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## Morning Comments

### Equity Market, Poland

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DJIA	26,403.3	+0.16%	FTSE 100	7,207.2	+0.32%	Copper (LME)	5,676.0	-0.88%
S&P 500	2,926.5	+0.06%	WIG20	2,135.3	+3.19%	Crude Oil (Brent)	59.20	-2.20%
NASDAQ	7,962.9	-0.13%	BUX	39,794.1	+1.35%	USD/PLN	3.9852	+0.43%
DAX	11,939.3	+0.85%	PX	1,037.3	+0.61%	EUR/PLN	4.3786	-0.22%
CAC 40	5,480.5	+0.56%	PLBonds10	1.838	+0.003	EUR/USD	1.0982	-0.68%

### Company & Sector News

#### Debt Collection Companies

##### Marshall Wace increases short position in Arrow Global

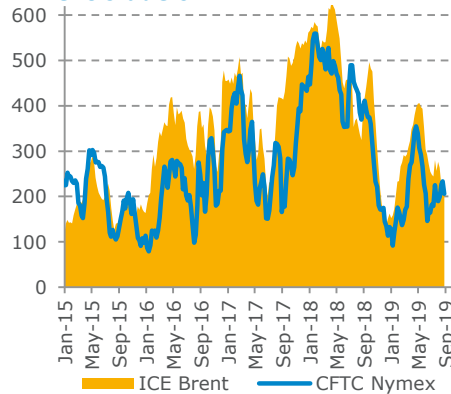
Marshall Wace increased its net short position in Arrow Global by 12.33% to 1.45m shares (0.82% of total shares). According to regulator, seven short positions in Arrow are disclosed. Disclosed short position cover 7.87% of company's stocks. Largest short position is disclosed by Bybrook Capital (2.09%). **(M. Konarski, M. Lemańczyk)**

#### Oil&Gas

##### Oil bets on WTI dropped sharply

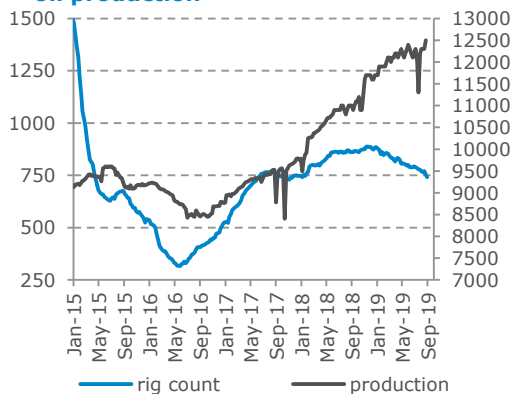
According to the weekly report by the US Commodity Futures Trading Commission, net speculative long positions in WTI crude last week decreased 24,000 to 182,000 (with the 12-month average at 199,000) after rising by 3 consecutive weeks. At the same time, ICE speculative positions in Brent were up by 3,900 to 224,000 contracts (12-month average at 295,000). Meanwhile, the Baker Hughes rig count continued losing streak and decreased by 12 (YTD change negative @-143, i.e. -16%). **(K. Kliszcz)**

Speculative net positions in WTI and Brent crude oil



Source: Bloomberg

US active oil rig count vs daily crude oil production



Source: Bloomberg

#### Power Utilities

##### Energy watchdog speaks out against power price freeze in 2020

Rafał Gawin, head of energy regulator URE, said in the interview that he couldn't guarantee that household power prices won't rise in 2020. In his view regulatory power price freeze shouldn't be continued in 2020 as such intervention always has bad consequences for the market. **It is difficult to imagine that the power price freeze for households could be lifted next year as tariffs should increase by ~80-100 PLN/MWh in such a scenario.** **(K. Kliszcz)**

##### Polish energy minister comments on utility dividend prospects

State-controlled utilities are certainly aiming to pay some level of dividends but increasing the value their assets is equally important for investors, Polish Energy Minister Krzysztof Tchórzewski said at press conference in Warsaw on Friday. Government is still supporting 500 MW coal gasification power plant project analyzed by Enea together with Japanese partner. **These comments still put little clarity on dividend policy at Polish utilities.** **(K. Kliszcz)**

#### Stelmet

Hold - 2019-07-03

Target price: PLN 7.95

##### 2019 Q3 earnings conference highlights

- The Management Board expects the Group's turnover to increase in the 2019/20 season. In the British market, the negative trend may be hindered by Brexit. The management is positive about sales growth on the German market, but it will not be as dynamic as it was last season.
- The company is counting on 2-6% price increases for the 2019/20 season. Talks are difficult,

but according to the board, increases are inevitable. At the beginning of the negotiations, two customers demanded fixed prices y / y.

- The Management Board expects further increases in personnel costs, electricity and wood costs in the 2019/20 season. In the Company's opinion, the Stelmet Group should not count on freezing electricity prices in IH'19 due to the change of energy supplier at the end of 2018. The management believes that timber prices in the 2019/20 season will continue to rise.
- Stelmet expects Capex to amount to PLN 30.6 million or slightly less in the 2018/2019 financial year. In Q1-Q3 of the current year capital expenditure was mainly related to replacement expenditure and implementation of the SAP system in Grange Fencing.
- **It is worth noting that despite the announced about 6% increase in price lists in the 2018/19 season, the management board has not been able to actively raise prices in local currencies in Great Britain and Germany. Prices only increased in France, where the company withdrew its non-profit assortment. We are worrying that 2020 may be the next (fourth) year in which Stelmet will lose shares in Great Britain. It is also ambiguous whether it will be possible to stop the decline in volumes on the French market for three years. (J. Szkopek)**

## China PMI

### China Aug factory activity unexpectedly expands; but export orders worsen

China's factory activity unexpectedly expanded in August as production edged up, a private business survey showed on Monday, but orders remained weak and business confidence faltered as the Sino-U.S. trade war continued to escalate. Export orders fell for the third month in a row and at the sharpest pace since November 2018, amid slowing global demand. Both Washington and Beijing began imposing new tariffs on each other's goods on Sunday. The Caixin/Markit Manufacturing Purchasing Managers' Index (PMI) for August rose to a five-month high of 50.4 from 49.9 in July, after two months of contraction. Economists polled by Reuters had expected a further dip to 49.8. **For more information please visit <https://cutt.ly/ywb1ikx> (J. Szkopek)**

## Copper, Codelco results

### Chile's Codelco profits down sharply on falling copper price, labor strike

World top copper producer Codelco posted a pre-tax profit of \$318 million in the first six months of the year, a drop of 74 percent, the company said on Friday, as the state miner struggled with falling prices globally and labor strife at home. Company plans to shift production in 2H'19 30% in comparison to IH'19. **For more information please visit <https://cutt.ly/0wb1o1t> (J. Szkopek)**

## Steel, China

### China's August steel PMI dips to 44-m low of 44.9

China's Purchasing Managers' Index (PMI) for the steel industry for August hit a new low since December 2015, reaching 44.9 amid imbalance in the fundamentals, steel price declines amid higher production and stocks while the growing challenges in sales, according to the latest release on August 31 by the official index compiler CFLP Steel Logistics Professional Committee (CSLPC). **For more information please visit <https://cutt.ly/Rwb1iQH> (J. Szkopek)**

## Torpol

### Preliminary results in Q2 2019

Torpol's revenue increased by 20% y/y to PLN 401m in Q2'19, gross profit amounted to PLN +26m compared to PLN +13m in Q2'18. Net profit came in at PLN 6.2m vs. PLN -1.8m a year ago when the Group recognized a higher negative impact due to a liquidation process of the subsidiary Torpol Norge AS. In H1'19 period consolidated net profit reached PLN 10.1m vs. PLN -5.9m a year ago. **Q2'19 net profit was in line with market consensus (a range of PLN 3.4m-10.8m) and revenue 15% above consensus (a range of PLN 280m-403m). Company improved gross margin to 6.5% compared to 4.0% a year ago. With the assessment of the results we would wait to the publication of Q2'19 financial statement (6th September), in particular balance sheet figures. (A. Szklarczyk)**

## CCC

Hold – 2019-06-06  
Target price: PLN 161.00

### CCC ro book tax provision due to non-binding decision of tax authority

The company decided to create a provision in the amount of PLN 21 million and book it in the 1H'19 in connection with the decision issued by the head of the Dolnośląskie Tax Office in connection with incorrect tax determination in the transaction of acquisition of CCC Shoes&Bags by CCC.eu on 01.10.2014. The amount of tax on civil law transactions, which amounted to 1%, and in the opinion of the office should be 2%. The decision is not legally binding. The created provision will decrease the net result by PLN 17.1 million (PLN 4 million will be the amount of deferred tax) and will charge the company's result for 1H'19. **The tax authority's verdict is not legally binding. If the provision is taken into account, the company's Q219 result would still be higher than market expectations. (P. Bogusz)**

## CD Projekt

Accumulate – 2019-09-09  
Target price: PLN 237.50

### 2019 Q2 earnings conference highlights

- The Company decided to change the method of accounting for royalties and prepayments for deferred income. The main item in this category are Cyberpunk 2077 preorders.
- The Company is awaiting the Ministry of Finance's interpretation of the IP Box. The Management Board sees a high chance of settling the tax relief in 2019.
- In Q2'19 CDR recognized advances from several partners involved in the distribution of Cyberpunk 2077.

- Currently, there are 5 teams working within the CDR: (1) three teams for Cyberpunk 2077, (2) one for the mobile game produced by Spokko, (3) one for the Gwint game.
- On Friday evening, an approximately 15-minute fragment of Cyberpunk 2077 was published, and after publication of the material, Cyberpunk was ranked 13/12 position on the Steam Global Top Sellers list on Saturday/Sunday respectively, compared to an average of 25 for the previous week. (P. Bogusz)**

## Gaming

### Moderate success on Blair Witch's debut

- Blair Witch from Bloober Team (release on 30.08.2019) is ranked 23rd on Steam Global Top Sellers.** In their comments, players pointed to the low optimization of the game.
- 11 bit studios informed that the game Children of Morta is on Steam Wishlist with 200 thousand players. The game currently ranks 27th on Steam Wishlist. **(P. Bogusz)**

## 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
<b>Gaming</b>																
<b>11 bit studios</b>	<b>405.00</b>	<b>19.0</b>	<b>23.5</b>	<b>6.0</b>	<b>11.0</b>	<b>9.8</b>	<b>4.0</b>	<b>27.1</b>	<b>38.7</b>	<b>9.6</b>	<b>58%</b>	<b>42%</b>	<b>66%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
<b>CD Projekt</b>	<b>253.00</b>	-	<b>9.3</b>	<b>9.3</b>	<b>77.3</b>	<b>7.1</b>	<b>7.6</b>	-	<b>12.4</b>	<b>12.7</b>	<b>14%</b>	<b>76%</b>	<b>82%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
PlayWay*	178.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Activision Blizzards	50.60	15.8	13.4	12.3	5.6	5.1	4.7	23.1	20.2	17.5	36%	38%	38%	0.7%	0.8%	0.9%
Capcom	2767.00	14.0	12.7	11.3	3.4	3.7	3.3	22.6	19.1	18.2	24%	29%	29%	1.3%	1.4%	1.5%
Take Two	131.97	18.2	18.8	17.6	4.4	4.7	4.5	27.9	27.9	26.7	24%	25%	26%	-	-	-
Ubisoft	73.36	8.3	8.8	8.3	4.1	3.8	3.6	24.8	25.7	22.7	50%	43%	43%	0.0%	0.0%	0.0%
Electronic Arts	93.68	15.9	13.9	12.2	5.1	4.7	4.4	23.9	20.4	18.4	32%	34%	36%	-	0.0%	0.0%
Paradox Interactive	130.40	17.6	13.4	11.3	9.8	7.9	6.9	42.1	32.5	22.0	55%	59%	61%	1.5%	1.8%	1.4%
<b>Mediana</b>		<b>15.9</b>	<b>13.4</b>	<b>11.3</b>	<b>5.3</b>	<b>4.9</b>	<b>4.5</b>	<b>24.8</b>	<b>23.0</b>	<b>18.3</b>	<b>34%</b>	<b>40%</b>	<b>41%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.0%</b>

Source: Dom Maklerski mBanku (stocks marked with bold), Bloomberg

## Steam Global Top Sellers

2019-09-02	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	98	-	-	35	110.00	-	-	64.17
Frostpunk: SP	11 bit studios	27	-17	-	11	88.00	0%	-	88.00
Children of Morta	11 bit studios	79	-9	-	138	72.00	0%	-	72.00
Blair Witch	Bloober Team	23	+1	+80	45	99.00	0%	-8%	104.14
Cyberpunk 2077	CD Projekt	14	-2	+14	25	199.00	0%	0%	199.00
The Witcher 3: WH	CD Projekt	200+	-	-	162	-	-	-	100.00
The Witcher 3: WH (GOTY)	CD Projekt	75	-6	+4	85	150.00	0%	0%	150.00
Green Hell	Creepy Jar	200+	-	-	130	-	-	-	67.33
Dying Light	Techland	62	-8	-26	52	34.00	0%	0%	34.00

## Steam Wishlist

2019-09-02	Company	Position	D/D change	W/W change	1-week average	Release date
Children of Morta	11 bit studios	27	+1	+1	28	2019-09-03
Blair Witch	Bloober Team	29	+1	-	29	2019-08-30
Cyberpunk 2077	CD Projekt	1	-	-	1	2020-04-16
Bum Simulator	PlayWay	51	-	-2	50	2019
I am Your President	PlayWay	63	+1	-2	63	TBA
Junkyard Simulator	PlayWay	58	+1	-2	57	2019
Ship Builder Simulator	PlayWay	85	+1	-	86	TBA
Tank Mechanic Simulator	PlayWay	73	+1	+1	74	2019
Dying Light 2	Techland	10	-	-	10	Spring 2020

Source: Steam (Valve Corporation), Dom Maklerski mBanku

## Quarterly Earnings Results

### Pozbud

Overweight – 2019-04-29

### Results worse than expected, the company on track to deliver better full year results

- The **revenues** in Q2'19 were 25% lower we estimated in line with Management preliminaries. The highest negative surprise on sales was in **construction segment** (-32% vs our estimates). The value of work depend on quarterly progress in GSMR railway contract and can differ significantly in periods. The **woodworking segment** sales were 30% down in y/y basis and 33% lower than we expected due to reorganization of factory and new CNC machine tools implementations. The reorganization will improve efficiency of factory in forthcoming periods. The **housing segment** delivered sales which were 11% lower we estimated. At the date of report delivery 80 apartments from 120 were sold, and 5 were reserved.
- The **EBITDA** in Q2'19 was 30% lower we estimated. The main negative surprise came in **woodworking segment** were due to reorganization of work gross profit from sales was 60% lower we estimated. Also **construction segment** delivered 16% lower gross profit we estimated due to lower sales within the quarter. The margin in **construction segment** was 2pp higher we estimated. The **housing segment** delivered margin at the level 21% vs. our expectations 33%. Because of that gross profit from sales was in 2Q'19 44% lower we estimated.
- The **net profit** in 2Q'19 was 2,2 m PLN, but worth to mention that it was charged by 1,5 m PLN one off due to write off in saleable subsidiary Everhome (on financial costs).
- The **net debt** increased during the quarter by 6 m PLN to 72.6 m PLN (3.1x EBITDA). **OCF** was -3 m PLN vs. +32 m PLN in Q2'18.
- The results are worse we expected due to reorganization of woodworking factory, lower construction sales contribution, ale lower profitability in housing segment. We believe the company is on track to beat results in 2019 on all reporting lines, but beat would be smaller we estimated. We would need to decrease our sales forecast to 250 m PLN (before 320 m PLN), EBITDA forecast to 27 m PLN (before 34 m PLN) and net profit 14 m PLN (before 22 m PLN). The company on new figures trades 4.3x P/E'19 and 2.2 EV/EBITDA'19. (J. Szkopek)**

### 2019 Q2 actuals vs. expectations

(m PLN)	Q2'19	Q2'18	Change	Q2'19E	Diff.	Management forecast	Diff.	2019E	2018	Change	YTD
Revenues	50.3	22.6	122.3%	67.4	-25.3%	50.3	0.1%	319.7	130.5	145.1%	27.7%
EBITDA	6.9	6.7	4.1%	9.9	-29.7%	-	-	33.9	18.6	82.4%	45.1%
EBITDA margin	13.8%	29.5%	-	14.7%		-	-	10.6%	14.3%	-	-
EBIT	5.1	5.4	-4.6%	8.5	-39.9%	-	-	28.5	13.4	112.8%	41.9%
Net income	2.2	2.9	-23.0%	6.7	-67.0%	2.2	0.0%	22.0	7.0	215.4%	32.7%

Source: Pozbud, E - estimates by Dom Maklerski mBanku; Consensus estimates provided by PAP

## More News

<b>Alior, Ruch</b>	Troubled press distributor Ruch secured court approval for its partial agreements with creditors, including a proposal to extinguish 85% of claims from the creditors towards which Ruch's total debt was at least PLN 1 mln, lender Alior said in a filing. Alior is Ruch's largest creditor.
<b>Banking</b>	Polish banks granted PLN 26.2 bln in new loans in July, up 14.4% year on year, on notably gains for the full swath of household lending categories, data from the central bank showed.
<b>BSC Drukarnia</b>	Printing house BSC Drukarnia Opakowan plans to maintain a double-digit sales growth in the entire 2019 after revenues in H1 went up by 22% y/y, the company said in a press release.
<b>Mennica Polska</b>	Mint Mennica Polska is yet to decide whether to sell or buy up a stake in office building Mennica Legacy Tower, but would like to maintain its dividend capacity in both scenarios, CEO Grzegorz Zambrzycki told PAP.
<b>Mostostal Warszawa</b>	Listed builder Mostostal Warszawa saw its majority shareholder Acciona buy a mere 2.87% stake in a recent tender offer to boost its total stake to 62.13%, Mostostal said in a market filing.
<b>Natgas</b>	President Andrzej Duda signed into law a special bill on the LNG terminal in Swinoujscie, facilitating and accelerating construction of Poland's largest distribution pipelines, according to a statement from the presidential chancellery.
<b>Pekao</b>	Listed lender Pekao effected the division of its brokerage house CDM, the bank said in a market filing. The brokerage services were transferred to the bank, while the call center services were transferred to Krakow-based unit Centrum Bankowosci Bezposredniej, Pekao explained.
<b>PGG</b>	Unions at coal group PGG want the Minister of Energy to supervise wage negotiations in the company, arguing that the situation is becoming increasingly tense, according to a letter they wrote to Energy Minister Krzysztof Tchorzewski. The unions are demanding a 12% wage increase.
<b>PGNiG</b>	Natgas giant PGNiG launched its first drilling as an operator on the Norwegian Continental Shelf, on the Shrek prospect, license no. 838, the company said in a press release.
<b>PKP Cargo</b>	Freight rail carrier PKP Cargo wants to launch mass production of rail cars in the Gniewczyn plant in 2-3 years, management board member Witold Bawor told PAP.
<b>Stalprodukt</b>	Metals firm Stalprodukt posted H1 group net profit of PLN 96.1 mln, in line with the preliminary estimate and down from PLN 178.4 mln in H1'18, the company said in H1 financial report. H1 attributable net profit stood at PLN 89.3 mln.
<b>Stelmet</b>	Wooden garden architecture maker Stelmet expects to increase revenues in fiscal year 2018/19, CFO Piotr Leszkowicz told a press conference.
<b>Stock Market, Brokerage</b>	Polish brokerages may start offering two new exchange-traded funds (ETF), WIG20TR short and WIG20 leverage, in Q4 2019, board member at Beta Securities Poland Robert Sochacki told PAP.
<b>Ursus</b>	<p>Troubled automotive firm Ursus signed a PLN 21.8 mln contract to supply 1008 trailers to Sweden's More Maskiner AB by end-June 2021, the company reported in a market filing.</p> <p>Troubled automotive firm Ursus should continue accelerated restructuring proceedings, the company's creditors said as reported by Ursus in a filing.</p>

## Macroeconomics

### **Robust consumption and investment growth in the second quarter.**

Polish GDP rose by 4.5% y/y in the second quarter after all, matching our forecast and beating the flash estimate of 4.4% y/y. In sequential terms, GDP rose by 0.8% q/q, underscoring lower overall momentum of the Polish economy. So far this year, the economy is slowing down almost exactly as soft and hard monthly data are indicating.

There are very few surprises in the data. Household consumption accelerated from 3.9 to 4.4%, beating the forecasts (4.0-4.1% y/y). In hindsight, the sharp rebound in retail sales in the second quarter was significant and stronger consumption of leisure and accommodation services due to unusually warm weather in June might have contributed as well. Curiously, this positive surprise matched the disappointment in public consumption (down from 6.4 to 3.4% y/y) and total consumption evolved exactly as forecast. Investment rose by 9% y/y, marginally above forecasts (market consensus and our estimate both at 8.5% y/y). This is consistent with the data on local government and nonfinancial corporations' investment outlays published earlier this month. It is also indicative of the changing structure of investment growth this year – the slowdown in public investment (as the EU-financed investment cycle is turning) is cushioned by stronger private investment. Finally, net exports subtracted 0.2 p.p. from headline GDP growth, whereas monthly data indicated on a small, but positive contribution.

As we repeatedly claimed, the second half of the year will be marked by faster household consumption growth and today's data raise the likelihood of such a path materializing. The more so, if sky-high consumer sentiment is factored in. It is entirely possible that Q2 growth marked a local bottom – preliminary third quarter nowcasts point to 4.4-4.5% y/y range for Q3 GDP. At the turn of the year consumption will be boosted by social spending. Our current forecast (4.6% on average this year) sits comfortably with the latest data.

### **mBank Research**

(Ernest Pytlarczyk, Marcin Mazurek, Piotr Bartkiewicz, Maciej Zdrolik)  
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## Corporate Action Calendar

Date	Time	Company	Event
2-Sep	13:30	<b>Famur</b>	Q2'19 earnings announcement and conference (GPW, ul. Książęca 4, Warsaw)
3-Sep		<b>Atal</b>	Q2'19 earnings announcement
3-Sep		<b>CCC</b>	Q2'19 earnings announcement
4-Sep	10:00	<b>BSC Drukarnia</b>	Q2'19 earnings conference (Westin Hotel, Warsaw)
4-Sep		<b>Amica</b>	Q2'19 earnings announcement
4-Sep	13:00	<b>ML System</b>	Q2'19 earnings conference (Westin Hotel, Warsaw)
5-Sep		<b>Apator</b>	Investor meetings (CC Group, ul. Marszałkowska 89, Warsaw)
5-Sep		<b>Erbud</b>	Q2'19 earnings announcement
5-Sep		<b>Grupa Azoty</b>	Q2'19 earnings announcement
5-Sep		<b>Kruk</b>	Q2'19 earnings announcement
5-Sep		<b>Projprzem</b>	Q2'19 earnings conference (WTT, ul. Chłodna 51, Warsaw)
5-Sep		<b>TXM</b>	Q2'19 earnings announcement
6-Sep	9:00	<b>MCI Capital</b>	Investor meeting (Warsaw Spire, Plac Europejski 1, 35 floor, Warsaw)
6-Sep		<b>Agora</b>	Q2'19 earnings announcement
6-Sep		<b>Ergis</b>	Q2'19 earnings announcement
6-Sep		<b>Torpol</b>	Q2'19 earnings announcement
10-Sep		<b>Ciech</b>	Q2'19 earnings announcement
10-Sep		<b>LC Corp</b>	Q2'19 earnings announcement
10-Sep		<b>Mangata</b>	Q2'19 earnings announcement
10-Sep		<b>Trakcja</b>	Q2'19 earnings announcement
11-Sep		<b>TIM</b>	Q2'19 earnings announcement
11-Sep		<b>Wielton</b>	Q2'19 earnings announcement
12-Sep		<b>Atende</b>	Q2'19 earnings announcement
12-Sep		<b>Forte</b>	Q2'19 earnings announcement
12-Sep		<b>LPP</b>	Q2'19 earnings announcement
12-Sep		<b>Skarbiec</b>	Q4'18/19 earnings announcement

## Economic Calendar

Monday, 2 September 2019					
Time	Region	Data	Period	Forecast	Previous
03:45	China	PMI Manufacturing	August		49.90
09:50	France	PMI Manufacturing (F)	August		51.00
09:55	Germany	PMI Manufacturing (F)	August		43.20
10:00	EU	PMI Manufacturing (F)	August		46.50
Wednesday, 4 September 2019					
Time	Region	Data	Period	Forecast	Previous
02:30	Japan	PMI Manufacturing	August		51.00
02:30	Japan	PMI Services	August		51.80
03:45	China	PMI Services	August		51.60
09:50	France	PMI Services (F)	August		52.60
09:55	Germany	PMI Services (F)	August		54.40
10:00	EU	PMI Services (F)	August		53.40
Thursday, 5 September 2019					
Time	Region	Data	Period	Forecast	Previous
15:45	USA	PMI Composite (F)	August		50.90
15:45	USA	PMI Services (F)	August		50.90
Friday, 6 September 2019					
Time	Region	Data	Period	Forecast	Previous
07:00	Japan	Leading Indicators Index (P)	July		93.30
11:00	EU	GDP	Q2		0.20%; 1.10%
14:30	USA	Average Hourly Earnings	August		27.98
14:30	USA	Average Workweek Hours	August		34.30
14:30	USA	Manufacturing Payrolls Change	August		16 tys.
14:30	USA	Nonfarm Payrolls Change	August		164 tys.
14:30	USA	Unemployment Rate	August		3.70%



## Current Recommendations by Dom Maklerski mBanku

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>+23.1%</b>	<b>10.2</b>	<b>9.4</b>		
Alior Bank	buy	2019-07-03	51.10	72.30	40.40	+79.0%	7.3	5.7		
Handlowy	accumulate	2019-07-03	53.60	59.45	50.40	+18.0%	12.7	10.4		
ING BSK	hold	2019-08-02	189.80	191.80	188.00	+2.0%	14.8	13.2		
Millennium	buy	2019-08-02	7.51	10.00	6.67	+50.0%	11.0	7.9		
Pekao	buy	2019-08-02	99.88	119.75	97.34	+23.0%	11.2	9.8		
PKO BP	buy	2019-08-02	39.34	47.17	39.15	+20.5%	11.1	10.8		
Santander Bank Polska	hold	2019-08-02	319.60	337.00	305.00	+10.5%	13.2	10.9		
Komercni Banka	buy	2019-08-28	817.00	945.02 CZK	838.00	+12.8%	10.5	10.9		
Moneta Money Bank	buy	2019-08-28	75.95	94.33 CZK	76.35	+23.5%	10.2	9.5		
Erste Group	buy	2019-08-28	30.03	40.38 EUR	29.27	+38.0%	8.2	7.5		
RBI	accumulate	2019-08-28	20.44	23.05 EUR	19.89	+15.9%	6.0	5.7		
OTP Bank	buy	2019-08-28	12,000	14,681 HUF	12,010	+22.2%	8.3	7.5		
PZU	hold	2019-07-03	44.35	43.38	37.39	+16.0%	9.9	9.4		
Kruk	buy	2019-04-02	152.30	213.65	166.00	+28.7%	9.3	9.2		
Skarbiec Holding	buy	2019-06-03	16.50	28.17	17.70	+59.2%	6.1	5.3		
<b>Chemicals</b>						<b>+19.5%</b>	<b>7.0</b>	<b>12.3</b>	<b>4.7</b>	<b>6.0</b>
Ciech	hold	2019-07-03	41.60	41.72	36.00	+15.9%	7.1	7.4	4.9	4.9
Grupa Azoty	hold	2019-08-02	42.30	45.93	37.90	+21.2%	6.8	17.2	4.5	7.2
<b>Oil &amp; Gas</b>						<b>+11.9%</b>	<b>11.0</b>	<b>9.8</b>	<b>4.8</b>	<b>4.8</b>
Lotos	sell	2019-08-02	88.66	72.31	86.12	-16.0%	13.1	12.1	6.7	5.7
MOL	accumulate	2019-08-02	3,004	3,258 HUF	2,948	+10.5%	10.7	9.4	4.4	4.2
PGNiG	accumulate	2019-08-02	5.62	6.33	4.74	+33.5%	11.4	7.9	4.5	3.4
PKN Orlen	hold	2019-08-01	97.36	92.82	90.64	+2.4%	8.6	10.1	5.1	5.4
<b>Power Utilities</b>						<b>+38.4%</b>	<b>3.7</b>	<b>4.2</b>	<b>3.7</b>	<b>3.6</b>
CEZ	accumulate	2019-06-25	544.00	597.80 CZK	520.00	+15.0%	15.5	13.5	7.4	6.9
Enea	buy	2019-06-25	8.53	12.41	8.68	+43.1%	3.2	3.0	3.2	3.0
Energia	buy	2019-06-25	7.33	12.67	6.62	+91.5%	3.7	4.2	3.7	4.1
PGE	buy	2019-06-25	9.00	13.26	7.71	+72.1%	4.7	5.3	3.1	3.2
Tauron	buy	2019-06-25	1.57	2.52	1.50	+68.4%	2.4	2.2	4.0	3.6
<b>Telecoms, Media, IT</b>						<b>-2.1%</b>	<b>19.1</b>	<b>15.5</b>	<b>6.4</b>	<b>6.1</b>
Netia	hold	2018-11-26	4.66	4.70	4.56	+3.1%	30.6	25.4	5.3	5.3
Orange Polska	accumulate	2019-08-02	6.70	7.50	6.38	+17.6%	41.2	25.9	4.9	4.8
Play	accumulate	2019-08-02	31.22	34.20	34.36	-0.5%	10.0	9.0	6.4	6.3
Agora	buy	2018-11-27	9.50	16.00	11.15	+43.5%	37.0	19.7	5.1	4.7
Cyfrowy Polsat	reduce	2019-05-31	26.00	24.15	29.10	-17.0%	15.2	13.0	7.2	7.0
Wirtualna Polska	hold	2019-07-03	61.20	61.50	61.00	+0.8%	19.1	16.3	10.2	9.0
Asseco Poland	hold	2019-06-03	51.10	50.80	55.95	-9.2%	15.0	14.6	4.8	4.5
Comarch	buy	2019-07-25	178.50	231.00	179.00	+29.1%	15.5	14.0	6.5	5.9
11 bit studios	buy	2019-05-20	398.00	518.00	405.00	+27.9%	27.1	38.7	19.0	23.5
CD Projekt	accumulate	2019-05-09	215.00	237.50	253.00	-6.1%	-	12.4	-	9.3
<b>Industrials, Mining</b>						<b>+17.2%</b>	<b>6.8</b>	<b>9.7</b>	<b>4.9</b>	<b>4.8</b>
Cognor	hold	2019-07-25	1.75	1.84	1.67	-4.6%	7.9	10.8	4.9	5.1
Famur	buy	2019-08-07	4.42	5.33	3.75	+42.1%	4.8	8.6	3.9	4.5
Grupa Kęty	hold	2019-07-03	337.00	345.32	305.00	+13.2%	11.8	11.2	8.4	8.0
JSW	accumulate	2019-07-03	47.00	50.02	29.72	+68.3%	3.3	8.7	0.4	0.9
Kemel	reduce	2019-08-19	48.60	42.70	45.20	-5.5%	4.6	8.4	5.1	5.8
KGHM	hold	2019-08-22	74.90	77.51	78.32	-1.0%	6.8	9.7	3.9	4.5
Stelmet	hold	2019-07-03	7.00	7.95	6.60	+20.5%	9.8	10.3	5.1	4.8
<b>Property Developers</b>						<b>+6.5%</b>	<b>8.4</b>	<b>8.2</b>	<b>7.7</b>	<b>7.6</b>
Atal	accumulate	2019-07-03	36.60	41.89	36.00	+16.4%	7.7	8.1	7.2	7.6
Dom Development	hold	2019-07-03	77.40	79.80	81.00	-1.5%	9.1	8.2	8.2	7.5
<b>Retail</b>						<b>+4.1%</b>	<b>37.0</b>	<b>19.1</b>	<b>9.3</b>	<b>8.5</b>
AmRest	buy	2019-04-02	41.20	48.00	41.20	+16.5%	38.7	28.3	13.1	10.5
CCC	hold	2019-06-06	153.80	161.00	123.30	+30.6%	46.0	19.0	6.5	5.1
Dino	hold	2019-08-23	149.60	149.20	153.80	-3.0%	37.0	26.9	21.4	16.1
Eurocash	hold	2019-08-02	18.60	18.10	20.54	-11.9%	39.7	28.1	8.5	7.6
Jeronimo Martins	hold	2019-05-09	13.89	14.30 EUR	15.01	-4.7%	21.3	19.1	9.3	8.5
LPP	accumulate	2019-07-03	7,745.00	8,500.00	7,430.00	+14.4%	20.3	18.4	10.3	9.2
VRG	buy	2019-07-26	4.20	5.20	4.32	+20.4%	13.7	11.9	8.6	7.3



## Current Calls by Dom Maklerski mBanku

Company	Relative Positioning	Rated On	Price At Rating	Current Price	Change	P/E		EV/EBITDA	
						2019	2020	2019	2020
IT						11.4	10.6	4.8	4.5
Ailleron	neutral	2019-06-28	8.40	7.40	-11.9%	9.6	8.7	3.3	2.9
Asseco BS	neutral	2019-03-29	29.50	27.60	-6.4%	14.0	13.0	9.4	8.7
Asseco SEE	overweight	2019-04-11	14.20	18.00	+26.8%	13.1	12.6	5.4	5.0
Atende	neutral	2019-01-31	4.40	3.50	-20.5%	8.8	8.2	4.2	4.1
Industrials						10.0	9.9	6.0	6.5
AC	underweight	2019-08-30	43.60	42.60	-2.3%	12.6	12.1	8.2	7.6
Alumetal	underweight	2019-08-30	51.00	34.60	-32.2%	11.0	10.8	7.5	7.6
Amica	neutral	2019-04-29	130.00	110.80	-14.8%	7.3	6.9	4.8	4.5
Apator	neutral	2019-04-29	25.80	23.50	-8.9%	11.2	10.9	7.1	6.9
Boryszew	underweight	2019-07-26	4.49	4.00	-10.9%	8.9	8.3	7.3	7.1
Ergis	neutral	2019-08-30	2.48	2.59	+4.4%	10.6	12.0	5.5	5.5
Forte	neutral	2019-04-29	40.60	25.00	-38.4%	12.5	10.9	8.5	7.9
Kruszwica	neutral	2019-04-02	43.90	41.70	-5.0%	10.0	9.1	5.2	4.8
Mangata	neutral	2019-05-29	69.50	65.00	-6.5%	8.7	9.9	6.0	6.5
Pfleiderer Group	underweight	2019-07-29	28.00	26.30	-6.1%	53.0	25.1	7.0	6.6
Pozbud	overweight	2019-04-29	2.37	2.22	-6.3%	2.7	2.8	2.5	1.9
Tarczyński	neutral	2019-05-29	15.40	16.00	+3.9%	6.9	5.8	5.0	4.6
TIM	overweight	2019-04-29	7.90	8.40	+6.3%	9.6	8.5	5.7	5.1
Retail						9.1	9.0	4.2	3.4
Monnari	neutral	2019-07-17	4.66	4.59	-1.5%	9.1	9.0	4.2	3.4

## 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>													
<b>Alior Bank</b>	<b>40.40</b>	<b>7.3</b>	<b>5.7</b>	<b>4.9</b>	<b>10%</b>	<b>12%</b>	<b>12%</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
<b>Handlowy</b>	<b>50.40</b>	<b>12.7</b>	<b>10.4</b>	<b>9.8</b>	<b>7%</b>	<b>9%</b>	<b>9%</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>7.4%</b>	<b>8.4%</b>	<b>7.2%</b>
<b>ING BSK</b>	<b>188.00</b>	<b>14.8</b>	<b>13.2</b>	<b>11.9</b>	<b>12%</b>	<b>13%</b>	<b>13%</b>	<b>1.8</b>	<b>1.7</b>	<b>1.5</b>	<b>1.9%</b>	<b>2.0%</b>	<b>2.3%</b>
<b>Millennium</b>	<b>6.67</b>	<b>11.0</b>	<b>7.9</b>	<b>7.1</b>	<b>8%</b>	<b>11%</b>	<b>11%</b>	<b>0.9</b>	<b>0.8</b>	<b>0.7</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
<b>Pekao</b>	<b>97.34</b>	<b>11.2</b>	<b>9.8</b>	<b>9.2</b>	<b>10%</b>	<b>11%</b>	<b>11%</b>	<b>1.1</b>	<b>1.1</b>	<b>1.0</b>	<b>6.8%</b>	<b>6.7%</b>	<b>7.7%</b>
<b>PKO BP</b>	<b>39.15</b>	<b>11.1</b>	<b>10.8</b>	<b>10.1</b>	<b>11%</b>	<b>11%</b>	<b>11%</b>	<b>1.2</b>	<b>1.1</b>	<b>1.1</b>	<b>3.4%</b>	<b>7.9%</b>	<b>9.6%</b>
<b>Santander BP</b>	<b>305.00</b>	<b>13.2</b>	<b>10.9</b>	<b>10.0</b>	<b>9%</b>	<b>11%</b>	<b>11%</b>	<b>1.2</b>	<b>1.1</b>	<b>1.1</b>	<b>6.5%</b>	<b>3.8%</b>	<b>4.6%</b>
<b>Median</b>		<b>11.2</b>	<b>10.4</b>	<b>9.8</b>	<b>10%</b>	<b>11%</b>	<b>11%</b>	<b>1.1</b>	<b>1.1</b>	<b>1.0</b>	<b>3.4%</b>	<b>3.8%</b>	<b>4.6%</b>
<b>Investors in Polish banks</b>													
BCP	0.193	6.7	5.9	5.0	7%	8%	9%	0.5	0.4	0.4	2.6%	5.7%	7.2%
Citigroup	64.350	8.4	7.5	6.8	10%	10%	10%	0.8	0.7	0.7	3.0%	3.4%	3.8%
Commerzbank	5.139	7.5	6.1	5.6	3%	4%	4%	0.2	0.2	0.2	4.2%	5.3%	6.3%
ING	8.697	6.6	6.7	6.6	10%	9%	9%	0.6	0.6	0.6	8.0%	8.2%	8.4%
UCI	10.060	5.5	5.6	5.4	8%	7%	7%	0.4	0.4	0.4	5.8%	7.1%	7.8%
<b>Median</b>		<b>6.7</b>	<b>6.1</b>	<b>5.6</b>	<b>8%</b>	<b>8%</b>	<b>9%</b>	<b>0.5</b>	<b>0.4</b>	<b>0.4</b>	<b>4.2%</b>	<b>5.7%</b>	<b>7.2%</b>
<b>Foreign banks</b>													
<b>Erste Group</b>	<b>29.27</b>	<b>8.2</b>	<b>7.5</b>	<b>7.1</b>	<b>10%</b>	<b>11%</b>	<b>11%</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>4.4%</b>	<b>5.1%</b>	<b>5.6%</b>
<b>Komerční Banka</b>	<b>838.00</b>	<b>10.5</b>	<b>10.9</b>	<b>10.4</b>	<b>14%</b>	<b>14%</b>	<b>14%</b>	<b>1.5</b>	<b>1.5</b>	<b>1.4</b>	<b>6.1%</b>	<b>6.1%</b>	<b>6.1%</b>
<b>Moneta Money</b>	<b>76.35</b>	<b>10.2</b>	<b>9.5</b>	<b>9.4</b>	<b>15%</b>	<b>16%</b>	<b>16%</b>	<b>1.5</b>	<b>1.5</b>	<b>1.4</b>	<b>8.1%</b>	<b>7.3%</b>	<b>7.9%</b>
<b>OTP Bank</b>	<b>12,010</b>	<b>8.3</b>	<b>7.5</b>	<b>7.4</b>	<b>20%</b>	<b>18%</b>	<b>17%</b>	<b>1.5</b>	<b>1.3</b>	<b>1.2</b>	<b>1.9%</b>	<b>2.0%</b>	<b>4.6%</b>
<b>RBI</b>	<b>19.89</b>	<b>6.0</b>	<b>5.7</b>	<b>5.2</b>	<b>9%</b>	<b>9%</b>	<b>9%</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>5.8%</b>	<b>5.0%</b>	<b>5.3%</b>
Akbank	6.94	6.5	4.4	3.7	12%	15%	15%	0.7	0.6	0.5	2.8%	4.8%	6.3%
Alpha Bank	1.63	16.3	10.2	7.3	2%	3%	4%	0.3	0.3	0.3	0.0%	0.0%	0.0%
Banco Santander	3.44	7.2	6.8	6.5	8%	8%	8%	0.6	0.5	0.5	6.5%	6.8%	7.2%
Deutsche Bank	6.57	109.6	16.1	9.2	-1%	1%	3%	0.2	0.2	0.2	0.0%	0.6%	2.7%
Eurobank Ergasias	0.81	9.5	6.9	5.6	5%	9%	9%	0.6	0.5	0.5	0.0%	0.0%	0.0%
National Bank of Greece	2.64	14.7	12.6	9.2	2%	4%	6%	0.5	0.5	0.4	-	0.0%	0.0%
Piraeus Bank	3.08	25.7	9.4	7.1	2%	3%	4%	0.2	0.2	0.2	-	0.0%	0.0%
Sberbank	224.20	5.5	4.8	4.4	22%	22%	21%	1.1	1.0	0.9	8.4%	10.1%	11.6%
Türkiye Garanti Bank	8.90	5.2	4.1	3.3	14%	15%	17%	0.7	0.6	0.5	5.4%	4.5%	5.4%
Türkiye Halk Bank	5.68	4.2	2.2	1.6	7%	9%	9%	0.2	0.2	0.2	1.4%	2.1%	2.1%
Türkiye Vakıflar Bankası	4.64	3.6	2.6	2.1	10%	12%	13%	0.3	0.3	0.3	-	-	-
VTB Bank	0.04	3.2	3.2	3.0	12%	13%	13%	0.4	0.4	0.3	7.8%	7.8%	10.3%
Yapi ve Kredi Bankası	2.29	4.5	3.4	2.7	11%	13%	13%	0.4	0.4	0.3	0.0%	1.3%	-
<b>Median</b>		<b>7.7</b>	<b>6.8</b>	<b>6.0</b>	<b>10%</b>	<b>11%</b>	<b>12%</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>4.4%</b>	<b>4.5%</b>	<b>5.3%</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>													
<b>PZU</b>	<b>37.39</b>	<b>9.9</b>	<b>9.4</b>	<b>9.2</b>	<b>22%</b>	<b>23%</b>	<b>23%</b>	<b>2.1</b>	<b>2.1</b>	<b>2.1</b>	<b>8.0%</b>	<b>8.0%</b>	<b>8.5%</b>
Aegon	3.46	5.2	4.9	4.8	7%	8%	8%	0.3	0.3	0.3	8.8%	9.3%	9.8%
Allianz	200.15	10.6	9.9	9.3	12%	12%	12%	1.2	1.2	1.1	4.8%	5.1%	5.4%
Assicurazioni Generali	16.47	9.7	9.7	9.2	11%	10%	10%	1.0	0.9	0.9	5.9%	6.2%	6.6%
Aviva	3.54	5.9	5.8	5.5	12%	13%	14%	0.8	0.8	0.8	8.8%	9.1%	9.6%
AXA	20.87	8.1	7.3	7.1	10%	11%	11%	0.8	0.8	0.7	7.1%	7.5%	7.7%
Baloise	168.70	11.6	12.0	11.4	10%	9%	9%	1.2	1.1	1.1	3.8%	4.0%	4.3%
Helvetia	129.00	12.0	12.0	11.6	11%	10%	10%	1.2	1.1	1.1	3.9%	4.1%	4.3%
Mapfre	2.37	9.6	8.7	8.2	9%	10%	10%	0.8	0.8	0.8	6.5%	6.8%	7.2%
RSA Insurance	5.23	12.9	11.1	10.4	11%	12%	13%	1.4	1.3	1.3	4.7%	5.3%	6.0%
Uniq	8.05	11.6	10.9	10.3	7%	7%	8%	0.8	0.9	0.9	6.9%	7.1%	7.3%
Vienna Insurance G.	22.40	9.3	9.1	8.3	6%	7%	6%	0.5	0.5	0.5	4.4%	5.0%	5.1%
Zurich Financial	352.20	12.9	11.7	11.1	13%	13%	13%	1.6	1.5	1.4	5.8%	6.1%	6.5%
<b>Median</b>		<b>9.9</b>	<b>9.7</b>	<b>9.2</b>	<b>11%</b>	<b>10%</b>	<b>10%</b>	<b>1.0</b>	<b>0.9</b>	<b>0.9</b>	<b>5.9%</b>	<b>6.2%</b>	<b>6.6%</b>

Source: Dom Maklerski mBanku (stocks marked with bold), Bloomberg

## Gas &amp; 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	86.12	6.7	5.7	4.9	0.7	0.6	0.6	13.1	12.1	11.0	10%	11%	12%	3.5%	2.3%	2.5%
MOL	2948.00	4.4	4.2	3.8	0.6	0.6	0.5	10.7	9.4	8.1	15%	15%	15%	4.8%	5.1%	5.3%
PKN Orlen	90.64	5.1	5.4	5.2	0.4	0.4	0.4	8.6	10.1	10.3	9%	8%	7%	3.9%	3.3%	3.3%
Hellenic Petroleum	9.34	6.5	5.2	5.5	0.5	0.5	0.4	11.6	7.1	7.4	7%	9%	8%	5.5%	6.2%	6.1%
HollyFrontier	44.36	5.3	5.3	5.6	0.6	0.6	0.6	9.0	8.5	9.3	10%	11%	10%	3.0%	3.1%	3.1%
Marathon Petroleum	49.21	7.2	5.4	5.4	0.5	0.5	0.5	11.0	6.5	6.9	7%	9%	9%	4.3%	4.8%	5.3%
Motor Oil	22.24	5.0	4.4	4.9	0.3	0.3	0.3	8.2	7.0	7.9	6%	7%	7%	6.1%	6.5%	6.6%
Neste Oil	28.64	10.9	10.0	9.6	1.4	1.5	1.4	17.3	15.4	14.6	13%	15%	14%	3.0%	3.4%	3.6%
OMV	46.41	3.8	3.5	3.4	0.9	0.9	0.9	8.9	8.0	7.7	25%	26%	27%	4.1%	4.6%	5.0%
Phillips 66	98.63	7.8	6.7	7.1	0.5	0.5	0.5	12.5	9.5	10.2	7%	7%	7%	3.5%	3.9%	4.1%
Saras SpA	1.41	3.9	2.4	3.4	0.1	0.1	0.1	14.0	4.8	8.2	4%	6%	4%	4.2%	9.8%	6.6%
Tupras	126.00	6.7	4.6	4.4	0.4	0.4	0.4	10.1	5.4	5.0	7%	8%	8%	9.3%	15.9%	16.9%
Valero Energy	75.28	7.2	5.1	5.5	0.4	0.3	0.4	14.3	7.8	8.4	5%	7%	7%	4.8%	5.2%	5.5%
Median		6.5	5.2	5.2	0.5	0.5	0.5	11.0	8.0	8.2	7%	9%	8%	4.2%	4.8%	5.3%
Gas companies																
PGNiG	4.74	4.5	3.4	2.8	0.8	0.7	0.6	11.4	7.9	6.5	18%	22%	22%	2.3%	3.5%	5.1%
A2A SpA	1.60	7.3	6.8	6.5	1.3	1.3	1.3	15.5	13.3	12.7	18%	19%	19%	4.9%	5.0%	5.1%
BP	500.20	4.5	4.2	4.2	0.6	0.6	0.6	11.6	10.1	9.5	14%	14%	15%	0.0%	0.0%	0.0%
Centrica	69.70	3.9	3.7	4.0	0.3	0.3	0.3	9.5	7.0	7.0	7%	8%	7%	0.0%	0.0%	0.0%
Enagas	19.86	9.6	9.5	10.3	7.8	7.8	8.5	11.2	10.4	11.4	80%	83%	83%	8.1%	8.3%	8.3%
Endesa	23.37	8.6	8.5	8.4	1.5	1.5	1.5	16.2	16.0	15.6	18%	18%	18%	6.1%	6.2%	5.3%
Engie	13.83	6.5	6.2	5.9	1.0	1.0	0.9	13.3	11.9	10.8	15%	15%	16%	5.6%	6.0%	6.6%
Eni	13.68	3.5	3.3	3.2	0.8	0.8	0.9	12.3	10.1	9.5	24%	26%	28%	6.3%	6.4%	6.5%
Equinor	155.80	2.9	2.5	2.4	1.0	0.9	0.9	10.4	8.8	8.2	36%	37%	39%	0.1%	0.1%	0.1%
Gas Natural SDG	23.80	9.4	9.0	8.9	1.6	1.6	1.6	17.0	15.9	15.0	17%	18%	18%	5.8%	6.0%	6.3%
Gazprom	232.15	3.6	3.5	3.3	1.0	1.0	0.9	3.6	3.8	3.5	28%	28%	29%	7.1%	8.1%	10.5%
Hera SpA	3.63	7.7	7.4	7.3	1.3	1.2	1.2	17.9	17.4	17.4	17%	16%	17%	2.8%	3.0%	3.1%
NovaTek	1288.00	11.8	11.3	11.2	4.5	4.4	4.0	8.5	7.5	6.4	39%	38%	36%	4.1%	4.9%	5.4%
ROMGAZ	33.90	5.5	5.2	4.9	2.6	2.4	2.3	9.8	8.9	8.3	48%	47%	47%	9.6%	10.5%	11.4%
Shell	25.23	3.3	3.0	2.9	0.5	0.5	0.5	11.4	9.4	8.7	16%	17%	18%	8.2%	8.3%	8.5%
Snam SpA	4.60	12.7	12.4	12.0	10.2	10.0	9.7	14.4	14.2	13.6	81%	81%	81%	5.3%	5.5%	5.7%
Total	45.39	5.0	4.6	4.5	0.9	0.9	0.8	11.2	9.7	9.3	18%	20%	19%	6.4%	6.7%	6.9%
Median		5.5	5.2	4.9	1.0	1.0	0.9	11.4	10.1	9.5	18%	20%	19%	5.6%	6.0%	5.7%

## 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	520.00	7.4	6.9	6.8	2.1	1.9	1.8	15.5	13.5	13.6	29%	28%	27%	4.6%	5.8%	6.7%
Enea	8.68	3.2	3.0	2.7	0.7	0.6	0.6	3.2	3.0	2.4	20%	19%	22%	0.0%	0.0%	3.4%
Energia	6.62	3.7	4.1	4.3	0.7	0.7	0.8	3.7	4.2	4.2	18%	17%	18%	0.0%	0.0%	0.0%
PGE	7.71	3.1	3.2	2.4	0.6	0.6	0.5	4.7	5.3	3.7	21%	18%	22%	0.0%	5.3%	4.7%
Tauron	1.50	4.0	3.6	3.2	0.7	0.6	0.6	2.4	2.2	1.9	17%	17%	19%	0.0%	0.0%	0.0%
EDF	11.07	5.3	4.8	4.7	1.2	1.2	1.1	16.0	12.6	11.4	23%	24%	24%	3.0%	3.7%	4.0%
EDP	3.44	8.7	8.3	8.0	2.1	2.0	1.8	15.7	14.1	13.2	24%	24%	23%	5.6%	5.6%	5.9%
Endesa	23.37	8.6	8.5	8.4	1.5	1.5	1.5	16.2	16.0	15.6	18%	18%	18%	6.1%	6.2%	5.3%
Enel	6.59	7.3	6.9	6.7	1.6	1.6	1.5	14.1	13.0	12.3	22%	23%	23%	5.0%	5.4%	5.7%
EON	8.46	7.4	5.5	5.3	1.2	0.6	0.5	12.4	12.6	11.7	16%	10%	10%	5.4%	5.8%	6.1%
Fortum	19.99	14.0	13.0	12.4	4.3	4.1	4.0	14.4	13.6	12.5	31%	32%	32%	5.5%	5.5%	5.5%
Iberdola	9.35	10.2	9.6	9.1	2.7	2.6	2.5	17.8	16.7	15.9	26%	27%	28%	4.0%	4.2%	4.5%
National Grid	858.50	11.3	10.6	10.1	3.7	3.6	3.5	14.8	14.7	14.0	32%	34%	35%	0.0%	0.0%	0.0%
Red Electrica	18.13	9.5	9.6	9.6	7.4	7.5	7.4	13.7	14.6	14.9	78%	78%	77%	5.8%	5.6%	5.5%
RWE	25.92	9.2	5.3	4.6	1.1	0.8	0.7	23.3	15.0	11.2	12%	15%	16%	3.1%	3.6%	4.1%
SSE	1151.00	10.8	9.9	9.2	0.7	1.4	1.3	17.2	12.6	11.2	7%	14%	15%	0.0%	0.0%	0.0%
Verbund	54.15	9.6	8.1	7.7	3.5	3.2	3.1	33.3	26.1	24.6	36%	39%	40%	1.3%	1.7%	1.9%
Median		8.6	6.9	6.8	1.5	1.5	1.5	14.8	13.5	12.3	22%	23%	23%	3.1%	4.2%	4.5%

## 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	3.75	3.9	4.5	5.2	1.0	1.2	1.2	4.8	8.6	11.0	26%	27%	24%	14.1%	10.5%	8.7%
Caterpillar	119.00	7.4	7.6	7.4	1.5	1.5	1.5	10.0	9.6	9.2	21%	20%	20%	3.2%	3.5%	3.8%
Epiroc	101.70	8.1	7.6	7.3	2.0	2.0	1.9	18.7	17.5	16.6	25%	26%	26%	2.5%	2.7%	2.9%
Komatsu	2257.00	5.4	5.8	5.7	1.0	1.1	1.1	8.5	9.4	9.3	19%	18%	18%	4.7%	5.0%	5.0%
Sandvig AG	140.75	7.8	7.5	7.2	1.8	1.7	1.7	13.1	12.4	11.7	23%	23%	24%	3.3%	3.5%	3.7%
Median		7.4	7.5	7.2	1.5	1.5	1.5	10.0	9.6	11.0	23%	22%	22%	3.3%	3.5%	3.8%

Source: Dom Maklerski mBanku (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>37.90</b>	<b>4.5</b>	<b>7.2</b>	<b>8.3</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>6.8</b>	<b>17.2</b>	<b>17.3</b>	<b>13%</b>	<b>9%</b>	<b>9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.7%</b>
Acron	4840.00	7.0	6.5	6.4	2.3	2.2	2.0	8.9	8.6	8.3	34%	34%	32%	6.9%	7.2%	7.9%
CF Industries	48.19	9.5	8.7	8.2	3.6	3.4	3.4	20.1	16.4	14.1	38%	40%	41%	2.5%	2.5%	2.5%
Israel Chemicals	1575.00	6.2	6.0	5.9	1.4	1.4	1.3	10.6	9.8	9.5	23%	23%	22%	0.0%	0.0%	0.0%
K+S	14.35	7.8	6.8	6.3	1.5	1.4	1.4	12.8	9.8	8.3	19%	21%	21%	2.9%	4.0%	4.6%
Phosagro	2548.00	6.1	6.0	5.6	1.9	1.9	1.8	9.9	10.3	9.7	31%	31%	32%	6.5%	5.4%	5.4%
The Mosaic Company	18.39	6.2	5.1	4.6	1.2	1.1	1.1	15.2	9.3	7.3	19%	21%	23%	1.1%	1.2%	1.5%
Yara International	395.30	52.0	44.7	42.2	8.3	7.7	7.5	-	-	-	16%	17%	18%	0.3%	0.5%	0.6%
ZA Police	14.00	6.0	4.8	4.8	1.3	1.2	1.2	1.7	1.2	1.2	21%	24%	24%	59.4%	64.3%	71.4%
ZCh Pulawy	89.00	1.7	1.7	-	0.3	0.3	0.2	6.7	7.2	-	15%	15%	-	5.6%	5.6%	-
<b>Median</b>		<b>6.2</b>	<b>6.2</b>	<b>6.3</b>	<b>1.4</b>	<b>1.4</b>	<b>1.3</b>	<b>9.9</b>	<b>9.8</b>	<b>8.9</b>	<b>20%</b>	<b>22%</b>	<b>23%</b>	<b>2.7%</b>	<b>3.2%</b>	<b>2.5%</b>
<b>Chemical companies</b>																
<b>Ciech</b>	<b>36.00</b>	<b>4.9</b>	<b>4.9</b>	<b>4.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.8</b>	<b>7.1</b>	<b>7.4</b>	<b>7.8</b>	<b>18%</b>	<b>19%</b>	<b>17%</b>	<b>0.0%</b>	<b>2.8%</b>	<b>6.7%</b>
Akzo Nobel	81.47	13.5	11.9	11.1	1.9	1.9	1.8	26.3	19.6	17.5	14%	16%	16%	2.4%	2.6%	2.9%
BASF	60.18	9.0	7.9	7.3	1.2	1.2	1.1	15.3	13.2	11.8	13%	15%	15%	5.4%	5.5%	5.6%
Croda	4702.00	16.0	15.0	14.2	4.6	4.5	4.3	24.6	22.9	21.5	29%	30%	30%	0.0%	0.0%	0.0%
Sisecam	4.33	3.4	2.9	2.4	0.7	0.6	0.5	4.7	4.2	4.0	20%	20%	21%	5.0%	5.4%	6.2%
Soda Sanayii	5.52	3.9	3.3	2.8	1.0	0.8	0.7	4.3	4.4	3.9	24%	24%	24%	6.2%	6.2%	7.1%
Solvay	91.72	5.4	5.2	4.9	1.2	1.1	1.1	11.0	10.4	9.4	21%	22%	22%	4.1%	4.3%	4.5%
Tata Chemicals	584.30	8.2	7.2	6.5	1.5	1.4	1.3	14.2	12.9	11.5	18%	19%	20%	2.0%	2.2%	2.1%
Tessenderlo Chemie	29.60	5.9	5.5	5.1	0.8	0.8	0.7	13.6	11.9	10.0	13%	14%	14%	-	-	-
Wacker Chemie	70.82	5.4	5.0	4.7	0.9	0.8	0.8	22.4	16.4	13.4	16%	17%	17%	3.3%	3.9%	4.2%
<b>Median</b>		<b>5.7</b>	<b>5.3</b>	<b>5.0</b>	<b>1.1</b>	<b>1.0</b>	<b>1.0</b>	<b>13.9</b>	<b>12.4</b>	<b>10.7</b>	<b>18%</b>	<b>19%</b>	<b>19%</b>	<b>3.3%</b>	<b>3.9%</b>	<b>4.5%</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>78.32</b>	<b>3.9</b>	<b>4.5</b>	<b>3.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0.8</b>	<b>6.8</b>	<b>9.7</b>	<b>8.2</b>	<b>23%</b>	<b>20%</b>	<b>21%</b>	<b>0.0%</b>	<b>1.9%</b>	<b>3.1%</b>
Anglo American	1774.20	3.5	3.8	4.0	1.3	1.3	1.3	7.1	7.7	8.5	36%	34%	32%	0.0%	0.0%	0.0%
Antofagasta	866.00	5.4	5.5	5.0	2.6	2.6	2.5	17.1	17.2	14.3	49%	48%	50%	0.0%	0.0%	0.0%
BHP Group LTD	36.29	3.6	3.4	3.7	1.9	1.9	1.9	12.9	11.0	12.6	53%	55%	52%	4.1%	3.1%	2.5%
Boliden	217.00	5.0	4.9	5.0	1.2	1.2	1.2	10.4	10.1	10.2	24%	24%	23%	5.0%	5.1%	5.2%
First Quantum	8.16	7.3	5.1	4.8	3.0	2.2	2.1	13.3	8.7	6.9	41%	43%	44%	0.1%	0.1%	0.1%
Freeport-McMoRan	9.19	10.2	7.3	4.5	2.0	1.9	1.6	60.9	15.0	6.4	19%	26%	35%	2.2%	3.0%	4.0%
Fresnillo	740.40	9.4	7.6	6.2	3.4	3.2	2.9	38.5	29.7	19.5	36%	42%	47%	0.0%	0.0%	0.0%
Gold Fields	9086.00	5.2	4.4	4.3	2.3	2.1	2.1	24.7	16.8	17.3	44%	48%	48%	0.0%	0.0%	0.0%
Hudbay Min	4.47	3.6	3.1	2.7	1.2	1.1	1.1	-	22.4	9.7	32%	37%	41%	0.3%	0.3%	0.3%
KAZ Minerals	402.80	4.2	4.2	4.0	2.3	2.2	2.2	4.9	4.8	4.3	54%	53%	53%	0.0%	0.0%	0.0%
Lundin Min	6.35	6.1	3.7	3.3	2.2	1.7	1.6	18.9	8.7	7.1	36%	45%	47%	1.2%	1.2%	1.5%
MMC Norilsk Nickel	24.25	6.8	6.5	6.4	3.7	3.7	3.5	9.8	9.7	9.4	55%	57%	55%	9.4%	11.0%	11.2%
OZ Minerals	9.15	6.4	5.1	4.2	2.8	2.3	2.0	16.7	11.9	8.3	43%	44%	48%	2.4%	2.6%	3.1%
Polymetal Intl	1183.00	8.3	7.5	7.6	3.9	3.7	3.7	12.4	10.6	10.5	47%	49%	48%	0.0%	0.0%	0.0%
Polys	7665.00	8.0	7.5	7.7	5.2	4.8	4.9	11.1	10.5	11.4	64%	64%	63%	4.1%	4.5%	4.3%
Sandfire Resources	6.23	2.5	2.0	1.9	1.3	1.1	1.1	8.8	6.5	5.4	51%	56%	58%	4.0%	4.7%	5.2%
Southern CC	31.60	8.2	7.7	7.4	4.1	3.9	3.7	14.8	13.7	13.1	51%	51%	50%	4.8%	4.9%	4.9%
<b>Median</b>		<b>5.7</b>	<b>5.0</b>	<b>4.4</b>	<b>2.3</b>	<b>2.1</b>	<b>2.0</b>	<b>12.9</b>	<b>10.6</b>	<b>9.5</b>	<b>44%</b>	<b>46%</b>	<b>48%</b>	<b>0.7%</b>	<b>1.6%</b>	<b>2.0%</b>
<b>Coal</b>																
<b>JSW</b>	<b>29.72</b>	<b>0.4</b>	<b>0.9</b>	<b>1.3</b>	<b>0.1</b>	<b>0.1</b>	<b>0.2</b>	<b>3.3</b>	<b>8.7</b>	<b>20.5</b>	<b>23%</b>	<b>17%</b>	<b>15%</b>	<b>5.8%</b>	<b>6.0%</b>	<b>5.7%</b>
Alliance Res Partners	15.47	4.0	4.7	5.1	1.2	1.3	1.4	5.3	9.7	13.2	31%	28%	27%	13.9%	12.8%	12.0%
Arch Coal	76.56	2.6	3.1	3.1	0.5	0.5	0.5	4.8	6.1	5.8	19%	17%	16%	2.3%	2.4%	2.4%
Banpu	12.70	10.3	10.5	10.3	2.0	2.1	2.2	10.6	10.3	9.7	20%	20%	22%	4.3%	4.2%	4.5%
BHP Group	49.15	3.6	3.4	3.8	1.9	1.9	1.9	12.9	11.1	12.6	53%	55%	52%	9.0%	6.8%	5.5%
China Coal Energy	3.11	4.8	4.8	5.1	0.9	0.9	0.9	6.8	7.2	7.0	19%	19%	18%	3.7%	3.4%	3.1%
Cloud Peak Energy	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LW Bogdanka	38.55	1.5	1.5	1.5	0.5	0.5	0.5	5.0	6.0	6.3	35%	33%	32%	1.9%	5.3%	5.8%
Natural Res Partners	26.54	1.6	1.7	1.7	1.2	1.4	1.4	5.3	4.9	4.8	77%	78%	78%	6.8%	6.8%	6.8%
Peabody Energy Corp	18.43	2.5	3.2	3.3	0.5	0.5	0.5	11.8	-	-	19%	16%	16%	12.4%	2.9%	3.0%
PT Bukit Asam Tbk	2470.00	3.8	3.8	3.6	1.1	1.1	1.0	5.6	6.2	6.1	29%	28%	28%	11.6%	11.9%	11.7%
Rio Tinto	4149.50	3.4	3.7	4.2	1.7	1.7	1.8	7.8	8.7	10.5	49%	47%	44%	0.0%	0.0%	0.0%
Semirara Mining&Power	23.20	5.4	4.8	4.6	2.7	2.3	2.2	8.5	7.6	7.7	50%	47%	48%	6.5%	6.8%	7.5%
Shaanxi Heima Coking	3.31	-	-	-	0.7	0.6	0.6	12.7	11.0	10.7	-	-	-	-	-	-
Shanxi Xishan Coal&Ele	5.88	5.3	5.4	5.3	1.0	1.0	1.0	9.3	9.3	9.2	19%	19%	19%	3.2%	3.2%	3.0%
Shougang Fushan Res	1.65	0.8	0.8	0.8	0.4	0.4	0.4	7.0	6.5	7.3	53%	52%	49%	8.6%	8.8%	5.7%
Stanmore Coal	1.40	1.8	2.3	3.1	0.7	0.7	0.7	4.2	5.6	8.1	37%	31%	24%	5.8%	5.4%	4.9%
Teck Resources	17.03	3.2	3.4	3.5	1.3	1.3	1.3	6.3	6.7	7.2	40%	39%	38%	1.7%	2.1%	4.2%
Terracom	0.44	1.8	1.5	1.6	0.5	0.4	0.4	3.4	2.2	2.9	30%	28%	26%	-	6.8%	11.4%
Warrior Met Coal	20.90	2.1	3.0	3.1	0.8	1.0	1.0	3.2	4.8	4.9	41%	33%	33%	16.8%	9.1%	12.1%
Yanzhou Coal Mining	6.79	4.0	4.4	4.3	1.0	1.0	1.1	4.1	4.3	4.7	26%	24%	25%	6.7%	6.4%	6.1%
<b>Median</b>		<b>3.2</b>	<b>3.4</b>	<b>3.5</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>6.0</b>	<b>6.7</b>	<b>7.3</b>	<b>31%</b>	<b>28%</b>	<b>27%</b>	<b>6.1%</b>	<b>6.0%</b>	<b>5.7%</b>

Source: Dom Maklerski mBanku (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	4.56	5.3	5.3	5.1	1.3	1.4	1.4	30.6	25.4	21.6	26%	26%	27%	0.0%	0.0%	8.8%
Orange Polska	6.38	4.9	4.8	4.5	1.4	1.4	1.3	41.2	25.9	18.5	29%	29%	29%	0.0%	0.0%	3.9%
Play	34.36	6.4	6.3	5.9	2.1	2.2	2.1	10.0	9.0	8.9	33%	34%	35%	4.2%	3.8%	4.2%
Median		5.3	5.3	5.1	1.4	1.4	1.4	30.6	25.4	18.5	29%	29%	29%	0%	0.0%	4.2%
<b>Mid Caps</b>																
Proximus	26.89	6.1	6.1	6.1	2.0	2.0	2.0	15.8	15.6	15.8	33%	33%	33%	5.6%	5.8%	5.8%
Telefonica CP	213.00	6.8	6.8	6.9	2.1	2.1	2.0	12.8	13.3	13.3	30%	30%	30%	9.7%	9.8%	9.8%
Hellenic Telekom	12.14	5.0	4.9	4.8	1.8	1.8	1.7	17.5	13.7	12.1	36%	36%	36%	4.8%	5.2%	5.6%
Matav	423.00	4.1	4.1	4.2	1.3	1.3	1.3	9.8	9.0	9.1	31%	31%	30%	6.2%	6.7%	7.3%
Telecom Austria	6.97	5.2	5.1	4.9	1.8	1.7	1.7	11.0	10.4	10.0	34%	34%	35%	3.0%	3.7%	4.1%
Median		5.2	5.1	4.9	1.8	1.8	1.7	12.8	13.3	12.1	33%	33%	33%	5.6%	5.8%	5.8%
<b>Big Caps</b>																
BT	165.64	3.7	3.5	3.4	1.2	1.2	1.2	6.3	6.8	6.6	32%	34%	35%	0.0%	0.0%	0.0%
DT	15.18	5.7	5.4	5.1	1.8	1.7	1.7	15.1	13.6	12.2	32%	33%	33%	4.8%	5.0%	5.4%
KPN	2.88	7.7	7.5	7.1	3.3	3.3	3.3	24.8	21.5	18.3	43%	44%	47%	4.6%	4.8%	5.1%
Orange France	13.80	5.1	5.0	4.9	1.6	1.6	1.5	13.2	12.3	11.4	31%	31%	32%	5.2%	5.4%	5.7%
Swisscom	494.10	7.8	7.8	7.7	2.9	3.0	3.0	17.1	17.4	17.3	38%	38%	38%	4.5%	4.5%	4.5%
Telefonica S.A.	6.30	5.1	5.1	5.0	1.8	1.8	1.7	9.1	8.5	7.9	34%	34%	35%	6.4%	6.5%	6.6%
Telia Company	42.96	8.7	8.5	8.4	3.0	3.0	3.0	17.7	16.6	15.4	35%	35%	36%	5.7%	5.8%	6.0%
TI	0.48	4.5	4.5	4.5	1.9	1.9	1.9	7.8	7.3	7.2	42%	42%	42%	0.0%	0.0%	0.0%
Median		5.4	5.2	5.1	1.9	1.8	1.8	14.1	13.0	11.8	35%	35%	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	11.15	5.1	4.7	4.1	0.5	0.5	0.4	37.0	19.7	12.2	9%	10%	11%	4.5%	4.5%	4.5%
Wirtualna Polska	61.00	10.2	9.0	8.1	3.2	2.9	2.6	19.1	16.3	14.9	31%	32%	32%	1.6%	2.7%	3.2%
Median		7.6	6.8	6.1	1.8	1.7	1.5	28.1	18.0	13.6	20%	21%	21%	3.1%	3.6%	3.8%
<b>Daily Mail</b>																
Amolgo Mondadori	1.40	5.4	4.9	4.9	0.5	0.5	0.5	10.2	9.3	9.3	10%	11%	11%	4.1%	5.1%	3.4%
Axel Springer	63.00	9.1	9.2	8.2	2.1	2.0	1.9	24.1	24.6	21.5	23%	22%	24%	3.4%	3.5%	3.7%
Daily Mail	810.00	9.4	10.0	9.2	1.3	1.3	1.3	21.5	19.6	18.2	13%	13%	14%	0.0%	0.0%	0.0%
Gruppo Editoriale	0.26	4.5	4.3	4.4	0.4	0.4	0.4	-	11.2	8.3	8%	9%	9%	1.9%	3.5%	4.7%
New York Times	29.20	20.0	18.3	14.8	2.5	2.4	2.3	38.5	34.7	26.9	13%	13%	15%	0.7%	0.7%	0.8%
Promotora de Inform	1.27	8.1	6.9	6.4	1.7	1.6	1.6	19.5	13.5	8.6	21%	24%	25%	0.0%	0.0%	-
Median		8.6	8.0	7.3	1.5	1.5	1.4	21.5	16.5	13.8	13%	13%	15%	1.3%	2.1%	3.4%
<b>TV</b>																
Atresmedia Corp	3.35	5.2	5.4	5.6	0.9	0.9	0.9	6.0	6.2	6.4	18%	17%	17%	13.5%	13.0%	12.7%
Gestevisión Telecinco	5.76	7.0	7.6	7.8	1.9	1.9	1.9	9.5	9.6	9.8	27%	25%	24%	7.3%	8.1%	7.7%
ITV PLC	115.95	8.0	7.7	7.4	1.7	1.7	1.7	9.0	8.7	8.3	22%	22%	22%	0.0%	0.0%	0.0%
M6-Metropole Tel	15.62	5.3	5.2	5.0	1.3	1.3	1.3	11.3	10.9	10.4	25%	25%	26%	6.3%	6.4%	6.8%
Mediaset SPA	2.79	4.5	4.5	4.0	1.5	1.5	1.5	13.5	11.4	10.4	33%	33%	37%	4.2%	5.6%	5.8%
ProSieben	11.98	5.6	5.4	5.1	1.3	1.2	1.2	6.1	5.9	5.5	23%	22%	23%	8.5%	8.8%	8.3%
RTL Group	47.98	-	-	-	-	-	-	10.8	10.6	10.3	-	-	-	8.3%	8.3%	8.2%
TF1-TV Francaise	8.27	3.5	3.4	3.3	0.7	0.7	0.7	9.9	9.0	8.0	20%	21%	21%	5.5%	5.9%	6.0%
Median		5.4	5.3	5.1	1.4	1.4	1.4	9.9	9.6	9.8	24%	23%	23%	6.3%	6.4%	6.8%
<b>Pay TV</b>																
Cogeco	104.64	6.0	5.8	5.7	2.8	2.8	2.7	15.2	13.8	14.1	48%	48%	48%	2.0%	2.2%	2.4%
Comcast	44.26	8.8	8.2	7.9	2.8	2.6	2.6	14.6	13.1	12.2	31%	32%	32%	1.9%	2.1%	2.3%
Dish Network	33.56	9.0	9.9	10.7	1.7	1.8	1.8	13.8	18.6	20.7	19%	18%	16%	0.0%	0.0%	0.0%
Liberty Global	26.72	5.0	5.0	4.9	2.1	2.1	2.1	-	-	-	41%	42%	42%	0.0%	0.0%	-
Shaw Communications	19.01	7.7	7.3	7.0	3.1	3.0	2.9	18.9	18.5	17.7	41%	41%	42%	8.4%	8.4%	8.5%
Median		7.7	7.3	7.0	2.8	2.6	2.6	14.9	16.2	15.9	41%	41%	42%	1.9%	2.1%	2.3%

## 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	55.95	4.8	4.5	4.3	0.7	0.7	0.6	15.0	14.6	14.4	15%	15%	15%	5.5%	4.1%	4.1%
Comarch	179.00	6.5	5.9	5.5	1.0	0.9	0.8	15.5	14.0	13.2	15%	15%	15%	0.8%	0.8%	0.8%
Median		5.7	5.2	4.9	0.9	0.8	0.7	15.2	14.3	13.8	15%	15%	15%	3.2%	2.5%	2.4%
<b>Foreign companies</b>																
Atos Origin	68.88	7.4	7.1	6.6	1.0	1.0	1.0	8.2	7.7	7.2	14%	14%	15%	2.3%	2.6%	2.8%
CapGemini	109.15	8.8	8.3	7.8	1.3	1.3	1.2	16.7	15.3	14.1	15%	15%	15%	1.7%	1.9%	2.0%
IBM	135.53	9.5	9.0	8.5	2.2	2.1	2.0	10.5	10.0	9.4	23%	23%	24%	4.8%	5.0%	5.2%
Indra Sistemas	7.16	4.9	4.6	4.4	0.5	0.5	0.5	9.5	8.2	7.4	11%	11%	12%	1.4%	2.4%	2.8%
Microsoft	137.86	18.5	16.1	14.5	7.9	7.1	6.4	30.1	26.2	23.2	43%	44%	44%	1.3%	1.4%	1.5%
Oracle	52.06	10.2	9.6	9.3	4.8	4.6	4.5	15.1	13.4	12.5	47%	48%	48%	1.6%	1.8%	1.8%
SAP	108.18	17.6	14.9	13.3	5.2	4.8	4.5	22.1	19.9	17.7	30%	32%	34%	1.4%	1.6%	1.8%
TietoEnator	22.38	7.8	7.4	7.2	1.2	1.1	1.1	12.4	11.9	11.4	15%	15%	15%	6.7%	6.9%	7.1%
Median		9.1	8.6	8.2	1.7	1.7	1.6	13.7	12.7	11.9	19%	19%	20%	1.6%	2.1%	2.4%

Source: Dom Maklerski mBanku (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
<b>Gaming</b>																
<b>11 bit studios</b>	<b>405.00</b>	<b>19.0</b>	<b>23.5</b>	<b>6.0</b>	<b>11.0</b>	<b>9.8</b>	<b>4.0</b>	<b>27.1</b>	<b>38.7</b>	<b>9.6</b>	<b>58%</b>	<b>42%</b>	<b>66%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
<b>CD Projekt</b>	<b>253.00</b>	-	<b>9.3</b>	<b>9.3</b>	<b>77.3</b>	<b>7.1</b>	<b>7.6</b>	-	<b>12.4</b>	<b>12.7</b>	<b>14%</b>	<b>76%</b>	<b>82%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
PlayWay*	178.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Activision Blizzards	50.60	15.8	13.4	12.3	5.6	5.1	4.7	23.1	20.2	17.5	36%	38%	38%	0.7%	0.8%	0.9%
Capcom	2767.00	14.0	12.7	11.3	3.4	3.7	3.3	22.6	19.1	18.2	24%	29%	29%	1.3%	1.4%	1.5%
Take Two	131.97	18.2	18.8	17.6	4.4	4.7	4.5	27.9	27.9	26.7	24%	25%	26%	-	-	-
Ubisoft	73.36	8.3	8.8	8.3	4.1	3.8	3.6	24.8	25.7	22.7	50%	43%	43%	0.0%	0.0%	0.0%
Electronic Arts	93.68	15.9	13.9	12.2	5.1	4.7	4.4	23.9	20.4	18.4	32%	34%	36%	-	0.0%	0.0%
Paradox Interactive	130.40	17.6	13.4	11.3	9.8	7.9	6.9	42.1	32.5	22.0	55%	59%	61%	1.5%	1.8%	1.4%
<b>Mediana</b>		<b>15.9</b>	<b>13.4</b>	<b>11.3</b>	<b>5.3</b>	<b>4.9</b>	<b>4.5</b>	<b>24.8</b>	<b>23.0</b>	<b>18.3</b>	<b>34%</b>	<b>40%</b>	<b>41%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.0%</b>

Source: Dom Maklerski mBanku (stocks marked with bold), Bloomberg

## Steam Global Top Sellers

2019-09-02	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	98	-	-	35	110.00	-	-	64.17
Frostpunk: SP	11 bit studios	27	-17	-	11	88.00	0%	-	88.00
Children of Morta	11 bit studios	79	-9	-	138	72.00	0%	-	72.00
Blair Witch	Bloober Team	23	+1	+80	45	99.00	0%	-8%	104.14
Cyberpunk 2077	CD Projekt	14	-2	+14	25	199.00	0%	0%	199.00
The Witcher 3: WH	CD Projekt	200+	-	-	162	-	-	-	100.00
The Witcher 3: WH (GOTY)	CD Projekt	75	-6	+4	85	150.00	0%	0%	150.00
Green Hell	Creepy Jar	200+	-	-	130	-	-	-	67.33
Dying Light	Techland	62	-8	-26	52	34.00	0%	0%	34.00

## Steam Wishlist

2019-09-02	Company	Position	D/D change	W/W change	1-week average	Release date
Children of Morta	11 bit studios	27	+1	+1	28	2019-09-03
Blair Witch	Bloober Team	29	+1	-	29	2019-08-30
Cyberpunk 2077	CD Projekt	1	-	-	1	2020-04-16
Bum Simulator	PlayWay	51	-	-2	50	2019
I am Your President	PlayWay	63	+1	-2	63	TBA
Junkyard Simulator	PlayWay	58	+1	-2	57	2019
Ship Builder Simulator	PlayWay	85	+1	-	86	TBA
Tank Mechanic Simulator	PlayWay	73	+1	+1	74	2019
Dying Light 2	Techland	10	-	-	10	Spring 2020

Source: Steam (Valve Corporation), Dom Maklerski 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	97.60	8.3	8.1	7.8	1.4	1.4	1.4	19.0	18.3	17.2	17%	17%	17%	3.8%	4.0%	4.2%
Astaldi	0.64	4.5	4.4	4.4	0.5	0.5	0.5	1.1	1.0	0.8	10%	10%	11%	-	-	-
Budimex	131.00	7.5	7.2	8.1	0.3	0.3	0.4	18.9	16.7	19.3	4%	5%	4%	9.4%	4.7%	5.1%
Ferrovial	25.87	-	40.6	35.4	4.1	4.0	3.9	-	43.5	37.7	3%	10%	11%	2.9%	2.9%	3.0%
Hochtief	99.05	3.7	3.6	3.3	0.2	0.2	0.2	10.5	9.8	9.5	6%	6%	7%	6.1%	6.5%	6.8%
Mota Engil	1.89	4.1	3.7	3.6	0.6	0.6	0.5	14.6	9.5	8.1	15%	15%	15%	2.7%	5.3%	6.3%
NCC	156.65	6.7	5.3	5.1	0.3	0.3	0.3	15.9	10.9	10.4	4%	5%	5%	4.0%	4.8%	5.0%
Skanska	183.90	8.4	8.3	7.8	0.4	0.4	0.4	13.8	13.8	13.0	5%	5%	6%	3.6%	3.8%	4.2%
Strabag	29.70	2.4	2.5	2.4	0.2	0.2	0.2	9.4	9.5	9.2	6%	6%	6%	4.4%	4.5%	4.7%
Median		5.6	5.3	5.1	0.4	0.4	0.4	14.2	10.9	10.4	6%	6%	7%	3.9%	4.6%	4.8%

## 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	36.00	7.2	7.6	6.9	1.6	1.6	1.6	7.7	8.1	7.3	24%	23%	23%	13.1%	11.8%	11.3%
Dom Development	81.00	8.2	7.5	8.4	1.9	1.9	1.9	9.1	8.2	9.0	17%	18%	17%	11.2%	11.0%	12.2%
Echo Investment	4.50	12.7	14.7	12.8	1.1	1.1	1.1	6.7	8.4	10.5	36%	31%	30%	9.9%	9.9%	6.5%
GTC	9.30	15.1	14.4	13.4	1.0	0.9	0.9	10.6	10.3	9.8	84%	81%	80%	0.2%	0.2%	0.3%
LC Corp	2.35	4.3	8.4	7.0	-	-	-	-	-	-	31%	24%	23%	11.5%	13.2%	6.4%
CA Immobilien Anlagen	32.20	26.2	23.0	21.0	1.1	1.0	1.0	25.7	22.5	20.4	78%	69%	67%	3.0%	3.3%	3.5%
Deutsche Euroshop AG	23.50	15.0	15.0	15.0	0.6	0.7	0.7	10.5	11.2	11.6	88%	88%	89%	6.6%	6.7%	6.8%
Immofinanz AG	25.45	30.5	27.5	27.0	0.9	0.9	0.9	16.7	17.8	16.0	46%	54%	53%	3.5%	3.7%	3.9%
Klepierre	27.76	18.9	18.4	18.1	0.7	0.8	0.8	10.4	10.0	9.8	84%	85%	85%	7.9%	8.1%	8.3%
Segro	785.00	35.0	31.4	28.7	1.1	1.0	1.0	31.9	29.4	28.4	77%	81%	83%	0.0%	0.0%	0.0%
Median		15.0	14.9	14.2	1.1	1.0	1.0	10.5	10.3	10.5	61%	61%	60%	7.2%	7.4%	6.4%

Source: Dom Maklerski mBanku (stocks marked with bold), Bloomberg



## Clothing and footwear company valuations

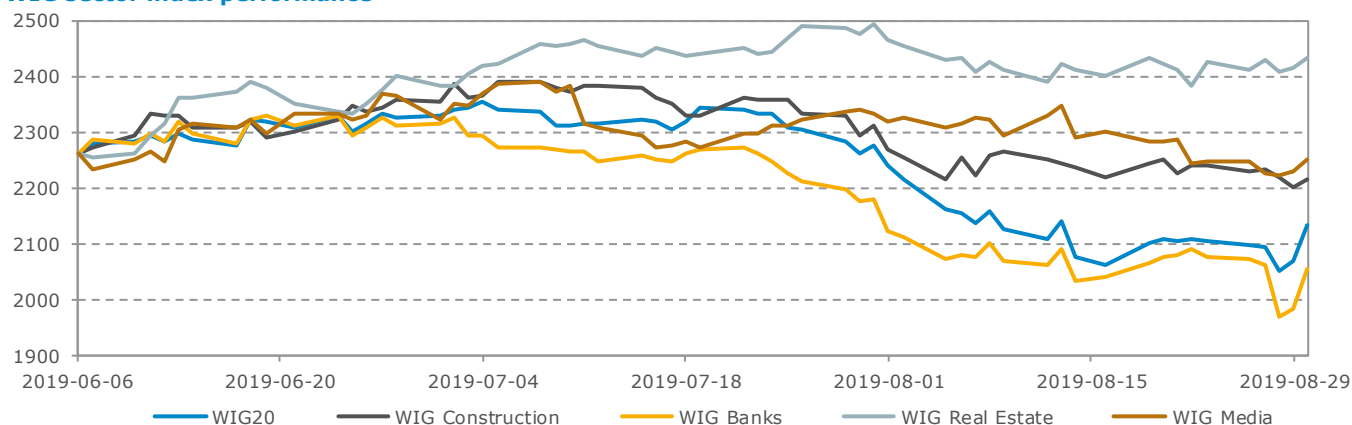
	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
<b>Polish companies</b>																
CCC	123.30	6.5	5.1	4.9	1.0	0.9	0.8	46.0	19.0	16.8	16%	18%	16%	0.4%	1.6%	1.6%
LPP	7430.00	10.3	9.2	8.0	1.4	1.3	1.1	20.3	18.4	16.8	14%	14%	14%	0.8%	1.1%	0.8%
Monnari	4.59	4.2	3.4	2.2	0.3	0.2	0.2	9.1	9.0	7.7	7%	7%	7%	0.0%	0.0%	0.0%
VRG	4.32	8.6	7.3	6.4	1.0	0.9	0.8	13.7	11.9	10.8	12%	12%	12%	0.0%	0.0%	0.0%
Median		7.5	6.2	5.7	1.0	0.9	0.8	17.0	15.1	13.8	13%	13%	13%	0.2%	0.5%	0.4%
<b>Foreign companies</b>																
ABC Mart	6790.00	9.0	8.7	8.3	1.6	1.6	1.5	18.4	17.9	17.1	18%	18%	18%	2.3%	2.5%	2.5%
Adidas	269.70	15.3	14.0	12.6	2.3	2.1	2.0	27.5	24.4	21.2	15%	15%	16%	1.4%	1.6%	1.9%
Assoc Brit Foods	2271.00	8.6	7.9	7.4	1.1	1.0	1.0	16.7	14.9	13.9	13%	13%	13%	0.0%	0.0%	0.0%
Caleries	20.15	4.6	4.4	4.2	0.3	0.3	0.3	8.8	8.4	7.3	7%	7%	7%	1.4%	1.4%	1.4%
Crocs	22.30	10.1	8.8	7.8	1.3	1.2	1.2	16.2	14.1	12.5	13%	14%	15%	-	-	-
Foot Locker	36.19	3.7	3.6	3.6	0.4	0.4	0.4	7.9	7.3	7.0	11%	11%	11%	3.8%	4.2%	4.7%
Geox	1.23	7.4	5.4	3.3	0.4	0.4	0.4	-	28.0	14.0	5%	7%	11%	1.9%	3.1%	5.6%
H&M	187.98	10.5	9.9	9.3	1.2	1.2	1.2	24.3	22.6	21.4	12%	12%	12%	5.0%	4.8%	4.8%
Hugo Boss	50.68	6.3	5.9	5.5	1.2	1.2	1.1	13.7	12.4	11.4	19%	20%	20%	5.7%	6.2%	6.8%
Inditex	28.12	14.5	10.8	10.2	3.1	2.9	2.7	25.2	23.2	21.6	21%	26%	26%	2.8%	3.8%	4.1%
KappAhl	19.87	6.9	5.7	5.7	0.4	0.4	0.4	11.4	10.8	10.7	6%	7%	7%	4.4%	5.2%	5.0%
Lululemon	184.67	26.3	22.4	19.3	6.6	5.7	5.0	49.3	39.8	33.4	25%	26%	26%	0.0%	0.0%	0.0%
Nike	84.50	18.7	16.9	14.8	2.7	2.5	2.3	32.8	29.1	24.9	15%	15%	16%	1.0%	1.1%	1.2%
Under Armour	18.61	8.7	7.1	5.7	0.7	0.6	0.6	54.9	38.8	27.8	8%	9%	11%	0.0%	0.0%	0.0%
Median		8.8	8.3	7.6	1.2	1.2	1.1	18.4	20.2	15.6	13%	13%	14%	1.9%	2.5%	2.5%

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

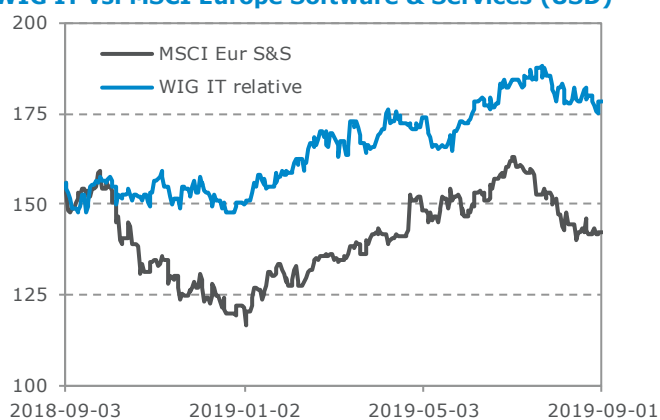
	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
<b>Luxury goods</b>																
Estee Lauder	197.99	14.3	12.8	11.6	3.0	2.8	2.6	37.8	33.1	29.8	21%	22%	22%	0.8%	0.9%	1.0%
Hermes International	621.00	24.2	22.2	20.3	9.1	8.4	7.8	43.2	39.3	35.5	38%	38%	38%	0.9%	1.1%	1.1%
Kering	440.40	10.5	9.6	8.9	3.6	3.3	3.1	17.6	15.4	14.0	35%	35%	35%	2.6%	3.0%	3.3%
LVMH	362.40	13.6	12.6	11.7	3.6	3.4	3.1	25.2	22.8	20.9	26%	27%	27%	1.9%	2.1%	2.3%
Moncler	34.09	13.8	12.4	11.1	5.0	4.4	4.0	23.1	21.4	19.2	36%	36%	36%	1.3%	1.5%	1.8%
Median		13.8	12.6	11.6	3.6	3.4	3.1	25.2	22.8	20.9	35%	35%	35%	1.3%	1.5%	1.8%
<b>E-commerce</b>																
Asos	2380.00	18.0	12.5	9.8	0.8	0.7	0.6	-	39.0	26.9	4%	5%	6%	0.0%	0.0%	0.0%
boohoo.com	241.40	32.8	24.2	19.6	3.2	2.4	1.9	60.4	49.3	38.3	10%	10%	10%	0.0%	0.0%	0.0%
Zalando	45.01	31.3	25.1	19.2	1.6	1.4	1.2	-	-	65.8	5%	6%	6%	0.0%	0.0%	0.0%
Median		31.3	24.2	19.2	1.6	1.4	1.2	60.4	44.1	38.3	5%	6%	6%	0.0%	0.0%	0.0%
<b>Retail</b>																
Dino	153.80	21.4	16.1	12.5	2.0	1.6	1.2	37.0	26.9	20.7	10%	10%	10%	0.0%	0.0%	0.0%
Eurocash	20.54	8.5	7.6	6.4	0.1	0.1	0.1	39.7	28.1	19.8	2%	2%	2%	4.9%	1.3%	1.8%
Jeronimo Martins	15.01	9.3	8.5	8.0	0.5	0.5	0.5	21.3	19.1	18.2	6%	6%	6%	1.8%	1.9%	2.0%
Carrefour	15.50	5.0	4.6	4.4	0.2	0.2	0.2	13.4	11.6	10.8	5%	5%	5%	3.3%	3.7%	3.9%
AXFood	205.80	10.5	10.3	10.1	0.9	0.9	0.9	26.6	25.9	25.6	9%	9%	9%	3.4%	3.4%	3.3%
Tesco	219.20	7.0	5.5	5.3	0.4	0.4	0.4	15.4	13.0	12.0	5%	7%	7%	0.0%	0.0%	0.0%
Ahold	21.29	6.0	5.8	5.7	0.5	0.5	0.5	13.2	12.3	11.8	8%	8%	8%	3.5%	3.8%	4.0%
X 5 Retail	2298.50	6.5	5.8	5.3	0.5	0.4	0.4	15.6	14.1	12.7	8%	8%	8%	4.1%	5.1%	6.3%
Magnit	3690.00	5.4	4.8	4.5	0.4	0.4	0.4	12.9	10.1	8.7	8%	8%	8%	6.0%	6.4%	7.1%
Sonae	0.83	9.4	8.9	6.8	0.8	0.7	0.7	11.3	9.7	7.9	8%	8%	10%	5.3%	5.8%	5.9%
Median		7.8	6.7	6.1	0.5	0.5	0.4	15.5	13.6	12.3	8%	8%	8%	3.5%	3.6%	3.6%

Source: Dom Maklerski mBanku (stocks marked with bold), Bloomberg

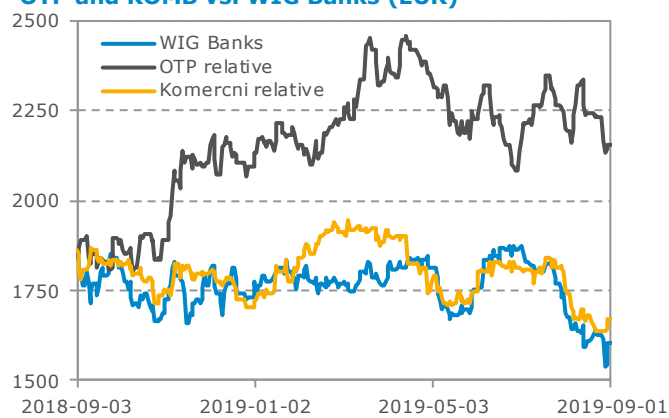
## WIG sector index performance



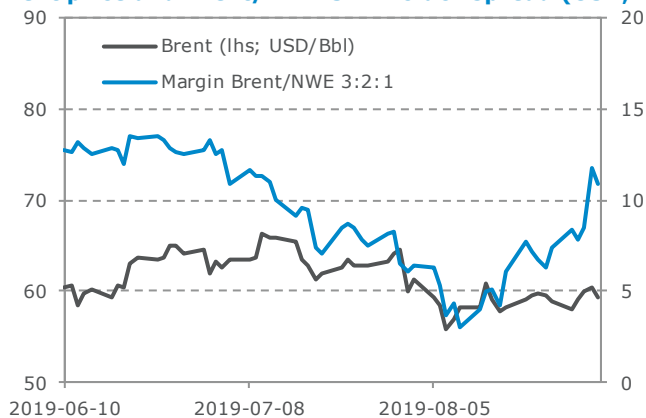
## WIG IT vs. MSCI Europe Software &amp; Services (USD)



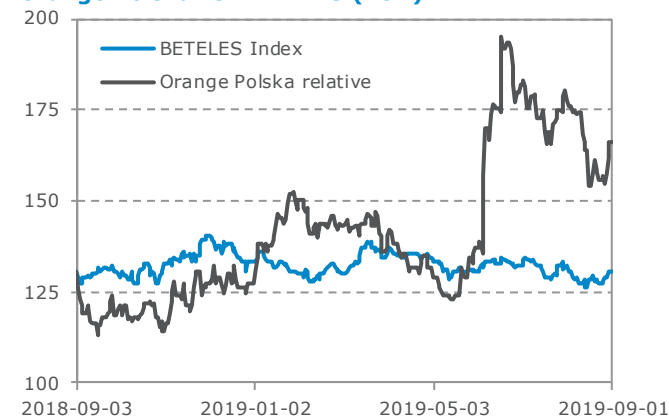
## OTP and KOMB vs. WIG Banks (EUR)



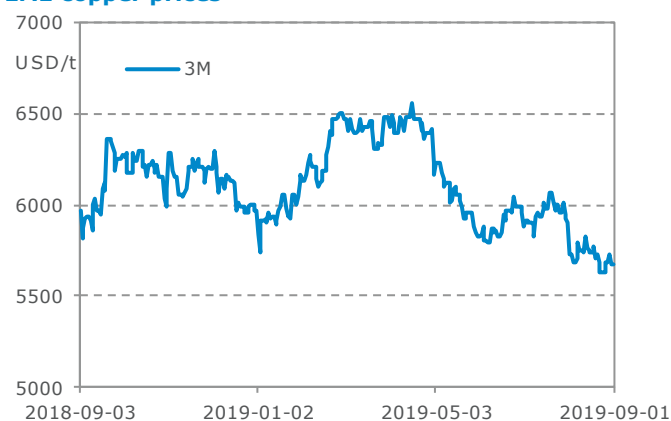
## Brent price and Brent/NWE 3:2:1 crack spread (USD, rhs)



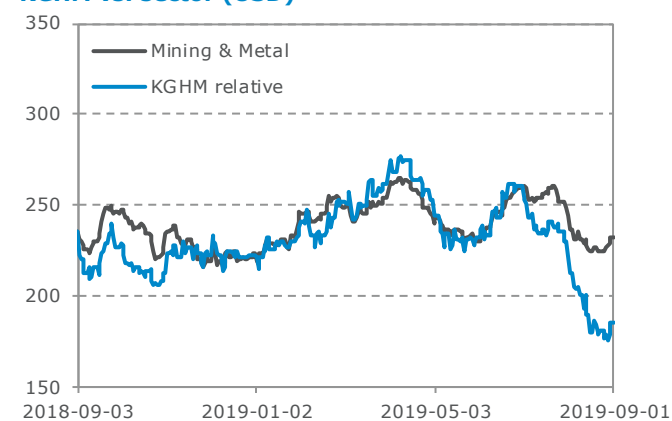
## Orange Polska vs. BETELES (EUR)



## LME copper prices



## KGHM vs. sector (USD)

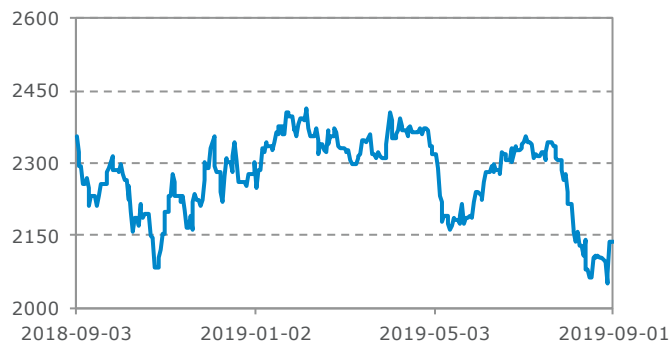


Source: Bloomberg

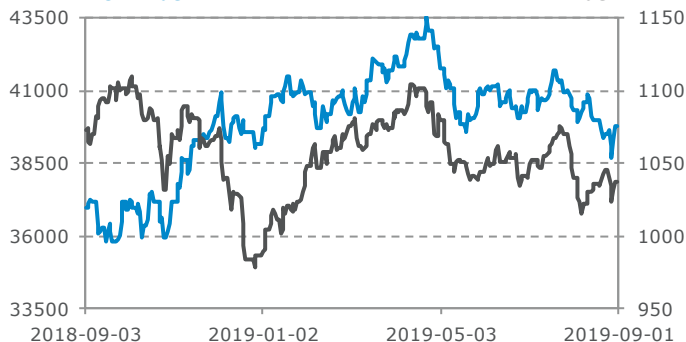
## Global Market Overview

Index	Date	Open	Maximum	Minimum	Close	Change
DJIA	2019-08-30	26,476.39	26,514.62	26,295.59	26,403.28	+0.16%
S&P 500	2019-08-30	2,937.09	2,940.43	2,913.32	2,926.46	+0.06%
NASDAQ	2019-08-30	8,015.16	8,017.91	7,914.74	7,962.88	-0.13%
DAX	2019-08-30	11,850.30	11,989.44	11,845.16	11,939.28	+0.85%
CAC 40	2019-08-30	5,451.60	5,504.01	5,446.58	5,480.48	+0.56%
FTSE 100	2019-08-30	7,184.32	7,240.37	7,179.70	7,207.18	+0.32%
WIG20	2019-08-30	2,072.65	2,136.79	2,069.86	2,135.25	+3.19%
BUX	2019-08-30	39,314.86	39,854.17	39,288.34	39,794.12	+1.35%
PX	2019-08-30	1,032.93	1,037.94	1,029.79	1,037.27	+0.61%
RTS	2019-08-30	1,888.11	1,910.17	1,888.11	1,904.70	+1.04%
SOFIX	2019-08-30	570.53	571.23	567.45	567.45	-0.54%
BET	2019-08-30	9,241.52	9,253.87	9,212.93	9,235.72	-0.06%
XU100	2019-08-29	96,129.69	97,256.74	95,782.29	96,718.48	+0.84%
BETELES	2019-08-30	130.54	131.01	130.45	130.80	+0.22%
NIKKEI	2019-08-30	20,641.49	20,748.35	20,633.30	20,704.37	+1.19%
SHCOMP	2019-08-30	2,907.38	2,914.58	2,874.10	2,886.24	-0.16%
Copper (LME)	2019-08-30	5,720.50	5,726.00	5,651.50	5,676.00	-0.88%
Crude Oil (Brent)	2019-08-30	60.52	60.72	58.60	59.20	-2.20%
USD/PLN	2019-08-30	3.9683	3.9976	3.9635	3.9852	+0.43%
EUR/PLN	2019-08-30	4.3884	4.3911	4.3721	4.3786	-0.22%
EUR/USD	2019-08-30	1.1057	1.1060	1.0963	1.0982	-0.68%
USBonds10	2019-08-30	1.4928	1.5417	1.4910	1.4961	+0.0016
GRBonds10	2019-08-30	-0.6970	-0.6790	-0.7170	-0.7000	-0.0080
PLBonds10	2019-08-30	1.8450	1.9030	1.8310	1.8380	+0.0030

WIG20 Index



BUX Index



PX Index



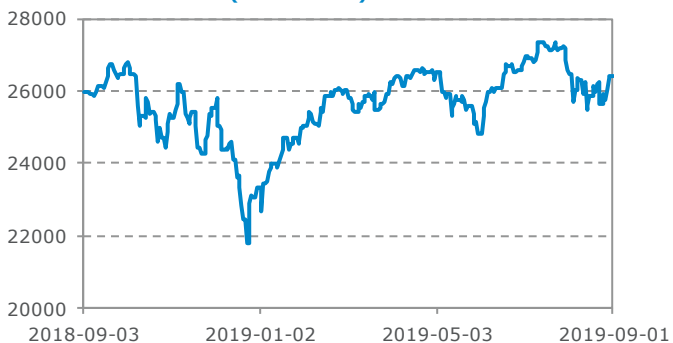
S&P 500 (SPX Index)



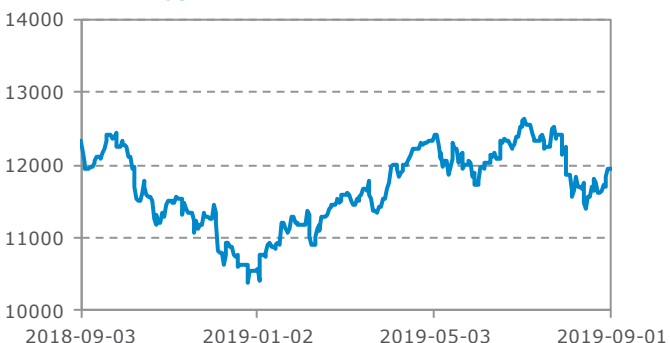
NASDAQ (CCMP Index)



DOW JONES (INDU Index)



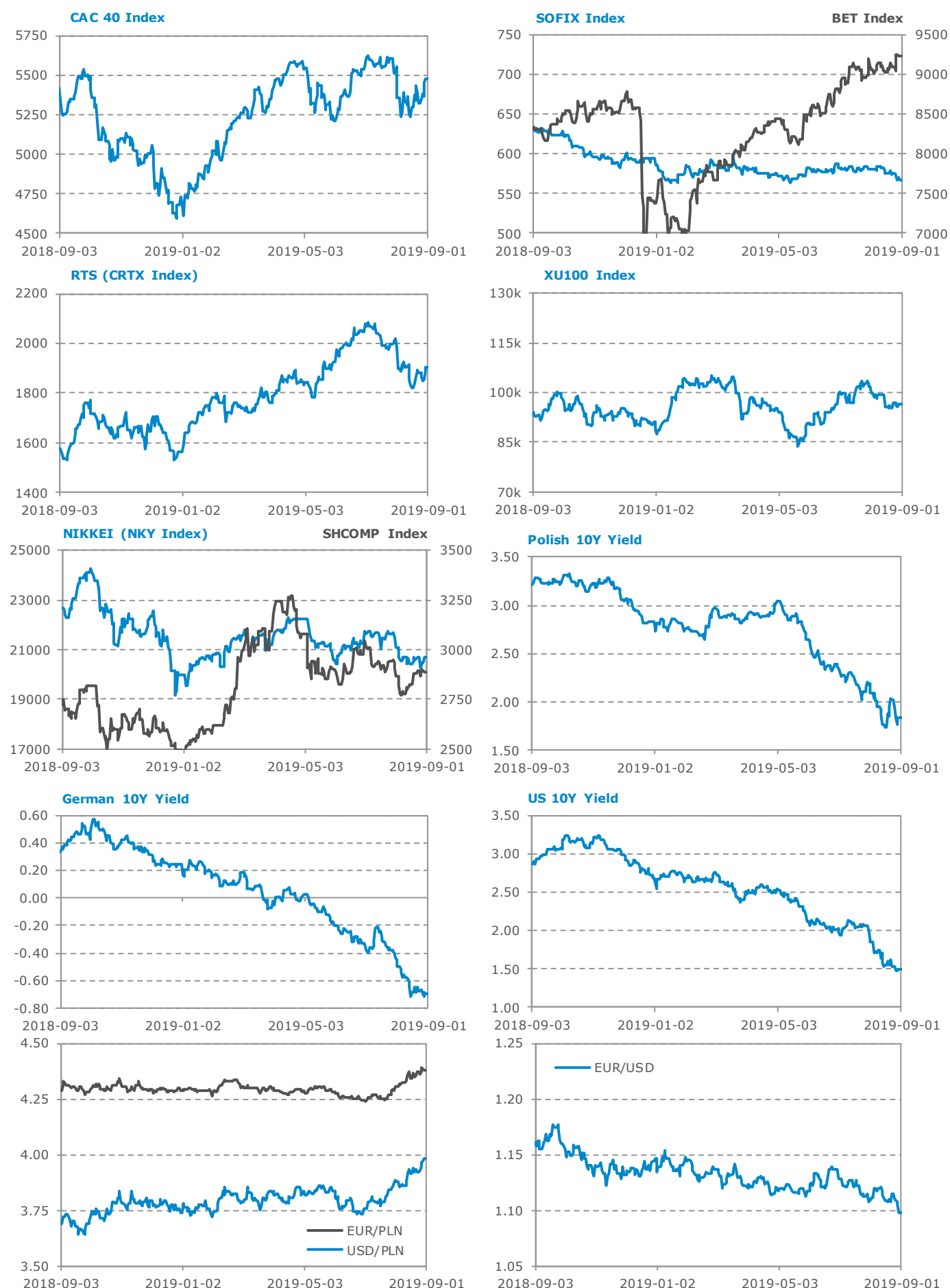
DAX Index



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

## Recommendations of Dom Maklerski 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 bear a loss greater than 15%  
Recommendations are updated at least once every nine months.

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Assec 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.

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