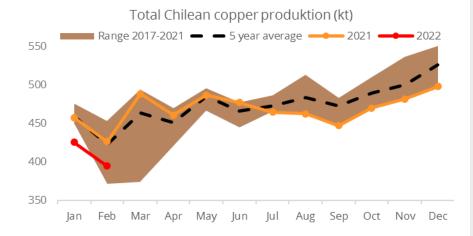


# **Market Overview**

- Copper: Peru will target the "excess profits" mining companies have made on rising metal prices for extra taxation. The minister of economy and finance stressed that it was about profit surplus. He added that it is important that the sector does not lose its competitiveness and that mining investment was not discouraged (page 2).
- Precious metals: London Platinum and Palladium Market (LPPM) stated that the situation in Ukraine prompted LPPM to review the list of refineries accredited to supply metal to the London trading system. LPPM has immediately suspended both accredited Russian refineries, JSC Krastsvetmet and Prioksky Plant of Non-Ferrous Metals, with immediate effect. The suspension excludes from trading in London platinum and palladium produced by these refineries after April 8 (page 4).
- USA: Fed representatives intend to reduce the USD 9 trillion balance sheet by USD 95 billion per month. It was concluded that maximum monthly reductions of \$ 60 billion for government securities and \$ 35 billion for mortgage-backed securities would be appropriate. However, at this pace, pre-pandemic asset levels may not be reached by 2027 (page 5).

### Chilean copper production declines

Source: Cochilco, KGHM Polska Miedź S.A.



as of: 11<sup>th</sup> April 2022

#### Key market prices

		Close price	2w chng.
	LME (USD/t)		
	Copper	10 390.00	1.1%
$\blacksquare$	Nickel	34 100.00	-4.1%
	LBMA (USD/troz)		
$\blacksquare$	Silver	24.63	-3.9%
$\blacksquare$	Gold (PM)	1 941.40	-0.6%
	FX		
•	EURUSD	1.0861	-1.3%
$\blacksquare$	EURPLN	4.6405	-2.2%
$\blacksquare$	USDPLN	4.2703	-1.0%
	USDCAD	1.2589	0.7%
	USDCLP	807.88	2.3%
	Stocks		
•	KGHM	167.00	-5.8%
Source	: Bloomberg, KGHM Po	olska Miedź S.A.;	(more on page

Important macroeconomic data										
	Release	For								
*	Copper production (mt)	Feb	399 817 ▼							
	Manufacturing PMI	Mar	58.8 🔺							
	Manufacturing PMI	Mar	56.5 ▼							
	Manufacturing PMI (sa)	Mar	55.2 ▼							
	NBP rate decision	Apr	4.50% 🔺							
Source: Bloomberg, KGHM Polska Miedź S.A.: (more on page 6										

**Market Risk Unit** 

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

### Copper

### Peru Targets Copper Price Windfall In Dialed-Back Tax Reform

Peru will target the "excess profits" mining companies have made on rising metal prices for extra taxation. The minister of economy and finance stressed that it was about profit surplus. He added that it is important that the sector does not lose its competitiveness and that mining investment was not discouraged.

Peru, the world's no. 2 copper producer, will target "excess profits" that mining firms have gained from soaring global metals prices for extra taxation, the country's economy minister told Reuters. While President Pedro Castillo came to power last July pledging to increase taxes on the powerful mining sector, the current plan is far less ambitious than initial promises of sharp tax hikes that met fierce resistance from the industry and a divided Congress. "The focus is on the surplus profits," Oscar Graham, the country's minister of economy and finance, adding that the government was looking at an "adjustment" to taxes. Copper prices are currently trading at near record levels around \$10,000 per tonne in the wake of Russia's invasion of Ukraine. "The margins (of the adjustment) are being evaluated," he said, but added it was important that the sector did not lose competitiveness and that mining investment was not discouraged. Graham said Peru needed better distribution of mining wealth to communities to quell mining protests that have rocked the sector and stalled production at key mines such as MMG Ltd's Las Bambas and Southern Copper's Cuajone mine. "We have to look at the issue of the efficient use of resources provided by mining, otherwise we will have recurrent conflicts in the country," he said. Graham also said Peru faced risk from any prolongation" of the war in Ukraine, with domestic prices having risen at their fastest pace in a quarter of a century in March. "We are net importers of oil and corn, which form the chain of inputs that most affect the family basket," he said, adding that the government was evaluating doubling the budget for social programs to mitigate inflation for the most vulnerable. Graham said projections of economic growth this year of between 3.5% and 4.0% were unchanged, but he did not rule out a revision given the global crisis. To rebuild investor confidence that has been dented by economic issues and political turmoil, Graham said he would present to Congress a plan to cut the deficit to 1% of gross domestic product (GDP) by 2026. The deficit was cut to 2.6% last year from 8.9% in 2020. "This is very important to provide certainty, especially to international rating agencies and investors," he said. In mid-March, ratings agency Standard & Poor's cut its rating for Peru, citing political uncertainty. President Castillo survived an impeachment vote in late March, the second time lawmakers have tried to remove him.



### Other important information on copper market:

- The London Metal Exchange suspended deliveries of some Russian produced metals into its approved warehouses in Britain on Friday (Apr 8), although there is none stored in them at present. The exchange, which is owned by Hong Kong Exchanges and Clearing Ltd, said in a statement that there was significant risk that someone receiving such metal from British warehouses would be hit with very high additional costs. The British government placed 35% additional duties on imports of Russian copper, lead, primary aluminium and aluminium alloy on March 15. Some LME members have called for bans on Russian metals in its system but the world's largest and oldest venue for trading metals has said it would not go beyond what British government sanctions against Russia dictate. Aluminium produced by Rusal and copper produced by Norilsk Nickel (Nornickel) and JSC Uralelektromed could only be delivered into approved LME warehouses in Britain if it had been exported from Russia before March 25, the LME said. The LME said its suspension also included lead and aluminium alloy made by Rusal and three other producers. "Neither Nornickel nor Rusal send any of their metal to UK warehouses," an industry source said. Britain has two approved locations for LME warehouses, in Hull and Liverpool, but they have very little metal. None of the four metals being suspended are currently being stored in British LME warehouses, LME data shows. LME facilities in Liverpool, however, have 1,416 tonnes of nickel. Nickel is not suspended and is not on the British list for additional duties, even though Russia's Norilsk Nickel is one of the world's biggest producers.
- Water shortages and lower ore grades sent Chilean copper production to its lowest levels in five years in February, Chilean Copper Commission data showed April 5. Production fell to 394,700 mt in February, down 7.5% from February 2021, according to a monthly report from the commission. The sharpest falls were recorded at some of the country's largest copper mines. While production at the BHP-operated Escondida fell to 69,990 mt, down 14.3% from a year earlier, production at Antofagasta Minerals Los Pelambres mine fell 38.7% to 16,300 mt while production at Anglo American's Sur complex, including Los Bronces, fell 9.9% to 24,500 mt. Antofagasta and Anglo American have both warned that water shortages will slow copper production this year, while BHP has said lower ore grades will squeeze production at Escondida, the world's largest copper mine. Meanwhile, production at state copper firm Codelco was little changed at 123,600 mt, as lower output at its Chuquicamata complex was offset by higher production at its Gabriel Mistral mine. Production in the first two months of the year totaled 820,400 mt, down 7.2% from 12 months earlier.
- Peruvian production of copper, tin, molybdenum and gold all rose on the year in February, while zinc, lead and silver declined, the country's Energy and Mines Ministry said April 7. Copper output climbed 0.4% to 172,334 mt from 171,590 mt a year ago due to the start-up of Minsur's \$1.6 billion Mina Justa mine and gains at Freeport-McMoRan's Cerro Verde (up 13.4%) and China Minmetals' Las Bambas (up 10%), the ministry said in a statement. Gold production was up 1.4% to 7,093 kg from 6,993 kg a year ago due to gains at mines operated by Newmont



and Canada's Hudbay, according to the ministry. Minsur, boosted tin output by 4.8% to 2,043 mt, while molybdenum rose 11.5% to 2,760 mt on gains at Southern Copper and Cerro Verde. Zinc production dropped 12.8% to 116,884 mt and lead was down 5.3% to 20,549 mt as Canada's Trevali Mining and local miner Buenaventura closed their units. Silver fell 9.6% to 242,849 kg.

### **Precious Metals**

# London market blocks newly refined Russian platinum and palladium

London Platinum and Palladium Market (LPPM) stated that the situation in Ukraine prompted LPPM to review the list of refineries accredited to supply metal to the London trading system. LPPM has immediately suspended both accredited Russian refineries, JSC Krastsvetmet and Prioksky Plant of Non-Ferrous Metals, with immediate effect. The suspension excludes from trading in London platinum and palladium produced by these refineries after April 8.

As Reuters informs, newly refined Russian platinum and palladium was suspended from trading in London from Friday (Apr 8), denying access to the metals' biggest trade hub in the latest in a growing list of measures against Russian interests because of the conflict in Ukraine. Prices of palladium surged as much as 11%, with traders fearing the move could worsen a shortage of the metal automakers use in exhaust pipes to reduce emissions. Russia's Norilsk Nickel produces 25-30% of the world's palladium supply and about 10% its platinum, which is also used to curb vehicle emissions as well as in other industries and to make jewellery. The London Platinum and Palladium Market (LPPM), an industry association, said the situation in Ukraine prompted it to review its list of "good delivery" refiners accredited to deliver metal into the London trading system. The LPPM said it would suspend with immediate effect both Russian refiners on its list, ISC Krastsvetmet and the Prioksky Plant of Non-Ferrous Metals. The suspension blocks platinum and palladium produced by these refiners after April 8 from trading in London, though products they made while accredited remain eligible to trade, the LPPM said. The decision comes a month after a similar industry group, the London Bullion Market Association (LBMA), suspended the accreditation of Russian refiners, blocking new Russian gold and silver from London. Nornickel declined to comment. A source close to Nornickel said the LPPM decision would restrict its ability to sell to banks but sales to manufacturers, which form the bulk of its business, would be unaffected. Industry sources in London, however, said the move increases pressure on manufacturers to reject Russian platinum and palladium. The LPPM statement did not draw a direct link between its decision and the increasing array of sanctions against Russia introduced by Western powers since Russia's invasion, which Moscow describes as a "special military operation". The European Union on Friday (Apr 8) adopted its fifth package of sanctions, including bans on the import of coal, wood, chemicals and other products. EU governments have also frozen about 30 billion euros (\$32.6 billion) of assets linked to oligarchs and other sanctioned people with ties to the Kremlin.



## **Global economies | Foreign exchange markets**

### Fed's 5-year balance sheet plan may be interrupted

Fed representatives intend to reduce the USD 9 trillion balance sheet by USD 95 billion per month. It was concluded that maximum monthly reductions of \$ 60 billion for government securities and \$ 35 billion for mortgage-backed securities would be appropriate. However, at this pace, pre-pandemic asset levels may not be reached by 2027.

In Reuters opinion the U.S. central bank may not be able to finish the task it's about to start. Federal Reserve officials aim eventually to reduce its \$9 trillion balance sheet by \$95 billion a month. At that pace, even already fat pre-pandemic levels of assets might not be reached until early 2027. That's a long time in economics, and in politics. The Fed's stock of assets has ballooned over the last 15 years. It was less than \$1 trillion before the 2008 financial crisis, which spurred the central bank to purchase bonds to support the economy. The balance sheet topped \$4.5 trillion in 2015 and remained around that level until then-Chair Janet Yellen began shrinking it in 2018. The Fed mobilized again in the wake of the pandemic's arrival in early 2020. It more than doubled its assets to about \$9 trillion at the end of March. Now with inflation at a 40-year high, the Fed wants to offload Treasury securities and agency mortgage-backed securities at a higher pace than during the last tightening phase, according to minutes of the March rate-setting committee meeting released on Wednesday (Apr 6). With a so-called quantitative tightening (QT) process starting after the next meeting in May and ramping up to \$95 billion in monthly reductions, it would be roughly five years before the Fed's assets regained the 2019 low point of \$3.8 trillion. If the Fed merely wants to return to a balance sheet amounting to about 19% of GDP, the level before Covid-19, that would mean reducing it to about \$4.5 trillion. Even that would take until 2026. A lot could happen in the meantime. A flattening Treasury yield curve may be foreshadowing a potential recession. The November midterm elections might shift control of Congress from Democrats to Republicans, affecting fiscal policy. And there's a presidential race in 2024. That's all aside from geopolitical upheaval like Russia's invasion of Ukraine. The last balance sheet reduction effort ended abruptly. The Fed halted its QT program earlier than expected in 2019 to head off perceived problems. The central bank's toolkit has evolved over time, making history less of a guide. But policies like QT are tough to maintain in the face of economic or political hiccups. A more "normal" balance sheet level may prove elusive. At its March meeting, the U.S. Federal Open Market Committee discussed plans for reducing the size of the Federal Reserve's balance sheet, according to minutes released on April 6. FOMC participants generally agreed that maximum monthly reductions of about \$60 billion for Treasury securities and about \$35 billion for agency mortgagebacked securities would likely be appropriate. They also agreed that the caps might be phased in over a period of three months. The reduction process could begin after the FOMC's next scheduled meeting on May 3-4.



## **Macroeconomic calendar**

### Important macroeconomic data releases

Weight	Date	Event	For	Reading	1	Previous	Consens	us <sup>:</sup>
		China					*	
000	31-Mar	Official manufacturing PMI	Mar	49.5	▼	50.2	49.8	
000	01-Apr	Caixin's manufacturing PMI	Mar	48.1	•	50.4	49.9	_
0	07-Apr	Foreign reserves (USD bn)	Mar	3 188	•	3 214	3 199	
		Poland						
0000	01-Apr	Consumer inflation CPI (yoy) - preliminary data‡	Mar	10.9%	<b>A</b>	8.5%	9.8%	
000	01-Apr	Manufacturing PMI	Mar	52.7	<b>V</b>	54.7	53.1	_
00000	06-Apr	NBP base rate decision	Apr	4.50%		3.50%	4.00%	
		US						
0	28-Mar	Dallas Fed manufacturing activity	Mar	8.7	•	14.0	11.0	_
00000	30-Mar	GDP (annualized, qoq) -	4Q	6.9%	•	7.0%	7.0%	_
0000	31-Mar	Consumer spending inflation PCE (mom)	Feb	0.4%	•	0.5%	0.4%	0
0000	31-Mar	Consumer spending inflation PCE (yoy)	Feb	5.4%		5.2%	5.5%	_
00	31-Mar	Personal income (sa, mom)‡	Feb	0.5%		0.1%	0.5%	0
00	31-Mar	Personal spending (sa, mom)‡	Feb	0.2%	<b>V</b>	2.7%	0.5%	_
000	01-Apr	Manufacturing PMI - final data	Mar	58.8		58.5	58.5	
00	01-Apr	Change in non-farm payrolls (ths)‡	Mar	431	•	750	490	_
00	01-Apr	ISM Manufacturing	Mar	57.1	•	58.6	59.0	_
00	01-Apr	Underemployment rate (U6)	Mar	6.9%	•	7.2%		
00	01-Apr	Unemployment rate	Mar	3.6%	•	3.8%	3.7%	_
0	01-Apr	Average hourly earnings (yoy)‡	Mar	5.6%		5.2%	5.5%	
00	04-Apr	Durable goods orders - final data	Feb	-2.1%		-2.2%	-2.2%	
000	05-Apr	Composite PMI - final data	Mar	57.7	•	58.5	58.5	_
000	05-Apr	PMI services - final data	Mar	58.0	▼	58.9	58.9	_
		Eurozone						
٥	30-Mar	Economic confidence‡	Mar	109		114	108	
0	30-Mar	Industrial confidence‡	Mar	10.4		14.1	8.9	
0	30-Mar	Consumer confidence - final data	Mar	- 18.7	-	- 18.7		
00	31-Mar	Unemployment rate‡	Feb	6.8%	•	6.9%	6.7%	
0000	01-Apr	Core CPI (yoy) - preliminary data	Mar	3.0%		2.7%	3.1%	_
0000	01-Apr	CPI estimate (yoy)‡	Mar	7.5%		5.9%	6.7%	
000	01-Apr	Manufacturing PMI - final data	Mar	56.5	•	57.0	57.0	_
000	05-Apr	Composite PMI - final data	Mar	54.9		54.5	54.5	
000	05-Apr	Services PMI - final data	Mar	55.6		54.8	54.8	
00	06-Apr	Producer inflation PPI (yoy)	Feb	31.4%		30.6%	31.6%	_
00	07-Apr	Retail sales (yoy)‡	Feb	5.0%	<b>V</b>	8.4%	4.9%	
		Germany						
00	29-Mar	GfK consumer confidence‡	Apr	- 15.5	<b>V</b>	- 8.5	- 14.5	_
0000	30-Mar	Harmonized consumer inflation HICP (yoy) - preliminary data	Mar			5.5%	6.8%	
0000	30-Mar	Consumer inflation CPI (yoy) - preliminary data	Mar	7.3%		5.1%	6.2%	
000	31-Mar	Retail sales (yoy)‡	Feb	7.1%	<b>V</b>	10.0%	6.3%	
00	31-Mar	Unemployment rate	Mar	5.0%	-	5.0%	5.0%	C
000	01-Apr	Manufacturing PMI - final data	Mar	56.9	<b>V</b>	57.6	57.6	-
000	05-Apr	Composite PMI - final data	Mar	55.1		54.6	54.6	
000	06-Apr	Factory orders (wda, yoy)‡	Feb	2.9%	▼	8.2%	5.4%	



France	sensus	Conse	Previous	1	Reading <sup>1</sup>		For	Event	eight Date
OOOO         31-Mar         Consumer inflation CPI (yoy) - preliminary data         Mar         4.5%         ▲ 3.6%           OOO         01-Apr         Manufacturing PMI - final data         Mar         54.7         ▼ 54.8           OOO         05-Apr         Industrial production (yoy)‡         Feb         2.4%         ▲ 1.1.1%           OOO         05-Apr         Composite PMI - final data         Mar         56.3         ▲ 56.2           Italy           OOO         31-Mar         Harmonized consumer inflation HICP (yoy) - preliminary data         Mar         7.0%         ▲ 6.2%           OOO         31-Mar         Unemployment rate‡         Feb         8.5%         ▼ 8.6%           OOO         01-Apr         Manufacturing PMI         Mar         55.8         ▼ 58.3           OOO         05-Apr         Composite PMI         Mar         52.1         ▼ 53.6           UK         UK         V         53.6         V         58.3           OOO         31-Mar         GDP (yoy) - final data         4Q         6.6%         A 6.5%           OOO         31-Mar         GDP (yoy) - final data         Mar         55.2         ▼ 55.5           OOO         01-Apr         Manufact								France	
OOO         01-Apr         Manufacturing PMI - final data         Mar         54.7         ▼ 54.8           OOO         05-Apr         Industrial production (yoy)‡         Feb         2.4%         ▲ 1.1.1%           OOO         05-Apr         Composite PMI - final data         Mar         56.3         ▲ 56.2           Italy           Use on 31-Mar Unemployment rate4         Feb         8.5%         ▼ 8.6%           OOO         01-Apr Manufacturing PMI         Mar         55.8         ▼ 58.3           OOO         05-Apr Composite PMI         Mar         52.1         ▼ 53.6           UK           UK           OOOOO         31-Mar         GDP (yoy) - final data         4Q         6.6%         A 6.5%           OOOOO         31-Mar         GDP (yoy) - final data         4Q         1.3%         A 1.0%           OOOO         31-Mar         GDP (yoy) - final data         Mar         55.2         ▼ 55.5           Japan           Japan           Japan           Japan           Japan           Japan         Japan         Japan	4.9%	4.9	4.2%	<b>A</b>	5.1%		Mar	Harmonized consumer inflation HICP (yoy) - preliminary data	<b>000</b> 31-Ma
OOOO         05-Apr (ormposite PMI - final data)         Feb (ormposite PMI - final data)         2.4% (ormposite PMI - final data)         -1.1% (ormposite PMI - final data)         Mar (ormposite PMI - final data)         56.3 (ormposite PMI - final data)         -1.1% (ormposite PMI - final data)         Mar (ormposite PMI - final data)         Mar (ormposite PMI - final data)         -1.0% (ormposite PMI - final data	4.3%	4.3	3.6%		4.5%		Mar	Consumer inflation CPI (yoy) - preliminary data	<b>000</b> 31-Ma
Table   Tab	54.8	54	54.8	$\blacksquare$	54.7		Mar	Manufacturing PMI - final data	<b>00</b> 01-Ap
Italy	2.5%	2.5	-1.1%		2.4%		Feb	Industrial production (yoy)‡	<b>000</b> 05-Ap
31-Mar	56.2	56	56.2		56.3		Mar	Composite PMI - final data	<b>00</b> 05-Ap
Section   Sec								Italy	
000 01-Apr Manufacturing PMI Mar 55.8 ▼ 58.3  000 05-Apr Composite PMI Mar 52.1 ▼ 53.6  UK  0000 31-Mar GDP (yoy) - final data 4Q 6.6% △ 6.5%  0000 01-Apr Manufacturing PMI (sa) - final data 4Q 1.3% △ 1.0%  000 05-Apr Composite PMI - final data Mar 55.2 ▼ 55.5  000 05-Apr Composite PMI - final data Mar 60.9 △ 59.7  Japan  0000 31-Mar Industrial production (yoy) - preliminary data Feb 0.2% △ -0.5%  000 01-Apr Manufacturing PMI - final data Mar 54.1 △ 53.2  000 05-Apr Composite PMI - final data Mar 50.3 △ 49.3  Chile  0000 31-Mar Total copper production (metric tons)‡ Feb 399 817 ▼ 430 388  000 31-Mar Manufacturing (yoy) Feb -2.2% ▼ 2.6%  0000 01-Apr Economic activity (yoy)‡ Feb 6.8% ▼ 9.6%  0000 07-Apr Copper exports (USD mn)‡ Mar 4 946 △ 7.5%  Canada	7.2%	7.2	6.2%		7.0%		Mar	Harmonized consumer inflation HICP (yoy) - preliminary data	<b>000</b> 31-Ma
Obe         O5-Apr         Composite PMI         Mar         52.1         ▼         53.6           UK         UK         Summer of the part of the p	8.7%	8.7	8.6%	$\blacksquare$	8.5%		Feb	Unemployment rate‡	<b>⊙</b> 31-Ma
UK           ○○○○○ 31-Mar         GDP (yoy) - final data         4Q         6.6%         ▲         6.5%           ○○○○ 31-Mar         GDP (qoq) - final data         4Q         1.3%         ▲         1.0%           ○○○ 01-Apr         Manufacturing PMI (sa) - final data         Mar         55.2         ▼         55.5           ○○○ 05-Apr         Composite PMI - final data         Mar         60.9         ▲         59.7           Japan         Jayan           ○○○ 31-Mar         Industrial production (yoy) - preliminary data         Feb         0.2%         ▲         -0.5%           ○○○ 01-Apr         Manufacturing PMI - final data         Mar         54.1         ▲         53.2           ○○○ 05-Apr         Composite PMI - final data         Mar         50.3         A         49.3           Chile           ○○○ 05-Apr         BCCh overnight rate target         Mar         7.0%         ▲         5.50%           ○○○ 29-Mar         BCCh overnight rate target         Mar         7.0%         ▲         5.50%           ○○○ 31-Mar         Total copper production (metric tons)‡         Feb         399 817         ▼         430 388           ○○○ 31-Mar         Manufacturing (	57.0	57	58.3	$\blacksquare$	55.8		Mar	Manufacturing PMI	<b>00</b> 01-Ap
00000       31-Mar       GDP(yoy) - final data       4Q       6.6%       ▲       6.5%         00000       31-Mar       GDP(qoq) - final data       4Q       1.3%       ▲       1.0%         000       01-Apr       Manufacturing PMI (sa) - final data       Mar       55.2       ▼       55.5         000       05-Apr       Composite PMI - final data       Mar       60.9       ▲       59.7         Japan         000       31-Mar       Industrial production (yoy) - preliminary data       Feb       0.2%       ▲       -0.5%         000       01-Apr       Manufacturing PMI - final data       Mar       54.1       ▲       53.2         000       05-Apr       Composite PMI - final data       Mar       50.3       ▲       49.3         Chile         Chile         Chile         Chile         O000       29-Mar       BCCh overnight rate target       Mar       7.00%       ▲       5.50%         000       31-Mar       Total copper production (metric tons)‡       Feb       399 817       ▼       430 388         000       31-Mar       Manufacturing (yoy)       Feb <t< td=""><td>52.1</td><td>52</td><td>53.6</td><td><math>\blacksquare</math></td><td>52.1</td><td></td><td>Mar</td><td>Composite PMI</td><td><b>00</b> 05-Ap</td></t<>	52.1	52	53.6	$\blacksquare$	52.1		Mar	Composite PMI	<b>00</b> 05-Ap
31-Mar GDP (qoq) - final data 4Q 1.3% ▲ 1.0%  000 01-Apr Manufacturing PMI (sa) - final data Mar 55.2 ▼ 55.5  000 05-Apr Composite PMI - final data Mar 60.9 ▲ 59.7   Japan  000 01-Apr Manufacturing PMI (so) - preliminary data Feb 0.2% ▲ -0.5%  000 01-Apr Manufacturing PMI - final data Mar 54.1 ▲ 53.2  000 05-Apr Composite PMI - final data Mar 50.3 ▲ 49.3  Chile  Chile  000 029-Mar BCCh overnight rate target Mar 7.00% ▲ 5.50%  000 31-Mar Total copper production (metric tons)‡ Feb 399 817 ▼ 430 388  000 31-Mar Manufacturing (yoy) Feb -2.2% ▼ 2.6%  000 01-Apr Economic activity (yoy)‡ Feb 6.8% ▼ 9.6%  000 07-Apr Copper exports (USD mn)‡ Mar 4 946 ▲ 3 843  000 07-Apr Nominal wages (yoy) Feb 7.7% ▲ 7.5%  Canada								UK	
OOO         01-Apr         Manufacturing PMI (sa) - final data         Mar         55.2         ▼         55.5           OOO         05-Apr         Composite PMI - final data         Mar         60.9         ▲         59.7           Japan           Composite PMI - final data         Mar         54.1         53.2           Composite PMI - final data         Mar         7.00%         A         55.50%           Chile           BCCh overnight rate target         Mar         7.00%         A         5.50%           JapanMar         Mar         7.00%	6.5%	6.5	6.5%	<b>A</b>	6.6%		4Q	GDP (yoy) - final data	<b>0000</b> 31-Ma
Decision   Decision	1.0%	1.0	1.0%		1.3%		4Q	GDP (qoq) - final data	<b>0000</b> 31-Ma
Japan	55.5	55	55.5	•	55.2		Mar	Manufacturing PMI (sa) - final data	<b>≎≎</b> 01-Ap
10   10   10   10   10   10   10   10	59.7	59	59.7		60.9		Mar	Composite PMI - final data	<b>≎≎</b> 05-Ap
000 01-Apr Manufacturing PMI - final data Mar 54.1								Japan	
Chile         Mar         50.3	0.8%	0.0	-0.5%		0.2%		Feb	Industrial production (yoy) - preliminary data	<b>000</b> 31-Ma
Chile           CODOO 29-Mar         BCCh overnight rate target         Mar         7.00%         5.50%           COO 31-Mar         Total copper production (metric tons)‡         Feb         399 817         ▼         430 388           COO 31-Mar         Manufacturing (yoy)         Feb         -2.2%         ▼         2.6%           COO 01-Apr         Economic activity (yoy)‡         Feb         6.8%         ▼         9.6%           COO 07-Apr         Copper exports (USD mn)‡         Mar         4 946         ▲         3 843           CO 07-Apr         Nominal wages (yoy)         Feb         7.7%         ▲         7.5%			53.2		54.1		Mar	Manufacturing PMI - final data	<b>00</b> 01-Ap
29-Mar BCCh overnight rate target			49.3		50.3		Mar	Composite PMI - final data	<b>≎≎</b> 05-Ap
31-Mar Total copper production (metric tons)‡ Feb 399 817 ▼ 430 388 31-Mar Manufacturing (yoy) Feb -2.2% ▼ 2.6% 31-Mar Economic activity (yoy)‡ Feb 6.8% ▼ 9.6% 31-Mar Copper exports (USD mn)‡ Mar 4 946 ▲ 3 843 30 07-Apr Nominal wages (yoy) Feb 7.7% ▲ 7.5%  Canada	*							Chile	
31-Mar Manufacturing (yoy) Feb -2.2% ▼ 2.6% 0000 01-Apr Economic activity (yoy)‡ Feb 6.8% ▼ 9.6% 000 07-Apr Copper exports (USD mn)‡ Mar 4 946 ▲ 3 843 00 07-Apr Nominal wages (yoy) Feb 7.7% ▲ 7.5%  Canada	7.50%	7.50	5.50%	<b>A</b>	7.00%		Mar	BCCh overnight rate target	<b>0000</b> 29-Ma
0000 01-Apr Economic activity (yoy)‡ Feb 6.8% ▼ 9.6% 000 07-Apr Copper exports (USD mn)‡ Mar 4 946 ▲ 3 843 000 07-Apr Nominal wages (yoy) Feb 7.7% ▲ 7.5%  Canada			430 388	<b>V</b>	399 817		Feb	Total copper production (metric tons)‡	<b>00</b> 31-Ma
000 07-Apr Copper exports (USD mn)‡ Mar 4 946	0.2%	0.2	2.6%	$\blacksquare$	-2.2%		Feb	Manufacturing (yoy)	<b>00</b> 31-Ma
©© 07-Apr Nominal wages (yoy) Feb 7.7% ▲ 7.5%  Canada	8.0%	8.0	9.6%	$\blacksquare$	6.8%		Feb	Economic activity (yoy)‡	<b>000</b> 01-Ap
Canada			3 843		4 946		Mar	Copper exports (USD mn)‡	<b>00</b> 07-Ap
			7.5%		7.7%		Feb	Nominal wages (yoy)	<b>⊙</b> 07-Ap
20000 24 May CDD(va)+	*							Canada	
31-ivial GDP(yoy)+ jain 3.5% ▼ 3.7%	3.6%	3.6	3.7%	▼	3.5%		Jan	GDP(yoy)‡	<b>0000</b> 31-Ma
○○○ 08-Apr Net change in employment (ths) Mar 72.5 ▼ 337	79.9	79	337	<b>V</b>	72.5		Mar	Net change in employment (ths)	<b>00</b> 08-Ap

<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

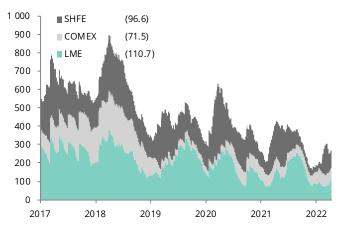
(as of: 08-Apr-22)		Price change <sup>1</sup>						From year beginning <sup>2</sup>				
(45 5). 55, 45. 22)	Price		2W		QTD		YTD		1Y	Average	Min	Max
LME (USD/t; Mo in USD/lbs)					٧					7110110		
Copper	10 390.00		1.1%		0.5%		7.2%		15.4%	10 026.33	9 565.00	10 730.00
Molybdenum	19.22	_	-0.6%	_	-0.5%		2.9%	_		19.08	18.69	19.33
Nickel	34 100.00	_	-4.1%		2.1%		63.0%		103.2%	27 165.24	20 480.00	45 795.00
Aluminum	3 395.00	_	-5.2%	•	-3.1%		21.0%		49.7%	3 292.39	2 815.50	3 984.50
Tin	44 295.00		3.9%		0.2%		11.8%		59.7%	43 556.38	39 400.00	50 050.00
Zinc	4 280.00		5.1%		0.5%		17.9%		51.4%	3 803.50	3 535.00	4 471.00
Lead	2 425.00		3.4%	$\blacksquare$	-0.3%		4.1%		23.2%	2 342.61	2 199.00	2 513.00
LBMA (USD/troz)												
Silver	24.63	_	-3.9%	$\blacksquare$	-0.8%		6.7%	_	-2.8%	24.05	22.24	26.18
Gold <sup>2</sup>	1 941.40	_	-0.6%	$\blacksquare$	0.0%		6.7%		10.6%	1 882.16	1 788.15	2 039.05
LPPM (USD/troz)												
Platinum <sup>2</sup>	972.00	_	-3.9%	$\blacksquare$	-1.1%		1.0%	_	-20.5%	1 025.30	931.00	1 151.00
Palladium²	2 442.00	_	-2.2%		8.1%		26.7%	_	-7.8%	2 332.39	1 854.00	3 015.00
FX <sup>3</sup>												
EURUSD	1.0861	_	-1.3%	$\blacksquare$	-2.2%	•	-4.1%	•	-8.5%	1.1192	1.0861	1.1464
EURPLN	4.6405	_	-2.2%	$\blacksquare$	-0.3%		0.9%		1.8%	4.6279	4.4879	4.9647
USDPLN	4.2703	_	-1.0%		2.2%		5.2%		11.3%	4.1371	3.9218	4.5722
USDCAD	1.2589		0.7%		0.7%	•	-0.7%		0.1%	1.2650	1.2451	1.2867
USDCNY	6.3650	_	0.0%		0.4%		0.1%	•	-2.8%	6.3479	6.3093	6.3830
USDCLP	807.88		2.3%		2.6%	•	-4.4%		13.1%	806.92	777.10	852.03
Money market	_											
3m LIBOR USD	1.011		0.03		0.05		0.80		0.82	0.565	0.216	1.011
3m EURIBOR	-0.449		0.03		0.01		0.12		0.10	-0.521	-0.576	-0.447
3m WIBOR	5.320		0.72		0.55		2.78		5.11	3.650	2.590	5.320
5y USD interest rate swap	2.818		0.20		0.30		1.45		1.87	1.992	1.445	2.818
5y EUR interest rate swap	1.200		0.23		0.22		1.18		1.55	0.520	0.031	1.200
5y PLN interest rate swap	5.890		0.44		0.73		2.15		4.67	4.439	3.780	5.890
Fuel	_											
WTI Cushing	98.26	•	-14.9%	$\blacksquare$	-2.0%		27.6%		64.9%	95.82	76.99	123.70
Brent	101.91	•	-14.9%	$\blacksquare$	-4.4%		31.6%		62.1%	100.25	79.83	133.89
Diesel NY (ULSD)	351.76	•	-16.2%	$\blacksquare$	-4.7%		46.8%		94.2%	318.29	241.70	458.23
Others	_											
VIX	21.16		0.35		0.60		3.94		4.21	25.08	16.91	36.45
BBG Commodity Index	126.41	•	-2.6%		1.6%		27.5%		49.8%	115.31	100.58	132.63
S&P500	4 488.28	•	-1.2%	$\blacksquare$	-0.9%	$\blacksquare$	-5.8%		9.5%	4 463.97	4 170.70	4 793.54
DAX	14 283.67	•	-0.2%	$\blacksquare$	-0.9%	•	-10.1%	•	-6.0%	14 856.32	12 831.51	16 271.75
Shanghai Composite	3 251.85		1.2%	$\blacksquare$	0.0%	•	-10.7%	•	-6.6%	3 405.30	3 063.97	3 632.33
WIG 20	2 085.07	•	-1.4%	$\blacksquare$	-2.2%	•	-8.0%		5.3%	2 151.91	1 817.45	2 411.11
KGHM	167.00	•	-5.8%	$\blacksquare$	-3.4%		19.8%	•	-16.2%	158.88	135.05	182.20

<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 Polska Miedź

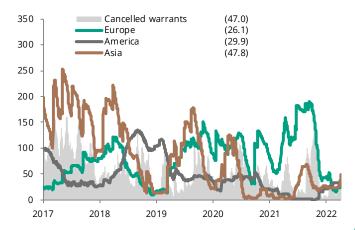


### Copper: official exchange stocks (thousand tonnes)



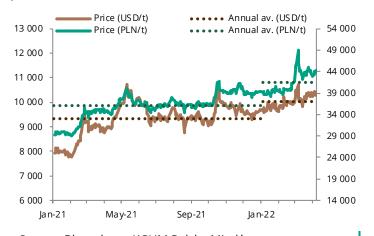
Note: Latest values in brackets. Source: Bloomberg, KGHM

### **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

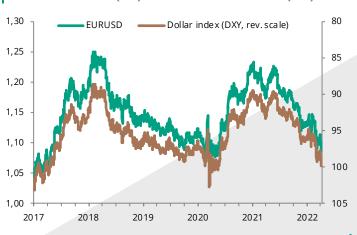
Source: Bloomberg, KGHM Polska Miedź

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



Source: Bloomberg, KGHM Polska Miedź

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



PLN: NBP-fixing based rate vs. USD (lhs) and EUR (rhs) 4,80 5,10 USDPLN (lhs) EURPLN (rhs) 4,60 4,90 4,40 4,20 4,70 4,00 4,50 3,80 3,60 4,30 3,40 4,10 3,20 3,00 3,90 2017 2018 2019 2020 2021 2022



### **Legal note**

This document has been prepared based on the below listed reports, among others, published in the following period: **28 March - 10 April 2022.** 

- 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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