

Monday, September 17, 2018 | daily publication

## Morning Comments

### Equity Market, Poland

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DJIA	26,154.7	+0.03%	FTSE 100	7,304.0	+0.31%	Copper (LME)	5,973.0	-0.99%
S&P 500	2,905.0	+0.03%	WIG20	2,232.1	-0.06%	Crude Oil (Brent)	78.16	-0.36%
NASDAQ	8,010.0	-0.05%	BUX	36,269.2	+0.31%	USD/PLN	3.7044	+0.64%
DAX	12,124.3	+0.57%	PX	1,095.5	+0.25%	EUR/PLN	4.3062	+0.07%
CAC 40	5,352.6	+0.46%	PLBonds10	3.232	+0.005	EUR/USD	1.1625	-0.56%

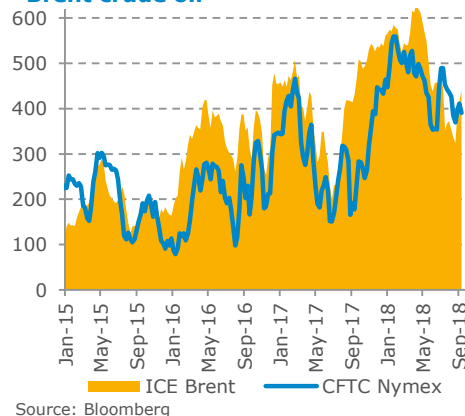
### Company & Sector News

#### Oil&Gas

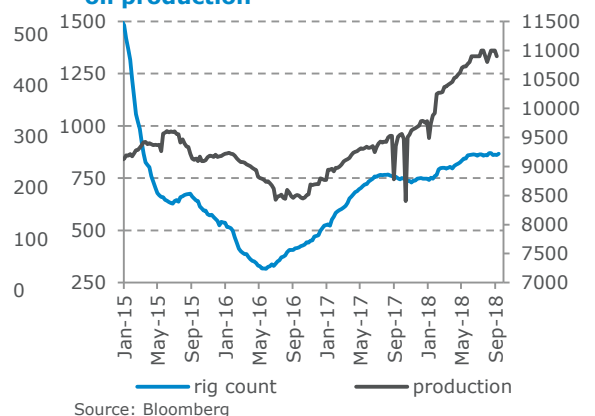
##### Bullish bets on Brent rise 3 weeks in a row

According to the weekly report by the US Commodity Futures Trading Commission, net speculative long positions in WTI crude last week decreased by 18,600 to 346,000 (with the 12-month average at 375,000) after rising for two consecutive weeks. At the same time, ICE speculative positions in Brent were up the third week in a row, by 23,000 to 440,000 contracts (vs. a 12-month average of 505,000). At the same time, the Baker Hughes rig count rose by 7 after decreasing by 2 the week before. **In our opinion positive sentiment on crude should sustain as supply concerns stay in place (Iran sanctions, revisions on US crude productions, slower pace of OPEC members' production increase).** (K. Kliszcz)

Speculative net positions in WTI and Brent crude oil



US active oil rig count vs daily crude oil production



#### Copper

##### Trade war pressures copper again

Base metals prices fell sharply in early Asian trade on Monday on reports that U.S. tariffs on \$200 billion of Chinese goods could be imposed immediately. The tit-for-tat trade row between the world's top two economies has left investors fearing that demand for industrial metals will soften. On Friday copper contracts fell 1% to \$5,971/ton, and this morning copper opened 1.7% lower at \$5,872.5/t. **For more, visit Reuters at <https://tinyurl.com/vcpyhr7z>** (J. Szkopek)

##### Chile considers additional royalty

Chile's congress is studying a proposal for an additional royalty payment for copper and lithium miners operating in the country to bolster the development of the regions around their deposits, according to a draft seen by Reuters. (J. Szkopek)

#### Steel

##### China housing market helps steel

Shanghai rebar steel futures jumped more than 1 percent on Monday after weekend data showed that China's home prices accelerated in August at the quickest pace in almost two years, boding well for steel demand in the world's top consumer. Average new home prices in China's 70 major cities rose 1.4 percent in August from a month earlier, according to Reuters calculations from an official survey published on Saturday. Signs of more and stricter production curbs in China this winter also helped buoy steel prices, but investors are also keeping a close eye on new tariffs that the United States could announce on about \$200 billion of Chinese imports as early as Monday. **For more information, visit Reuters <https://tinyurl.com/ybetwvtp>** (J. Szkopek)

## Erbud

Buy – 2018-09-03  
Target price: PLN 14.40

## Erbud inks PLN 42m contract

Erbud signed a PLN 42m contract for modernization and extension of a swimming pool in Toruń. The deadline is in July 2020. **Neutral news. The contract amounts to about 2% of Erud's annual revenue. (P. Zybala)**

## Budimex

Hold – 2018-08-02  
Target price: PLN 125.00

## Budimex inks PLN 479m contract

Budimex signed a PLN 479m contract with state railway infrastructure operator PKP PLK to refurbish a section of the Poznan-Szczecin railway line (Rokietnica-Wronki). The deadline is 32 months from signing a contract. **Neutral; Budimex announced having won the bid back in July. (P. Zybala)**

## A contract for PLN 233m

A consortium of Budimex and Strabag signed a PLN 466m contract to build the Kamiensk-Radomsko section of the A1 motorway. Budimex has a 50% stake in the consortium. The deadline is 32 months from signing the contract. **Expected news. The consortium launched the bid in December last year, and its offer was selected in June. (P. Zybala)**

## More News

### BGŻ BNP Paribas

Polish Financial Watchdog Clears BNP BGZ Paribas takeover of Raiffeisen Polbank Unit. The deadline for the transaction has been set at the end of 1Q'19.

### Cargill, Konspol

Global food and agriculture giant Cargill will buy Polish poultry producer and processor Konspol, Cargill said in a press statement on its website.

### GetBack

Poland has so far secured nearly PLN 80 mln in assets belonging to suspects in the case of defunct debt collector GetBack, sources state prosecutor's office told PAP.

### Helio

Dried fruit producer Helio expects to suffer a loss in Q4 of fiscal year 2017/18 ended on June 30 due to a PLN 1.3 mln impairment charge related to overdue liabilities from supermarket chain Piotr i Pawel, Helio said in a market filing.

### Kruk

Listed debt collector Kruk inked an agreement with an Italian Florence-based bank to acquire unsecured consumer loan debt of a total nominal value of approx. EUR 300 mln, Kruk said in a market filing. The company informed of winning a tender to buy that portfolio in a filing dated September 3.

Insider deal: debt collector Kruk CEO Piotr Krupa sold 5,511 shares at an average price of PLN 183.33 per share on the stock exchange on September 12, the company said in a market filing.

### Mabion

Biotech firm Mabion enjoys a stable financial situation and plans no new share issue soon, CEO Artur Chabowski said as quoted in a press statement.

### PKN Orlen

FX Energy, subsidiary of fuel concern PKN Orlen's upstream unit, seeks to tap into natural gas deposits in Tuchola and Bajerze as it put up a request for bids to provide a feasibility study of building power or power&heat installation on these deposits, according to the tender documentation.

### RBI

Polish Financial Watchdog expects that following the merger with BGZ BNP, RBI will service its FX mortgage customers via BNP BGZ branches and will not worsen conditions for mortgage borrowers. Finally, KNF wants RBI to continue administration of mutual funds and awaits ti timeline for liquidation of such funds.

### Ronson

Real estate developer Ronson will pay a PLN 0.06 DPS from retained earnings translating into a PLN 9.8 mln dividend payout, in line with the management recommendation, resolutions adopted at an extraordinary shareholders meeting show.

### Żabka

Żabka Polska, the owner of a major convenience chain Zabka, plans launching 700 new stores in 2018 vs. 500 in 2017, CEO Tomasz Suchanski told a conference.

## Corporate Action Calendar

Date	Time	Company	Event
17-Sep		<b>Elektrobudowa</b>	Q2'18 earnings announcement
17-Sep		<b>Kruszwica</b>	Q2'18 earnings announcement
18-Sep	9-16:00	<b>Immobile</b>	Investor meetings (Zebra Tower, Warsaw) - registration required
18-Sep		<b>TIM</b>	Q2'18 earnings announcement
18-Sep	10:30	<b>Wielton</b>	Q2'18 earnings conference (Marriott Hotel, Warsaw)
18-Sep		<b>Wojas</b>	Q2'18 earnings announcement
19-Sep		<b>Atende</b>	Q2'18 earnings announcement
19-Sep		<b>Commerzbank</b>	Meeting with Commerzbank analyst (mBank, Senatorska 18, Warsaw) - registration required
19-Sep		<b>JWC</b>	Q2'18 earnings announcement
19-Sep	11:00	<b>TIM</b>	Q2'18 earnings conference (Sheraton Hotel, Warsaw)
20-Sep	10:00	<b>SecoWarwick</b>	Investor meetings (CC Group, ul. Marszałkowska 8, Warsaw) - registration required
20-Sep		<b>TXM</b>	Q2'18 earnings announcement
<b>20-Sep</b>			<b>mBank's Retail Event (Regent Warsaw Hotel) - registration required</b>
21-Sep		<b>Gino Rossi</b>	Q2'18 earnings announcement
24-Sep	11:00	<b>Selena FM</b>	Q2'18 earnings videoconference (contact: magdalena.okrzeja@genesispr.pl)
25-Sep		<b>BBI Dev.</b>	Q2'18 earnings announcement
25-Sep		<b>Esotiq</b>	Last day to trade cum dividend (DPS PLN 1.00/share)
26-Sep	09:00	<b>Famur</b>	Q2'18 earnings conference (GPW, ul. Książęca 4, Warsaw)
26-Sep		<b>Famur</b>	Q2'18 earnings announcement
26-Sep		<b>Polwax</b>	Q2'18 earnings announcement
26-Sep		<b>Vistula</b>	Q2'18 earnings announcement
27-Sep		<b>Getin Noble</b>	Q2'18 earnings announcement
28-Sep		<b>Ailleron</b>	Q2'18 earnings announcement
28-Sep		<b>Elemental</b>	Q2'18 earnings announcement
28-Sep		<b>Herkules</b>	Q2'18 earnings announcement
28-Sep		<b>Polnord</b>	Q2'18 earnings announcement
28-Sep		<b>Tarczyński</b>	Q2'18 earnings announcement
30-Sep		<b>Pfleiderer Group</b>	Q2'18 earnings announcement

## Economic Calendar

### Monday, 17 September 2018

Time	Region	Data	Period	Forecast	Previous
11:00	EU	Core CPI	August		1.10% y/y
11:00	EU	CPI	August	-0.30% m/m; 2.10% y/y	
14:30	USA	Empire State Manufacturing Index	September		25.60

### Tuesday, 18 September 2018

Time	Region	Data	Period	Forecast	Previous
10:00	EU	Current Account Balance	July		28.50bn
10:00	Poland	Wages	August	-0.50% m/m; 7.20% y/y	
10:00	Poland	Wages	August		7.20% y/y
11:00	Germany	ZEW Current Situation	September		72.60
11:00	EU	ZEW Current Situation	September		30.00
11:00	Germany	ZEW Economic Sentiment	September		-13.70
11:00	EU	ZEW Economic Sentiment	September		-11.10
	Japan	Interest Rate			-0.10%

### Wednesday, 19 September 2018

Time	Region	Data	Period	Forecast	Previous
10:00	Poland	Industrial Production	August	-5.40% m/m; 10.30% y/y	
10:00	Poland	Manufacturing Production	August	-6.00% m/m; 10.20% y/y	
10:00	Poland	PPI	August	0.10% m/m; 3.40% y/y	
10:30	UK	Core CPI	August		1.90% y/y
10:30	UK	CPI	August	0.00% m/m; 2.50% y/y	
11:00	EU	Construction Orders	July	0.20% m/m; 2.60% y/y	
14:30	USA	Current Account Balance	Q2		-124.10bn
14:30	USA	Building Permits	August		1,311,000
14:30	USA	Housing Starts	August		1,168,000

### Thursday, 20 September 2018

Time	Region	Data	Period	Forecast	Previous
08:00	Germany	PPI	August	0.20% M/M; 3.00% y/y	
10:30	UK	Retail Sales	August	0.70% m/m; 3.50% y/y	
10:30	UK	Retail Sales Less Autos	August		0.90% m/m
10:30	UK	Retail Sales Less Autos	August		3.70% y/y
12:00	UK	CBI Industrial Trends	September		7
14:30	USA	Philadelphia Fed Index	September		11.90
16:00	EU	Consumer Confidence Index (P)	September		-1.90
16:00	USA	Existing Home Sales	August		5.34m
16:00	USA	Leading Indicators Index	August		0.60%

### Friday, 15 September 2018

Time	Region	Data	Period	Forecast	Previous
01:30	Japan	Core CPI	August	0.10% m/m; 0.30% y/y	
01:30	Japan	CPI	August		0.90% y/y
06:30	Japan	Industry Activity Index	July		-0.80% m/m
09:00	France	PMI Manufacturing (P)	September		53.50
09:00	France	PMI Services (P)	September		55.40
09:30	Germany	PMI Manufacturing (P)	September		55.90
09:30	Germany	PMI Services (P)	September		55.00
10:00	EU	PMI Manufacturing (P)	September		54.60
10:00	EU	PMI Services (P)	September		54.40
10:00	Poland	Retail Sales	August		7.10% y/y

## Current Recommendations by Dom Maklerski mBanku

Company	Recommendation	Issued On	Price At Reco.	Target Price	Current Price	Upside/Downside	P/E		EV/EBITDA	
							2018	2019	2018	2019
<b>Financial Sector</b>						<b>+21.1%</b>	<b>12.3</b>	<b>10.2</b>		
Alior Bank	buy	2018-02-01	85.50	109.00	64.55	+68.9%	8.8	7.4		
Getin Noble Bank	hold	2018-05-09	1.17	1.40	0.64	+118.8%	12.9	4.8		
Handlowy	buy	2018-04-06	77.50	94.00	69.00	+36.2%	14.3	11.7		
ING BSK	accumulate	2018-08-02	190.00	212.00	180.40	+17.5%	14.9	13.2		
Millennium	sell	2018-08-02	9.12	7.00	8.47	-17.4%	14.2	12.9		
Pekao	buy	2018-02-01	135.90	157.00	107.50	+46.0%	12.9	10.6		
PKO BP	hold	2018-04-06	39.74	38.00	40.50	-6.2%	15.3	12.7		
Santander Bank Polska	accumulate	2018-09-03	376.00	430.00	371.80	+15.7%	14.6	12.0		
Komercni Banka	buy	2017-12-01	899.00	1,111 CZK	917.00	+21.2%	11.7	10.0		
Erste Bank	buy	2018-08-02	37.14	43.00 EUR	36.65	+17.3%	10.5	10.5		
OTP Bank	buy	2018-06-06	10,210	12,090 HUF	10,100	+19.7%	10.2	9.4		
PZU	accumulate	2018-08-02	42.00	47.50	38.94	+22.0%	10.9	9.8		
Kruk	buy	2018-02-02	222.20	300.94	187.80	+60.2%	10.0	8.5		
Prime Car Management	suspended	2018-08-23	7.96	-	7.66	-	-	-		
Skarbiec Holding	buy	2018-08-31	25.30	36.86	25.90	+42.3%	8.1	7.7		
<b>Chemicals</b>						<b>+49.6%</b>	<b>11.2</b>	<b>10.2</b>	<b>5.2</b>	<b>5.0</b>
Ciech	buy	2018-08-02	56.95	82.52	46.90	+75.9%	7.3	6.9	5.0	4.7
Grupa Azoty	hold	2018-09-03	38.00	41.13	33.86	+21.5%	15.0	13.5	5.4	5.4
Polwax	suspended	2018-09-14	7.70	-	6.86	-	-	-	-	-
<b>Oil &amp; Gas</b>						<b>+7.2%</b>	<b>8.7</b>	<b>12.4</b>	<b>4.8</b>	<b>5.6</b>
Lotos	sell	2018-09-03	69.90	57.21	74.70	-23.4%	10.4	14.8	5.6	7.0
MOL	buy	2018-09-03	2,870	3,296 HUF	2,890	+14.0%	8.2	10.2	3.7	4.2
PGNiG	buy	2018-09-03	5.82	7.86	6.10	+28.9%	8.5	7.1	4.0	3.3
PKN Orlen	sell	2018-09-03	98.24	81.38	99.42	-18.1%	8.9	14.7	5.6	7.8
<b>Power Utilities</b>						<b>+20.9%</b>	<b>3.8</b>	<b>3.9</b>	<b>3.7</b>	<b>3.2</b>
CEZ	sell	2018-07-04	550.00	440.96 CZK	574.50	-23.2%	21.7	20.2	8.6	8.5
Enea	buy	2018-05-29	9.57	12.62	7.83	+61.2%	3.8	2.9	3.7	3.2
Energa	buy	2018-09-03	8.40	15.27	7.51	+103.3%	3.8	3.9	3.2	3.1
PGE	buy	2018-05-29	9.28	13.60	8.87	+53.3%	5.4	5.3	3.4	3.2
Tauron	buy	2018-09-03	2.00	2.77	1.71	+62.0%	3.2	2.7	3.7	4.1
<b>Telecoms, Media, IT</b>						<b>+12.9%</b>	<b>20.5</b>	<b>17.2</b>	<b>6.9</b>	<b>6.1</b>
Netia	reduce	2018-06-06	5.00	4.30	4.57	-5.9%	41.6	50.2	5.4	5.8
Orange Polska	buy	2018-04-06	5.83	7.60	4.39	+73.1%	19.2	10.6	4.1	3.7
Play	hold	2018-08-30	21.90	22.60	20.32	+11.2%	6.5	7.3	5.5	5.4
Agora	buy	2018-09-14	8.48	15.40	9.16	+68.1%	46.0	57.4	3.5	3.9
Cyfrowy Polsat	accumulate	2018-06-15	22.76	24.90	22.40	+11.2%	13.1	11.1	6.9	6.1
Wirtualna Polska	accumulate	2018-09-03	57.00	60.00	52.40	+14.5%	20.5	17.6	11.2	9.4
Asseco Poland	accumulate	2018-09-03	45.90	49.00	45.50	+7.7%	13.4	14.7	8.1	7.8
CD Projekt	sell	2018-04-06	114.90	90.80	182.00	-50.1%	87.6	26.3	69.5	20.4
Comarch	accumulate	2018-05-09	145.00	166.50	162.50	+2.5%	23.4	17.2	9.2	8.0
<b>Industrials, Mining</b>						<b>+28.7%</b>	<b>14.2</b>	<b>6.1</b>	<b>6.3</b>	<b>4.5</b>
Famur	buy	2018-08-02	5.20	6.56	5.02	+30.7%	15.8	12.5	6.9	6.1
Grupa Kęty	hold	2018-09-03	387.50	367.45	386.00	-4.8%	14.0	13.3	9.5	8.9
JSW	buy	2018-09-03	77.00	98.00	68.14	+43.8%	4.1	5.4	2.1	2.3
Kemel	buy	2018-07-23	50.50	59.18	47.15	+25.5%	14.4	6.6	6.5	5.0
KGHM	buy	2018-09-03	90.80	104.21	84.84	+22.8%	7.2	5.6	4.3	3.2
Stelmet	buy	2018-09-03	11.35	20.45	8.20	+149.4%	15.6	5.4	6.1	4.1
<b>Construction</b>						<b>+40.3%</b>	<b>6.8</b>	<b>8.4</b>	<b>3.1</b>	<b>3.4</b>
Budimex	hold	2018-08-02	122.60	125.00	100.20	+24.8%	10.4	11.7	3.1	4.0
Elektrobudowa	hold	2018-06-06	69.00	71.00	33.70	+110.7%	6.8	6.6	1.6	1.6
Erbud	buy	2018-09-03	9.60	14.40	9.34	+54.2%	-	10.2	-	4.4
Unibep	buy	2018-04-06	7.50	10.10	4.89	+106.5%	5.6	4.8	3.7	2.8
<b>Property Developers</b>						<b>+31.0%</b>	<b>6.7</b>	<b>7.0</b>	<b>7.3</b>	<b>7.2</b>
Atal	buy	2018-07-04	36.40	42.86	32.30	+32.7%	6.6	6.9	6.0	6.5
Capital Park	buy	2018-04-06	5.95	8.35	5.05	+65.3%	10.0	8.4	17.3	16.6
Dom Development	buy	2018-08-02	72.80	87.80	65.20	+34.7%	6.8	7.1	5.5	6.1
Echo	buy	2018-04-06	5.23	5.63	4.28	+31.5%	5.8	5.4	6.9	7.2
GTC	hold	2018-04-06	9.39	9.60	8.38	+14.6%	10.0	8.7	14.5	13.7
LC Corp	buy	2018-06-22	2.39	3.58	2.38	+50.4%	5.7	5.3	7.7	7.2
<b>Retail</b>						<b>+20.3%</b>	<b>26.4</b>	<b>16.9</b>	<b>13.6</b>	<b>11.1</b>
AmRest	hold	2018-09-03	406.00	426.00	402.50	+5.8%	42.4	33.3	14.1	11.3
CCC	buy	2018-06-06	242.80	295.00	213.60	+38.1%	27.9	16.5	15.9	11.1
Dino	hold	2018-06-06	107.40	103.50	94.40	+9.6%	29.0	21.7	18.1	13.9
Eurocash	buy	2018-04-06	24.41	30.70	19.68	+56.0%	20.7	16.0	6.7	5.7
Jeronimo Martins	buy	2018-08-02	12.65	15.20 EUR	12.89	+17.9%	20.3	16.9	8.7	7.5
LPP	accumulate	2018-06-18	9,025	10,200	8,870	+15.0%	24.9	20.5	13.6	11.3
TXM	buy	2018-07-04	1.28	3.48	0.63	+452.4%	-	2.1	12.5	3.0
<b>Other</b>						<b>+22.6%</b>	<b>9.1</b>	<b>8.3</b>	<b>6.0</b>	<b>5.5</b>
PBKM	hold	2018-06-06	73.00	76.26	62.20	+22.6%	9.1	8.3	6.0	5.5

## Current Calls by Dom Maklerski mBanku

Company	Relative Positioning	Rated On	Price At Rating	Current Price	Change	P/E		EV/EBITDA	
						2018	2019	2018	2019
Industrials						12.5	9.8	5.3	5.0
Ailleron	neutral	2018-03-28	16.20	13.40	-17.3%	16.0	13.9	7.2	5.8
Asseco BS	neutral	2018-03-28	28.00	24.60	-12.1%	14.3	13.0	9.5	8.8
Asseco SEE	overweight	2018-04-26	11.70	11.25	-3.8%	10.3	9.8	4.5	4.1
Atende	overweight	2018-03-28	4.25	3.58	-15.8%	8.3	7.5	5.3	5.0
Wasko	neutral	2018-05-30	1.68	1.48	-11.9%	12.5	8.2	4.7	4.0
Industrials						8.7	8.3	6.4	6.0
Alumetal	neutral	2018-08-23	51.00	43.90	-13.9%	7.8	8.5	6.4	6.7
Amica	overweight	2018-09-13	112.80	110.20	-2.3%	7.7	7.3	5.4	4.9
Apator	neutral	2018-02-28	24.00	26.30	+9.6%	14.5	15.2	8.3	8.5
Boryszew	neutral	2018-09-05	6.25	5.04	-19.4%	8.9	7.1	6.4	5.8
Elemental	neutral	2018-04-27	1.09	1.13	+3.7%	4.5	4.0	4.6	4.1
Ergis	neutral	2018-04-27	4.06	3.60	-11.3%	8.1	7.6	6.0	5.5
Forte	overweight	2018-07-27	40.60	42.00	+3.4%	15.7	11.2	10.8	8.8
Kruszwica	underweight	2018-08-02	65.40	45.10	-31.0%	17.6	18.6	9.4	9.5
Mangata	underweight	2018-09-13	91.20	81.40	-10.7%	10.3	12.4	7.3	7.7
Pfleiderer Group	overweight	2018-08-08	37.30	37.80	+1.3%	18.5	18.4	6.6	6.2
Pozbud	overweight	2018-09-04	3.57	2.67	-25.2%	5.0	2.7	4.6	1.7
Tarczyński	neutral	2018-05-30	14.50	14.85	+2.4%	8.4	8.0	5.8	5.4
Construction Sector						19.9	8.8	5.2	3.9
Elektrotim	neutral	2018-05-28	5.80	3.88	-33.1%	23.5	9.9	4.2	3.5
Herkules	neutral	2018-01-25	3.67	2.79	-24.0%	8.8	6.1	4.9	4.0
Torpol	neutral	2018-05-28	6.40	4.99	-22.0%	23.4	7.2	6.3	3.8
Trakcja	underweight	2018-05-18	3.65	2.95	-19.2%	23.2	21.1	5.5	5.3
Ulma	neutral	2018-05-28	73.00	72.00	-1.4%	8.9	8.6	3.6	3.4
ZUE	neutral	2018-05-28	5.86	5.20	-11.3%	16.6	9.0	6.8	5.5
Property Developers						6.3	5.4	9.0	5.4
Archicom	overweight	2018-06-22	15.00	13.50	-10.0%	6.3	4.4	6.1	4.8
BBI Development	neutral	2018-04-26	0.66	0.49	-25.8%	11.4	5.4	12.8	5.4
i2 Development	neutral	2018-06-22	15.40	13.05	-15.3%	4.0	4.5	7.2	6.0
JWC	neutral	2018-06-22	3.48	3.10	-10.9%	8.4	3.4	9.0	4.0
Lokum Deweloper	overweight	2018-06-22	18.80	17.80	-5.3%	5.9	6.8	4.5	5.3
PA Nova	neutral	2018-03-29	22.30	17.95	-19.5%	5.9	6.8	9.8	11.0
Polnord	underweight	2018-06-22	9.04	9.90	+9.5%	-	-	-	-
Ronson	neutral	2018-06-22	1.09	1.13	+3.7%	12.2	8.1	12.7	11.2
Retail						11.4	9.3	7.8	6.4
Bytom	overweight	2018-05-23	2.92	2.75	-5.8%	12.2	11.2	7.9	7.0
Monnari	neutral	2018-07-13	6.60	6.02	-8.8%	9.2	8.5	3.7	3.3
Vistula	overweight	2018-05-23	4.79	4.00	-16.5%	11.4	9.3	7.8	6.4

## CEE bank valuations (2018-09-14)

	Price	2018	P/E 2019	2020	2018	ROE 2019	2020	2018	P/BV 2019	2020	2018	DY 2019	2020
<b>POLISH BANKS</b>													
Alior Bank	64.55	8.8	7.4	-	13%	13%	-	1.0	0.9	-	0.0%	0.0%	-
Getin Noble Bank	0.64	12.9	4.8	2.1	1%	3%	6%	0.1	0.1	0.1	0.0%	0.0%	0.0%
Handlowy	69.00	14.3	11.7	-	9%	11%	-	1.3	1.3	-	5.9%	7.0%	-
ING BSK	180.40	14.9	13.2	12.1	13%	13%	12%	1.8	1.6	1.4	1.8%	2.0%	2.3%
Millennium	8.47	14.2	12.9	-	9%	9%	-	1.2	1.1	-	0.0%	1.8%	-
Pekao	107.50	12.9	10.6	-	9%	11%	-	1.2	1.2	-	7.3%	7.7%	-
PKO BP	40.50	15.3	12.7	-	9%	10%	-	1.3	1.2	-	1.4%	1.6%	-
Santander Bank Polska	371.80	14.6	12.0	10.5	10%	11%	12%	1.4	1.3	1.2	1.8%	3.4%	4.2%
<b>Median</b>		<b>14.2</b>	<b>11.9</b>	<b>10.5</b>	<b>9%</b>	<b>11%</b>	<b>12%</b>	<b>1.2</b>	<b>1.2</b>	<b>1.2</b>	<b>1.6%</b>	<b>1.9%</b>	<b>2.3%</b>
<b>INVESTORS IN POLISH BANKS</b>													
BCP	0.237	10.3	7.2	6.8	6%	8%	8%	0.6	0.6	0.5	1.3%	3.0%	5.9%
Citigroup	70.540	10.8	9.4	8.2	9%	10%	11%	1.0	0.9	0.8	2.2%	2.8%	3.2%
Commerzbank	8.797	11.9	9.9	7.4	3%	4%	5%	0.4	0.4	0.4	2.4%	3.6%	5.2%
ING	11.040	8.3	8.0	7.6	10%	10%	10%	0.8	0.8	0.8	6.3%	6.5%	6.8%
KBC	64.680	10.6	10.8	10.4	14%	13%	13%	1.5	1.4	1.4	5.5%	6.1%	6.4%
UCI	13.386	8.5	6.8	6.0	6%	8%	8%	0.5	0.5	0.5	2.7%	4.7%	7.2%
<b>Median</b>		<b>10.4</b>	<b>8.7</b>	<b>7.5</b>	<b>8%</b>	<b>9%</b>	<b>9%</b>	<b>0.7</b>	<b>0.7</b>	<b>0.6</b>	<b>2.5%</b>	<b>4.2%</b>	<b>6.2%</b>
<b>FOREIGN BANKS</b>													
Erste Bank*	36.65	10.5	10.5	9.7	11%	10%	10%	1.1	1.0	1.0	3.3%	4.0%	4.0%
Komerční Banka*	917.00	11.7	10.0	-	14%	14%	-	1.5	1.4	-	5.1%	4.7%	-
OTP*	10,100	10.2	9.4	-	15%	15%	-	1.5	1.3	-	2.5%	2.6%	-
Banco Santander	4.28	8.8	7.9	7.2	8%	9%	9%	0.7	0.7	0.6	5.2%	5.5%	6.2%
Deutsche Bank	9.81	21.4	11.0	8.0	1%	3%	4%	-	-	-	1.4%	2.9%	4.4%
Sberbank	188.71	4.9	4.6	4.2	23%	21%	21%	1.1	1.0	0.9	9.4%	10.9%	12.5%
VTB Bank	0.04	4.0	3.3	3.1	12%	12%	12%	0.5	0.4	0.4	10.0%	10.0%	10.0%
Piraeus Bank	1.95	54.1	6.3	3.4	0%	2%	4%	0.1	0.1	0.1	0.0%	0.0%	2.5%
Alpha Bank	1.28	9.6	5.9	4.7	2%	3%	4%	0.2	0.2	0.2	0.0%	0.0%	1.3%
National Bank of Greece	1.75	134.6	76.1	51.5	2%	3%	5%	3.0	2.9	2.8	0.0%	0.0%	0.1%
Eurobank Ergasias	0.61	7.8	5.2	4.1	3%	5%	6%	0.2	0.2	0.2	0.0%	0.0%	1.8%
Akbank	5.86	3.7	3.3	3.0	15%	15%	15%	0.5	0.5	0.4	7.6%	8.8%	9.0%
Türkiye Garanti Bank	6.34	3.8	3.4	2.8	15%	16%	17%	0.6	0.5	0.5	7.1%	7.9%	6.2%
Türkiye Halk Bank	6.08	2.1	1.8	1.5	13%	14%	-	0.3	0.2	0.2	3.5%	5.4%	-
Türkiye Vakıflar Bankası	3.19	2.2	2.6	2.5	15%	12%	-	0.3	0.3	0.2	2.0%	2.0%	1.2%
Yapı ve Kredi Bankası	1.72	3.6	3.0	2.5	10%	10%	12%	0.4	0.3	0.3	0.0%	2.8%	1.9%
<b>Median</b>		<b>8.3</b>	<b>5.6</b>	<b>3.7</b>	<b>11%</b>	<b>11%</b>	<b>10%</b>	<b>0.5</b>	<b>0.5</b>	<b>0.4</b>	<b>2.9%</b>	<b>3.4%</b>	<b>4.0%</b>

## Insurance company valuations (2018-09-14)

	Price	2018	P/E 2019	2020	2018	ROE 2019	2020	2018	P/BV 2019	2020	2018	DY 2019	2020
<b>POLISH COMPANIES</b>													
PZU	38.94	10.9	9.8	9.2	20%	21%	21%	2.2	2.0	1.9	6.9%	6.9%	7.6%
<b>FOREIGN COMPANIES</b>													
Vienna Insurance G.	23.80	10.6	10.2	9.1	6%	6%	6%	0.6	0.6	0.6	3.9%	4.2%	4.5%
Uniqia	8.54	12.2	11.5	10.6	7%	7%	8%	0.9	0.9	0.9	6.1%	6.6%	6.8%
Aegon	5.19	7.8	7.3	7.0	7%	7%	7%	0.5	0.5	0.5	5.4%	5.7%	5.9%
Allianz	185.76	10.7	10.0	9.5	11%	12%	12%	1.2	1.1	1.1	4.7%	5.0%	5.3%
Aviva	4.77	8.4	7.8	7.3	12%	11%	-	1.1	1.1	1.0	6.3%	7.0%	7.9%
AXA	22.15	8.9	8.2	7.9	9%	9%	9%	0.7	0.7	0.7	6.0%	6.3%	6.6%
Baloise	148.00	12.3	11.6	10.8	9%	9%	9%	1.1	1.0	0.9	4.0%	4.2%	4.4%
Assicurazioni Generali	15.04	9.6	9.3	9.0	10%	10%	10%	0.9	0.9	0.9	6.0%	6.4%	6.7%
Helvetia	583.50	11.6	11.2	10.9	10%	10%	10%	1.1	1.0	1.0	4.2%	4.4%	4.5%
Mapfre	2.54	9.6	8.7	8.0	9%	10%	12%	0.9	0.9	0.8	6.0%	6.5%	7.1%
RSA Insurance	6.09	12.7	11.4	10.9	13%	14%	14%	1.6	1.5	1.4	3.9%	4.9%	5.2%
Zurich Financial	298.90	12.3	10.5	10.0	11%	13%	14%	1.4	1.3	1.3	6.4%	6.8%	7.2%
<b>Median</b>		<b>10.6</b>	<b>10.1</b>	<b>9.3</b>	<b>10%</b>	<b>10%</b>	<b>10%</b>	<b>1.0</b>	<b>0.9</b>	<b>0.9</b>	<b>5.7%</b>	<b>6.0%</b>	<b>6.3%</b>

Source: Dom Maklerski mBanku (Polish stocks and stocks marked with an asterisk), IBES/Bloomberg (foreign stocks)

## Gas & Oil valuations (2018-09-14)

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
OIL COMPANIES																
Lotos	74.70	5.6	7.0	5.7	0.6	0.6	0.6	10.4	14.8	13.0	11%	8%	10%	1.3%	2.9%	2.0%
MOL	2890.00	3.7	4.2	4.0	0.5	0.5	0.5	8.2	10.2	9.5	14%	12%	13%	4.4%	3.9%	4.1%
PKN Orlen	99.42	5.6	7.8	6.8	0.5	0.4	0.4	8.9	14.7	13.2	8%	5%	6%	3.0%	3.9%	2.4%
HollyFrontier	70.39	7.4	6.2	6.7	0.9	0.8	0.9	13.5	9.6	10.4	12%	14%	13%	1.9%	2.0%	2.0%
Andeavor	156.09	9.7	8.0	7.0	0.7	0.7	0.7	17.8	12.8	10.4	7%	8%	10%	1.6%	1.7%	1.9%
Valero Energy	117.13	9.1	6.9	5.5	0.5	0.5	0.4	18.0	11.5	8.6	5%	7%	8%	2.7%	3.0%	3.2%
Marathon Petroleum	84.34	8.8	7.3	6.0	0.7	0.6	0.6	17.2	12.0	9.4	8%	9%	10%	2.2%	2.4%	2.6%
Phillips 66	113.60	9.1	8.1	7.1	0.6	0.5	0.6	14.9	11.8	9.6	6%	7%	9%	2.7%	3.0%	3.2%
Tupras	133.50	7.6	7.1	6.3	0.6	0.5	0.5	10.0	8.8	7.5	8%	7%	8%	7.5%	8.5%	10.5%
OMV	46.09	3.8	3.6	3.6	0.8	0.8	0.8	9.0	8.3	8.4	22%	23%	23%	3.6%	3.9%	4.3%
Neste Oil	72.76	11.7	11.0	10.7	1.3	1.3	1.2	18.6	17.6	17.0	11%	11%	12%	2.7%	2.9%	3.0%
Hellenic Petroleum	7.17	5.5	5.6	5.6	0.5	0.4	0.4	7.5	8.1	8.0	8%	8%	8%	5.3%	5.6%	6.3%
Saras SpA	1.90	4.6	4.0	3.3	0.2	0.2	0.2	15.2	10.6	7.7	4%	5%	6%	4.1%	4.9%	6.4%
Motor Oil	20.60	4.9	4.9	4.3	0.3	0.3	0.3	9.4	9.6	8.4	6%	6%	7%	6.1%	6.3%	7.1%
Median		6.5	6.9	5.8	0.6	0.5	0.5	12.0	11.1	9.5	8%	8%	9%	2.9%	3.4%	3.2%
GAS COMPANIES																
A2A SpA	1.55	6.8	6.7	6.4	1.4	1.4	1.3	12.0	12.7	12.0	20%	20%	21%	4.3%	4.7%	5.0%
Centrica	143.30	4.8	4.8	4.8	0.4	0.4	0.4	10.9	11.1	10.8	9%	8%	8%	0.0%	0.0%	0.0%
Enagas	23.95	10.3	10.4	10.3	7.9	8.1	8.1	13.0	13.4	12.4	78%	78%	79%	6.4%	6.7%	7.0%
Endesa	18.80	7.4	7.2	7.2	1.3	1.3	1.3	13.9	13.5	13.2	17%	17%	18%	7.3%	7.4%	7.6%
Engie	12.40	6.0	5.7	5.4	0.9	0.9	0.8	12.4	11.2	10.4	15%	15%	16%	6.0%	6.4%	6.9%
Gas Natural SDG	23.36	9.3	8.8	8.5	1.7	1.6	1.6	24.8	16.7	15.7	18%	19%	19%	5.1%	5.6%	5.8%
Hera SpA	2.84	6.9	6.9	6.7	1.2	1.2	1.2	15.9	16.1	15.5	18%	17%	18%	3.5%	3.6%	3.7%
Snam SpA	3.70	11.8	11.7	11.5	9.6	9.5	9.3	12.9	12.7	12.2	81%	81%	81%	6.0%	6.2%	6.3%
PGNiG	6.10	4.0	3.3	3.0	0.8	0.7	0.7	8.5	7.1	7.3	21%	22%	23%	0.0%	3.5%	4.2%
BP	550.40	5.1	4.7	4.6	0.6	0.6	0.6	13.1	11.9	11.3	12%	13%	13%	0.0%	0.0%	0.0%
Eni	15.99	3.6	3.4	3.3	0.9	0.9	0.9	13.5	11.8	11.8	25%	26%	27%	5.2%	5.3%	5.4%
Equinor	152.15	2.9	2.9	2.8	0.8	0.8	0.7	3.3	3.4	3.4	27%	27%	27%	5.9%	6.6%	7.1%
Gazprom	1087.70	13.4	13.1	12.6	4.8	4.6	4.4	15.9	14.4	14.0	36%	35%	35%	2%	2%	2%
NovaTek	31.95	4.4	4.2	3.8	2.5	2.4	2.1	7.6	7.0	6.5	58%	57%	55%	12.0%	12.7%	13.4%
ROMGAZ	27.73	3.4	3.2	3.2	0.5	0.5	0.5	12.0	10.2	9.9	16%	17%	17%	7.9%	8.0%	8.1%
Shell	216.70	3.5	3.3	3.1	1.3	1.3	1.2	13.5	12.4	12.0	38%	39%	39%	0.1%	0.1%	0.1%
Total	53.86	6.5	5.9	5.9	1.1	1.1	1.1	13.6	12.3	12.1	18%	19%	19%	5.6%	5.8%	6.0%
Median		6.0	5.7	5.4	1.2	1.2	1.2	13.0	12.3	12.0	20%	20%	21%	5.2%	5.6%	5.8%

## Power generation company valuations (2018-09-14)

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
ENERGY COMPANIES																
EDF	14.58	5.9	5.5	5.2	1.3	1.2	1.2	23.4	19.2	16.3	21%	22%	23%	2.1%	2.5%	3.1%
EDP	3.25	8.9	8.4	8.2	2.2	2.2	2.1	15.0	13.9	13.2	25%	26%	25%	5.9%	5.9%	5.9%
Endesa	18.80	7.4	7.2	7.2	1.3	1.3	1.3	13.9	13.5	13.2	17%	17%	18%	7.3%	7.4%	7.6%
Enel	4.52	6.3	6.0	5.8	1.4	1.3	1.3	11.2	10.0	9.4	21%	22%	22%	6.2%	7.0%	7.5%
EON	8.78	7.3	6.9	6.0	0.9	0.8	0.7	13.4	12.5	11.6	12%	12%	11%	4.9%	5.5%	6.0%
Fortum	21.88	15.1	15.2	14.0	4.8	4.7	4.7	23.2	18.1	15.8	32%	31%	33%	5.0%	5.0%	5.0%
Iberdola	6.25	8.8	8.3	7.8	2.2	2.1	2.1	13.3	12.5	11.8	25%	26%	26%	5.3%	5.6%	6.0%
National Grid	791.30	10.1	10.2	9.5	3.4	3.3	3.1	13.5	13.9	13.1	34%	32%	33%	0.0%	0.0%	0.0%
Red Electrica	18.06	9.5	9.2	9.3	7.3	7.1	7.2	13.8	13.3	13.7	77%	77%	77%	5.4%	5.8%	5.9%
RWE	21.66	7.5	7.3	9.8	0.9	0.9	1.4	14.6	12.8	11.1	12%	12%	14%	3.2%	3.7%	4.5%
SSE	1084.00	8.0	8.1	8.0	0.7	0.6	0.7	9.2	9.2	9.2	9%	8%	8%	0.0%	0.0%	0.0%
Verbund	39.36	10.2	8.8	8.0	3.2	2.9	2.8	37.2	29.0	24.3	32%	33%	35%	1.2%	1.6%	1.9%
CEZ	574.50	8.6	8.5	7.9	2.2	2.1	2.0	21.7	20.2	18.0	26%	25%	26%	5.7%	4.6%	5.0%
PGE	8.87	3.4	3.2	3.1	1.0	0.8	0.7	5.4	5.3	5.9	29%	25%	24%	0.0%	0.0%	4.7%
Tauron	1.71	3.7	4.1	3.7	0.7	0.7	0.7	3.2	2.7	2.8	20%	18%	19%	0.0%	0.0%	0.0%
Enea	7.83	3.7	3.2	3.6	0.9	0.7	0.8	3.8	2.9	3.7	23%	23%	21%	0.0%	0.0%	0.0%
Energia	7.51	3.2	3.1	3.3	0.7	0.6	0.7	3.8	3.9	4.1	22%	21%	21%	0.0%	0.0%	0.0%
Median		7.5	7.3	7.8	1.3	1.3	1.3	13.5	12.8	11.8	23%	23%	23%	3.2%	3.7%	4.7%

Source: Dom Maklerski mBanku (Polish stocks), IBES/Bloomberg (foreign stocks and stocks marked with an asterisk)



## Fertilizer producers and chemical companies (2018-09-14)

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
FERTILIZER PRODUCERS																
Acron	4620.00	7.8	7.2	6.8	2.5	2.3	2.1	11.3	10.2	9.5	32%	32%	32%	6.6%	7.0%	7.1%
Uralkali	78.95	4.6	4.6	-	2.4	2.4	-	3.4	3.6	-	53%	53%	-	0.0%	0.0%	
Phosagro	2649.00	6.6	6.5	5.9	2.0	2.0	1.9	11.6	11.4	8.5	31%	31%	32%	4.7%	5.4%	6.0%
K+S	18.11	7.9	6.9	6.3	1.6	1.5	1.5	13.7	10.1	8.8	20%	22%	23%	3.1%	4.2%	4.5%
Yara International	373.90	-	53.5	43.7	8.4	8.1	7.2	-	-	-	12%	15%	17%	0.2%	0.4%	0.5%
The Mosaic Company	30.79	8.6	7.7	7.3	1.7	1.6	1.6	20.3	15.9	13.3	20%	21%	22%	0.3%	0.3%	0.7%
CF Industries	51.55	13.6	11.4	10.6	4.3	4.0	3.9	44.3	26.0	20.7	32%	35%	36%	2.5%	2.5%	2.6%
Israel Chemicals	2085.00	7.7	8.5	8.0	1.8	1.7	1.6	16.1	14.7	13.5	23%	20%	20%	0.0%	0.0%	0.0%
Grupa Azoty	33.86	5.4	5.4	5.9	0.5	0.6	0.6	15.0	13.5	12.7	10%	10%	11%	3.5%	2.0%	2.2%
ZA Police*	16.20	8.4	6.3	5.1	0.7	0.6	0.6	24.9	13.2	8.9	8%	10%	12%	3.3%	3.1%	3.1%
ZCh Pulawy*	94.00	3.3	2.5	2.3	0.4	0.3	0.3	10.5	7.5	6.8	11%	14%	15%	6.3%	8.5%	8.5%
Median		7.7	6.9	6.6	1.8	1.7	1.6	14.3	12.3	9.5	20%	21%	21%	3.1%	2.5%	2.8%
CHEMICAL COMPANIES																
Ciech	46.90	5.0	4.7	4.2	1.0	1.0	0.9	7.3	6.9	6.1	20%	21%	21%	16.0%	7.5%	9.4%
Akzo Nobel	80.48	18.5	15.5	13.7	2.3	2.2	2.1	28.4	23.6	19.8	13%	14%	16%	2.7%	2.8%	2.9%
BASF	77.88	7.1	6.8	6.5	1.4	1.3	1.2	11.9	11.1	10.3	19%	19%	19%	4.1%	4.3%	4.5%
Croda	5146.00	17.5	16.2	15.3	5.1	4.8	4.6	27.0	24.9	23.3	29%	30%	30%	0.0%	0.0%	0.0%
Sisecam	5.81	5.3	4.2	3.4	1.2	1.0	0.8	9.7	8.4	6.8	22%	23%	24%	3.3%	4.0%	4.4%
Soda Sanayii	6.92	8.1	6.6	5.2	2.1	1.7	1.6	7.7	6.9	5.6	26%	26%	31%	4.5%	5.9%	7.5%
Solvay	112.60	6.3	6.0	5.6	1.3	1.3	1.2	13.6	12.8	11.3	21%	22%	22%	3.3%	3.4%	3.4%
Tata Chemicals	746.70	9.0	8.4	7.9	1.7	1.7	1.7	16.0	16.5	15.1	19%	21%	21%	1.7%	1.6%	1.7%
Tessenderlo Chemie	32.75	7.9	6.4	6.0	0.9	0.9	0.8	16.1	12.2	10.5	12%	14%	14%	0.0%	-	-
Wacker Chemie	110.50	6.0	5.8	5.6	1.3	1.2	1.2	15.8	14.3	13.2	21%	21%	21%	3.6%	3.9%	4.3%
Median		7.5	6.5	5.8	1.4	1.3	1.2	14.7	12.5	10.9	21%	21%	21%	3.3%	3.9%	4.3%

## Machine and equipment manufacturers (2018-09-14)

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
Atlas Copco	251.05	8.4	8.0	7.8	2.2	2.1	2.0	19.7	18.3	17.3	27%	26%	26%	2.8%	3.0%	3.1%
Caterpillar	144.90	10.3	9.4	8.6	2.1	1.9	1.9	12.5	11.4	10.4	20%	21%	21%	2.2%	2.4%	2.5%
Duro Felguera	0.03	-	-	-	0.8	0.8	-	-	-	-	-	-	-	0.0%	0.0%	-
Famur	5.02	6.9	6.1	5.8	1.5	1.4	1.3	15.8	12.5	10.8	21%	23%	23%	8.8%	9.0%	5.6%
Komatsu	3111.00	9.8	7.2	6.8	1.5	1.4	1.3	15.4	11.7	10.5	15%	19%	19%	2.4%	3.3%	3.7%
Sandvig AG	156.30	8.6	8.5	8.1	2.1	2.0	1.9	15.1	14.2	13.3	24%	23%	24%	2.6%	2.9%	3.2%
<b>Median</b>		<b>9.2</b>	<b>7.9</b>	<b>7.5</b>	<b>1.5</b>	<b>1.4</b>	<b>1.6</b>	<b>15.3</b>	<b>12.1</b>	<b>10.7</b>	<b>21%</b>	<b>22%</b>	<b>22%</b>	<b>2.4%</b>	<b>2.9%</b>	<b>3.5%</b>

## Mining company valuations (2018-09-14)

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
POLISH COMPANIES																
JSW	68.14	2.1	2.3	3.0	0.7	0.7	0.8	4.1	5.4	8.5	33%	30%	25%	0.0%	7.3%	9.3%
KGHM	84.84	4.3	3.2	2.9	1.1	0.8	0.8	7.2	5.6	5.6	25%	26%	26%	0.0%	3.5%	6.2%
LW Bogdanka*	57.00	3.0	2.7	2.6	1.0	0.9	0.9	13.3	9.1	8.5	32%	34%	34%	2.1%	3.3%	4.6%
FOREIGN COMPANIES																
Anglo American	1545.00	4.0	4.3	4.5	1.3	1.3	1.3	8.5	9.1	10.0	32%	31%	28%	0.0%	0.0%	0.0%
Antofagasta	784.60	4.9	4.3	4.0	2.5	2.3	2.2	12.8	10.8	10.6	51%	54%	55%	0.0%	0.0%	0.0%
BHP Billiton	31.82	3.7	3.9	4.0	2.0	2.1	2.1	13.1	13.2	14.7	54%	54%	52%	2.7%	2.9%	2.4%
Boliden	229.10	4.4	4.6	4.8	1.2	1.2	1.2	8.4	9.5	9.9	28%	26%	26%	7.4%	6.9%	7.2%
First Quantum	15.34	8.0	5.6	4.3	3.7	2.9	2.3	14.9	9.0	6.4	46%	51%	54%	0.1%	0.1%	0.2%
Freeport-McMoRan	13.69	3.9	5.7	4.5	1.5	1.9	1.7	7.2	12.0	8.6	39%	33%	37%	1.3%	2.0%	3.6%
Hudbay Min	5.90	2.5	2.5	2.4	1.1	1.1	1.1	8.2	7.4	6.4	44%	45%	46%	0.2%	0.2%	0.3%
Lundin Min	6.38	4.0	3.6	2.9	1.7	1.6	1.4	12.7	11.4	8.2	42%	45%	48%	1.5%	1.3%	1.3%
MMC Norilsk Nickel	16.95	5.7	5.6	5.4	2.9	2.8	2.8	7.6	7.5	7.9	51%	51%	51%	9.3%	11.2%	11.1%
OZ Minerals	8.71	4.8	5.0	4.1	2.3	2.3	1.9	14.2	15.3	10.8	47%	46%	47%	2.3%	1.9%	2.6%
Rio Tinto	3596.50	4.0	4.4	4.4	1.8	1.9	1.9	9.9	10.9	11.0	46%	44%	43%	0.0%	0.0%	0.0%
Sandfire Resources	6.80	2.7	2.5	2.0	1.4	1.3	1.1	8.4	6.9	5.0	52%	52%	55%	4.1%	4.6%	6.4%
Southern CC	41.36	9.4	8.4	8.1	4.8	4.4	4.2	16.8	14.9	14.3	51%	52%	53%	4.1%	3.4%	3.4%
Vedanta Resources	832.00	4.7	3.9	3.5	1.2	1.3	1.0	12.1	6.8	5.0	26%	33%	28%	0.0%	0.0%	0.0%
Median		4.2	4.3	4.2	1.8	1.9	1.8	11.0	10.1	9.3	46%	46%	47%	1.4%	1.6%	1.9%

Source: Dom Maklerski mBanku (Polish stocks), IBES/Bloomberg (foreign stocks and stocks marked with an asterisk)

## European telecom valuations (2018-09-14)

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
<b>POLISH COMPANIES</b>																
Netia	4.57	5.4	5.8	5.8	1.4	1.5	1.5	41.6	50.2	43.9	25%	25%	26%	0.0%	0.0%	0.0%
Orange Polska	4.39	4.1	3.7	3.3	1.1	1.1	1.0	19.2	10.6	7.3	27%	28%	29%	0.0%	0.0%	5.7%
Play	20.32	5.5	5.4	5.1	1.7	1.7	1.6	6.5	7.3	7.1	32%	31%	31%	12.8%	6.4%	6.4%
<b>Median</b>		<b>5.4</b>	<b>5.4</b>	<b>5.1</b>	<b>1.4</b>	<b>1.5</b>	<b>1.5</b>	<b>19.2</b>	<b>10.6</b>	<b>7.3</b>	<b>27%</b>	<b>28%</b>	<b>29%</b>	<b>0%</b>	<b>0.0%</b>	<b>5.7%</b>
<b>MID CAPS</b>																
Proximus	20.59	5.0	5.0	4.9	1.6	1.6	1.6	11.9	11.7	11.6	32%	32%	32%	7.3%	7.3%	7.3%
Telefonica CP	263.50	8.7	8.6	8.6	2.4	2.3	2.3	15.2	14.5	14.0	27%	27%	27%	7.7%	7.7%	7.7%
Hellenic Telekom	10.64	4.7	4.6	4.5	1.6	1.6	1.6	18.8	15.8	14.2	34%	34%	35%	4.3%	5.5%	6.1%
Matav	405.00	3.9	3.9	3.9	1.2	1.2	1.2	9.6	9.9	9.4	31%	31%	31%	6.2%	6.6%	7.1%
Telecom Austria	7.29	5.4	5.3	5.1	1.7	1.7	1.7	14.8	12.0	10.7	32%	32%	32%	2.7%	3.3%	3.7%
<b>Median</b>		<b>5.0</b>	<b>5.0</b>	<b>4.9</b>	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	<b>14.8</b>	<b>12.0</b>	<b>11.6</b>	<b>32%</b>	<b>32%</b>	<b>32%</b>	<b>6.2%</b>	<b>6.6%</b>	<b>7.1%</b>
<b>BIG CAPS</b>																
BT	226.00	4.3	4.4	4.4	1.4	1.4	1.4	8.3	8.6	8.6	32%	31%	32%	0.0%	0.0%	0.0%
DT	13.76	5.7	5.5	5.1	1.7	1.7	1.6	14.4	12.7	11.7	30%	31%	31%	5.1%	5.6%	6.0%
KPN	2.28	7.0	6.9	6.7	2.7	2.7	2.7	20.1	18.1	15.8	39%	40%	40%	5.7%	8.0%	9.2%
Orange France	13.64	4.9	4.8	4.7	1.5	1.5	1.5	12.5	11.5	10.4	31%	32%	32%	5.1%	5.4%	5.7%
Swisscom	439.20	7.2	7.3	7.3	2.6	2.6	2.6	15.1	15.2	15.4	36%	36%	36%	5.0%	5.0%	5.0%
Telefonica S.A.	6.68	5.6	5.5	5.5	1.8	1.8	1.8	9.5	8.7	8.2	32%	32%	33%	6.0%	6.1%	6.3%
Telia Company	41.00	8.3	8.1	8.1	2.7	2.7	2.7	15.5	14.6	14.1	33%	33%	33%	5.7%	5.9%	6.0%
TI	0.53	4.2	4.2	4.1	1.8	1.8	1.8	7.6	7.0	6.7	43%	44%	44%	0.8%	1.5%	2.6%
<b>Median</b>		<b>5.7</b>	<b>5.5</b>	<b>5.3</b>	<b>1.8</b>	<b>1.8</b>	<b>1.8</b>	<b>13.4</b>	<b>12.1</b>	<b>11.0</b>	<b>32%</b>	<b>33%</b>	<b>33%</b>	<b>5.1%</b>	<b>5.5%</b>	<b>5.8%</b>

## Media company valuations (2018-09-14)

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
<b>POLISH COMPANIES</b>																
Agora	9.16	3.5	3.9	3.9	0.4	0.4	0.4	46.0	57.4	18.3	11%	10%	10%	5.5%	5.5%	5.5%
Cyfrowy Polsat	22.40	6.9	6.1	5.7	2.4	2.1	1.9	13.1	11.1	10.0	34%	34%	34%	0.0%	1.4%	2.3%
<b>Median</b>		<b>5.2</b>	<b>5.0</b>	<b>4.8</b>	<b>1.4</b>	<b>1.2</b>	<b>1.2</b>	<b>29.5</b>	<b>34.2</b>	<b>14.1</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>DAILY</b>																
Amolgo Mondadori	1.47	6.3	5.5	5.4	0.5	0.5	0.5	12.7	9.5	9.4	7%	9%	9%	0.7%	1.6%	2.4%
Axel Springer	59.90	10.9	9.9	9.1	2.5	2.4	2.3	20.9	18.7	16.8	23%	24%	25%	3.5%	3.6%	3.9%
Daily Mail	737.00	11.7	11.4	11.0	1.8	1.8	1.7	18.2	18.2	16.6	15%	15%	16%	0.0%	0.0%	0.0%
Gruppo Editoriale	0.34	5.9	6.0	5.8	0.4	0.5	0.5	10.9	10.0	10.3	7%	8%	8%	1.5%	3.5%	4.7%
New York Times	22.25	12.6	11.0	9.4	2.1	2.0	1.9	25.6	20.4	15.2	17%	18%	21%	0.7%	0.7%	0.7%
Promotora de Inform	1.75	8.1	7.8	7.0	1.6	1.6	1.6	11.1	15.9	14.8	20%	21%	23%	0.5%	0.5%	0.7%
Reach	65.30	1.7	1.6	1.6	0.4	0.4	0.4	1.8	1.7	1.8	23%	24%	25%	0.0%	0.0%	0.0%
<b>Median</b>		<b>8.1</b>	<b>7.8</b>	<b>7.0</b>	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	<b>12.7</b>	<b>15.9</b>	<b>14.8</b>	<b>17%</b>	<b>18%</b>	<b>21%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.7%</b>
<b>TV</b>																
Atresmedia Corp	5.58	7.3	6.9	6.7	1.4	1.4	1.3	8.8	8.2	8.0	19%	20%	20%	9.6%	10.3%	10.6%
Gestevisión Telecinco	6.32	7.5	7.1	6.8	1.9	1.9	1.9	10.7	10.3	10.2	26%	27%	28%	9.4%	9.6%	9.7%
ITV PLC	159.80	8.5	8.4	7.9	2.3	2.2	2.1	10.4	10.4	9.6	27%	26%	27%	0.0%	0.0%	0.0%
M6-Metropole Tel	17.70	5.3	5.2	5.1	1.5	1.5	1.4	12.9	12.4	12.0	28%	28%	28%	5.5%	5.9%	6.1%
Mediaset SPA	2.55	3.5	3.6	3.6	1.4	1.4	1.4	16.2	10.8	9.1	39%	40%	40%	4.4%	6.1%	7.0%
Modern Times	334.00	12.3	11.4	10.2	1.2	1.2	1.1	21.3	20.0	17.5	10%	10%	11%	3.8%	4.0%	4.2%
Prosieben	22.60	6.7	6.2	5.9	1.7	1.6	1.5	9.8	9.2	8.8	25%	26%	26%	8.6%	9.0%	9.3%
RTL Group	63.80	7.9	7.6	7.4	1.6	1.6	1.5	13.6	12.4	12.4	21%	21%	21%	6.3%	6.3%	6.5%
TF1-TV Francaise	9.25	4.9	4.2	4.0	0.8	0.8	0.8	15.7	11.1	10.2	17%	19%	20%	4.0%	4.9%	5.4%
<b>Median</b>		<b>7.1</b>	<b>6.7</b>	<b>6.3</b>	<b>1.6</b>	<b>1.5</b>	<b>1.5</b>	<b>13.3</b>	<b>11.0</b>	<b>10.2</b>	<b>25%</b>	<b>26%</b>	<b>27%</b>	<b>5.0%</b>	<b>6.0%</b>	<b>6.3%</b>
<b>PAY TV</b>																
Sky PLC	1579.50	14.3	13.4	12.0	2.4	2.3	2.2	24.3	22.5	19.5	17%	17%	19%	0.0%	0.0%	0.0%
Cogeco	64.35	5.4	4.9	4.9	2.4	2.3	2.2	10.3	10.3	10.5	45%	46%	46%	3.0%	3.2%	3.2%
Comcast	36.96	7.9	7.6	7.2	2.6	2.5	2.4	14.6	13.2	11.5	32%	33%	33%	2.0%	2.3%	2.6%
Dish Network	36.38	8.4	9.5	11.0	1.6	1.7	1.8	13.4	16.1	22.5	20%	18%	16%	0.0%	0.0%	0.0%
Liberty Global	28.20	5.9	5.8	5.6	2.8	2.8	2.7	-	52.0	34.0	47%	48%	48%	0.0%	0.0%	0.0%
Shaw Communications	19.45	8.1	7.5	7.0	3.1	3.0	2.9	23.1	18.4	15.7	39%	40%	42%	8.0%	8.1%	8.1%
<b>Median</b>		<b>8.0</b>	<b>7.5</b>	<b>7.1</b>	<b>2.5</b>	<b>2.4</b>	<b>2.3</b>	<b>14.6</b>	<b>17.3</b>	<b>17.6</b>	<b>36%</b>	<b>37%</b>	<b>37%</b>	<b>1.0%</b>	<b>1.1%</b>	<b>1.3%</b>

Source: Dom Maklerski mBanku (Polish stocks), IBES/Bloomberg (foreign stocks)

## IT company valuations (2018-09-14)

	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
POLISH COMPANIES																
AB*	19.30	5.6	5.5	5.4	0.1	0.1	0.1	5.2	4.8	4.5	1%	1%	1%	0.0%	2.6%	4.8%
Asseco Poland	45.50	8.1	7.8	7.8	1.0	1.0	1.0	13.4	14.7	14.6	13%	13%	13%	6.6%	4.4%	4.4%
Comarch	162.50	9.2	8.0	7.7	1.1	1.0	1.0	23.4	17.2	15.7	12%	13%	13%	0.9%	6.2%	6.2%
Median		8.1	7.8	7.7	1.0	1.0	1.0	13.4	14.7	14.6	12%	13%	13%	0.9%	4.4%	4.8%
FOREIGN COMPANIES																
Atos Origin	98.90	6.2	5.5	5.3	0.8	0.8	0.8	11.4	10.2	9.7	14%	14%	15%	1.8%	2.0%	2.2%
CapGemini	108.20	10.5	9.8	9.1	1.5	1.4	1.3	18.2	16.2	14.9	14%	14%	15%	1.7%	1.9%	2.0%
IBM	148.33	8.6	8.3	8.7	2.1	2.1	2.1	10.7	10.5	10.1	24%	25%	24%	4.2%	4.4%	4.5%
Indra Sistemas	9.82	7.6	6.9	6.5	0.7	0.7	0.7	14.3	12.1	10.7	10%	10%	11%	0.7%	1.9%	2.5%
Microsoft	113.37	18.1	15.5	13.9	7.4	6.6	6.0	29.6	26.7	23.3	41%	42%	43%	1.5%	1.6%	1.7%
Oracle	49.25	10.1	9.8	9.3	4.7	4.6	4.4	15.9	14.6	13.6	47%	47%	48%	1.5%	1.6%	1.7%
SAP	104.26	16.5	14.7	13.3	5.3	4.9	4.5	23.8	21.2	19.0	32%	33%	34%	1.4%	1.6%	1.7%
TietoEnator	27.86	10.4	10.0	9.6	1.4	1.3	1.3	15.8	15.2	14.5	13%	13%	13%	5.1%	5.3%	5.4%
Median		10.2	9.8	9.2	1.8	1.7	1.7	15.9	14.9	14.1	19%	20%	19%	1.6%	1.9%	2.1%

## Construction company valuations (2018-09-14)

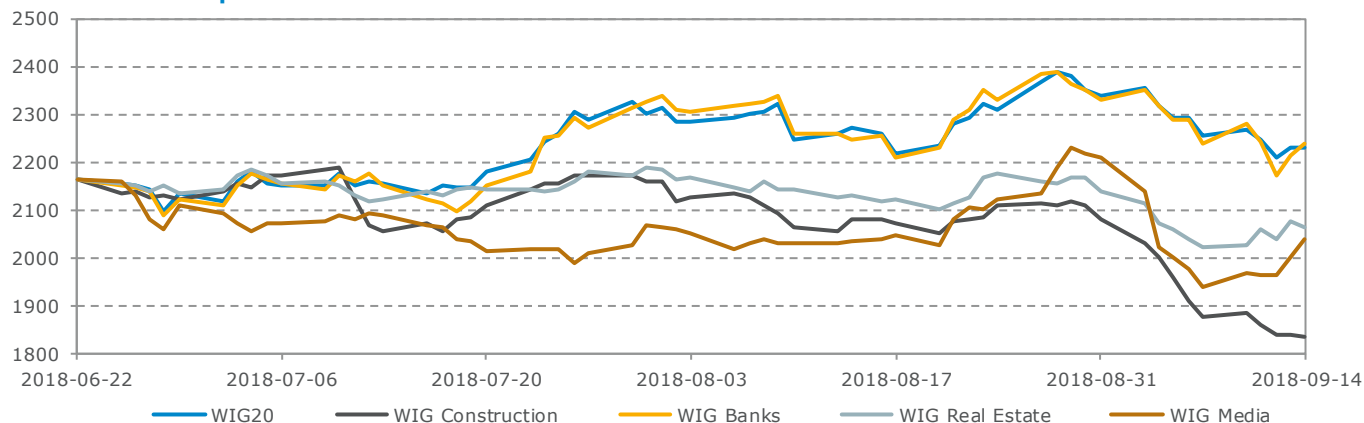
	Price	EV/EBITDA			EV/S			P/E			EBITDA margin			DY		
		2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
POLISH COMPANIES																
Budimex	100.20	3.1	4.0	4.4	0.2	0.2	0.2	10.4	11.7	11.1	5%	4%	5%	17.6%	9.2%	8.1%
Elektrobudowa	33.70	1.6	1.6	1.6	0.1	0.1	0.1	6.8	6.6	6.5	5%	5%	6%	31.2%	14.8%	14.8%
Elektrotim	3.88	4.2	3.5	2.9	0.1	0.1	0.1	23.5	9.9	7.8	3%	3%	4%	0.0%	5.2%	7.7%
Erbud	9.34	-	4.4	3.4	0.1	0.1	0.1	-	10.2	6.0	-	2%	2%	11.8%	0.0%	5.9%
Herkules	2.79	4.9	4.0	3.8	1.2	0.9	0.9	8.8	6.1	6.1	26%	23%	23%	2.5%	6.5%	7.2%
Torpol	4.99	6.3	3.8	3.1	0.1	0.1	0.1	23.4	7.2	5.9	2%	3%	3%	0.0%	0.0%	4.0%
Trakcja	2.95	5.5	5.3	4.1	0.2	0.2	0.1	23.2	21.1	9.9	3%	3%	3%	3.4%	0.0%	6.8%
Ulma Construccoon	72.00	3.6	3.4	3.3	1.4	1.4	1.4	8.9	8.6	9.4	40%	41%	41%	5.3%	5.6%	5.6%
Unibep	4.89	3.7	2.8	2.6	0.1	0.1	0.1	5.6	4.8	5.3	3%	4%	3%	3.1%	6.2%	8.3%
ZUE	5.20	6.8	5.5	3.2	0.2	0.2	0.1	16.6	9.0	5.9	3%	3%	4%	0.0%	0.0%	5.8%
Median		4.2	3.9	3.3	0.1	0.1	0.1	10.4	8.8	6.3	3%	3%	4%	3.2%	5.4%	7.0%
FOREIGN COMPANIES																
Acciona	75.00	7.6	7.5	7.3	1.4	1.4	1.3	17.4	16.4	14.7	18%	18%	18%	4.1%	4.4%	4.5%
Astaldi	1.12	4.5	4.5	4.4	0.5	0.5	0.4	2.0	2.0	1.8	10%	10%	10%	0.0%	0.0%	-
Ferrovial	18.02	28.3	20.0	18.3	1.5	1.5	1.4	61.1	31.9	27.6	5%	7%	8%	4.1%	4.1%	4.2%
Hochtief	142.60	6.4	6.0	5.5	0.4	0.4	0.3	17.9	15.5	14.5	6%	6%	6%	3.2%	3.7%	4.0%
Mota Engil	2.14	3.9	3.6	3.4	0.6	0.6	0.5	13.4	7.0	5.5	16%	16%	16%	2.1%	4.0%	7.5%
NCC	157.70	7.4	5.4	5.0	0.3	0.2	0.2	15.4	10.9	9.9	3%	5%	5%	5.7%	6.1%	6.7%
Skanska	179.55	10.8	9.3	8.8	0.4	0.5	0.4	16.1	14.0	13.0	4%	5%	5%	4.6%	4.8%	5.0%
Strabag	34.65	3.5	3.4	3.2	0.2	0.2	0.2	12.0	11.7	11.0	6%	6%	6%	3.8%	4.0%	4.4%
Median		6.9	5.7	5.3	0.5	0.5	0.4	15.7	12.8	12.0	6%	7%	7%	3.9%	4.1%	4.5%

## Real-estate developers (2018-09-14)

	Price	EV/EBITDA			P/BV			P/E			EBITDA margin			DY		
		2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
POLISH COMPANIES																
BBI Development	0.49	12.8	5.4	11.6	0.3	0.2	0.2	11.4	5.4	9.4	16%	52%	41%	0.0%	0.0%	0.0%
Dom Development	65.20	5.5	6.1	5.8	1.5	1.6	1.5	6.8	7.1	6.3	18%	17%	18%	11.7%	14.6%	14.0%
Echo Investment	4.28	6.9	7.2	8.7	1.0	1.0	1.0	5.8	5.4	6.6	77%	53%	39%	12%	12%	13.0%
GTC	8.38	14.5	13.7	12.4	0.9	0.9	0.8	10.0	8.7	7.6	88%	91%	94%	0.2%	0.2%	0.3%
i2 Development	13.05	7.2	6.0	2.1	0.5	0.5	0.4	4.0	4.5	2.9	17%	11%	20%	8.2%	12.6%	11.1%
J.W. Construction	3.10	9.0	4.0	4.6	0.4	0.3	0.3	8.4	3.4	4.2	13%	18%	17%	0.0%	0.0%	0.0%
PA Nova	17.95	9.8	11.0	10.4	0.5	0.5	0.4	5.9	6.8	6.5	24%	20%	21%	0.0%	4.2%	5.6%
Polnord	9.90	-	-	18.4	0.5	0.5	0.4	-	-	19.3	2%	1%	7%	0.0%	0.0%	0.0%
Ronson	1.13	12.7	11.2	6.3	0.5	0.5	0.5	12.2	8.1	4.8	9%	12%	13%	5.3%	5.3%	6.2%
Median		9.4	6.6	8.7	0.5	0.5	0.4	7.6	6.1	6.5	17%	18%	20%	0%	4%	6%
FOREIGN COMPANIES																
Atrium European RE	3.87	14.9	14.8	14.6	0.8	0.8	0.8	12.6	12.4	11.7	86%	84%	82%	8.8%	7.2%	7.3%
CA Immobilien Anlagen	31.58	27.2	23.8	20.5	1.2	1.1	1.0	26.0	23.7	21.4	76%	82%	66%	2.7%	3.0%	3.3%
Deutsche Euroshop AG	28.76	16.6	16.6	16.5	0.8	0.8	0.8	13.0	13.0	13.0	89%	89%	89%	5.2%	5.4%	5.5%
Immofinanz AG	22.64	31.9	27.9	26.4	0.8	0.8	0.8	24.1	21.5	18.4	56%	62%	64%	3.3%	3.6%	3.7%
Klepierre	30.51	20.0	19.4	18.8	0.8	0.8	0.8	11.9	11.4	11.1	84%	84%	84%	6.9%	7.2%	7.4%
Segro	647.00	33.3	30.2	27.7	1.0	1.0	0.9	29.4	26.6	24.7	75%	75%	78%	0.0%	0.0%	0.0%
Unibail Rodamco SE	190.00	22.2	21.4	20.1	0.9	0.9	0.9	14.8	14.0	13.3	95%	95%	96%	6.0%	6.3%	6.6%
Median		22.2	21.4	20.1	0.8	0.8	0.8	14.8	14.0	13.3	84%	84%	82%	5.2%	5.4%	5.5%

Source: Dom Maklerski mBanku (Polish stocks), IBES/Bloomberg (foreign stocks and stocks marked with an asterisk)

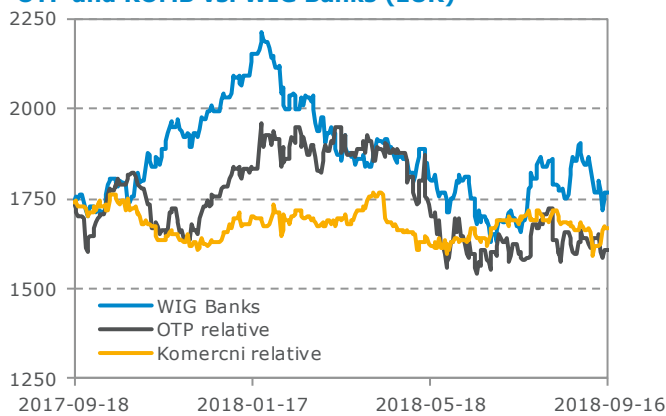
### WIG sector index performance



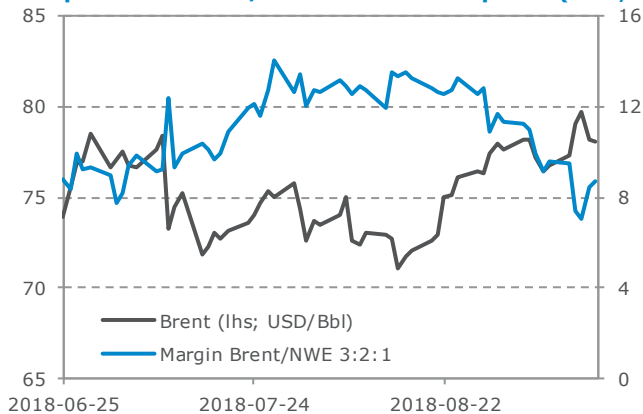
### WIG IT vs. MSCI Europe Software & Services (USD)



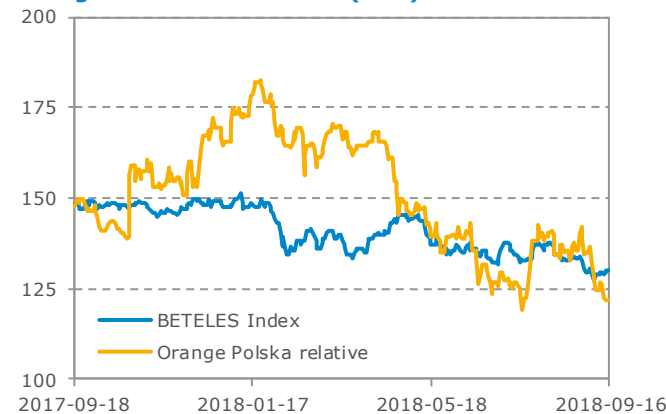
### OTP and KOMB vs. WIG Banks (EUR)



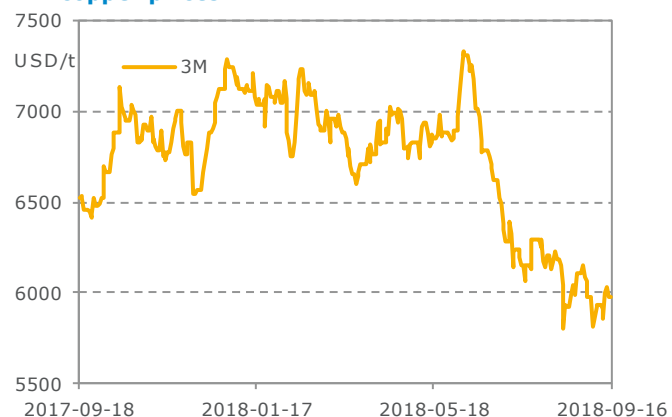
### Brent price and Brent/NWE 3:2:1 crack spread (USD, rhs)



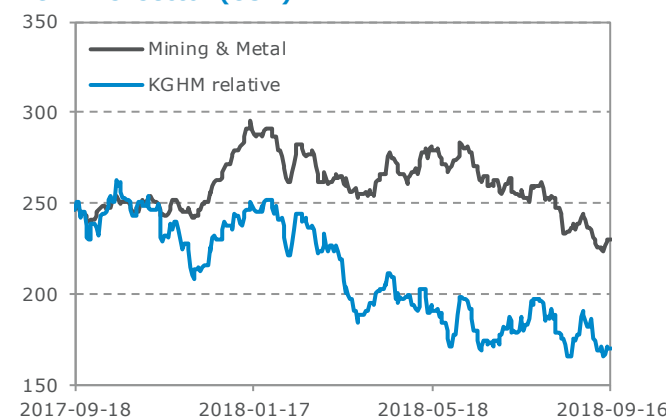
### Orange Polska vs. BETELES (EUR)



### LME copper prices



### KGHM vs. sector (USD)



Source: Bloomberg

## Global Market Overview

Index	Date	Open	Maximum	Minimum	Close	Change
DJIA	2018-09-14	26,169.56	26,211.11	26,068.29	26,154.67	+0.03%
S&P 500	2018-09-14	2,906.38	2,908.30	2,895.77	2,904.98	+0.03%
NASDAQ	2018-09-14	8,026.16	8,040.83	7,979.78	8,010.04	-0.05%
DAX	2018-09-14	12,109.37	12,134.54	12,075.58	12,124.33	+0.57%
CAC 40	2018-09-14	5,353.58	5,362.20	5,338.25	5,352.57	+0.46%
FTSE 100	2018-09-14	7,281.57	7,323.83	7,281.57	7,304.04	+0.31%
WIG20	2018-09-14	2,243.41	2,250.02	2,217.53	2,232.07	-0.06%
BUX	2018-09-14	36,221.18	36,462.73	36,132.10	36,269.17	+0.31%
PX	2018-09-14	1,092.74	1,095.46	1,089.47	1,095.46	+0.25%
RTS	2018-09-14	1,594.91	1,603.84	1,579.59	1,597.32	+0.71%
SOFIX	2018-09-14	630.02	631.00	627.94	629.37	-0.10%
BET	2018-09-14	8,208.79	8,223.39	8,158.51	8,162.69	-0.53%
XU100	2018-09-14	95,319.78	96,298.90	94,377.04	94,759.64	+0.36%
BETELES	2018-09-14	129.71	130.09	129.40	129.82	+0.16%
NIKKEI	2018-09-14	23,035.78	23,105.28	22,965.48	23,094.67	+1.20%
SHCOMP	2018-09-14	2,688.78	2,694.92	2,675.29	2,681.64	-0.18%
Copper (LME)	2018-09-14	5,996.50	6,037.00	5,896.00	5,973.00	-0.99%
Crude Oil (Brent)	2018-09-14	78.44	78.91	77.39	78.16	-0.36%
USD/PLN	2018-09-14	3.6811	3.7080	3.6667	3.7044	+0.64%
EUR/PLN	2018-09-14	4.3032	4.3138	4.2977	4.3062	+0.07%
EUR/USD	2018-09-14	1.1690	1.1722	1.1621	1.1625	-0.56%
USBonds10	2018-09-14	2.9700	3.0014	2.9663	2.9959	+0.0259
GRBonds10	2018-09-14	0.4320	0.4590	0.4230	0.4500	+0.0270
PLBonds10	2018-09-14	3.2260	3.2470	3.2210	3.2320	+0.0050

WIG20 Index



BUX Index



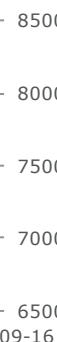
PX Index



S&amp;P 500 (SPX Index)



NASDAQ (CCMP Index)



DOW JONES (INDU Index)



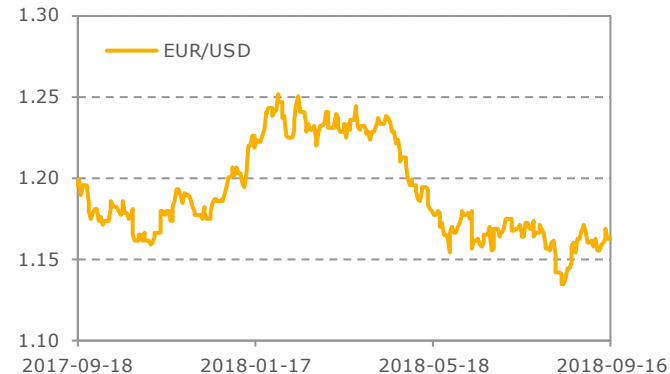
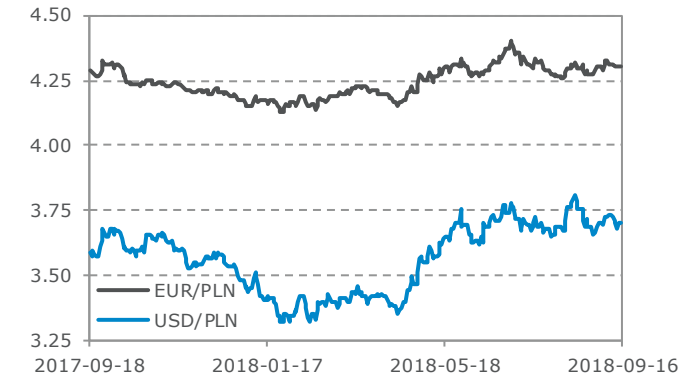
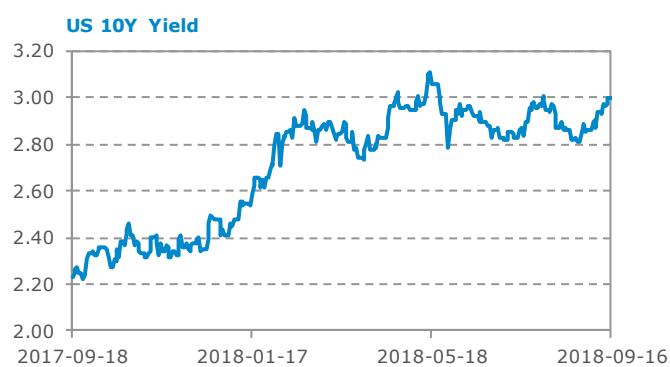
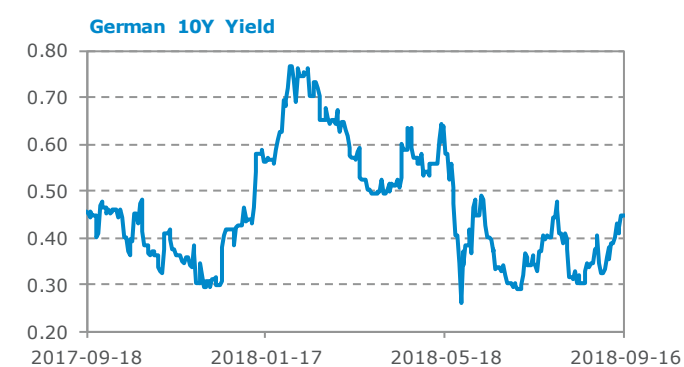
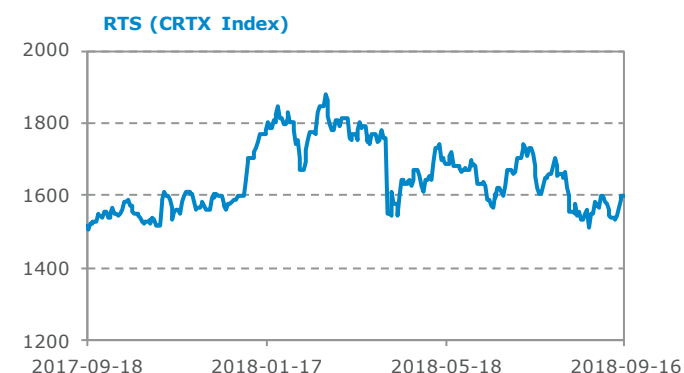
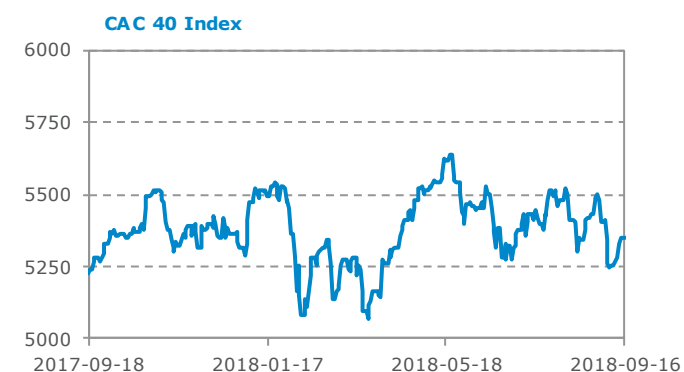
DAX Index



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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A recommendation is valid for a period of 6-9 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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## Strong and weak points of valuation methods used in recommendations:

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

**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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