

## mBank.pl

Tuesday, August 04, 2020 | periodical publication

## **Monthly Market Outlook: August 2020**

#### **Equity Market, Macroeconomics**

#### **Equity Market**

Financial markets are probably headed for a correction in August from the highs of the last few months if economic data undercut expectations and with US-China tensions back in the headlines.

#### **Sector Outlook**

#### **Financials**

The WIG-Banks index slumped 6% in July, in keeping with Stoxx Europe 600 peers, but in August Polish banks could retrace some of the losses with positive earnings surprises assuming the market starts to pay attention to sector results. Elsewhere in Europe, investors took the July coronavirus recovery package deal as an opportunity to take profits on bank stocks. Worthwhile alternatives can be found among other financial institutions, among them PZU and GPW with their expected strong Q2 results.

#### Chemicals

Neither Ciech nor Grupa Azoty can be expected to have improved on the year-ago results in Q2 2020. Looking ahead, in case of the latter a second-half recovery is looking tentative.

#### Mining

KGHM's prospects for the second half of 2020 have improved significantly with an upward shift in markets for copper and silver. On the other hand, JSW continues to struggle with weak demand, though short term its financial standing could temporarily improve thanks to coronavirus aid.

#### Oil & Gas

Refinery profits have not recovered as much as usual with the kick-off of the 2020 travel season, indicating a bleak second-half outlook and no growth potential in downstream companies despite the latest share price declines. By contrast, PGNiG gas has a bright outlook ahead.

#### Telecoms, Media, IT

Telecommunications are a non-cyclical and an increasingly profitable business, and as such the sector is destined for outperformance. Our top telco pick for August is OPL due to strong Q2 results and a potential spin-off of network infrastructure. In Media, we expect underperformance from WPL and AGO on weak second-quarter results. IT retains a positive outlook, and ASE remains our top tech pick despite a nearly-80% share price rise since the beginning of the year.

#### Gaming

Gaming stocks shifted lower in July but later rebounded to end the month flat compared to the end of June. We see more upside potential still in Ten Square Games, and CD Projekt as well could see further gains fueled by Cyberpunk 2077 publicity.

#### **Industrials**

The 2020 Q2 earnings season in the industrials sector is looking better than we had initially anticipated. We see Amica, Cognor, Famur, Forte, and TIM in particular as delivering upside surprises, and we expect disappointing results from Alumetal, Boryszew, and PKP Cargo. As of today we upgrade our calls on COG and FMF to buy.

#### Retail

Stocks in clothing and footwear retailers took a downward turn toward the end of July on a rise in daily coronavirus cases, and at the current level we see LPP and VRG as worthwhile bets for August. Among grocery retailers we prefer EUR and JMT and we would avoid DNP.

#### **Key Ratings**

Positive: AMC, ASE, AST, COG, EUR, FMF, FTE, EBS, LPP, MIL, MOL,

MONET, OPL, PEO, PGN, PZU, SPL, TEN, TIM, VRG

Negative: AML, BRS, DNP, PKP, WPL

| EU Indices      | Value  | 1M chng | YTD chng |
|-----------------|--------|---------|----------|
| WIG             | 51,534 | +1.1%   | -11%     |
| ATX             | 2,155  | -5.0%   | -32%     |
| BUX             | 34,620 | -3.6%   | -25%     |
| PX              | 892    | -4.9%   | -18%     |
| WSE WIG Ind.    | Value  | 1M      | YTD      |
| WIG20           | 1,804  | +0.4%   | -16%     |
| mWIG40          | 3,629  | +0.7%   | -6%      |
| sWIG80          | 14,873 | +7.5%   | +25%     |
| Banking         | 3,864  | -8.9%   | -43%     |
| Basic Materials | 4,009  | +33.9%  | +30%     |
| Chemicals       | 7,781  | -7.1%   | -7%      |
| Clothes         | 4,251  | +7.7%   | -25%     |
| Construction    | 2,952  | +6.0%   | +30%     |
| Energy          | 2,043  | -0.5%   | +4 %     |
| Food            | 2,954  | -3.0%   | -5%      |
| Gaming          | 33,006 | -0.4%   | +77%     |
| IT              | 3,730  | +4.3%   | +32%     |
| Media           | 5,343  | +3.1%   | -1%      |
| Oil & Gas       | 4,671  | -9.5%   | -28%     |
| Telecom         | 877    | +4.4%   | +0 %     |
| Top 5 / Worst 5 |        | 1M      | YTD      |
| Global Cosmed   | 10.40  | +176.6% | +739%    |
| PZ Cormay       | 3.00   | +153.2% | +199%    |
| Work Service    | 1.07   | +133.4% | +104%    |
| ML System       | 97.60  | +88.4%  | +274%    |
| Elemental       | 2.76   | +60.5%  | +30%     |
| Enter Air       | 24.00  | -27.7%  | -45%     |
| Altus TFI       | 0.88   | -31.8%  | -40%     |
| ВАН             | 0.64   | -34.7%  | -36%     |
| Mabion          | 24.70  | -38.0%  | -68%     |
| Elektrobudowa   | 1.49   | -41.1%  | -80%     |

#### Rating & 9M TP Changes as of 4 Aug.

| Name             | Rating       | 9M TP         |
|------------------|--------------|---------------|
| Asseco Poland    | accumulate 🔺 | 68.39 PLN ▶   |
| Cognor           | buy 🔺        | 1.98 PLN ▲    |
| Famur            | buy 🔺        | 2.86 PLN ▲    |
| Jeronimo Martins | accumulate 🔺 | 15.30 EUR ▶   |
| JSW              | hold 🔺       | 16.41 PLN ▲   |
| LPP              | accumulate 🕨 | 7900 PLN 🔺    |
| MOL              | buy 🔺        | 2158.00 HUF > |
| Netia            | hold ▼       | 4.40 PLN ▶    |
| PGNiG            | buy 🕨        | 5.94 PLN ▲    |
| Play             | accumulate ▼ | 35.70 PLN ▶   |
| Santander BP     | buy 🔺        | 179.37 PLN ▶  |



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

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PBA – Profit on Banking Activity
P/CE – price to earnings with amortisation
MC/S – market capitalisation to sales
EBIT/EV – operating profit to economic value
P/E – (Price/Earnings) – price divided by annual net profit per share
ROE – (Return on Equity) – annual net profit divided by average equity
P/BV – (Price/Book Value) – price divided by book value per share
Net debt – credits + debt papers + interest bearing loans – cash and cash equivalents
EBITDA margin – EBITDA/Sales

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

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BUY – we expect that the rate of return from an investment will be at least 15% ACCUMULATE – we expect that the rate of return from an investment will range from 5% to 15% HOLD – we expect that the rate of return from an investment will range from -5% to +5% REDUCE – we expect that the rate of return from an investment will range from -5% to -15% SELL – we expect that an investment will bear a loss greater than 15% Recommendations are updated at least once every nine months.

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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

DCF – acknowledged as the most methodologically correct method of valuation; it consists in discounting financial nows generated by a company, no model.

Comparative – 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.

#### **Comparable Companies Used In Relative Valuation Models**

Activision, Blizzard, CAPCOM, Electronic Arts, Paradox Interactive, Take Two Interactive, Ubisoft Entertainment 11 bit studios

Axel Springer, Cinemark Holdings, Cineworld, Daily Mail&General, IMAX Corp., IC Decaux, Lagardere, Sanoma, Schibsted, Stroeer Media Agora

AmRest Alsea, Autogrill, Chipotle Mexican, Collins Foods, Jack In The Box, McDonalds, Mitchells & Butlers, Starbucks, Texas Roadhouse, Wendy's,

Yum! Brands

Atos, CAP Gemini, Comarch, Computacenter, Fisery, Indra Sistemas, Oracle, Sage Group, SAP, Software AG Asseco Poland

CCC Adidas, Asos, Boohoo.com, Caleries, Crocs, Foot Locker, Geox, Nike, Steven Madden, Tod's, Zalando

Activision. Blizzard. CAPCOM, Electronic Arts, Take Two Interactive, Ubisoft Entertainment **CD Projekt** 

EDF, EDP, Endesa, Enea, Enel, Energa, EON, Innogy, PGE, RWE, Tauron

Akzo Nobel, BASF, Bayer, Ciner Resources, GHCL, Hongda Xindye, Huntsman, ICI Pakistan, MISR Chemical, PCC Rokita, OCI, Qingdao, Ciech

AK Steel, Alumetal, ArcelorMittal, Baoshan Iron & Steel, Commercial Metals, HeSteel, Hitachi Metals, Hyundai Steel, JFE Holdings, JSW Steel, Cognor

Kloeckner & Co, Metalurgica Gerdau, Nippon Yakin Kogyo, Nucor, Olympic Steel, Outokumpu, POSCO, Salzgitter, SSAB, Steel Authority Of

Comarch Asseco Poland, Atos, CAP Gemini, Computacenter, Fiserv INC, Indra Sistemas, Oracle Corp, Sage Group, SAP, Software AG, Tieto

BT Group, Comcast, Deutsche Telekom, Hellenic Telecom, Iliad, Koninklijke KPN, Magyar Telekom, Netia, O2 Czech, Orange, Orange Polska, Cvfrowv Polsat Shaw Communications, Talktalk Telecom, Tele2, Telecom Italia, Telefonica, Telekom Austria, Telenor, Turk Telekomunikasyon, Turkcell

Iletisim Hizmet, Vodafone Group

Dino Carrefour, Eurocash, Jeronimo Martins, Magnit, Metro, O'Key Group, Tesco, X5 Carrefour, Dino, Jeronimo Martins, Magnit, Metro, O'Key Group, Tesco, X5 Eurocash Famur Caterpillar, Epiroc, Komatsu, Sandvik, Weir Group, Metso, Flsmidth

Grupa Azoty Acron, Agrium, CF Industries, Israel Chemicals, K+S, Mosaic, Phosagro, Potash, Yara

Jeronimo Martins BIM, Carrefour, Dino, Eurocash, Magnit, Metro, O'Key, Group, Tesco, X5

Alliance Resource Partners, Arch Coal, Banpu Public, BHP Billiton, Bukin Asam, China Coal, Cloud Peak Energy, Cokal, Henan Shenhou, LW 1SW

Bogdanka, Natural Resource Partners, Peabody Energy, Rio Tinto, Semirara Mining and Power, Shaanxi Heimao, Shanxi Xishan Coal & Elec, Shougang Fushan Resources, Stanmore Coal, Teck Resources, Terracom, Walter Energy, Warrior Met Coal, Yanzhou Coal Mining

Kernel ADM, Andersnons, Astarta, Avangard, Bunge, China Agri Industries, Felda Global, Golden Agri Resources, GrainCorp, IMC, MHP, Milkiland,

Alcoa, Alumetal, Amag, Amcor, Bemis, Century Aluminium, China Hongoiao, Constelium, Fuji Seal, Kaiser Aluminium, Mercor, Midas Holdings, Kety

**KGHM** Anglo American, Antofagasta, BHP Billiton, Boliden, First Quantum Minerals, Freeport-McMoRan, Grupo Mexico, KAZ Minerals, Hudbay,

Kruk Arrow Global, Collection House, Credit Corp, Encore Capital, Intrum, PRA Group

Lotos, MOL Aker BP, Bashneft, BP, ENI, Gazpromneft, Hellenic, Lotos, Lukoil, MOL, Motor Oil, Neste, OMV, OMV Petrom, PKN, Repsol, Rosneft, Saras,

Shell, Statoil, Total, Tullow Oil, Tupras

I PP CCC, H&M, Hugo Boss, Inditex, Marks & Spencer, Next, Tom Tailor

BT Group, Cyfrowy Polsat, Deutsche Telekom, Hellenic Telecom, Koninklijke KPN, Magyar Telekom, Mobile Telesystems, O2 Czech, Orange, Orange Polska, Rostelecom, Telecom Italia, Telefonica, Telekom Austria, Telenor, Turk Telekomunikasyon, Turkcell Iletisim Hizmet, Vodafone Netia

Orange Polska BT Group, Cyfrowy Polsat, Deutsche Telekom, Hellenic Telecom, Koninklijke KPN, Magyar Telekom, Mobile Telesystems, Netia, O2 Czech,

A2A, BP, Centrica, Enagas, Endesa, Enea, Energa, Engie, ENI, EON, Galp Energia, Gas Natural, Gazprom, Hera, MOL, Novatek, OMV, Red **PGNiG** 

**PKN Orlen** Braskem, Dow Chemical, Eastman, Formosa Plastics, Hellenic Petroleum, Huntsman, Lotos, Lotte, Lyondellbasell, Mitsubishi, Mitsui

PKP Cargo

Aurizon Holdings, Canadian National Railway, Canadian Pacific Railway, Center for Cargo Container, China Railway Group, China Railway Tielong Container Logistics, CSX Corp, Daqin Railway, Global Ports Holding, Globaltrans Investment, Hamburger Hafen und Logistik, Hub Group, Kansas City Southern, Kuehne + Nagel International, Log-In Logistica Intermodal, Nikkon Holdings, Norfolk Southern Corp, Rumo,

Tidewater Midstream, Union Pacific Corp

BT Group, Cyfrowy Polsat, Deutsche Telekom, Hellenic Telecom, Koninklijke KPN, Magyar Telekom, Netia, O2 Czech, Orange, Orange Belgium, Orange Polska, TalkTalk, Telecom Italia, Telefonica, Telekom Austria, Telenor, Turk Telekomunikasyon, Turkcell Iletisim Hizmet, Vimpel, Vodafone Group Play

Skarbiec Holding Affilated Managers, AllianceBernstein, Ashmore Group, Blackrock, Brewin Dolphin, Eaton Vance Mgmt, Franklin Resources, GAM Holding,

Stelmet AFG Arbonia, Canfor, Century Plyboards, Deceuninck, Duratex, Forte, Greenply Industries, Interfor, Inwido, Louisiana Pacific, Nobia,

**Ten Square Games** Nexon, NetEase, IGG, Gree, NHN, Naver, Koei, Wuhu, Tencent, Zynga

Wirtualna Polska eBay, Facebook, Google, Mail.ru, Sina, Yahoo Japan, Yandex

VRG CCC, Chow Sang, Chow Tai Fook, H&M, Hugo Boss, Inditex, Lao Fen Xiang, Lao Feng, LPP, Luk Fook, Marks & Spencer, Next, Pandora, Tiffany

VRG CCC, Chow Sang, Chow Tai Fook, H&M, Hugo Boss, Inditex, Lao Fen Xiang, Lao Feng, LPP, Luk Fook, Marks & Spencer, Next, Pandora, Tiffany

#### o This Publication

| Recommen            | dations    | Issued 1   | n the 12   | Months     | Prior To   | This Pub    |
|---------------------|------------|------------|------------|------------|------------|-------------|
| 11 bit studios      |            |            |            |            |            |             |
| Rating              | hold       | hold       | hold       | buy        | buy        |             |
| Rating date         | 2020-06-03 | 2020-05-05 | 2020-02-05 | 2019-12-05 | 2019-11-06 |             |
| Target price (PLN)  | 476.00     | 422.00     | 439.00     | 454.00     | 483.00     |             |
| Price on rating day | 475.00     | 408.50     | 440.00     | 360.50     | 332.00     |             |
|                     |            |            |            |            |            |             |
| AC                  |            |            |            |            |            |             |
| Rating              | neutral    | neutral    | neutral    | neutral    | neutral    | underweight |
| Rating date         | 2020-06-29 | 2020-05-21 | 2020-04-01 | 2019-12-05 | 2019-10-30 | 2019-08-30  |
| Target price (PLN)  | -          | -          | -          | -          | -          | -           |
| Price on rating day | 38.50      | 36.50      | 39.00      | 43.20      | 41.00      | 43.60       |
|                     |            |            |            |            |            |             |
| Agora               |            |            |            | _          |            |             |
| Rating              | hold       | accumulate | buy        |            |            |             |
| Rating date         | 2020-06-03 | 2020-04-15 | 2019-10-30 |            |            |             |
| Target price (PLN)  | 8.60       | 8.60       | 17.00      |            |            |             |
| Price on rating day | 8.36       | 7.74       | 9.50       | _          |            |             |

| Ratilly             | IIOIG      | accumulacc | buy        |
|---------------------|------------|------------|------------|
| Rating date         | 2020-06-03 | 2020-04-15 | 2019-10-30 |
| Target price (PLN)  | 8.60       | 8.60       | 17.00      |
| Price on rating day | 8.36       | 7.74       | 9.50       |
|                     |            |            |            |

| Ailleron            |            |            |            |
|---------------------|------------|------------|------------|
| Rating              | neutral    | neutral    | neutral    |
| Rating date         | 2020-05-05 | 2020-02-28 | 2019-10-31 |
| Target price (PLN)  | -          | -          | -          |
| Brico on rating day | 6.26       | 6 34       | 7 16       |

| Alior Bank         |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|
| Rating             | hold       | buy        | buy        | buy        | hold       |
| Rating date        | 2020-06-03 | 2020-04-16 | 2020-03-30 | 2020-02-21 | 2019-11-06 |
| Target price (PLN) | 14.98      | 21.00      | 24.72      | 30.50      | 31.00      |
|                    | 15 10      | 16 45      | 12.00      | 26 62      | 20.24      |

| Alumetal            |            |            |            |            |            |            |            |            |             |
|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Rating              | underweigl | ht neutral | neutral    | neutral    | neutral    | neutral    | neutral    | neutral    | underweight |
| Rating date         | 2020-07-30 | 2020-06-29 | 2020-05-21 | 2020-04-01 | 2020-02-27 | 2020-01-30 | 2019-12-05 | 2019-10-07 | 2019-08-30  |
| Target price (PLN)  | -          | -          | -          | -          | -          | -          | -          | -          | -           |
| Price on rating day | 38.00      | 40.10      | 37.00      | 34.60      | 43.50      | 42.80      | 39.30      | 35.40      | 34.50       |

| Amica<br>Rating     | overweight | neutral    | neutral    | neutral    | neutral    |
|---------------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-07-30 | 2020-06-29 | 2020-04-01 | 2019-12-05 | 2019-09-20 |
| Target price (PLN)  | -          | -          | -          | -          | -          |
| Price on rating day | 145.00     | 120.00     | 84.30      | 133.20     | 118.00     |
| Price on rating day | 143.00     | 120.00     | 04.30      | 155.20     | 110.00     |
| AmRest              |            |            |            |            |            |

| Annese              |            |            |            |            |
|---------------------|------------|------------|------------|------------|
| Rating              | hold       | hold       | hold       | accumulate |
| Rating date         | 2020-03-04 | 2019-12-05 | 2019-11-06 | 2019-10-07 |
| Target price (PLN)  | 40.00      | 47.00      | 48.00      | 48.00      |
| Price on rating day | 39.55      | 46.35      | 47.20      | 44.05      |
|                     |            |            |            |            |

| Apator              |            |            |            |            |            |            |            |
|---------------------|------------|------------|------------|------------|------------|------------|------------|
| Rating              | neutral    | neutral    | neutral    | neutral    | neutral    | underweig  | ht neutral |
| Rating date         | 2020-06-29 | 2020-04-01 | 2020-03-04 | 2020-01-30 | 2019-12-05 | 2019-10-18 | 2019-09-20 |
| Target price (PLN)  | -          | -          | -          | -          | -          | -          | -          |
| Price on rating day | 20.80      | 16.20      | 20.00      | 20.70      | 21.10      | 22.00      | 22.60      |

| Asseco BS           |                          |                        |                        |                        |
|---------------------|--------------------------|------------------------|------------------------|------------------------|
| Rating              | neutral                  | neutral                | overweight             | neutral                |
| Rating date         | 2020-05-05               | 2020-04-23             | 2020-01-30             | 2019-12-05             |
| Target price (PLN)  | -                        | -                      | -                      | -                      |
| Price on rating day | 35.80                    | 35.80                  | 32.60                  | 27.60                  |
|                     |                          |                        |                        |                        |
| Asseco Poland       |                          |                        |                        |                        |
| ADDUCT CHAILE       |                          |                        |                        |                        |
| Rating              | accumulate               | hold                   | hold                   | hold                   |
|                     | accumulate<br>2020-08-04 | <b>hold</b> 2020-06-03 | <b>hold</b> 2020-05-05 | <b>hold</b> 2019-12-05 |

| Price on rating day   | 66.50                        | /2.60                    | 64. /0                   | 57.35                    |
|-----------------------|------------------------------|--------------------------|--------------------------|--------------------------|
|                       |                              |                          |                          |                          |
| Asseco SEE            |                              |                          |                          |                          |
|                       |                              |                          |                          |                          |
| Rating                | overweight                   | overweight               | overweight               | overweight               |
| Rating<br>Rating date | <b>overweight</b> 2020-05-05 | overweight<br>2020-02-28 | overweight<br>2019-12-05 | overweight<br>2019-10-10 |

| Pating data         | 2020-05-11 | 2020-04-01 | 2020-01-30 | 2019-12-05 | 2019-10-30 | 2019-09-05 |
|---------------------|------------|------------|------------|------------|------------|------------|
| Rating              | overweight | overweight | overweight | overweight | overweight | overweight |
| Astarta             |            |            |            |            |            |            |
| Price on rating day | 31.40      | 28.80      | 25.60      | 19.40      | -          |            |
| ranger price (FLIV) |            |            |            |            |            |            |

| Rating              | overweight | overweight | overweight | overweight | overweight | overweigh  |
|---------------------|------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-05-11 | 2020-04-01 | 2020-01-30 | 2019-12-05 | 2019-10-30 | 2019-09-05 |
| Target price (PLN)  | -          | -          | -          | -          | -          | -          |
| Price on rating day | 11.75      | 11.50      | 15.90      | 15.90      | 16.85      | 23.00      |
| Atal                |            |            |            |            |            |            |
| Rating              | suspended  | accumulate | buy        |            |            |            |
| Rating date         | 2020-04-02 | 2020-02-05 | 2019-12-05 |            |            |            |
| Target price (PLN)  | -          | 44.28      | 44.90      |            |            |            |
| Price on rating day | 24.40      | 39.80      | 37.20      | _          |            |            |
| Atende              |            |            |            | _          |            |            |
| Rating              | neutral    | neutral    | neutral    |            |            |            |
| Rating date         | 2020-05-05 | 2019-12-05 | 2019-10-31 |            |            |            |
| Target price (PLN)  | -          | -          | -          |            |            |            |
|                     |            |            |            |            |            |            |

|                         |            |             | neutral     |            |            |            |
|-------------------------|------------|-------------|-------------|------------|------------|------------|
| Rating date 202         | 20-05-05 2 | 2019-12-05  | 2019-10-31  |            |            |            |
| Target price (PLN) -    | -          | -           | -           |            |            |            |
| Price on rating day 2.9 | 94 3       | 3.06        | 3.14        |            |            |            |
| Boryszew                |            |             |             |            |            |            |
|                         | nderweight | underweight | underweight | neutral    | neutral    | underweigh |
|                         | 20-06-08 2 | 2020-04-01  | 2020-01-30  | 2019-12-05 | 2019-10-30 | 2019-09-20 |
| Target price (PLN) -    | -          |             | -           | -          | -          | -          |
| Price on rating day 3.5 | 59 3       | 3.74        | 4.54        | 4.09       | 4.29       | 4.54       |

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| ccc  |   |   |   |   |   |  |   |                     |                  |
|--|---|---|---|---|---|--|---|---------------------|------------------|
| Rating   | suspended   | buy   | buy   | buy   | buy   | _  |   |                     |                  |
| Rating date  | 2020-03-19  | 2020-02-21  | 2019-12-05  | 2019-11-06  | 2019-09-05  |  |   |                     |                  |
| Target price (PLN) Price on rating day   | 24.98   | 135.00<br>94.00   | 157.00<br>108.10  | 160.00<br>112.20  | 161.00<br>131.90  |  |   |                     |                  |
|  |   |   |   |   |   | _  |   |                     |                  |
| CD Projekt<br>Rating   | hold  | hold  | hold  | accumulate  | accumulate  | accumulate   | -                                       |                     |                  |
| Rating date  | 2020-06-03  | 2020-05-05  | 2020-02-05  | 2019-12-05  | 2019-11-06  | 2019-09-05   |   |                     |                  |
| Target price (PLN)   | 388.10  | 342.50  | 284.20  | 281.30  | 276.40  | 272.50   |   |                     |                  |
| Price on rating day  | 388.20  | 357.90  | 305.00  | 260.30  | 255.20  | 251.30   | •                                       |                     |                  |
| CEZ  |   |   | h   | h   | _   |  |   |                     |                  |
| Rating<br>Rating date  | accumulate<br>2020-06-03  | accumulate<br>2020-05-05  | <b>buy</b><br>2020-02-20  | <b>buy</b><br>2019-12-05  |   |  |   |                     |                  |
| Target price (CZK)   | 514.80  | 527.86  | 592.91  | 597.80  |   |  |   |                     |                  |
| Price on rating day  | 489.00  | 451.00  | 503.00  | 502.00  | _   |  |   |                     |                  |
| Ciech  |   |   |   |   |   |  |   |                     |                  |
| Rating   | <b>hold</b><br>2020-07-02   | <b>hold</b><br>2020-05-29   | <b>buy</b><br>2020-04-14  | <b>buy</b><br>2020-02-13  | <b>buy</b><br>2019-12-05  | <b>buy</b><br>2019-09-05   |   |                     |                  |
| Rating date<br>Target price (PLN)  |   | 38.94   | 45.14   | 47.46   | 44.41   | 42.03  |   |                     |                  |
| Price on rating day  | 32.30   | 39.25   | 31.80   | 39.40   | 36.40   | 34.00  | -                                       |                     |                  |
| Cognor   |   |   |   |   |   |  | _                                       |                     |                  |
| Rating   | buy   | hold  | hold  | hold  | hold  | accumulate   |   |                     |                  |
| Rating date<br>Target price (PLN)  | 2020-08-04<br>1.98  | 2020-04-22<br>0.94  | 2019-12-06<br>1.25  | 2019-12-05<br>1.25  | 2019-11-04<br>1.55  | 2019-09-05<br>2.00   |   |                     |                  |
| Price on rating day  |   | 0.95  | 1.20  | 1.17  | 1.52  | 1.65   | _                                       |                     |                  |
| Comarch  |   |   |   |   |   |  |   |                     |                  |
| Rating   | hold  | buy   | -   |   |   |  |   |                     |                  |
| Rating date  | 2020-05-13  | 2019-11-25  |   |   |   |  |   |                     |                  |
| Target price (PLN) Price on rating day   |   | 250.00<br>189.50  | _   |   |   |  |   |                     |                  |
| Cyfrowy Polsat   |   |   | _   |   |   |  |   |                     |                  |
| Rating   | hold  | hold  | reduce  | _   |   |  |   |                     |                  |
| Rating date  | 2020-04-01  | 2020-03-04  | 2019-11-14  |   |   |  |   |                     |                  |
| Target price (PLN)<br>Price on rating day  |   | 26.10<br>26.24  | 26.10<br>28.86  |   |   |  |   |                     |                  |
|  |   |   |   | _   |   |  |   |                     |                  |
| Dino<br>Rating   | sell  | reduce  | reduce  | hold  | reduce  | accumulate   | hold                                    | sell                | sell             |
| Rating date  | 2020-07-02  | 2020-06-03  | 2020-05-05  | 2020-03-04  | 2020-02-05  | 2019-11-25   | 2019-08-23                              | 2019-08-13          | 2019-08-02       |
| Target price (PLN)   |   | 155.60  | 151.60  | 152.30<br>155.00  | 149.70<br>164.70  | 148.60   | 149.20                                  | 111.20<br>135.90    | 112.70<br>143.80 |
| Price on rating day  | 199.10  | 185.70  | 173.70  | 133.00  | 104.70  | 134.00   | 149.60                                  | 133.90              | 143.00           |
| Dom Developme  |   | hald  | hald  | _   |   |  |   |                     |                  |
| Rating<br>Rating date  | <b>suspended</b> 2020-04-02   | <b>hold</b><br>2019-12-05   | <b>hold</b><br>2019-09-05   |   |   |  |   |                     |                  |
| Target price (PLN)   | -   | 88.92   | 81.10   |   |   |  |   |                     |                  |
| Price on rating day  | 68.40   | 93.00   | 84.00   | _   |   |  |   |                     |                  |
| Enea   |   |   |   | _   |   |  |   |                     |                  |
| Rating<br>Rating date  | <b>suspended</b> 2020-06-23   | <b>suspended</b><br>2020-02-27  | <b>buy</b><br>2019-11-06  |   |   |  |   |                     |                  |
| Target price (PLN)   | -   | -   | 11.53   |   |   |  |   |                     |                  |
| Price on rating day  | 7.90  | 6.00  | 8.59  | _   |   |  |   |                     |                  |
| Energa   |   |   |   | _   |   |  |   |                     |                  |
| Rating   | suspended<br>2020-06-03   | <b>suspended</b><br>2020-02-27  | <b>buy</b><br>2019-11-06  |   |   |  |   |                     |                  |
| Rating date<br>Target price (PLN)  | -   | -   | 11.67   |   |   |  |   |                     |                  |
| Price on rating day  | 8.19  | 7.36  | 6.37  | _   |   |  |   |                     |                  |
| Ergis  |   |   |   | _   |   |  |   |                     |                  |
| Rating   | suspended   | neutral   | neutral   | _   |   |  |   |                     |                  |
| Rating date<br>Target price (PLN)  | 2019-12-05  | 2019-10-30  | 2019-08-30  |   |   |  |   |                     |                  |
| Price on rating day  |   | 3.20  | 2.48  | _   |   |  |   |                     |                  |
| Erste Group  |   |   |   |   |   |  |   |                     |                  |
| Rating   | buy   | accumulate  | buy   | _   |   |  |   |                     |                  |
| Rating date<br>Target price (EUR)  | 2020-03-04<br>36.61   | 2019-12-05<br>36.61   | 2019-08-28<br>40.38   |   |   |  |   |                     |                  |
| Price on rating day  |   | 32.20   | 30.03   | _   |   |  |   |                     |                  |
|  |   |   |   |   |   |  |   |                     |                  |
| Furncash   |   |   |   |   | reduce  | sell   | reduce                                  | hold                | _                |
| Eurocash<br>Rating   | buy   | accumulate  | hold  | hold  |   |  |   | IIOIG               |                  |
| <b>Rating</b><br>Rating date   | 2020-07-02  | 2020-06-03  | 2020-05-05  | 2020-02-05  | 2019-11-25  | 2019-11-06   | 2019-09-05                              | 2019-08-02          |                  |
| <b>Rating</b><br>Rating date<br>Target price (PLN)   | 2020-07-02<br>19.90   |   |   |   |   | 2019-11-06<br>18.10<br>23.80   | 2019-09-05<br>18.10<br>20.62            |                     |                  |
| Rating<br>Rating date<br>Target price (PLN)<br>Price on rating day   | 2020-07-02<br>19.90   | 2020-06-03<br>19.90   | 2020-05-05<br>20.50   | 2020-02-05<br>19.80   | 2019-11-25<br>19.80   | 18.10  | 18.10                                   | 2019-08-02<br>18.10 | -                |
| Rating<br>Rating date<br>Target price (PLN)<br>Price on rating day<br>Famur  | 2020-07-02<br>19.90<br>17.34  | 2020-06-03<br>19.90<br>18.50  | 2020-05-05<br>20.50<br>21.10  | 2020-02-05<br>19.80<br>19.94  | 2019-11-25<br>19.80<br>22.22  | 18.10<br>23.80   | 18.10                                   | 2019-08-02<br>18.10 | _                |
| Rating Rating date Target price (PLN) Price on rating day Famur Rating   | 2020-07-02<br>19.90   | 2020-06-03<br>19.90<br>18.50<br><b>hold</b><br>2020-04-30   | 2020-05-05<br>20.50<br>21.10<br><b>buy</b><br>2020-03-04                                      | 2020-02-05<br>19.80<br>19.94<br><b>buy</b><br>2019-12-05  | 2019-11-25<br>19.80<br>22.22<br><b>buy</b><br>2019-08-07  | 18.10<br>23.80<br><b>buy</b><br>2019-08-02   | 18.10                                   | 2019-08-02<br>18.10 | -                |
| Rating Rating date Target price (PLN) Price on rating day Famur Rating Rating date Target price (PLN)  | 2020-07-02<br>19.90<br>17.34<br><b>buy</b><br>2020-08-04<br>2.86  | 2020-06-03<br>19.90<br>18.50<br><b>hold</b><br>2020-04-30<br>2.20   | 2020-05-05<br>20.50<br>21.10<br><b>buy</b><br>2020-03-04<br>4.58                              | 2020-02-05<br>19.80<br>19.94<br><b>buy</b><br>2019-12-05<br>5.18  | 2019-11-25<br>19.80<br>22.22<br><b>buy</b><br>2019-08-07<br>5.33  | 18.10<br>23.80<br><b>buy</b><br>2019-08-02<br>6.71   | 18.10                                   | 2019-08-02<br>18.10 | -                |
| Rating Rating date Target price (PLN) Price on rating day Famur Rating Rating date Target price (PLN)  | 2020-07-02<br>19.90<br>17.34<br><b>buy</b><br>2020-08-04<br>2.86  | 2020-06-03<br>19.90<br>18.50<br><b>hold</b><br>2020-04-30   | 2020-05-05<br>20.50<br>21.10<br><b>buy</b><br>2020-03-04                                      | 2020-02-05<br>19.80<br>19.94<br><b>buy</b><br>2019-12-05  | 2019-11-25<br>19.80<br>22.22<br><b>buy</b><br>2019-08-07  | 18.10<br>23.80<br><b>buy</b><br>2019-08-02   | 18.10                                   | 2019-08-02<br>18.10 | -                |
| Rating Rating date Target price (PLN) Price on rating day  Famur Rating Rating date Target price (PLN) Price on rating day  Forte  | 2020-07-02<br>19.90<br>17.34<br><b>buy</b><br>2020-08-04<br>2.86<br>1.70                                    | 2020-06-03<br>19.90<br>18.50<br><b>hold</b><br>2020-04-30<br>2.20<br>2.08                                 | 2020-05-05<br>20.50<br>21.10<br><b>buy</b><br>2020-03-04<br>4.58<br>2.73                      | 2020-02-05<br>19.80<br>19.94<br><b>buy</b><br>2019-12-05<br>5.18<br>2.98                                      | 2019-11-25<br>19.80<br>22.22<br><b>buy</b><br>2019-08-07<br>5.33<br>4.42                                      | 18.10<br>23.80<br><b>buy</b><br>2019-08-02<br>6.71<br>4.47                                   | 18.10<br>20.62                          | 2019-08-02<br>18.10 | -                |
| Rating Rating date Target price (PLN) Price on rating day  Famur Rating Rating date Target price (PLN) Price on rating day   | 2020-07-02<br>19.90<br>17.34<br><b>buy</b><br>2020-08-04<br>2.86  | 2020-06-03<br>19.90<br>18.50<br><b>hold</b><br>2020-04-30<br>2.20   | 2020-05-05<br>20.50<br>21.10<br><b>buy</b><br>2020-03-04<br>4.58<br>2.73                      | 2020-02-05<br>19.80<br>19.94<br><b>buy</b><br>2019-12-05<br>5.18  | 2019-11-25<br>19.80<br>22.22<br><b>buy</b><br>2019-08-07<br>5.33<br>4.42                                      | 18.10<br>23.80<br><b>buy</b><br>2019-08-02<br>6.71<br>4.47                                   | 18.10                                   | 2019-08-02<br>18.10 | -                |
| Rating date Target price (PLN) Price on rating day  Famur Rating Rating date Target price (PLN) Price on rating day  Forte Rating Rating date Target price (PLN) Rating Rating date Target price (PLN) | 2020-07-02<br>19.90<br>17.34<br><b>buy</b><br>2020-08-04<br>2.86<br>1.70<br><b>overweight</b><br>2020-06-29 | 2020-06-03<br>19.90<br>18.50<br><b>hold</b><br>2020-04-30<br>2.20<br>2.08<br><b>neutral</b><br>2020-05-21 | 2020-05-05<br>20.50<br>21.10<br>buy<br>2020-03-04<br>4.58<br>2.73<br>underweigh<br>2020-04-01 | 2020-02-05<br>19.80<br>19.94<br><b>buy</b><br>2019-12-05<br>5.18<br>2.98<br><b>t underweigh</b><br>2020-03-20 | 2019-11-25<br>19.80<br>22.22<br><b>buy</b><br>2019-08-07<br>5.33<br>4.42<br><b>t underweigh</b><br>2020-01-30 | 18.10<br>23.80<br><b>buy</b><br>2019-08-02<br>6.71<br>4.47<br><b>t neutral</b><br>2019-12-05 | 18.10<br>20.62<br>neutral<br>2019-09-20 | 2019-08-02<br>18.10 | -                |
| Rating Rating date Target price (PLN) Price on rating day Famur Rating Rating date Target price (PLN) Price on rating day Forte Rating Rating Rating   | 2020-07-02<br>19.90<br>17.34<br><b>buy</b><br>2020-08-04<br>2.86<br>1.70<br><b>overweight</b><br>2020-06-29 | 2020-06-03<br>19.90<br>18.50<br>hold<br>2020-04-30<br>2.20<br>2.08  | 2020-05-05<br>20.50<br>21.10<br><b>buy</b><br>2020-03-04<br>4.58<br>2.73                      | 2020-02-05<br>19.80<br>19.94<br><b>buy</b><br>2019-12-05<br>5.18<br>2.98                                      | 2019-11-25<br>19.80<br>22.22<br><b>buy</b><br>2019-08-07<br>5.33<br>4.42<br><b>t underweigh</b>               | 18.10<br>23.80<br><b>buy</b><br>2019-08-02<br>6.71<br>4.47                                   | 18.10<br>20.62                          | 2019-08-02<br>18.10 | -                |

| - | n | ۸ | A | ı |
|---|---|---|---|---|

| Rating              | hold       | buy        |
|---------------------|------------|------------|
| Rating date         | 2020-05-20 | 2020-01-16 |
| Target price (PLN)  | 41.56      | 47.82      |
| Price on rating day | 40.00      | 40.85      |

#### Grupa Azot

| Rating              | hold       | hold       | buy        | buy        | buy        | hold       | hold       | hold       | hold       | hold       |
|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-07-02 | 2020-04-17 | 2020-03-04 | 2020-02-06 | 2020-02-05 | 2019-12-05 | 2019-11-06 | 2019-10-07 | 2019-09-05 | 2019-08-02 |
| Target price (PLN)  | 29.90      | 28.42      | 30.55      | 30.31      | 30.31      | 32.75      | 37.12      | 34.09      | 39.77      | 45.93      |
| Price on rating day | 30.45      | 28.00      | 22.24      | 27.50      | 26.10      | 30.00      | 36.58      | 31.18      | 39.98      | 42.30      |

#### Handlowy

| Rating              | hold       | hold       | hold       | accumulate | accumulate |
|---------------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-06-03 | 2020-04-16 | 2020-03-30 | 2020-02-27 | 2019-12-05 |
| Target price (PLN)  | 37.64      | 39.86      | 45.66      | 63.46      | 57.44      |
| Price on rating day | 38.00      | 39.50      | 44.00      | 55.90      | 51.70      |

#### Impexmetal

Rating suspended
Rating date 2019-08-30
Target price (PLN) Price on rating day 4.22

#### ING BSK

| Rating              | sell       | sell       | sell       | sell       | hold       | hold       | accumulate | hold       |
|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-06-03 | 2020-04-16 | 2020-03-30 | 2020-02-04 | 2019-12-05 | 2019-10-07 | 2019-09-05 | 2019-08-02 |
| Target price (PLN)  | 117.78     | 114.14     | 126.36     | 170.00     | 187.77     | 197.53     | 197.53     | 191.80     |
| Price on rating day | 145.20     | 141.00     | 153.80     | 202.00     | 190.80     | 194.80     | 187.40     | 189.80     |

#### Jeronimo Martins

| Rating              | accumulate | hold       | hold       | hold       | reduce     |
|---------------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-08-04 | 2020-06-03 | 2020-02-05 | 2019-10-07 | 2019-09-05 |
| Target price (EUR)  | 15.30      | 15.30      | 16.30      | 14.30      | 14.30      |
| Price on rating day | 14.29      | 15.46      | 15.78      | 14.92      | 15.88      |

#### JSW

| Rating              | hold       | sell       | hold       | hold       | hold       | buy        | buy        |
|---------------------|------------|------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-08-04 | 2020-03-27 | 2020-03-04 | 2020-02-05 | 2020-01-20 | 2019-12-05 | 2019-09-05 |
| Target price (PLN)  | 16.41      | 9.78       | 15.34      | 18.41      | 23.32      | 28.04      | 39.29      |
| Price on rating day | 17.40      | 12.85      | 15.15      | 19.78      | 22.68      | 18.80      | 26.50      |

#### Kernel

| Rating              | hold       | hold       | hold       | reduce     | reduce     |
|---------------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-06-03 | 2020-02-05 | 2019-12-05 | 2019-10-07 | 2019-08-19 |
| Target price (PLN)  | 44.58      | 47.25      | 41.60      | 40.76      | 42.70      |
| Price on rating day | 43.80      | 47.20      | 41.20      | 42.90      | 48.60      |

#### Grupa Kęty

| Rating              | hold       |
|---------------------|------------|------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-06-25 | 2020-04-07 | 2020-03-04 | 2019-12-05 | 2019-11-06 | 2019-10-07 | 2019-09-05 |
| Target price (PLN)  | 453.70     | 335.96     | 360.29     | 335.44     | 333.45     | 298.64     | 327.11     |
| Price on rating day | 432.00     | 339.00     | 381.00     | 338.50     | 313.50     | 283.00     | 310.00     |

#### KGHM

| Rating              | hold       | sell       | sell       | reduce     | hold       | reduce     | hold       | hold       | accumulate | accumulate | hold       | reduce     |
|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-07-29 | 2020-06-03 | 2020-05-05 | 2020-03-24 | 2020-03-04 | 2020-02-05 | 2019-12-05 | 2019-11-08 | 2019-11-06 | 2019-10-14 | 2019-08-22 | 2019-08-05 |
| Target price (PLN)  | 124.67     | 62.94      | 46.83      | 46.83      | 76.92      | 86.33      | 85.54      | 96.13      | 96.14      | 90.12      | 77.51      | 80.38      |
| Price on rating day | 129.45     | 88.10      | 74.00      | 54.64      | 77.82      | 96.44      | 88.66      | 96.70      | 91.64      | 79.92      | 74.90      | 87.78      |
|                     |            |            |            |            |            |            |            |            |            |            |            |            |

#### Komercni Banka

| Rating              | buy        | buy        | accumulate |
|---------------------|------------|------------|------------|
| Rating date         | 2019-12-05 | 2019-08-28 | 2019-08-02 |
| Target price (CZK)  | 928.20     | 945.02     | 1000.00    |
| Price on rating day | 792.00     | 817.00     | 872.00     |

#### Kruk

Rating buy
Rating date 2019-12-05
Target price (PLN) 210.31
Price on rating day 150.90

#### Kruszwica

| Rating              | neutral    | overweight | overweight | overweight | overweight | overweight | overweight |
|---------------------|------------|------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-06-29 | 2020-05-21 | 2020-05-13 | 2020-01-30 | 2019-12-05 | 2019-10-07 | 2019-09-20 |
| Target price (PLN)  | -          | -          | -          | -          | -          | -          | -          |
| Price on rating day | 60.40      | 59.00      | 54.80      | 52.20      | 45.80      | 44.40      | 43.00      |

#### Lotos

| Rating              | hold       | hold       | reduce     | hold       | reduce     | reduce     | sell       |
|---------------------|------------|------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-07-02 | 2020-06-03 | 2020-04-07 | 2020-03-04 | 2020-02-05 | 2019-12-05 | 2019-08-02 |
| Target price (PLN)  | 55.87      | 60.39      | 59.22      | 67.19      | 68.47      | 77.80      | 72.31      |
| Price on rating day | 60.14      | 60.52      | 65.10      | 61.06      | 76.78      | 85.20      | 88.66      |

#### LPP

| Rating              | accumulate | accumulate | hold       | hold       | buy        | buy        | buy        | hold       | buy        |
|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-08-04 | 2020-07-02 | 2020-06-03 | 2020-05-05 | 2020-03-24 | 2020-02-05 | 2019-12-05 | 2019-10-07 | 2019-09-05 |
| Target price (PLN)  | 7,900.00   | 6,900.00   | 6,900.00   | 5,800.00   | 5,800.00   | 10,100.00  | 10,100.00  | 8,500.00   | 8,500.00   |
| Price on rating day | 7,105.00   | 6,110.00   | 6,980.00   | 6,075.00   | 4,902.00   | 8,610.00   | 8,575.00   | 7,950.00   | 7,280.00   |

#### Mangata

| Rating              | neutral    | neutral    | neutral    | neutral    |
|---------------------|------------|------------|------------|------------|
| Rating date         | 2020-06-29 | 2020-04-01 | 2019-12-05 | 2019-09-20 |
| Target price (PLN)  | -          | -          | -          | -          |
| Price on rating day | 50.50      | 50.00      | 72.00      | 66.00      |

# mBank.pl

| Millennium<br>Rating   | buy   | hold  | buy   | hold  | reduce   | hold  | sell   | reduce   | buy                         | _                       |
|--|---|---|---|---|--|---|--|--|-----------------------------|-------------------------|
| Rating date<br>Target price (PLN)<br>Price on rating day   |   | 2020-04-16<br>3.38<br>3.28  | 2020-03-30<br>4.06<br>3.30  | 2020-03-04<br>5.47<br>5.06  | 2020-02-05<br>5.47<br>5.91   | 2019-12-05<br>5.47<br>5.49  | 2019-11-06<br>5.18<br>6.40   | 2019-10-07<br>5.18<br>5.48   | 2019-08-02<br>10.00<br>7.51 | _                       |
| MOL  |   |   |   |   |  |   |  |  |                             |                         |
| <b>Rating</b><br>Rating date   | <b>buy</b><br>2020-08-04  | accumulate<br>2020-07-02  | hold<br>2020-06-03  | hold<br>2020-03-31  | accumulate<br>2020-03-04   | accumulate<br>2020-02-05  | accumulate<br>2019-11-27   | accumulate<br>2019-11-06   | <b>buy</b><br>2019-10-07    | accumulat<br>2019-08-02 |
| arget price (HUF)  |   | 2,158.00  | 2,072.00  | 1,927.00  | 2,726.00   | 2,816.00  | 3,302.00   | 3,258.00   | 3,258.00                    | 3,258.00                |
| Price on rating day  | 1,722.00  | 1,821.00  | 1,916.00  | 1,849.00  | 2,530.00   | 2,618.00  | 2,926.00   | 3,042.00   | 2,826.00                    | 3,004.00                |
| Moneta Money B   | ank   | _   |   |   |  |   |  |  |                             |                         |
| Rating   | buy   | <del>-</del>  |   |   |  |   |  |  |                             |                         |
| lating date<br>arget price (CZK)   | 2019-08-28  |   |   |   |  |   |  |  |                             |                         |
| Price on rating day  |   | _   |   |   |  |   |  |  |                             |                         |
| Monnari  |   |   |   |   |  |   |  |  |                             |                         |
| Rating   | suspended   | _   |   |   |  |   |  |  |                             |                         |
| Rating date  | 2019-12-05  |   |   |   |  |   |  |  |                             |                         |
| arget price (PLN)<br>Price on rating day   | 2.99  |   |   |   |  |   |  |  |                             |                         |
|  |   | _   |   |   |  |   |  |  |                             |                         |
| Netia<br>Pating  | hold  | accumulate  | hold  | _   |  |   |  |  |                             |                         |
| <b>Rating</b><br>Rating date   | 2020-08-04  | 2020-05-05  | 2019-12-05  |   |  |   |  |  |                             |                         |
| arget price (PLN)  | 4.40  | 4.40  | 4.70  |   |  |   |  |  |                             |                         |
| Price on rating day  | 4.40  | 3.91  | 4.44  | _   |  |   |  |  |                             |                         |
| Orange Polska  |   |   |   |   |  |   | _  |  |                             |                         |
| <b>Rating</b><br>Rating date   | <b>buy</b><br>2020-07-30  | accumulate<br>2020-06-03  | <b>buy</b><br>2020-03-27  | accumulate<br>2019-11-29  | <b>buy</b><br>2019-09-05   | accumulate<br>2019-08-02  |  |  |                             |                         |
|  | 8.30  | 6.90  | 6.90  | 7.40  | 7.50   | 7.50  |  |  |                             |                         |
| Price on rating day  | 7.07  | 6.49  | 5.88  | 6.46  | 6.12   | 6.70  | _  |  |                             |                         |
| OTP Bank   |   |   |   |   |  |   |  |  |                             |                         |
| Rating   | hold  | accumulate  | buy   | hold  | _  |   |  |  |                             |                         |
| Rating date<br>Farget price (HUF)  | 2019-12-05  | 2019-11-06<br>14,681.00   | 2019-08-28<br>14,681.00   | 2019-08-02<br>13,046.00   |  |   |  |  |                             |                         |
| Price on rating day  |   | 13,860.00   | 12,000.00   | 12,080.00   | _  |   |  |  |                             |                         |
| Pekao  |   |   |   |   |  |   |  |  |                             |                         |
| Rating   | buy   | buy   | buy   | buy   | buy  | _   |  |  |                             |                         |
| Rating date  | 2020-06-03  | 2020-04-16  | 2020-03-30  | 2019-12-05  | 2019-08-02   |   |  |  |                             |                         |
| Farget price (PLN) Price on rating day   | 68.90<br>52.40  | 77.70<br>54.30  | 83.51<br>55.32  | 115.20<br>96.34   | 119.75<br>99.88  |   |  |  |                             |                         |
| rice orritating day  |   |   |   |   |  | _   |  |  |                             |                         |
|  |   |   |   |   |  |   |  |  |                             |                         |
|  | susnandad   | _   |   |   |  |   |  |  |                             |                         |
| Pfleiderer Group<br>Rating<br>Rating date  | <b>suspended</b> 2019-09-20   | _   |   |   |  |   |  |  |                             |                         |
| Rating<br>Rating date<br>Farget price (PLN)  | 2019-09-20  | _   |   |   |  |   |  |  |                             |                         |
| Rating<br>Rating date<br>Farget price (PLN)  | 2019-09-20  | -   |   |   |  |   |  |  |                             |                         |
| Rating<br>Rating date<br>Farget price (PLN)<br>Price on rating day   | 2019-09-20<br>-<br>26.20  | -   |   | _   |  |   |  |  |                             |                         |
| Rating Rating date Farget price (PLN) Price on rating day PGE Rating   | 2019-09-20<br>-<br>26.20<br>suspended   | suspended   | <b>buy</b><br>2019-10-24  | _   |  |   |  |  |                             |                         |
| Rating Rating date Target price (PLN) Price on rating day PGE Rating Rating date   | 2019-09-20<br>-<br>26.20  | <b>suspended</b> 2020-02-27   | <b>buy</b><br>2019-10-24<br>12.20   | _   |  |   |  |  |                             |                         |
| Rating Rating date Farget price (PLN) Price on rating day PGE Rating Rating date Farget price (PLN)  | 2019-09-20<br>-<br>26.20<br>suspended<br>2020-04-27<br>-  |   | 2019-10-24  | _   |  |   |  |  |                             |                         |
| Rating Rating date Farget price (PLN) Price on rating day PGE Rating Rating date Farget price (PLN) Price on rating day  | 2019-09-20<br>-<br>26.20<br>suspended<br>2020-04-27<br>-  | 2020-02-27  | 2019-10-24<br>12.20   | -   |  |   |  |  |                             |                         |
| Rating Rating date Parice on rating day Rating date Rating Rating Rating date Parice on rating day Price on rating day Price on rating day Price on Rating Rating Rating Rating Rating   | 2019-09-20<br>-<br>26.20<br>suspended<br>2020-04-27<br>-<br>4.05  | 2020-02-27<br>-<br>5.15<br><b>buy</b>   | 2019-10-24<br>12.20<br>8.42   | buy   | hold   | hold  | hold   | buy  | buy                         |                         |
| Rating Rating date Rating date Force on rating day PGE Rating Rating date Force on rating day Price on rating day Price on rating day Rating date Rating date Rating date Rating day   | 2019-09-20<br>-<br>26.20<br>suspended<br>2020-04-27<br>-<br>4.05<br>buy<br>2020-08-04   | 2020-02-27<br>-<br>5.15<br><b>buy</b><br>2020-07-02   | 2019-10-24<br>12.20<br>8.42<br><b>buy</b><br>2020-06-03   | 2020-04-07  | 2020-03-23   | 2020-03-04  | 2020-01-28   | 2019-11-06   | 2019-09-05                  | 2019-08-02              |
| Rating Lating date Target price (PLN) Trice on rating day PGE Rating Rating date Target price (PLN) Trice on rating day PGNIG Rating Rating date Target price (PLN) Trice on rating day PGNIG Rating Rating date Target price (PLN)  | 2019-09-20<br>- 26.20<br>suspended<br>2020-04-27<br>- 4.05<br>buy<br>2020-08-04<br>5.94   | 2020-02-27<br>-<br>5.15<br><b>buy</b>   | 2019-10-24<br>12.20<br>8.42   |   |  |   |  |  |                             |                         |
| Rating Rating date Parity price (PLN) Price on rating day PGE Rating date Parity price (PLN) Price on rating day PGNIG Rating Rating date PGNIG Rating date  | 2019-09-20<br>- 26.20<br>suspended<br>2020-04-27<br>- 4.05<br>buy<br>2020-08-04<br>5.94   | 2020-02-27<br>-<br>5.15<br><b>buy</b><br>2020-07-02<br>5.23   | 2019-10-24<br>12.20<br>8.42<br><b>buy</b><br>2020-06-03<br>4.91   | 2020-04-07<br>4.44  | 2020-03-23<br>3.24   | 2020-03-04<br>3.88  | 2020-01-28<br>4.06   | 2019-11-06<br>5.64   | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Rating date Farget price (PLN) Price on rating day PGE Rating Rating date Farget price (PLN) Price on rating day PGNIG Rating Rating date Farget price (PLN) Price on rating day PRICE on rating day PRICE on rating day  | 2019-09-20<br>- 26.20<br>suspended<br>2020-04-27<br>- 4.05<br>buy<br>2020-08-04<br>5.94   | 2020-02-27<br>-<br>5.15<br><b>buy</b><br>2020-07-02<br>5.23   | 2019-10-24<br>12.20<br>8.42<br><b>buy</b><br>2020-06-03<br>4.91   | 2020-04-07<br>4.44  | 2020-03-23<br>3.24   | 2020-03-04<br>3.88  | 2020-01-28<br>4.06   | 2019-11-06<br>5.64   | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Rating date Factor of the late of t | 2019-09-20<br>- 26.20<br>suspended<br>2020-04-27<br>- 4.05<br>buy<br>2020-08-04<br>5.94<br>5.10<br>hold<br>2020-07-02   | 2020-02-27<br>-<br>5.15<br><b>buy</b><br>2020-07-02<br>5.23<br>4.63<br><b>hold</b><br>2020-06-03  | 2019-10-24<br>12.20<br>8.42<br><b>buy</b><br>2020-06-03<br>4.91<br>4.31<br><b>hold</b><br>2020-05-05  | 2020-04-07<br>4.44<br>3.48<br>accumulate<br>2020-03-23  | 2020-03-23<br>3.24<br>3.14<br><b>hold</b><br>2020-03-04  | 2020-03-04<br>3.88<br>3.20<br><b>reduce</b><br>2020-02-03   | 2020-01-28<br>4.06<br>3.86<br><b>hold</b><br>2019-12-05  | 2019-11-06<br>5.64<br>5.07<br><b>reduce</b><br>2019-11-14  | 2019-09-05<br>6.33          |                         |
| Rating Rating date Parice on rating day PGE Rating date Rating date Rating date PGNIG Rating date Rating day PKN Orlen Rating Rating date  | 2019-09-20<br>-26.20<br>suspended<br>2020-04-27<br>-4.05<br>buy<br>2020-08-04<br>5.94<br>5.10   | 2020-02-27<br>-<br>5.15<br><b>buy</b><br>2020-07-02<br>5.23<br>4.63   | 2019-10-24<br>12.20<br>8.42<br><b>buy</b><br>2020-06-03<br>4.91<br>4.31   | 2020-04-07<br>4.44<br>3.48<br>accumulate  | 2020-03-23<br>3.24<br>3.14   | 2020-03-04<br>3.88<br>3.20  | 2020-01-28<br>4.06<br>3.86   | 2019-11-06<br>5.64<br>5.07   | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Rating date Farget price (PLN) Price on rating day PGE Rating Rating Rating date Farget price (PLN) Price on rating day PGNIG Rating date Rating Rating date Rating Rating date Rating Rating date  | 2019-09-20<br>-26.20<br>suspended<br>2020-04-27<br>-4.05<br>buy<br>2020-08-04<br>5.94<br>5.10   | 2020-02-27<br>-<br>5.15<br><b>buy</b><br>2020-07-02<br>5.23<br>4.63<br><b>hold</b><br>2020-06-03<br>66.85   | 2019-10-24<br>12.20<br>8.42<br><b>buy</b><br>2020-06-03<br>4.91<br>4.31<br><b>hold</b><br>2020-05-05<br>58.61   | 2020-04-07<br>4.44<br>3.48<br>accumulate<br>2020-03-23<br>58.61   | 2020-03-23<br>3. 24<br>3. 14<br><b>hold</b><br>2020-03-04<br>66. 70  | 2020-03-04<br>3.88<br>3.20<br>reduce<br>2020-02-03<br>68.03   | 2020-01-28<br>4.06<br>3.86<br><b>hold</b><br>2019-12-05<br>94.17   | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17  | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Rating date Farget price (PLN) Price on rating day PGE Rating Rating date Farget price (PLN) Price on rating day PGNIG Rating Rating Rating Rating date Farget price (PLN) Price on rating day PKN Orlen Rating Rating Rating date Farget price (PLN) Price on rating day PKN Orlen Rating Rating date Farget price (PLN) Price on rating day   | 2019-09-20<br>- 26.20<br>suspended<br>2020-04-27<br>- 4.05<br>buy<br>2020-08-04<br>5.10<br>hold<br>2020-07-02<br>67.72<br>63.28   | 2020-02-27<br>-<br>5.15<br>buy<br>2020-07-02<br>5.23<br>4.63<br>hold<br>2020-06-03<br>66.85<br>67.80  | 2019-10-24<br>12.20<br>8.42<br><b>buy</b><br>2020-06-03<br>4.91<br>4.31<br><b>hold</b><br>2020-05-05<br>58.61<br>59.52  | 2020-04-07<br>4.44<br>3.48<br>accumulate<br>2020-03-23<br>58.61<br>52.58  | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26   | 2020-03-04<br>3.88<br>3.20<br>reduce<br>2020-02-03<br>68.03<br>75.66  | 2020-01-28<br>4.06<br>3.86<br><b>hold</b><br>2019-12-05<br>94.17<br>88.50  | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17  | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Rating date Farget price (PLN) Price on rating day PGE Rating Rating date Farget price (PLN) Price on rating day PGNIG Rating Rating date Farget price (PLN) Price on rating day PKN Orlen Rating Rating date Farget price (PLN) Price on rating day PKN Orlen Rating Rating date Farget price (PLN) Price on rating day PKN Orlen Rating Rating date Farget price (PLN) Price on rating day PKN OBP RATING Rating Rating Rating date   | 2019-09-20<br>-26.20<br>suspended<br>2020-04-27<br>-4.05<br>buy<br>2020-08-04<br>5.94<br>5.10<br>hold<br>2020-07-02<br>67.72<br>63.28<br>hold<br>2020-06-03   | 2020-02-27<br>-<br>5.15<br><b>buy</b><br>2020-07-02<br>5.23<br>4.63<br><b>hold</b><br>2020-06-03<br>66.85<br>67.80<br><b>accumulate</b><br>2020-04-16                         | 2019-10-24<br>12.20<br>8.42<br><b>buy</b><br>2020-06-03<br>4.91<br>4.31<br><b>hold</b><br>2020-05-05<br>58.61<br>59.52<br><b>buy</b><br>2020-03-30                | 2020-04-07<br>4.44<br>3.48<br>accumulate<br>2020-03-23<br>58.61<br>52.58<br>buy<br>2020-03-04   | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26<br>accumulate<br>2020-02-05   | 2020-03-04<br>3.88<br>3.20<br>reduce<br>2020-02-03<br>68.03<br>75.66<br>accumulate<br>2019-12-05  | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02  | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17  | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Lating date Farget price (PLN) Frice on rating day PCR Rating Lating date Farget price (PLN) Frice on rating day PCR RATING Lating date Farget price (PLN) Frice on rating day PCR NIG Rating Lating date Farget price (PLN) Frice on rating day PCR NIG Rating Lating date Farget price (PLN) Frice on rating day PCR NIG Rating Lating date Farget price (PLN) Frice on rating day PCR DE RATING Lating date FARGET LATING LA | 2019-09-20<br>- 26.20<br>suspended<br>2020-04-27<br>- 4.05<br>buy<br>2020-08-04<br>5.94<br>5.10<br>hold<br>2020-07-02<br>67.72<br>63.28<br>hold<br>2020-06-03<br>22.58                                | 2020-02-27<br>-<br>5.15<br>buy<br>2020-07-02<br>5.23<br>4.63<br>hold<br>2020-06-03<br>66.85<br>67.80<br>accumulate<br>2020-04-16<br>24.85                                     | 2019-10-24<br>12.20<br>8.42<br>buy<br>2020-06-03<br>4.91<br>4.31<br>hold<br>2020-05-05<br>58.61<br>59.52<br>buy<br>2020-03-30<br>26.90                            | 2020-04-07<br>4.44<br>3.48<br>accumulate<br>2020-03-23<br>58.61<br>52.58<br>buy<br>2020-03-04<br>39.69  | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26<br>accumulate<br>2020-02-05<br>39.69  | 2020-03-04<br>3.88<br>3.20<br>reduce<br>2020-02-03<br>68.03<br>75.66<br>accumulate<br>2019-12-05<br>39.50                                   | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17   | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17  | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Lating date Farget price (PLN) Frice on rating day PCR Rating Lating date Farget price (PLN) Frice on rating day PCR RATING Lating date Farget price (PLN) Frice on rating day PCR NIG Rating Lating date Farget price (PLN) Frice on rating day PCR NIG Rating Lating date Farget price (PLN) Frice on rating day PCR NIG Rating Lating date Farget price (PLN) Frice on rating day PCR DE RATING Lating date FARGET LATING LA | 2019-09-20<br>- 26.20<br>suspended<br>2020-04-27<br>- 4.05<br>buy<br>2020-08-04<br>5.94<br>5.10<br>hold<br>2020-07-02<br>67.72<br>63.28<br>hold<br>2020-06-03<br>22.58                                | 2020-02-27<br>-<br>5.15<br><b>buy</b><br>2020-07-02<br>5.23<br>4.63<br><b>hold</b><br>2020-06-03<br>66.85<br>67.80<br><b>accumulate</b><br>2020-04-16                         | 2019-10-24<br>12.20<br>8.42<br><b>buy</b><br>2020-06-03<br>4.91<br>4.31<br><b>hold</b><br>2020-05-05<br>58.61<br>59.52<br><b>buy</b><br>2020-03-30                | 2020-04-07<br>4.44<br>3.48<br>accumulate<br>2020-03-23<br>58.61<br>52.58<br>buy<br>2020-03-04   | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26<br>accumulate<br>2020-02-05   | 2020-03-04<br>3.88<br>3.20<br>reduce<br>2020-02-03<br>68.03<br>75.66<br>accumulate<br>2019-12-05  | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02  | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17  | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Nating date Farget price (PLN) Price on rating day PGE Rating Nating date Farget price (PLN) Price on rating day PGNIG Rating Ra | 2019-09-20<br>-26.20<br>suspended<br>2020-04-27<br>-4.05<br>buy<br>2020-08-04<br>5.94<br>5.10<br>hold<br>2020-07-02<br>67.72<br>63.28<br>hold<br>2020-06-03<br>22.58<br>22.06                         | 2020-02-27<br>-<br>5.15<br>buy<br>2020-07-02<br>5.23<br>4.63<br>hold<br>2020-06-03<br>66.85<br>67.80<br>accumulate<br>2020-04-16<br>24.85<br>22.14                            | 2019-10-24<br>12.20<br>8.42<br>buy<br>2020-06-03<br>4.91<br>4.31<br>hold<br>2020-05-05<br>58.61<br>59.52<br>buy<br>2020-03-30<br>26.90<br>22.75                   | 2020-04-07<br>4.44<br>3.48<br>accumulate<br>2020-03-23<br>58.61<br>52.58<br>buy<br>2020-03-04<br>39.69<br>33.10                                       | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26<br>accumulate<br>2020-02-05<br>39.69<br>36.00   | 2020-03-04 3.88 3.20  reduce 2020-02-03 68.03 75.66  accumulate 2019-12-05 39.50 34.99  | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17   | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17  | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Lating date   | 2019-09-20<br>- 26.20<br>suspended<br>2020-04-27<br>- 4.05<br>buy<br>2020-08-04<br>5.94<br>5.10<br>hold<br>2020-07-02<br>67.72<br>63.28<br>hold<br>2020-06-03<br>22.58                                | 2020-02-27<br>-<br>5.15<br>buy<br>2020-07-02<br>5.23<br>4.63<br>hold<br>2020-06-03<br>66.85<br>67.80<br>accumulate<br>2020-04-16<br>24.85                                     | 2019-10-24<br>12.20<br>8.42<br>buy<br>2020-06-03<br>4.91<br>4.31<br>hold<br>2020-05-05<br>58.61<br>59.52<br>buy<br>2020-03-30<br>26.90                            | 2020-04-07<br>4.44<br>3.48<br>accumulate<br>2020-03-23<br>58.61<br>52.58<br>buy<br>2020-03-04<br>39.69  | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26<br>accumulate<br>2020-02-05<br>39.69  | 2020-03-04<br>3.88<br>3.20<br>reduce<br>2020-02-03<br>68.03<br>75.66<br>accumulate<br>2019-12-05<br>39.50                                   | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17   | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17  | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Lating date 'arget price (PLN) 'rrice on rating day  PGE Rating Lating date 'arget price (PLN) 'rrice on rating day  PGN IG Rating Lating date 'arget price (PLN) 'rrice on rating day  PKN Orlen Rating Lating date 'arget price (PLN) 'rrice on rating day  PKN Orlen Rating Lating date 'arget price (PLN) 'rrice on rating day  PKO BP Rating Lating date 'arget price (PLN) 'rrice on rating day  PKO BP Rating Lating date 'arget price (PLN) 'rrice on rating day  PKO BP Rating Lating date 'arget price (PLN)  Rating date 'arget price (PLN)  Lating date 'arget price (PLN)  Rating date 'arget price (PLN)  Rating date 'arget price (PLN)  | 2019-09-20<br>-26.20<br>suspended<br>2020-04-27<br>-4.05<br>buy<br>2020-08-04<br>5.94<br>5.10<br>hold<br>2020-07-02<br>63.28<br>hold<br>2020-06-03<br>22.58<br>22.06                                  | 2020-02-27<br>-5.15<br>buy<br>2020-07-02<br>5.23<br>4.63<br>hold<br>2020-06-03<br>66.85<br>67.80<br>accumulate<br>2020-04-16<br>24.85<br>22.14<br>hold<br>2020-05-05<br>12.37 | 2019-10-24<br>12.20<br>8.42<br>buy<br>2020-06-03<br>4.91<br>4.31<br>hold<br>2020-05-05<br>58.61<br>59.52<br>buy<br>2020-03-30<br>26.90<br>22.75                   | 2020-04-07<br>4.44<br>3.48<br>accumulate<br>2020-03-23<br>58.61<br>52.58<br>buy<br>2020-03-04<br>39.69<br>33.10<br>reduce<br>2020-02-05<br>16.40      | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26<br>accumulate<br>2020-02-05<br>39.69<br>36.00   | 2020-03-04 3.88 3.20  reduce 2020-02-03 68.03 75.66  accumulate 2019-12-05 39.50 34.99  reduce 2019-11-26 20.44                             | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17   | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17  | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Lating date 'arget price (PLN) 'rrice on rating day  PGE Rating Lating date 'arget price (PLN) 'rrice on rating day  PGN IG Rating Lating date 'arget price (PLN) 'rrice on rating day  PKN Orlen Rating Lating date 'arget price (PLN) 'rrice on rating day  PKN Orlen Rating Lating date 'arget price (PLN) 'rrice on rating day  PKO BP Rating Lating date 'arget price (PLN) 'rrice on rating day  PKO BP Rating Lating date 'arget price (PLN) 'rrice on rating day  PKO BP Rating Lating date 'arget price (PLN)  Rating date 'arget price (PLN)  Lating date 'arget price (PLN)  Rating date 'arget price (PLN)  Rating date 'arget price (PLN)  | 2019-09-20<br>-26.20<br>suspended<br>2020-04-27<br>-4.05<br>buy<br>2020-08-04<br>5.94<br>5.10<br>hold<br>2020-07-02<br>63.28<br>hold<br>2020-06-03<br>22.58<br>22.06                                  | buy 2020-07-02 5.15  buy 2020-07-02 5.23 4.63  hold 2020-06-03 66.85 67.80  accumulate 2020-04-16 24.85 22.14  hold 2020-05-05  | buy<br>2020-06-03<br>4.91<br>4.31<br>hold<br>2020-05-05<br>58.61<br>59.52<br>buy<br>2020-03-30<br>26.90<br>22.75  | 2020-04-07<br>4.44<br>3.48<br>accumulate<br>2020-03-23<br>58.61<br>52.58<br>buy<br>2020-03-04<br>39.69<br>33.10<br>reduce<br>2020-02-05               | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26<br>accumulate<br>2020-02-05<br>39.69<br>36.00<br>reduce<br>2019-12-05                   | 2020-03-04 3.88 3.20  reduce 2020-02-03 68.03 75.66  accumulate 2019-12-05 39.50 34.99  reduce 2019-11-26                                   | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17   | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17  | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Rating date Farget price (PLN) Price on rating day PGE Rating Rating date Farget price (PLN) Price on rating day PGNIG Rating Rating date Farget price (PLN) Price on rating day PKN Orlen Rating Rating date Farget price (PLN) Price on rating day PKN Orlen Rating Rating date Farget price (PLN) Price on rating day PKN Orlen Rating Rating date Farget price (PLN) Price on rating day PKN OBP RATING Rating Rating Rating date   | 2019-09-20<br>-26.20<br>suspended<br>2020-04-27<br>-4.05<br>buy<br>2020-08-04<br>5.94<br>5.10<br>hold<br>2020-07-02<br>63.28<br>hold<br>2020-06-03<br>22.58<br>22.06                                  | 2020-02-27<br>-5.15<br>buy<br>2020-07-02<br>5.23<br>4.63<br>hold<br>2020-06-03<br>66.85<br>67.80<br>accumulate<br>2020-04-16<br>24.85<br>22.14<br>hold<br>2020-05-05<br>12.37 | 2019-10-24<br>12.20<br>8.42<br>buy<br>2020-06-03<br>4.91<br>4.31<br>hold<br>2020-05-05<br>58.61<br>59.52<br>buy<br>2020-03-30<br>26.90<br>22.75                   | 2020-04-07<br>4.44<br>3.48<br>accumulate<br>2020-03-23<br>58.61<br>52.58<br>buy<br>2020-03-04<br>39.69<br>33.10<br>reduce<br>2020-02-05<br>16.40      | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26<br>accumulate<br>2020-02-05<br>39.69<br>36.00   | 2020-03-04 3.88 3.20  reduce 2020-02-03 68.03 75.66  accumulate 2019-12-05 39.50 34.99  reduce 2019-11-26 20.44                             | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17   | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17  | 2019-09-05<br>6.33          | 2019-08-02<br>6.33      |
| Rating Nating date Target price (PLN) Price on rating day PGNIG Rating  | 2019-09-20 - 26.20  suspended 2020-04-27 - 4.05  buy 2020-08-04 5.94 5.10  hold 2020-07-02 63.28  hold 2020-06-03 22.58 22.06  reduce 2020-07-02 12.37 14.04  | 2020-02-27 - 5.15  buy 2020-07-02 5.23 4.63  hold 2020-06-03 66.85 67.80  accumulate 2020-04-16 24.85 22.14  hold 2020-05-05 12.37 11.46                                      | 2019-10-24 12.20 8.42  buy 2020-06-03 4.91 4.31  hold 2020-05-05 58.61 59.52  buy 2020-03-30 26.90 22.75  hold 2020-02-26 13.89 13.66                             | 2020-04-07 4.44 3.48  accumulate 2020-03-23 58.61 52.58  buy 2020-03-04 39.69 33.10  reduce 2020-02-05 16.40 17.50                                    | 2020-03-23 3.24 3.14  hold 2020-03-04 66.70 62.26  accumulate 2020-02-05 39.69 36.00  reduce 2019-12-05 18.13 20.00  | 2020-03-04 3.88 3.20  reduce 2020-02-03 68.03 75.66  accumulate 2019-12-05 39.50 34.99  reduce 2019-11-26 20.44 22.40                       | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17<br>39.34                                | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17<br>102.45                                      | 2019-09-05<br>6.33<br>4.49  | 2019-08-02<br>6.33      |
| Rating Lating date   | 2019-09-20 - 26.20  suspended 2020-04-27 - 4.05  buy 2020-08-04 5.94 5.10  hold 2020-07-02 67.72 63.28  hold 2020-06-03 22.58 22.06  reduce 2020-07-02 12.37 14.04                                    | 2020-02-27 - 5.15  buy 2020-07-02 5.23 4.63  hold 2020-06-03 66.85 67.80  accumulate 2020-04-16 24.85 22.14  hold 2020-05-05 12.37 11.46  buy 2020-05-15                      | 2019-10-24 12.20 8.42  buy 2020-06-03 4.91 4.31  hold 2020-05-05 58.61 59.52  buy 2020-03-30 26.90 22.75  hold 2020-02-26 13.89 13.66  buy 2020-03-25             | 2020-04-07 4.44 3.48  accumulate 2020-03-23 58.61 52.58  buy 2020-03-04 39.69 33.10  reduce 2020-02-05 16.40 17.50  accumulate 2020-02-05             | 2020-03-23 3.24 3.14  hold 2020-03-04 66.70 62.26  accumulate 2020-02-05 39.69 36.00  reduce 2019-12-05 18.13 20.00  buy 2019-11-14                        | 2020-03-04 3.88 3.20  reduce 2020-02-03 68.03 75.66  accumulate 2019-12-05 39.50 34.99  reduce 2019-11-26 20.44 22.40  buy 2019-09-12       | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17<br>39.34                                | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17<br>102.45                                      | 2019-09-05<br>6.33<br>4.49  | 2019-08-02<br>6.33      |
| Rating Rating date Farget price (PLN) Price on rating day PGNIG Rating   | 2019-09-20 - 26.20  suspended 2020-04-27 - 4.05  buy 2020-08-04 5.10  hold 2020-07-02 67.72 63.28  hold 2020-06-03 22.58 22.06  reduce 2020-07-02 12.37 14.04  accumulate 2020-08-04 35.70            | 2020-02-27 - 5.15  buy 2020-07-02 5.23 4.63  hold 2020-06-03 66.85 67.80  accumulate 2020-04-16 24.85 22.14  hold 2020-05-05 12.37 11.46                                      | 2019-10-24 12.20 8.42  buy 2020-06-03 4.91 4.31  hold 2020-05-05 58.61 59.52  buy 2020-03-30 26.90 22.75  hold 2020-02-26 13.89 13.66                             | 2020-04-07 4.44 3.48  accumulate 2020-03-23 58.61 52.58  buy 2020-03-04 39.69 33.10  reduce 2020-02-05 16.40 17.50                                    | 2020-03-23 3.24 3.14  hold 2020-03-04 66.70 62.26  accumulate 2020-02-05 39.69 36.00  reduce 2019-12-05 18.13 20.00  | 2020-03-04 3.88 3.20  reduce 2020-02-03 68.03 75.66  accumulate 2019-12-05 39.50 34.99  reduce 2019-11-26 20.44 22.40                       | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17<br>39.34                                | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17<br>102.45                                      | 2019-09-05<br>6.33<br>4.49  | 2019-08-02<br>6.33      |
| Rating Lating date Larget price (PLN) Lating date Lating Lating date Lating Lating date Lating Lating date Lating  | 2019-09-20 - 26.20  suspended 2020-04-27 - 4.05  buy 2020-08-04 5.10  hold 2020-07-02 67.72 63.28  hold 2020-06-03 22.58 22.06  reduce 2020-07-02 12.37 14.04  accumulate 2020-08-04 35.70            | buy 2020-07-02 5.15  buy 2020-07-02 5.23 4.63  hold 2020-06-03 66.85 67.80  accumulate 2020-04-16 24.85 22.14  hold 2020-05-05 12.37 11.46  buy 2020-05-15 35.70              | 2019-10-24 12.20 8.42  buy 2020-06-03 4.91 4.31  hold 2020-05-05 58.61 59.52  buy 2020-03-30 26.90 22.75  hold 2020-02-26 13.89 13.66                             | 2020-04-07 4.44 3.48  accumulate 2020-03-23 58.61 52.58  buy 2020-03-04 39.69 33.10  reduce 2020-02-05 16.40 17.50  accumulate 2020-02-05 36.00       | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26<br>accumulate<br>2020-02-05<br>39.69<br>36.00<br>reduce<br>2019-12-05<br>18.13<br>20.00 | 2020-03-04 3.88 3.20  reduce 2020-02-03 68.03 75.66  accumulate 2019-12-05 39.50 34.99  reduce 2019-11-26 20.44 22.40  buy 2019-09-12 33.10 | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17<br>39.34<br>hold<br>2019-09-05<br>34.20 | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17<br>102.45<br>accumulate<br>2019-08-02<br>34.20 | 2019-09-05<br>6.33<br>4.49  | 2019-08-02<br>6.33      |
| Rating Lating date   | 2019-09-20 - 26.20  suspended 2020-04-27 - 4.05  buy 2020-08-04 5.10  hold 2020-07-02 67.72 63.28  hold 2020-06-03 22.58 22.06  reduce 2020-07-02 12.37 14.04  accumulate 2020-08-04 35.70            | buy 2020-07-02 5.15  buy 2020-07-02 5.23 4.63  hold 2020-06-03 66.85 67.80  accumulate 2020-04-16 24.85 22.14  hold 2020-05-05 12.37 11.46  buy 2020-05-15 35.70              | 2019-10-24 12.20 8.42  buy 2020-06-03 4.91 4.31  hold 2020-05-05 58.61 59.52  buy 2020-03-30 26.90 22.75  hold 2020-02-26 13.89 13.66                             | 2020-04-07 4.44 3.48  accumulate 2020-03-23 58.61 52.58  buy 2020-03-04 39.69 33.10  reduce 2020-02-05 16.40 17.50  accumulate 2020-02-05 36.00       | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26<br>accumulate<br>2020-02-05<br>39.69<br>36.00<br>reduce<br>2019-12-05<br>18.13<br>20.00 | 2020-03-04 3.88 3.20  reduce 2020-02-03 68.03 75.66  accumulate 2019-12-05 39.50 34.99  reduce 2019-11-26 20.44 22.40  buy 2019-09-12 33.10 | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17<br>39.34<br>hold<br>2019-09-05<br>34.20 | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17<br>102.45<br>accumulate<br>2019-08-02<br>34.20 | 2019-09-05<br>6.33<br>4.49  | 2019-08-02<br>6.33      |
| Rating Rating date Farget price (PLN) Price on rating day PRATING Rating   | 2019-09-20 - 26.20  suspended 2020-04-27 - 4.05  buy 2020-08-04 5.94 5.10  hold 2020-07-02 67.72 63.28  hold 2020-06-03 22.58 22.06  reduce 2020-07-02 12.37 14.04  accumulate 2020-08-04 35.70 32.54 | buy 2020-02-27 5.15  buy 2020-07-02 5.23 4.63  hold 2020-06-03 66.85 67.80  accumulate 2020-04-16 24.85 22.14  hold 2020-05-05 12.37 11.46  buy 2020-05-15 35.70 31.02        | 2019-10-24 12.20 8.42  buy 2020-06-03 4.91 4.31  hold 2020-05-05 58.61 59.52  buy 2020-03-30 26.90 22.75  hold 2020-02-26 13.89 13.66  buy 2020-03-25 33.50 29.04 | 2020-04-07 4.44 3.48  accumulate 2020-03-23 58.61 52.58  buy 2020-03-04 39.69 33.10  reduce 2020-02-05 16.40 17.50  accumulate 2020-02-05 36.00 34.80 | 2020-03-23<br>3.24<br>3.14<br>hold<br>2020-03-04<br>66.70<br>62.26<br>accumulate<br>2020-02-05<br>39.69<br>36.00<br>reduce<br>2019-12-05<br>18.13<br>20.00 | 2020-03-04 3.88 3.20  reduce 2020-02-03 68.03 75.66  accumulate 2019-12-05 39.50 34.99  reduce 2019-11-26 20.44 22.40  buy 2019-09-12 33.10 | 2020-01-28<br>4.06<br>3.86<br>hold<br>2019-12-05<br>94.17<br>88.50<br>buy<br>2019-08-02<br>47.17<br>39.34<br>hold<br>2019-09-05<br>34.20 | 2019-11-06<br>5.64<br>5.07<br>reduce<br>2019-11-14<br>94.17<br>102.45<br>accumulate<br>2019-08-02<br>34.20 | 2019-09-05<br>6.33<br>4.49  | 2019-08-02<br>6.33      |

| Rating              | buy        | buy        | hold       | accumulate | buy        |
|---------------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-04-28 | 2020-03-04 | 2020-02-05 | 2019-12-05 | 2019-09-05 |
| Target price (PLN)  | 35.93      | 41.91      | 41.91      | 41.91      | 43.38      |
| Price on rating day | 29.92      | 36.31      | 40.54      | 36.47      | 36.59      |

#### RBI

| Rating              | accumulate | hold       | accumulate |
|---------------------|------------|------------|------------|
| Rating date         | 2019-12-05 | 2019-11-06 | 2019-08-28 |
| Target price (EUR)  | 23.05      | 23.05      | 23.05      |
| Price on rating day | 21.24      | 22.83      | 20.44      |

#### Santander Bank Polska

| Rating              | buy        | hold       | accumulate | buy        | buy        | hold       | hold       | reduce     | hold       | hold       |
|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-08-04 | 2020-07-02 | 2020-06-03 | 2020-04-16 | 2020-03-30 | 2020-02-05 | 2019-12-05 | 2019-11-06 | 2019-10-07 | 2019-08-02 |
| Target price (PLN)  | 179.37     | 179.37     | 179.37     | 194.52     | 229.52     | 287.90     | 265.50     | 276.55     | 276.55     | 337.00     |
| Price on rating day | 152.50     | 174.50     | 163.60     | 160.70     | 173.90     | 304.00     | 279.00     | 317.40     | 286.00     | 319.60     |

#### Skarbiec Holding

| Rating              | hold       | accumulate | buy        | buy        |
|---------------------|------------|------------|------------|------------|
| Rating date         | 2020-07-02 | 2020-06-03 | 2020-03-04 | 2019-12-05 |
| Target price (PLN)  | 21.20      | 21.20      | 21.20      | 29.34      |
| Price on rating day | 21.40      | 19.05      | 18.80      | 17.20      |

#### Stelmet

| Rating  | ]            | suspended  | buy        | accumulate | hold       | hold       | hold       | Ī |
|---------|--------------|------------|------------|------------|------------|------------|------------|---|
| Rating  | date         | 2020-07-02 | 2020-04-01 | 2020-02-05 | 2019-12-05 | 2019-10-07 | 2019-09-05 |   |
| Target  | price (PLN)  | -          | 9.04       | 8.92       | 8.78       | 8.10       | 6.50       |   |
| Price o | n rating day | 8.55       | 6.75       | 7.85       | 8.20       | 7.90       | 6.70       |   |

#### Tarczyński

| Rating              | suspended  | neutral    | neutral    |
|---------------------|------------|------------|------------|
| Rating date         | 2019-12-05 | 2019-10-07 | 2019-09-20 |
| Target price (PLN)  | -          | -          | -          |
| Price on rating day | 15.60      | 16.30      | 15.90      |

#### Tauron

| Rating              | suspended  | suspended  | buy        |
|---------------------|------------|------------|------------|
| Rating date         | 2020-05-05 | 2020-02-27 | 2019-11-06 |
| Target price (PLN)  | -          | -          | 2.45       |
| Price on rating day | 1 14       | 1 22       | 1 73       |

#### Ten Square Games

| Rating              | accumulate | buy        | accumulate | hold       | buy        |
|---------------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-07-02 | 2020-06-03 | 2020-05-26 | 2020-05-05 | 2020-04-23 |
| Target price (PLN)  | 592.00     | 592.00     | 592.00     | 462.00     | 462.00     |
| Price on rating day | 548.00     | 505.00     | 539.00     | 450.00     | 371.00     |

#### TIM

| Rating              | overweight | overweight | overweight |
|---------------------|------------|------------|------------|
| Rating date         | 2020-06-29 | 2020-04-01 | 2019-12-05 |
| Target price (PLN)  | -          | -          | -          |
| Price on rating day | 10.90      | 9.20       | 10.90      |

#### VRG

| Rating              | accumulate | hold       | hold       | buy        | accumulate |
|---------------------|------------|------------|------------|------------|------------|
| Rating date         | 2020-07-02 | 2020-06-03 | 2020-04-06 | 2020-02-05 | 2019-12-02 |
| Target price (PLN)  | 2.43       | 2.43       | 2.00       | 4.50       | 4.50       |
| Drice on rating day |            | 2 40       | 1 94       | 3 93       | 3 94       |

#### Wirtualna Polska

| Rating              | reduce     | hold       | hold       |
|---------------------|------------|------------|------------|
| Rating date         | 2020-04-20 | 2020-02-05 | 2019-12-05 |
| Target price (PLN)  | 63.10      | 79.70      | 70.00      |
| Price on rating day | 67.80      | 82.20      | 68.20      |

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