5.7	4.4	3.8	0.9	0.8	0.7	21.0	19.0	13.9	15%	17%	17%	0.5%	0.5%	0.8%
Foreign companies																
ABC Mart	7010.00	9.4	9.1	8.7	1.7	1.6	1.6	19.0	18.7	17.9	18%	18%	18%	2.3%	2.4%	2.4%
Adidas	288.40	15.8	14.8	13.3	2.4	2.2	2.1	29.5	26.4	23.3	15%	15%	16%	1.3%	1.5%	1.7%
Assoc Brit Foods	2669.00	10.1	9.4	8.8	1.3	1.3	1.2	19.3	18.1	16.7	13%	14%	14%	0.0%	0.0%	0.0%
Caleries	14.27	3.3	3.1	3.0	0.2	0.2	0.2	6.3	6.1	5.6	7%	7%	7%	2.0%	2.0%	2.0%
Crocs	37.31	15.5	12.2	11.0	2.1	1.8	1.7	23.3	18.7	16.4	13%	15%	15%	-	-	-
Foot Locker	40.38	3.9	3.9	3.9	0.4	0.4	0.4	8.9	8.2	7.7	11%	11%	11%	3.4%	3.7%	4.2%
Geox	1.15	8.1	3.9	3.2	0.4	0.4	0.3	-	45.8	15.7	5%	9%	11%	2.4%	1.9%	2.8%
H&M	204.50	11.2	10.3	9.8	1.3	1.3	1.2	26.0	23.2	21.5	12%	12%	13%	4.8%	4.7%	4.8%
Hugo Boss	43.88	5.6	5.2	5.0	1.1	1.0	1.0	13.6	12.3	11.5	19%	20%	20%	6.0%	6.3%	6.7%
Inditex	31.43	16.3	12.1	11.3	3.4	3.2	3.0	28.1	25.7	23.9	21%	27%	27%	2.5%	3.4%	3.8%
KappAhl	20.02	6.0	5.6	5.8	0.4	0.4	0.4	10.6	10.5	11.0	7%	7%	7%	5.2%	5.0%	5.0%
Lululemon	254.41	36.8	29.5	25.4	9.3	7.7	6.6	67.9	52.1	44.0	25%	26%	26%	0.0%	0.0%	0.0%
Nike	103.54	22.7	20.7	17.8	3.3	3.0	2.8	40.1	34.3	29.6	15%	15%	16%	0.8%	0.9%	1.0%
Under Armour	17.19	7.5	6.4	5.4	0.6	0.6	0.5	50.1	37.0	27.6	8%	9%	10%	0.0%	0.0%	0.0%
Median		9.7	9.2	8.8	1.3	1.3	1.2	23.3	21.0	17.3	13%	14%	15%	2.3%	2.0%	2.4%

## Luxury, e-commerce, and food retail company valuations

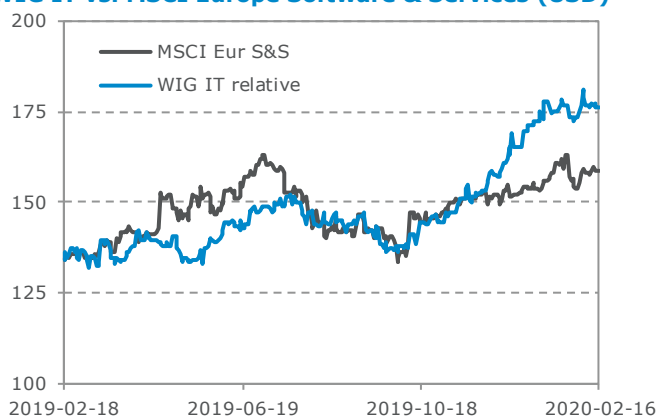
	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Luxury goods																
Estee Lauder	215.01	15.6	13.9	12.6	3.3	3.0	2.8	41.0	36.2	32.5	21%	22%	22%	0.8%	0.9%	1.0%
Hermes Internetal	705.00	26.2	23.9	22.0	10.3	9.4	8.7	48.3	43.3	39.4	39%	39%	40%	0.7%	0.9%	1.0%
Kering	579.40	13.8	12.6	11.8	4.8	4.4	4.1	23.5	20.2	18.5	35%	35%	35%	2.0%	2.2%	2.4%
LVMH	414.95	15.1	13.5	12.4	4.1	3.7	3.5	28.4	25.5	23.0	27%	27%	28%	1.6%	1.8%	2.0%
Moncler	38.10	15.2	14.3	12.7	5.7	5.1	4.6	26.6	24.9	22.3	37%	35%	36%	1.2%	1.3%	1.5%
Median		15.2	13.9	12.6	4.8	4.4	4.1	28.4	25.5	23.0	35%	35%	35%	1.2%	1.3%	1.5%
E-commerce																
Asos	3374.00	26.4	18.5	14.0	1.1	0.9	0.8	-	62.4	40.1	4%	5%	6%	0.0%	0.0%	0.0%
boohoo.com	321.10	44.1	29.9	23.8	4.3	3.0	2.3	-	57.3	45.9	10%	10%	10%	0.0%	0.0%	0.0%
Zalando	47.39	27.6	23.8	19.5	1.7	1.5	1.3	-	-	68.6	6%	6%	6%	0.0%	0.0%	0.0%
Median		27.6	23.8	19.5	1.7	1.5	1.3	-	59.9	45.9	6%	6%	6%	0.0%	0.0%	0.0%
Retail																
Dino	162.10	23.1	17.5	13.5	2.2	1.7	1.3	39.4	29.1	21.8	9%	9%	10%	0.0%	0.0%	0.0%
Eurocash	20.00	7.4	7.0	6.6	0.1	0.1	0.1	67.9	40.4	28.0	2%	2%	2%	5.2%	3.0%	3.8%
Jeronimo Martins	16.87	10.5	9.2	8.6	0.6	0.5	0.5	19.9	19.6	18.4	6%	6%	6%	2.0%	1.9%	2.0%
Carrefour	15.86	5.1	4.7	4.3	0.2	0.2	0.2	13.5	12.1	11.0	5%	5%	5%	3.2%	3.6%	3.9%
AXFood	196.25	10.5	10.1	9.9	0.9	0.9	0.9	24.6	23.7	23.2	9%	9%	9%	3.6%	3.6%	3.6%
Tesco	255.80	8.1	5.5	5.5	0.4	0.4	0.4	18.0	15.0	14.0	5%	8%	8%	0.0%	0.0%	0.0%
Ahold	23.18	6.5	6.4	6.3	0.5	0.5	0.5	14.2	13.4	12.9	8%	8%	8%	3.2%	3.4%	3.7%
X 5 Retail	2152.00	5.8	5.2	5.6	0.7	0.6	0.6	23.9	15.2	12.1	12%	12%	11%	4.8%	5.8%	6.7%
Magnit	3669.00	5.8	5.1	5.4	0.6	0.6	0.5	33.0	13.5	11.1	11%	11%	10%	6.3%	6.2%	7.9%
Sonae	0.84	8.5	7.9	6.5	0.7	0.7	0.7	11.3	10.0	9.9	9%	9%	10%	5.5%	5.9%	5.9%
Median		7.7	6.7	6.4	0.6	0.6	0.5	21.9	15.1	13.4	9%	8%	8%	3.4%	3.5%	3.7%

Source: mBank (stocks marked with bold), Bloomberg

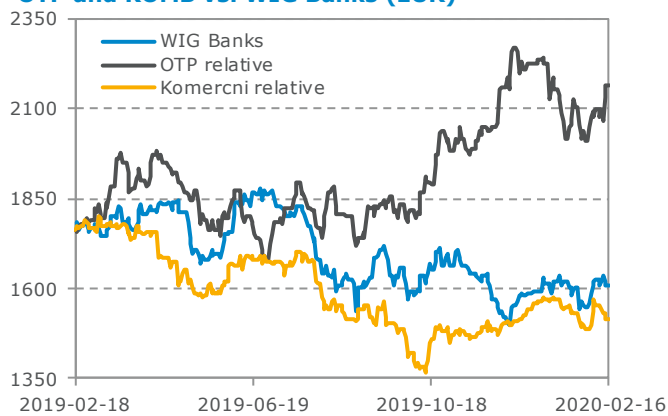
### WIG sector index performance



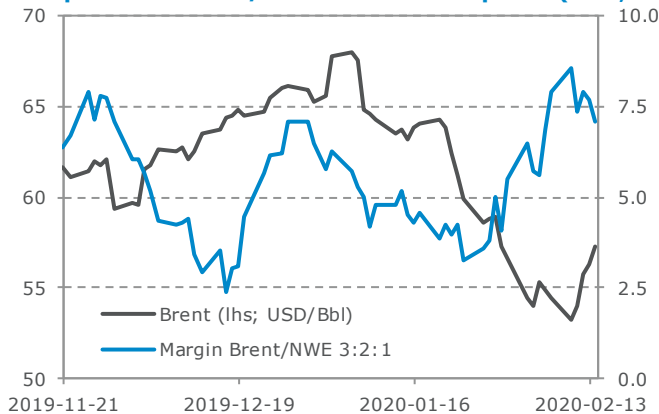
### WIG IT vs. MSCI Europe Software & Services (USD)



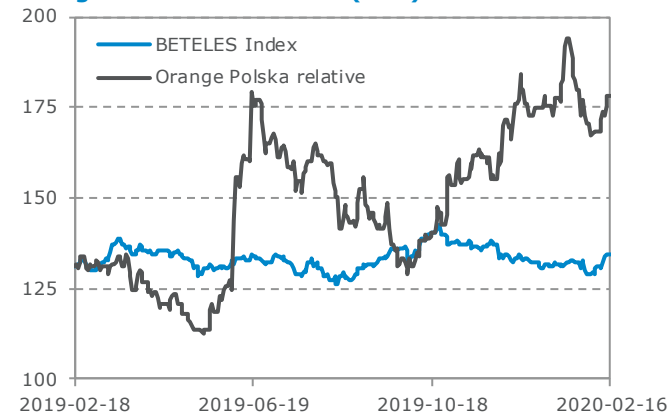
### OTP and KOMB vs. WIG Banks (EUR)



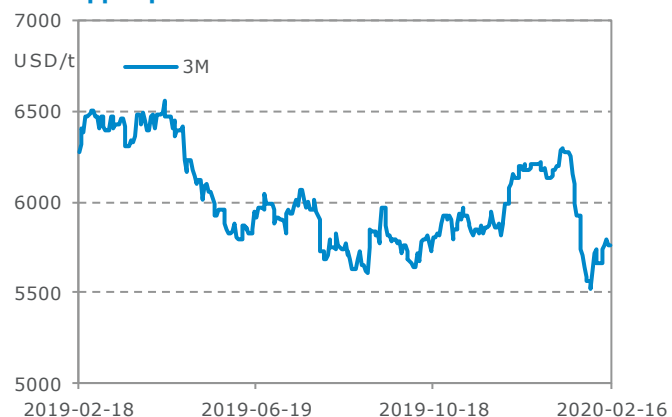
### Brent price and Brent/NWE 3:2:1 crack spread (USD, rhs)



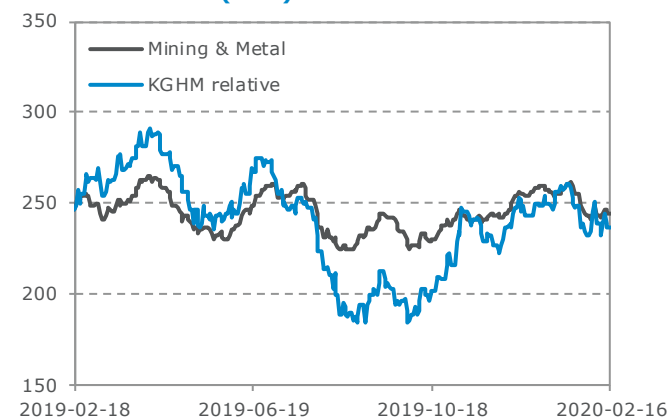
### Orange Polska vs. BETELES (EUR)



### LME copper prices



### KGHM vs. sector (USD)



Source: Bloomberg



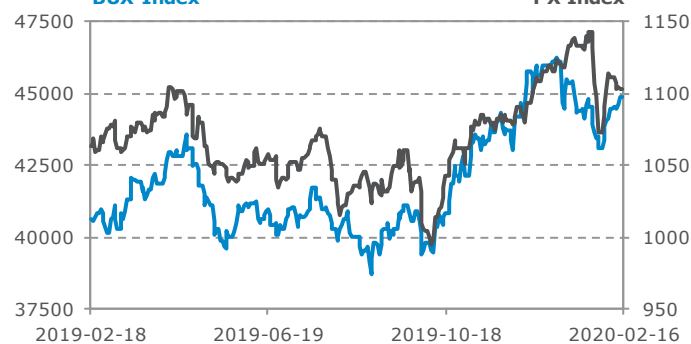
## Global Market Overview

Index	Date	Open	Maximum	Minimum	Close	Change
DJIA	2020-02-14	29,440.47	29,463.04	29,283.18	29,398.08	-0.09%
S&P 500	2020-02-14	3,378.08	3,380.69	3,366.15	3,380.16	+0.18%
NASDAQ	2020-02-14	9,728.90	9,746.36	9,693.05	9,731.18	+0.20%
DAX	2020-02-14	13,756.47	13,788.51	13,728.12	13,744.21	-0.01%
CAC 40	2020-02-14	6,096.07	6,096.07	6,067.14	6,069.35	-0.39%
FTSE 100	2020-02-14	7,452.03	7,472.85	7,403.69	7,409.13	-0.58%
WIG20	2020-02-14	2,126.64	2,131.28	2,111.22	2,115.29	-0.23%
BUX	2020-02-14	44,630.46	45,400.90	44,630.46	44,905.98	+0.62%
PX	2020-02-14	1,104.12	1,107.19	1,100.26	1,102.93	-0.11%
RTS	2020-02-14	2,191.44	2,205.70	2,171.79	2,184.04	-0.53%
SOFIX	2020-02-14	563.46	563.93	558.50	558.70	-0.84%
BET	2020-02-14	10,094.96	10,141.14	10,083.92	10,099.82	+0.04%
XU100	2020-02-14	121,082.00	121,580.50	120,049.30	120,151.40	-0.32%
BETELES	2020-02-14	134.17	134.91	133.96	134.13	-0.01%
NIKKEI	2020-02-14	23,714.52	23,738.42	23,603.48	23,687.59	-0.59%
SHCOMP	2020-02-14	2,899.87	2,926.94	2,899.57	2,917.01	+0.38%
Copper (LME)	2020-02-14	5,779.50	5,794.00	5,744.50	5,760.00	-0.52%
Crude Oil (Brent)	2020-02-14	56.12	57.55	56.07	57.22	+1.49%
USD/PLN	2020-02-14	3.9167	3.9247	3.9072	3.9225	+0.15%
EUR/PLN	2020-02-14	4.2461	4.2535	4.2371	4.2480	+0.04%
EUR/USD	2020-02-14	1.0841	1.0861	1.0827	1.0831	-0.09%
USBonds10	2020-02-14	1.6173	1.6173	1.5712	1.5848	-0.0325
GRBonds10	2020-02-14	-0.3880	-0.3800	-0.4110	-0.4010	-0.0150
PLBonds10	2020-02-14	2.2320	2.2370	2.1800	2.1940	-0.0370

WIG20 Index



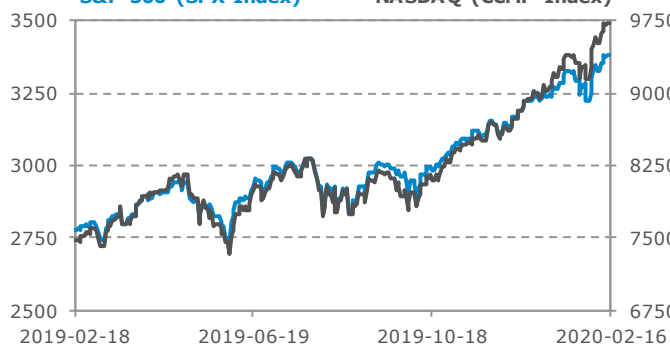
BUX Index



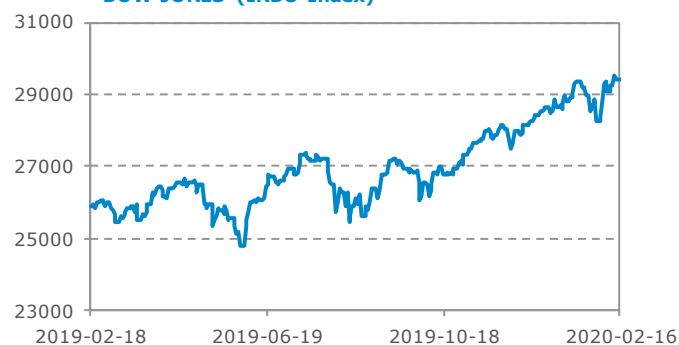
PX Index



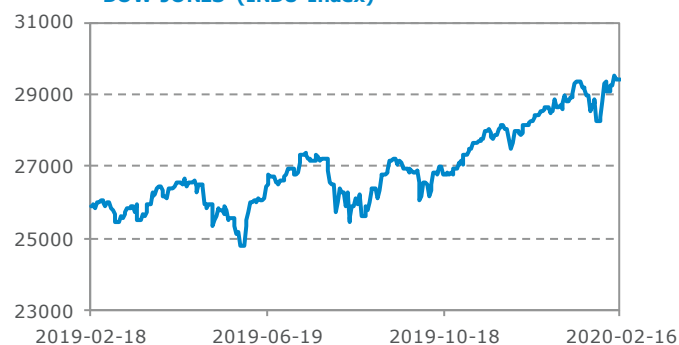
S&amp;P 500 (SPX Index)



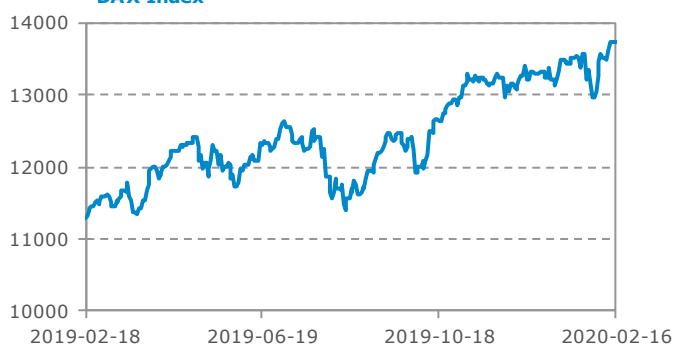
NASDAQ (CCMP Index)



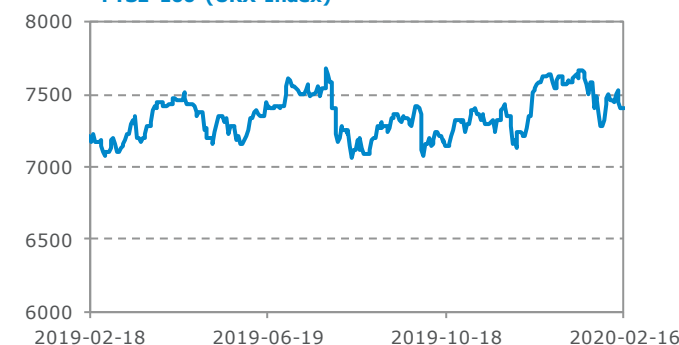
DOW JONES (INDU Index)



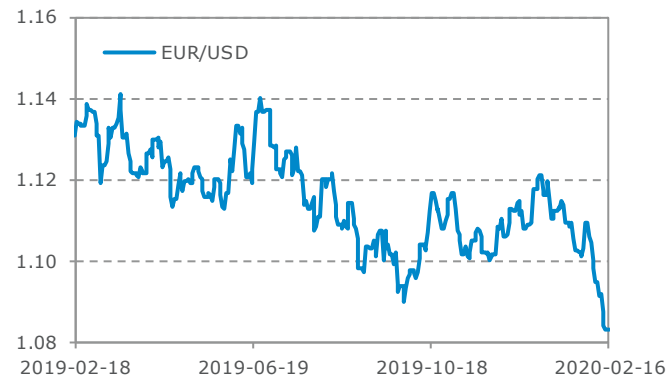
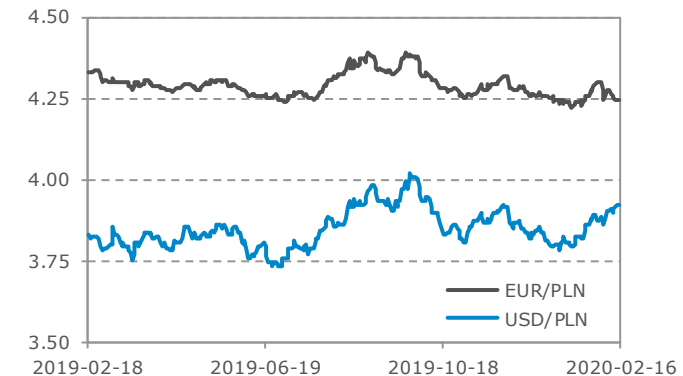
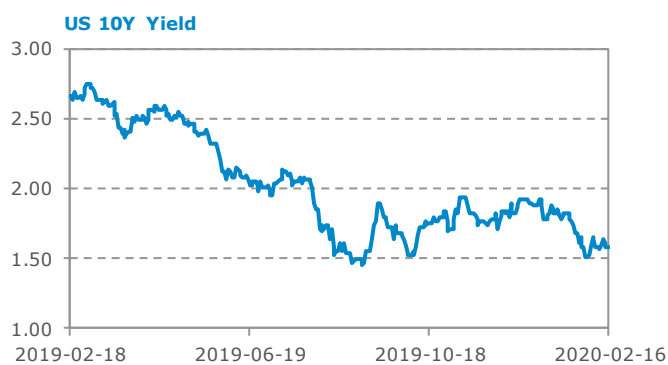
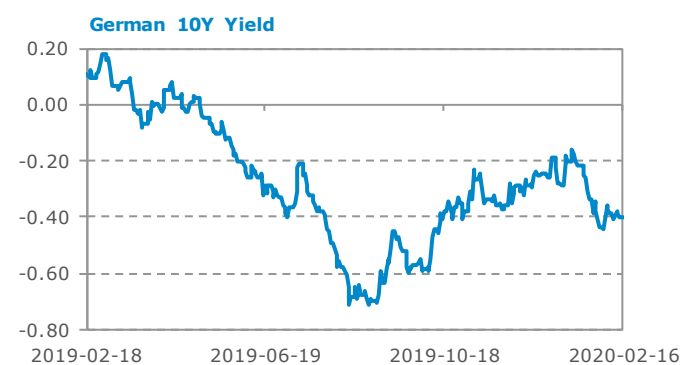
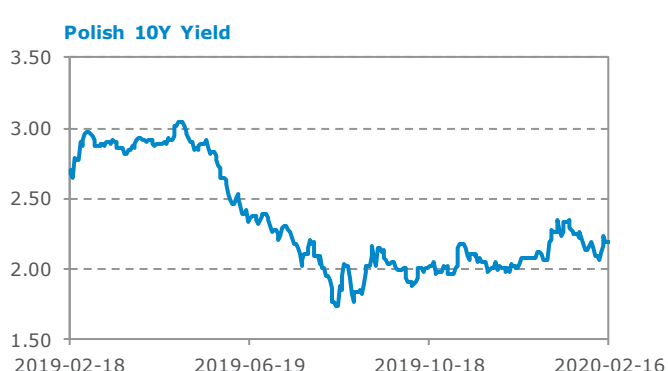
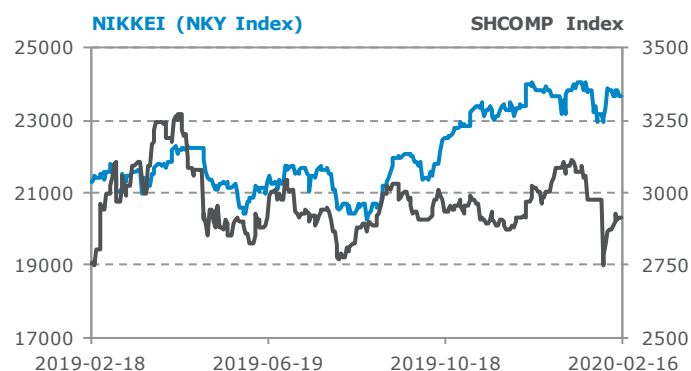
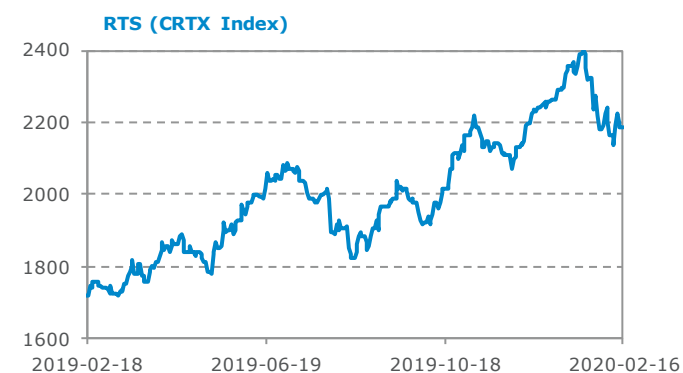
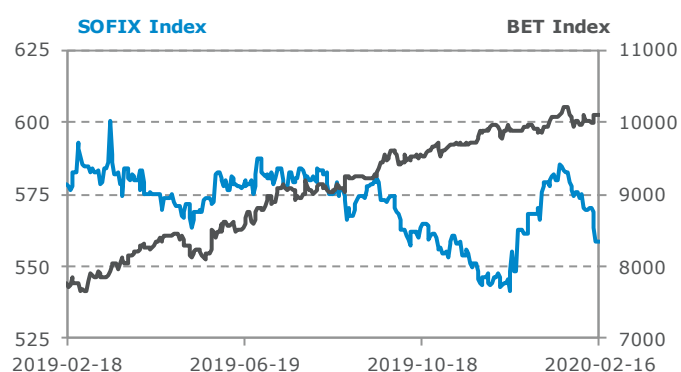
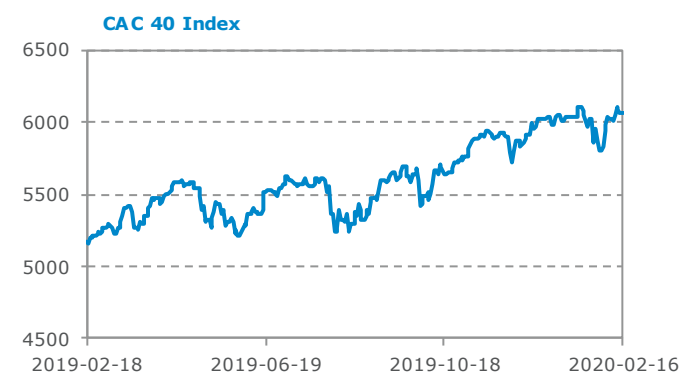
DAX Index



FTSE 100 (UKX Index)



Source: Bloomberg



Source: Bloomberg

#### 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  
**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

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**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 bear a loss greater than 15%  
Recommendations are updated at least once every nine months.

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**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.



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