

# **Market Overview**

- Copper: In the recent weeks KGHM Market Risk team has discussed the shape of commodities market as well as macroeconomic situation. Top market analysts were covering – among other industrial and precious metals markets – copper, nickel and molybdenum (page 2).
- Precious metals: Gold demand improved recently in India as prices fell
  to their lowest level in nearly three months, while demand elsewhere
  in Asia remained tepid as investors waited for prices to fall further (page
  4).
- Global trade wars: Fears of a trade war that could harm global growth spurred sales of the Chinese yuan, which fell to a five-month trough in the offshore market, as well as commodity-linked and emerging market currencies (page 5).

# US - China trade balance (12M moving sum, US\$ mn) US Exports To China (12M moving sum, US\$ mn) US Imports from China (12M moving sum, US\$ mn) 500 000 250 000 -250 000

The trade balance between USA and China has deteriorated

Source: Bloomberg, KGHM Polska Miedź



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		Close price	2w chng.
	LME (USD/t)		
•	Copper	6 646.00	-4.9%
•	Nickel	14 910.00	-0.4%
	LBMA (USD/troz)		
•	Silver	16.03	-3.5%
•	Gold (PM)	1 250.45	-2.4%
	FX		
	EURUSD	1.1658	0.4%
	EURPLN	4.3616	1.7%
	USDPLN	3.7440	1.2%
•	USDCAD	1.3168	-0.3%
	USDCLP	647.95	1.8%
	Stocks		
Source	KGHM :: Bloomberg, KGHM Po	88.00 olska Miedź; <i>(mor</i>	1.1% e on <u>page 8</u> )

Important macroeconomic data								
	Release	For						
0	CPI estimate (yoy)	Jun	2.0% 🔺					
	Retail sales (yoy)	May	7.6% 🔺					
	PCE inflation (yoy)	May	2.0% 🔺					
*1	Reserve req. ratio	Jun	15.5% ▼					
*	Copper production (mt)	May	498 423 🔺					
Sourc	e: Bloomberg, KGHM Polska Mie	dź; (mor	re on <u>page 6</u> )					

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# **Base and precious metals | Other commodities**

# Copper

In the recent weeks KGHM Market Risk team has discussed the shape of commodities market as well as macroeconomic situation. Top market analysts were covering – among other industrial and precious metals markets – copper, nickel and molybdenum.

# Notes from meetings with analysts

The interviews performed by KGHM Market Risk team with key commodities market analysts showed generally positive outlook for metals. However, most of them pointed out that it is rather macroeconomic situation (which is difficult to assess) has been recently driving the market rather than fundamentals. Most of recent price fluctuations could be explained by USD movement, which recently received some safe heaven flows, but it's future remains unclear. The key issue remain future shape of Chinese economy, but new key risk appeared –trade war escalation.

According to analysts copper market will remain relatively balanced in short term, with China playing pivotal role on the demand side with slowing, but still relatively strong growth in the upcoming years. Key risk to that scenario significant strikes in BHP's and Codelco's mines - analysts assessed as having relatively low probability, with general opinion that these companies should be more conciliatory because of relatively high copper prices. However, situation looks quite different in the medium to long-term, where analysts were pointing out the lack of new copper projects which would lead to deficit on the market. This scenario could not materialize though once metal prices remain at current prices for further two or three years, which would be enough time for miners to pay back remaining debts, accumulate cash and decide upon extending capex expenditures. Other important risk to that scenario are significant China slowdown and/or potential U.S. recession. Analysts though also sees some significant chances in long-term, but impact of some of them, like potential demand from EV sector or projects like One Belt One Road are difficult to estimate. Some analysts were also pointing out toward growing importance of copper scrap, which marginal curve is so stiff that even small difference of copper price was reflected by large reaction of material inflow.

Potential EV revolution could have significant impact also on nickel market, where new batteries technology could significantly boost demand for high quality nickel in longer-term, especially because – according to analysts – limitation of potential for new production outside the nickel pig-iron sphere. In a short term analysts are pointing towards large stocks overhang as a main barrier against further price increases.

Worse news come from molybdenum market, where analysts see further price increase in short term to be very limited by increasing production in primary

Metals market lately remains mostly macro-driven

Electric vehicles development will positively impact nickel market



Chinese mines, despite oil price recovery. In medium to long term growth of stainless steel production (from which comes 25% of molybdenum demand) is likely to flatten, which wouldn't support the price either. Situation looks quite different in long-term, where EVs light structure may require some new alloys with high molybdenum content.

# **Codelco Gets \$1 Billion Funding for Projects**

Chile just delivered some good news for Codelco bondholders - and long-term copper bears. The world's largest producer will get \$1 billion from the government to help fund investments that aim to avoid a slump in production at its aging operations. That compares with the \$633 million-plus that Chief Executive Officer Nelson Pizarro said he'd need this year, easing concern that the company would have to rely more on debt markets. "This is a show of support for Codelco's ambitious investment program," Finance Minister Felipe Larrain told reporters Friday. "If Codelco doesn't invest, there will be an exhaustion of mines and production -- not in a few decades, but in a few years." Codelco's project budget through 2022 stands at \$21 billion. It's looking to get that work done without increasing debt, which rose sharply during President Sebastian Pinera's last term in office and remains at about \$15 billion. At the same time, the government has pledged to save \$1.2 billion a year over the next four years to narrow the fiscal deficit and restore the country's credit rating. The funds, which come directly from the state rather than reinvested profit, will allow Codelco to keep its credit rating and continue with its investment program, he said. About half of the money will be transferred now.

# Other important information on copper market:

- The global world refined copper market showed a 55,000 tonnes surplus in March, compared with a 87,000 tonnes surplus in February, the International Copper Study Group (ICSG) said in its latest monthly bulletin. For the first 3 months of the year, the market was in a 153,000 tonnes surplus compared with a 84,000 tonnes surplus in the same period a year earlier, the ICSG said. World refined copper output in March was 2.03 million tonnes , while consumption was 1.97 million tonnes. Bonded stocks of copper in China showed a 48,000 tonnes surplus in March compared with a 90,000 tonnes surplus in February.
- Peruvian export volumes of copper, zinc, silver and molybdenum all gained in April, while gold, lead and tin shipments fell, the government said Monday. Copper shipments were up 10.4% to 219,500 mt from 198,800 mt a year earlier, spurring export revenue by 48% to \$1.38 billion as prices jumped 33.8% to \$2.85/lb from \$2.13/lb, the bank said. Zinc shipments increased by 46.2% to 103,900 mt from 71,100 mt a year earlier, while silver gained 24.6% to 600,000 oz from 500,000 oz. Molybdenum shipments gained 11.5% to 1,900 mt from 1,400 mt. Gold exports fell 9.6% to 455,400 oz from 503,800 oz a year ago. Lead slid 1.2% to 57,800 mt from 58,500 mt. Tin shipments from Minsur's San Rafael mine dropped 6.7% to 1,600 mt from 1,800 mt.



BHP and the union representing workers at its Escondida copper mine in Chile have reached consensus on 18 "basic" points in the first week of wage talks, according to the union's internal communication to members. The union is looking to clear as many points as possible in order to focus on the issues that matter most to workers. Agreements were reached on points such as: Definitions of concepts at the beginning of the contract; Holiday and seniority bonuses; Public and Christmas holidays. Eight basic points remain open to discussion, including medical coverage. The company also wants to discuss the definition of which workers will come under the contract, according to the union. The current contract expires July 31.

# **Precious Metals**

Gold demand improved recently in India as prices fell to their lowest level in nearly three months, while demand elsewhere in Asia remained tepid as investors waited for prices to fall further.

# Platinium jewellery recycling falls 5% to 20.5 tons

Platinium jewellery recycling weakened by 5 percent in 2017 to 0.66 million ounce (20.5 tons), the lowest level since 2009, according to GFMS Platinum Group Metals Survey 2018. Weaker platinum prices were largely to blame, reducing the incentive to sell back old jewellery.

The biggest falls were seen in Japan and China which retreated 7% and 4% respectively although most markets saw a decline last year with the exception of North America, which inched 2% higher, and Other Regions category, which recorded a double-digit increase, albeit from a very low base. Despite an uptick in autocatalyst recycling and resilient mine production, platinum supply was tempered by a falling jewellery scrap, leaving total supply almost unchanged in 2017.

On the demand side offtake was slightly weaker as stronger industrial demand was more than offset by falls in jewellery and retail investment, leaving the overall market in a physical deficit for the fourth consecutive year at 0.05 Moz (1.6 t).



# **Global economies | Foreign exchange markets**

# Global tensions mount as the risk of potential trade war rises

Fears of a trade war that could harm global growth spurred sales of the Chinese yuan, which fell to a five-month trough in the offshore market, as well as commodity-linked and emerging market currencies.

The world's two biggest economies threatened punishing tariffs in the opening shots of a trade war, with Beijing vowing to retaliate "forcefully" against President Donald Trump's pledge to slap duties on another \$200 billion in Chinese imports. Global stocks declined amid little sign of negotiations to resolve the dispute. Donald Trump would like to revamp the trade exchange between US and China, as the practice which has been going on in the last 25 year is unfair according to the US president. In addition to that, Trump ordered up identification of \$200 billion in Chinese imports for additional tariffs of 10% - with another \$200 billion after that if Beijing retaliates. While the \$50 billion in tariffs already announced on Friday were mainly on industrial goods, the broader move would push up prices for toys, tools, t-shirts and a lot more for U.S. shoppers. China promised to retaliate and will have to take comprehensive quantitative and qualitative measures, according to a statement from the Chinese Ministry of Commerce. By targeting goods that are finished in China but whose components are often sourced from neighboring South Korea, Japan and Taiwan and more, the U.S. strategy could hurt the economies of America's allies too.

The European Union's retaliatory tariffs on U.S. products came into force on Friday, the latest shots fired in what increasingly looks like a global trade war. The EU, the world's largest trading bloc, imposed levies on 2.8 billion euros (\$3.3 billion) of American products in response to U.S. duties on its steel and aluminum exports that were justified on national security grounds. The European reaction opens up another front in Washington's battle to reshape its commercial relationship with the world. What is more, U.S. President Donald Trump threatened to impose a 20% tariff on all European Union-assembled cars coming into the United States, a month after the administration launched an investigation into whether auto imports pose a national security threat.



# **Macroeconomic calendar**

# Important macroeconomic data releases

Weight	Date	Event	For	Reading <sup>1</sup>	Previous	Consensus <sup>2</sup>
		China				*1
00000	24-Jun	Reserve requirement ratio	Jun	15.5%	16.0%	
00	27-Jun	Industrial profits (yoy)	May	21.1%	21.9%	
000	30-Jun	Official manufacturing PMI	Jun	51.5	51.9	51.6
		Poland				
00	18-Jun	Average gross salary (yoy)	May	7.0%	7.8%	7.1%
<b>©</b>	18-Jun	Employment (yoy)	May	3.7% =	3.7%	3.8%
0000	19-Jun	Sold industrial production (yoy)	May	5.4%	9.3%	3.6%
00	19-Jun	Producer inflation PPI (yoy)‡	May	2.8%	1.0%	2.7%
000	21-Jun	Retail sales (yoy)	May	7.6%	4.6%	7.4%
٥	22-Jun	M3 money supply (yoy)‡	May	6.6%	5.7%	5.9%
00	25-Jun	Unemployment rate	May	6.1%	6.3%	6.1%
		US				
00	21-Jun	Philadelphia Fed business outlook	Jun	19.9	34.4	29.0
000	22-Jun	Composite PMI - preliminary data	Jun	56.0	56.6	
000	22-Jun	Manufacturing PMI - preliminary data	Jun		56.4	56.1
000	22-Jun	PMI services - preliminary data	Jun	56.5	56.8	56.5 🔘
0	25-Jun	Dallas Fed manufacturing activity	Jun	36.5	26.8	24.9
٥	26-Jun	Richmond Fed manufacturing index	Jun	20.0	16.0	15.0
<b>©</b>	26-Jun	S&P/CaseShiller home price index‡	Apr	210 🔺	209	
00	27-Jun	Durable goods orders - preliminary data‡	May	-0.6%	-1.0%	-1.0%
00000	28-Jun	GDP (annualized, qoq) -	1Q	2.0%	2.2%	2.2%
0000	29-Jun	Consumer spending inflation PCE (mom)	May	0.2% =	0.2%	0.2%
0000	29-Jun	Consumer spending inflation PCE (yoy)	May	2.0%	1.8%	1.9%
00	29-Jun	Personal income (sa, mom)‡	May	0.4%	0.2%	0.4%
00	29-Jun	Personal spending (sa, mom)‡	May	0.2%	0.5%	0.4%
00	29-Jun	University of Michigan confidence index - final data	Jun	98.2	99.3	99.0
		Eurozone				0
O	21-Jun	Consumer confidence - estimation	Jun	- 0.5	0.2	0.0
000	22-Jun	Composite PMI - preliminary data	Jun	54.8	54.1	53.9
000	22-Jun	Manufacturing PMI - preliminary data	Jun		55.5	55.0
000	22-Jun	Services PMI - preliminary data	Jun	55.0	53.8	53.8
٥	27-Jun	M3 money supply (yoy)‡	May	4.0%	3.8%	3.8%
٥	28-Jun	Economic confidence	Jun	112 🔻	113	112
٥	28-Jun	Industrial confidence‡	Jun	6.9 =	6.9	6.5
٥	28-Jun	Consumer confidence - final data	Jun	- 0.5 =	- 0.5	- 0.5
٥	28-Jun	Business climate indicator‡	Jun	1.4	1.4	1.4
0000	29-Jun	Core CPI (yoy) - estimation	Jun	1.0%	1.1%	1.0%
0000	29-Jun	CPI estimate (yoy)	Jun	2.0%	1.9%	2.0%



	Weight	Date	Event	For	Reading <sup>1</sup>	Previous	Consensus <sup>2</sup>
Composed   Part   Par			Germany				
Section   Fo business climate\$   Jun   102   V   102   102   102   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   103   10	000	22-Jun	Composite PMI - preliminary data	Jun	54.2	53.4	53.4
Quantification   Marmonized consumer inflation   HICP (yoy) - preliminary data   Jun   2.1%   ▼   2.2%   2.1%   Quantification   Quantifica	000	22-Jun	Manufacturing PMI - preliminary data	Jun		56.9	56.3
OOOO         28-jun         Consumer inflation CPI (yoy) - preliminary data         Jun         2.1%         ▼         2.2%         2.1%         O           OO         28-jun         GfK consumer confidence         Jul         10.7         10.7         10.6         -           OOO         29-jun         Retail sales (yoy)‡         May         -1.6%         ▼         1.0%         1.9%         -           OOO         29-jun         Unemployment rate         Jun         5.2%         5.2%         5.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         6.2%         <	00	25-Jun	IFO business climate‡	Jun	102	102	102 🔾
OO         28-Jun         GfK consumer confidence         Jul         10.7         - 10.7         10.6           OOO         29-Jun         Retail sales (yoy)‡         May         -1.6%         ▼         1.0%         1.9%         ■           OO         29-Jun         Unemployment rate         Jun         5.2%         •         5.2%         5.2%         0           France           GDP(yoy) - final data         1Q         2.2%         -         2.2%         2.2%         2.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.	0000	28-Jun	Harmonized consumer inflation HICP (yoy) - preliminary data	Jun	2.1%	2.2%	2.1%
OOO         29-Jun         Retail sales (yoy)‡         May         -1.6%         ▼         1.0%         1.9%         —           France           France           OOO         22-Jun         GDP (yoy) - final data         1Q         2.2%         -         2.2%         0         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.	0000	28-Jun	Consumer inflation CPI (yoy) - preliminary data	Jun	2.1%	2.2%	2.1%
Paramete	00	28-Jun	GfK consumer confidence	Jul	10.7 =	10.7	10.6
Prance	000	29-Jun	Retail sales (yoy)‡	May	-1.6%	1.0%	1.9%
OOOOOO         22-jun         GDP (yoy) - final data         1Q         2.2%         -         2.2%         0           OOOOO         22-jun         GDP (qoq) - final data         1Q         0.2%         -         0.2%         0           OOO         22-jun         Composite PMI - preliminary data         Jun         55.6         A         54.2         54.2           OOO         22-jun         Manufacturing PMI - preliminary data         Jun         -         54.4         54.0           OOOO         29-jun         Harmonized consumer inflation HICP (yoy) - preliminary data         Jun         2.4%         A         2.3%         2.4%         O           OOOO         29-jun         Harmonized consumer inflation HICP (yoy) - preliminary data         Jun         2.1%         A         2.0%         2.1%         O           UK         UK         UK         Italy         Image: Italy	00	29-Jun	Un employment rate	Jun	5.2% =	5.2%	5.2%
○○○○○         22-Jun GDP (qoq) - final data         1Q 0.2% - 0.2% 0.2% 0.0%           ○○○         22-Jun Composite PMI - preliminary data         Jun 55.6			France				
○○○         22-Jun Composite PMI - preliminary data         Jun 55.6	00000	22-Jun	GDP (yoy) - final data	1Q	2.2% =	2.2%	2.2%
000       22-jun       Manufacturing PMI - preliminary data       jun        54.4       54.0         0000       29-jun       Harmonized consumer inflation HICP (yoy) - preliminary data       jun       2.4%       △       2.3%       2.4%       ○         0000       29-jun       Consumer inflation CPI (yoy) - preliminary data       jun       2.1%       △       2.0%       2.1%       ○         Italy         UK         UK       1.0%       1.3%       1.0%       1.3%       1.0%       1.3%       1.3%       1.0%       1.3%       1.3%       1.3%       1.0%       1.3%       1.3%       1.0%       1.3%       1.3%       1.3%       1.0%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.3%       1.2%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.0%       0.0%	00000	22-Jun	GDP (qoq) - final data	1Q	0.2% =	0.2%	0.2%
29-jun Harmonized consumer inflation HICP (yoy) - preliminary data 29-jun Consumer inflation CPI (yoy) - preliminary data 29-jun Consumer inflation CPI (yoy) - preliminary data 3000 29-jun Harmonized consumer inflation HICP (yoy) - preliminary data 3000 28-jun Harmonized consumer inflation HICP (yoy) - preliminary data 3000 21-jun BoE base rate decision 3000 21-jun BoE base rate decision 3000 29-jun GDP (yoy) - final data 3000 29-jun GDP (yoy) - final data 435 00000 29-jun GDP (qoq) - final data 436 0.6% 437 0.6% 438 0.6% 439 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6% 4300 0.6	000	22-Jun	Composite PMI - preliminary data	Jun	55.6	54.2	54.2
29-Jun   Consumer inflation CPI (yoy) - preliminary data   Jun   2.1%	000	22-Jun	Manufacturing PMI - preliminary data	Jun	Jun		54.0
Italy	0000	29-Jun	Harmonized consumer inflation HICP (yoy) - preliminary data	Jun	Jun 2.4% 🔺		2.4%
OOOO       28-jun       Harmonized consumer inflation HICP (yoy) - preliminary data       Jun       1.5%       1.0%       1.3%         UK       UK       UK       O.50%       -       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.50%       0.20%       0.20%       0.20%       0.20%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%       0.1%<	0000	29-Jun	Consumer inflation CPI (yoy) - preliminary data	Jun	2.1%	2.0%	2.1%
UK           30000         21-Jun         BoE base rate decision         Jun         0.50%         -         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.50%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60%         0.60			Italy				
OCOCO         21-Jun         BoE base rate decision         Jun         0.50%         -         0.50%         0.50%           OCOCO         21-Jun         BoE asset purchase target (GBP bn)         Jun         435         -         435         435         0           OCOCO         29-Jun         GDP (yoy) - final data         1Q         1.2%         -         1.2%         0         1.2%         0         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%	0000	28-Jun	Harmonized consumer inflation HICP (yoy) - preliminary data	Jun	1.5%	1.0%	1.3%
Occord         21-Jun         BoE base rate decision         Jun         0.50%         -         0.50%         0.50%           Occord         21-Jun         BoE asset purchase target (GBP bn)         Jun         435         -         435         435           Occord         29-Jun         GDP (yoy) - final data         1Q         1.2%         -         1.2%         1.2%         -            Japan         Occord         22-Jun         Consumer inflation CPI (yoy)         May         0.7%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%         0.6%			UK				
29-Jun GDP (yoy) - final data 1Q 1.2% - 1.2% 1.2% 0 00000 29-Jun GDP (qoq) - final data 1Q 0.2% ▲ 0.1% 0.1% 0.1%	00000	21-Jun	BoE base rate decision	Jun	0.50% =	0.50%	
OOO OO         29-Jun         GDP (qoq) - final data         1Q         0.2%         0.1%         0.1%            • • • • • • • • • • • • • • • • • • •	0000	21-Jun	BoE asset purchase target (GBP bn)	Jun	435 =	435	435
Japan         OOOO 22-Jun Consumer inflation CPI (yoy)       May 0.7%	00000	29-Jun	GDP (yoy) - final data	1Q	1.2% =	1.2%	1.2%
22-Jun Consumer inflation CPI (yoy) May 0.7%	00000	29-Jun	GDP (qoq) - final data	1Q	0.2%	0.1%	0.1%
OOO       22-Jun       Manufacturing PMI - preliminary data       Jun        52.8          OOO       29-Jun       Industrial production (yoy) - preliminary data       May       4.2%       2.6%       3.4%         Chile         OOO       29-Jun       Total copper production (metric tons)       May       498 423       452 912          OOO       29-Jun       Manufacturing (yoy)       May       1.8%       11.8%       2.0%         Canada       Way       2.2%       2.2%       2.2%       2.6%			Japan				
29-Jun Industrial production (yoy) - preliminary data  Chile  29-Jun Total copper production (metric tons)  May 498 423 △ 452 912  29-Jun Manufacturing (yoy)  May 1.8% ▼ 11.8%  2.0%  Canada  22-Jun Consumer inflation CPI (yoy)  May 2.2% - 2.2%  2.6%	0000	22-Jun	Consumer inflation CPI (yoy)	May	0.7%	0.6%	0.6%
Chile           ◆◆◆         29-Jun         Total copper production (metric tons)         May         498 423         ▲ 452 912            ◆◆◆         29-Jun         Manufacturing (yoy)         May         1.8%         ▼ 11.8%         2.0%           Canada           ◆◆         22-Jun         Consumer inflation CPI (yoy)         May         2.2%         -         2.2%         2.6%	000	22-Jun	Manufacturing PMI - preliminary data	Jun		52.8	
29-Jun Total copper production (metric tons) May 498 423 ▲ 452 912 29-Jun Manufacturing (yoy) May 1.8% ▼ 11.8% 2.0% ▼  Canada  22-Jun Consumer inflation CPI (yoy) May 2.2% - 2.2% 2.6% ▼	0000	29-Jun	Industrial production (yoy) - preliminary data	May	4.2%	2.6%	3.4%
29-Jun Manufacturing (yoy) May 1.8% ▼ 11.8% 2.0%  Canada  22-Jun Consumer inflation CPI (yoy) May 2.2% - 2.2% 2.6%  □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □			Chile				*
Canada  OOO 22-Jun Consumer inflation CPI (yoy)  May 2.2% = 2.2% 2.6% →	000	29-Jun	Total copper production (metric tons)	May	498 423	452 912	
22-Jun Consumer inflation CPI (yoy) May 2.2% = 2.2% 2.6%	000	29-Jun	Manufacturing (yoy)	May	1.8%	11.8%	2.0%
3			Canada				*
<b>○○○○○</b> 29-Jun GDP (yoy) Apr 2.5% ▼ 2.9% 2.5% <b>○</b>	0000	22-Jun	Consumer inflation CPI (yoy)	May	2.2% =	2.2%	2.6%
	00000	29-Jun	GDP(yoy)	Apr	2.5%	2.9%	2.5%

<sup>&</sup>lt;sup>1</sup> Reading difference to previous release: ▲ = higher than previous; ▼ = lower than previous; == equal to previous.



# **Key market data**

Key base & precious metal prices, exchange rates and other important market factors

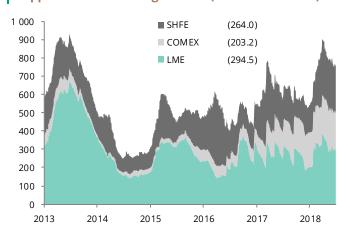
(as of: 29-Jun-18)		Price change <sup>1</sup>					From year beginning <sup>2</sup>					
( 5j. <b>2</b> 5 jan. 15)	Price		2W	QTD			YTD		1Y	Average	Min	Max
LME (USD/t)												312
Copper	6 646.00	_	-4.9%	_	-0.6%	_	-7.1%		12.5%	6 916.74	6 500.00	7 262.50
Molybdenum	26 000.00	-	0.0%	-	0.0%		62.5%		62.5%	21 844.00	16 000.00	26 000.00
Nickel	14 910.00	_	-0.4%		12.6%		21.6%		60.8%	13 871.04	12 415.00	15 750.00
Aluminum	2 183.00	_	-1.7%		9.3%	_	-2.6%		15.0%	2 208.80	1 967.00	2 602.50
Tin	19 675.00	_	-5.9%	•	-6.9%	_	-1.0%	_	-2.0%	21 076.88	19 675.00	22 105.00
Zinc	2 948.00	_	-5.1%	_	-11.5%	_	-10.9%		7.1%	3 267.88	2 895.00	3 618.00
Lead	2 432.00		0.9%		0.9%	_	-2.5%		6.1%	2 455.78	2 274.00	2 683.00
LBMA (USD/troz)												
Silver	16.03	_	-3.5%	•	-1.5%	•	-5.0%	•	-4.8%	16.65	16.03	17.52
Gold <sup>2</sup>	1 250.45	_	-2.4%	•	-5.5%	•	-3.6%		0.6%	1 317.73	1 250.45	1 354.95
LPPM (USD/troz)												
Platinum²	851.00	_	-3.7%	•	-9.1%	•	-8.2%	•	-6.5%	941.19	851.00	1 020.00
Palladium <sup>2</sup>	953.00	_	-3.3%	•	-1.8%	•	-9.8%		12.0%	1 007.49	909.00	1 129.00
FX <sup>3</sup>												
EURUSD	1.1658		0.4%	•	-5.4%	•	-2.8%		2.1%	1.2104	1.1534	1.2493
EURPLN	4.3616		1.7%		3.6%		4.6%		2.8%	4.2201	4.1423	4.3616
USDPLN	3.7440		1.2%		9.7%		7.5%		0.9%	3.4872	3.3173	3.7705
USDCAD	1.3168	_	-0.3%		2.1%		5.0%		1.2%	1.2781	1.2288	1.3310
USDCNY	6.6210		2.8%		5.5%		1.8%	_	-2.4%	6.3711	6.2690	6.6270
USDCLP	647.95		1.8%		7.4%		5.3%	•	-2.2%	611.72	588.28	647.95
Money market												
3m LIBOR USD	2.336		0.01		0.02		0.64		1.04	2.130	1.696	2.369
3m EURIBOR	-0.321		0.00		0.01		0.01		0.01	-0.327	-0.329	-0.321
3m WIBOR	1.700	-	0.00	-	0.00	•	-0.02	$\blacksquare$	-0.03	1.708	1.700	1.720
5y USD interest rate swap	2.890	•	-0.05		0.18		0.65		0.97	2.762	2.283	3.036
5y EUR interest rate swap	0.271	•	-0.01	$\blacksquare$	-0.10	•	-0.04		0.00	0.391	0.224	0.509
5y PLN interest rate swap	2.455	•	0.00		0.09	$\blacksquare$	-0.04		0.09	2.474	2.280	2.740
Fuel	_											
WTI Cushing	74.15		12.6%		14.2%		22.7%		65.0%	65.49	59.19	74.15
Brent	78.60		5.2%		13.7%		17.6%		68.0%	70.82	62.33	79.18
Diesel NY (ULSD)	220.68		3.7%		9.3%		6.9%		52.8%	206.68	183.32	229.33
Others	_											
VIX	16.09		3.78	$\blacksquare$	-3.88		5.05		4.65	16.32	9.15	37.32
BBG Commodity Index	87.41	•	-0.2%	•	-0.1%	•	-0.9%		7.5%	88.70	85.64	91.57
S&P500	2 718.37	•	-2.0%		2.9%		1.7%		12.3%	2 717.94	2 581.00	2 872.87
DAX	12 306.00	•	-4.1%		1.7%	•	-4.7%	$\blacksquare$	-0.9%	12 656.09	11 787.26	13 559.60
Shanghai Composite	2 847.42	•	-5.8%	•	-10.1%	•	-13.9%	•	-10.7%	3 209.96	2 786.90	3 559.47
WIG 20	2 135.47	•	-0.7%	$\blacksquare$	-3.4%	•	-13.2%	$\blacksquare$	-8.3%	2 336.01	2 098.75	2 630.37
KGHM	88.00		1.1%		1.4%	•	-20.9%	•	-21.8%	98.88	84.20	115.00

<sup>°</sup> change over: 2W = two weeks; QTD = quarter-to-day; YTD = year-to-date; 1Y = one year. ¹ based on daily closing prices. ² latest quoted price. ³ central banks' fixing rates (Bank of China HK for USD/CNY). ⁴.

Source: Bloomberg, KGHM

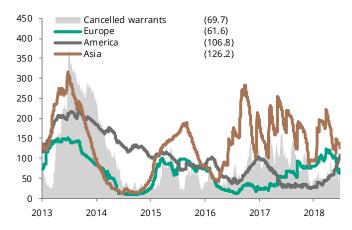


### Copper: official exchange stocks (thousand tonnes)



Note: Latest values in brackets. Source: Bloomberg, KGHM

# **Copper: official LME stocks (thousand tonnes)**



Note: Latest values in brackets. Source: Bloomberg, KGHM

## Copper: price in USD (lhs) and PLN (rhs) per tonne



Source: Bloomberg, KGHM Polska Miedź

### Silver: price (lhs) and gold ratio (rhs)



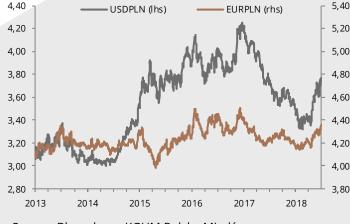
Source: Bloomberg, KGHM Polska Miedź

## USD: dollar index (lhs) and ECB-based EURUSD (rhs)



4,20

PLN: NBP-fixing based rate vs. USD (lhs) and EUR (rhs)



Source: Bloomberg, KGHM Polska Miedź



# **Legal note**

This document has been prepared based on the below listed reports, among others, published in the following period: 18<sup>th</sup> Jun – 1<sup>st</sup> July 2018.

- Barclays Capital,
   BofA Merrill Lynch,
   Citi Research,
   CRU Group,
   Deutsche Bank Markets Research,
- GavekalDragonomics,
   Goldman Sachs,
   JPMorgan,
   Macquarie Capital Research,
   Mitsui Bussan Commodities,
- Morgan Stanley Research,
   SMM Information & Technology,
   Sharps Pixley.

Moreover, additional information published here was acquired in direct conversations with market dealers, from financial institution reports and from the following websites: • thebulliondesk.com, • lbma.org.uk, • lme.co.uk, • metalbulletin.com, • nbp.pl, , also: Bloomberg and Thomson Reuters.

Official metals prices are available on following websites:

base metals: www.lme.com/dataprices\_products.asp (charge-free logging)

silver and gold: www.lbma.org.uk/pricing-and-statistics

platinum and palladium: www.lppm.com/statistics.aspx

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