Classification: Confidential

From aluminium to zinc: outlook for 2024 and beyond 龍年所至,金屬為開一談未來市場大勢

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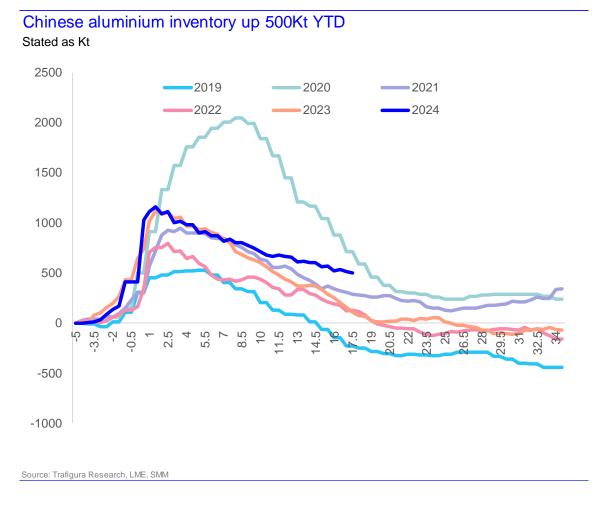
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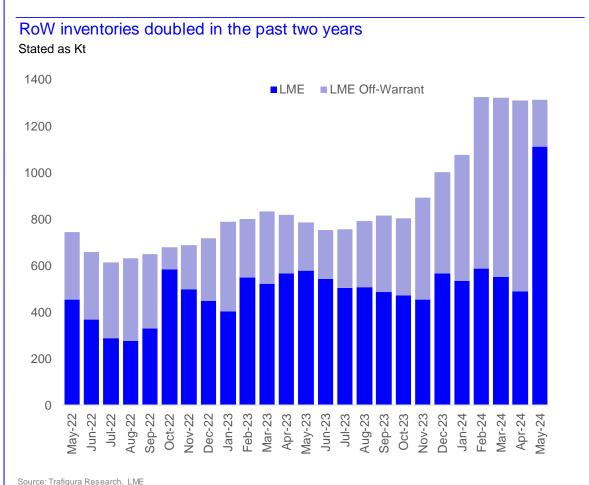
Aluminium – The Seven Things You Should Know

June 2024

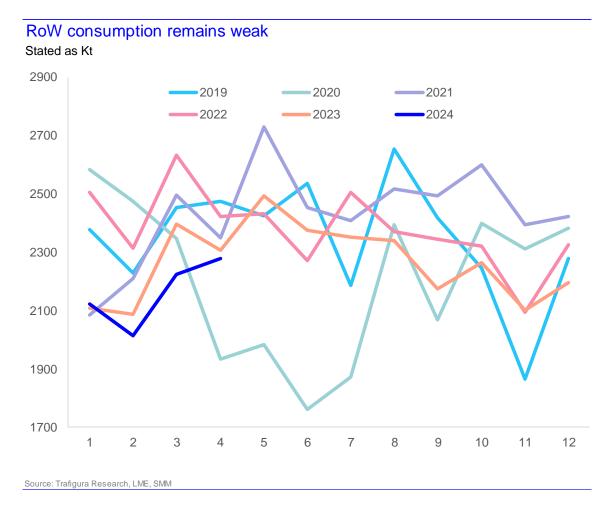
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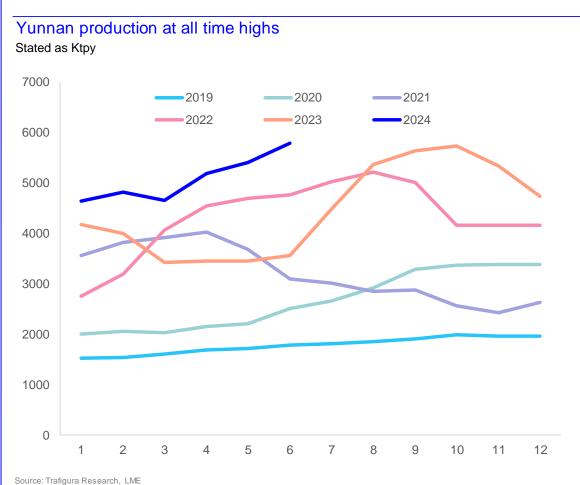
1. Inventories are looser than they have been in several years – both in China & RoW





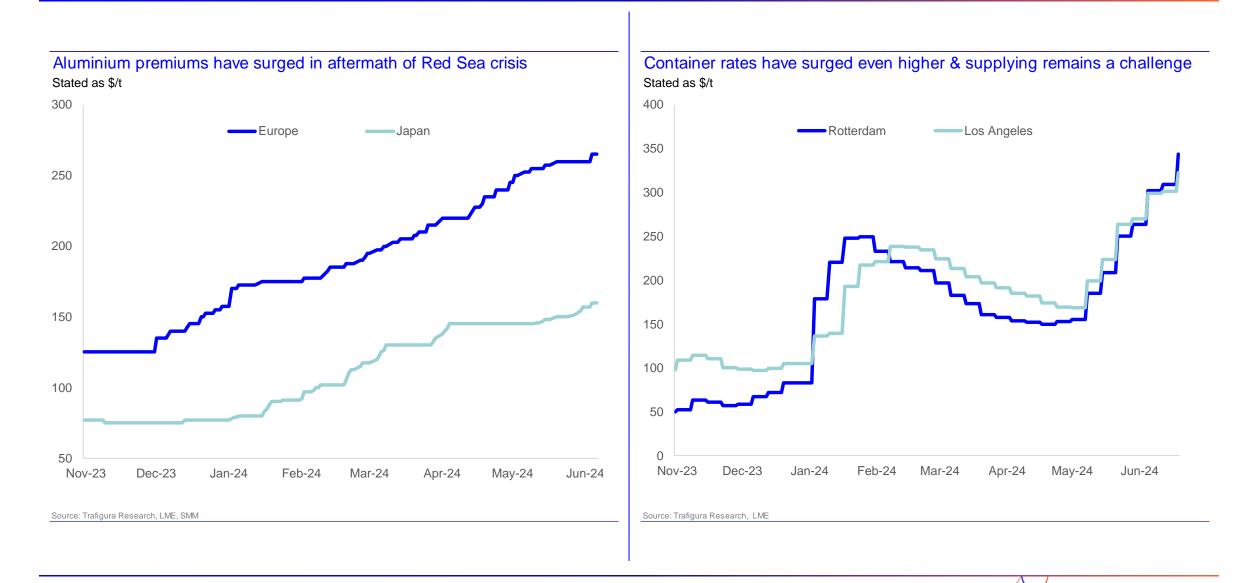
2. Demand is weak in RoW & supply is growing in China





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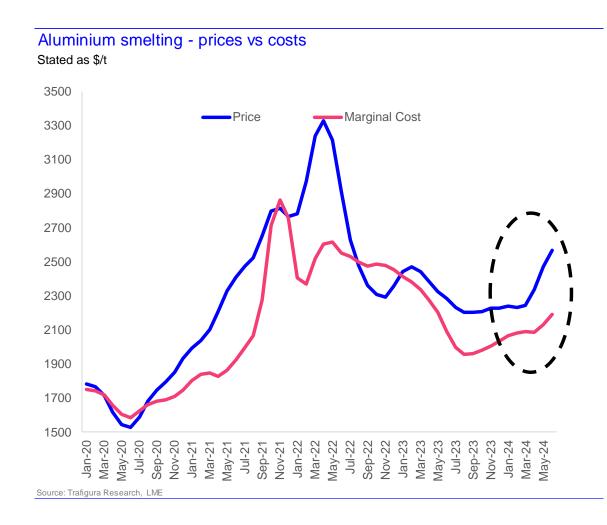
3. Higher premiums are a result of higher freight costs, not higher demand

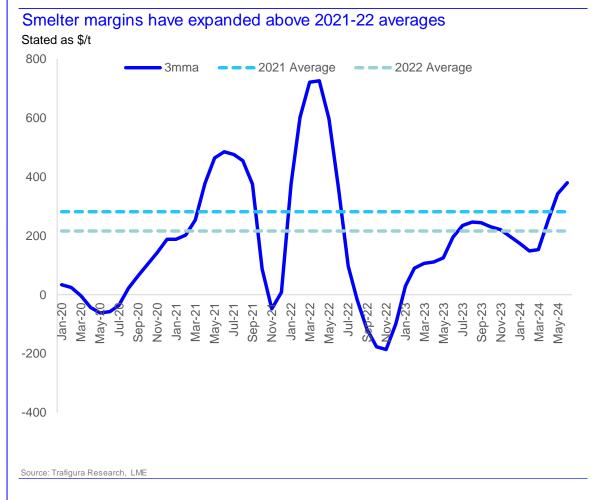


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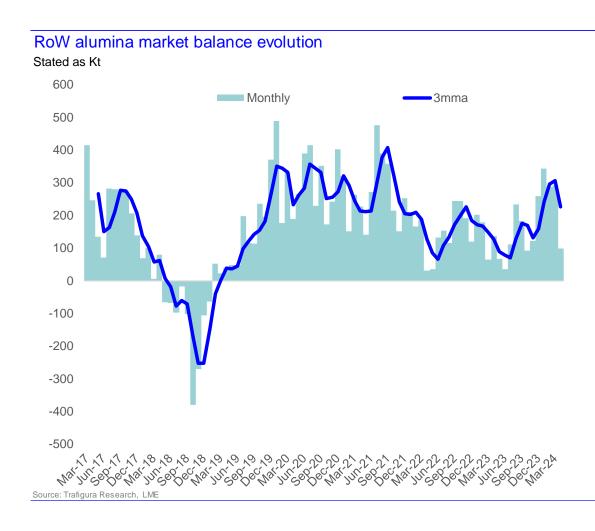
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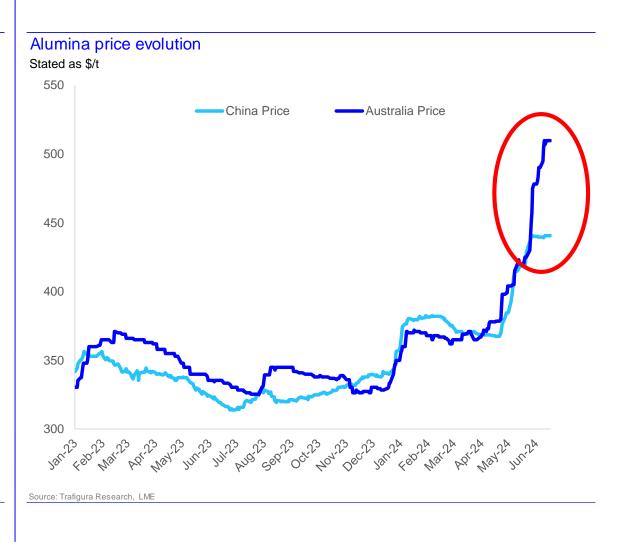
4. Smelter margins are expanding despite market weakness which is not normal

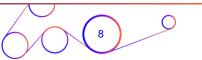




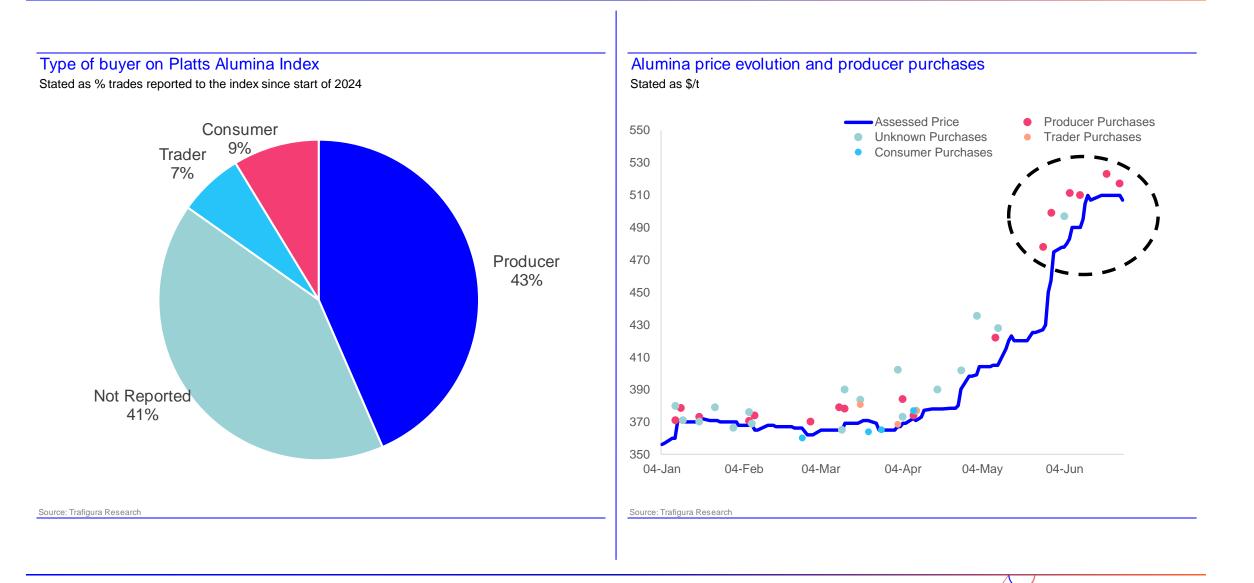
5. Alumina prices disconnecting with fundamentals after price spike







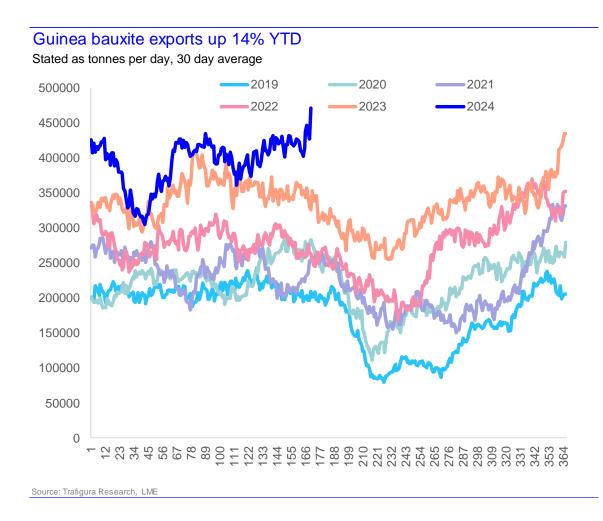
6. Platts alumina price analysis points towards producer purchasing

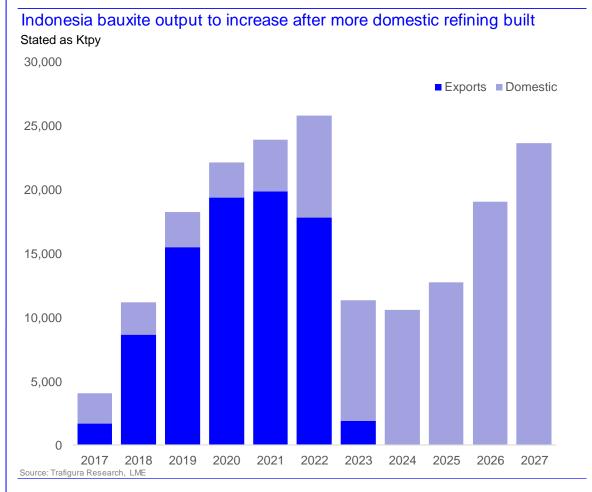


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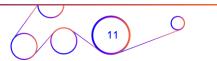
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7. Bauxite supply growing quickly with Guinea ramp ups and Indonesian projects





- 1. Aluminium market in surplus
- 2. China is driving higher production, RoW is driving lower demand
- 3. Regional premiums are higher because of elevated freight costs
- 4. Smelter margins are at historical highs and should narrow
- 5. Alumina prices have disconnected from fundamentals as market in surplus
- 6. Alumina price reporting observes an increase in producer purchasing
- 7. Bauxite supply is expanding quickly in Guinea



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2024 Copper Outlook



China copper demand is expected to grow by 2.9% in 2024

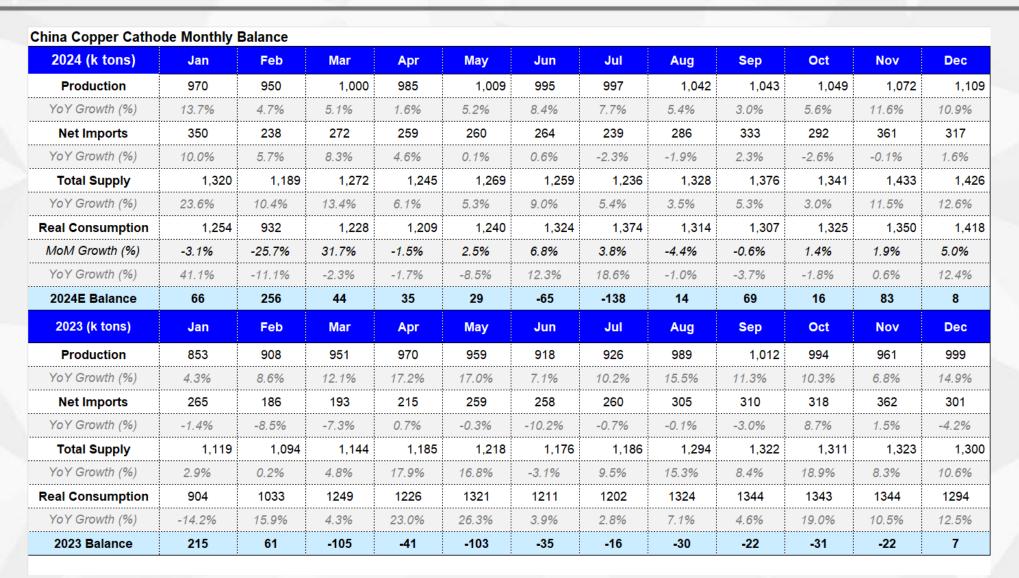
2024 China Copper Bala	nce Sheet				
Copper B/S (10k tons)	2020	2021	2022	2023E	2024E
Electricity	566	600	626	705	721
%YoY	-1.6%	6%	4.3%	12.7%	2.2%
Real Estate	57	63	54	64.5	63
Infrastructure	509	537	572	641	657
Manufacturing	294	311	305	346	359
%YoY	-3.6%	5.8%	-1.9%	13.4%	3.8%
Home Appliances	207	221	212	244	256
Automobile - Traditional	36	37	38	42	43
Automobile - New Energy	51	53	55	60	61
Others	424	449	459	423.3	434
Domestic Demand	1,284	1,360	1,390	1,472	1,514
%YoY	-2.3%	6%	2.2%	5.9%	2.9%
Domestic Supply	930	998	1,028	1,157	1,242
%YoY	4%	7.3%	3%	12.5%	7.3%
Net Import	431	317	344	319	314
%YoY	36.4%	-26.5%	8.5%	-7.3%	-1.6%
Domestic Inventory	77	-45	-18	4	41

2024 China Copper Demand Breakdown

Sector	Sector Breakdown	Benchmark	Growth	Copper Consumption Growth	Copper Consumption Contribution
Electricity	Real Estate	Completed GFA	-7.80%	-1.56%	20%
	Infrastructure	Investment	6%	2.56%	40%
	Home Appliances	Production	5%	0.50%	10%
Manufacturing	Automobile - Traditional	Production	4.70%	0.14%	3%
	Automobile - New Energy		20%	0.80%	4%
	Total			2.90%	77%
024 China GDP					
GDP Break	down	2021	2022	2023E	2024E
GDP		8.1%	3%	5%	4.5%
Consump	otion	12.5	3.5%	7%	4.9%
Fixed Capital Ir	nvestment	12.8%	5.7%	4%	4.9%
Manufactu	uring	13.5%	9.1%	6%	9.3%
Infrastructure		0.2%	11.5%	8%	6.2%
Property		4.4%	-10%	-9.5%	-11.2%
Net Export					

Data source: Bloomberg, Wind, Horizon Insights

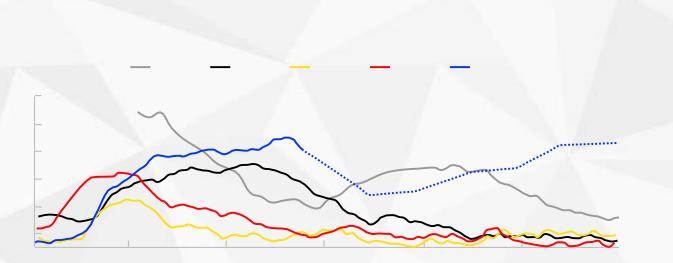
No significant domestic inventory pressure in 2024

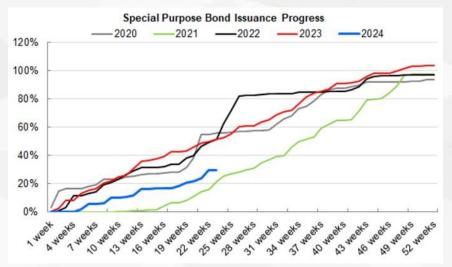


Morizon Insights

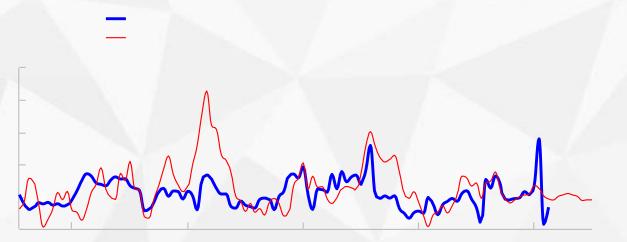


Peak demand and destocking are expected till end of July





Data source: iFind, Horizon Insights

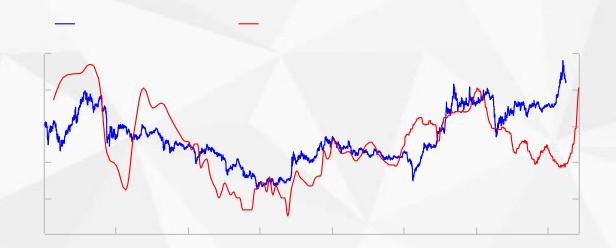


Data source: Wind, Horizon Insights



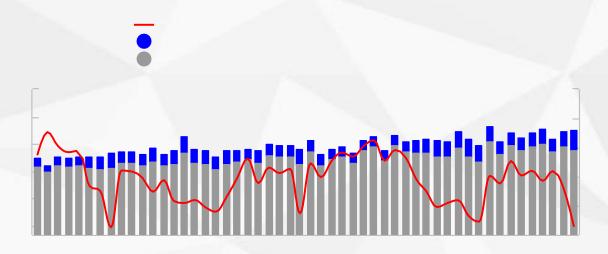


Domestic production of copper will remain high despite low TC

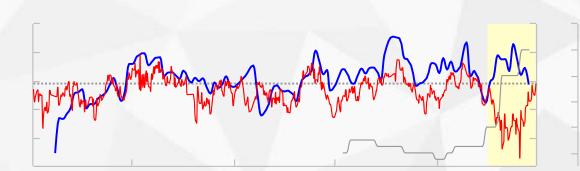


Data source: Wind, Horizon Insights



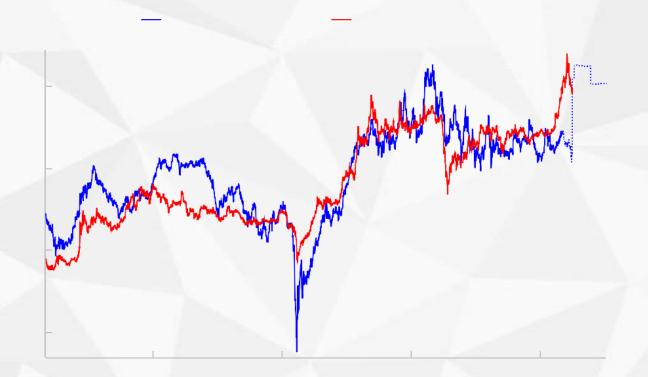


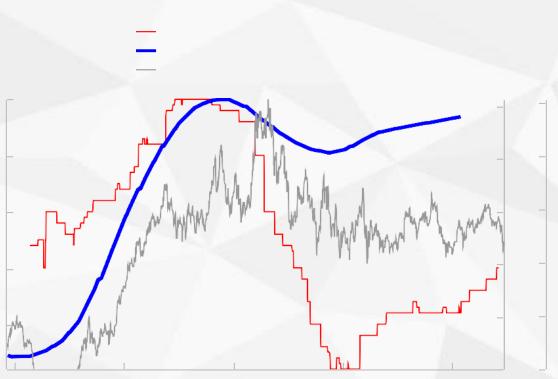
Data source: SMM, Horizon Insights





Our projected price target for LME and SHFE copper in 2024





Data source: Wind, Horizon Insights

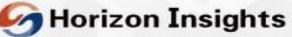
Data source: Bloomberg, Wind, Horizon Insights

According to our model, the upper price boundary for LME copper is \$11,000/Mt in 2024, supported by

inflation pressure and the upward revisions to global GDP growth.

Our projections are based on a few key assumptions:

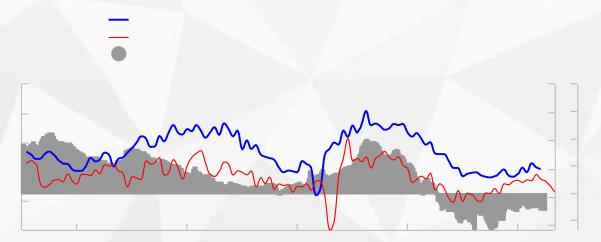
- 1) Trend: U.S. core PCE growth will lie between 2.6 and 2.8% y/y.
- 2) Seasonal: domestic consumption will grow by 2.9% y/y.
- 3) Financing: depends on how U.S. Fed cuts the rate (ahead curve or behind curve).



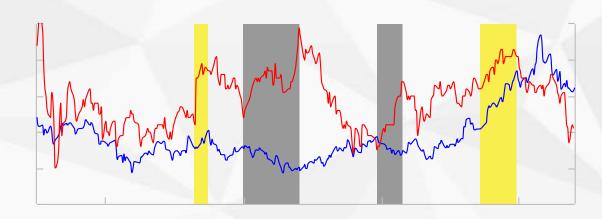
Macro indicators are suggesting more attention to downside risks



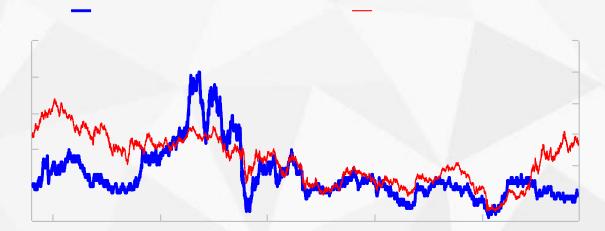
Data source: iFind, Bloomberg, Horizon Insights



Data source: iFind, Wind, Horizon Insights



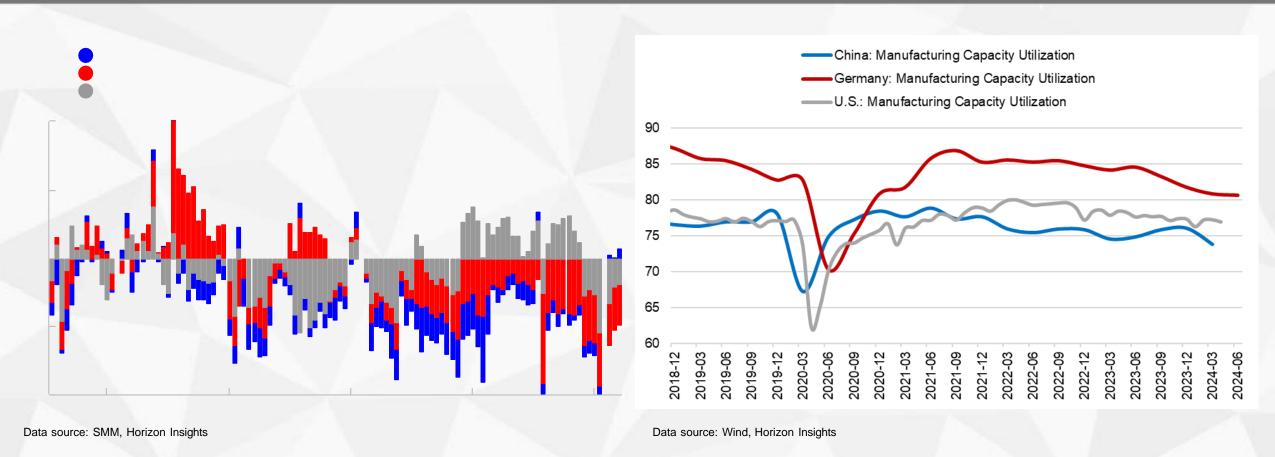
Data source: iFind, Wind, Horizon Insights



Data source: Wind, iFind, Horizon Insights



We need catalyst (likely macro and demand) for direction



To see higher copper price, supply side factors may play a bigger role. This code either due to a decreased operating rate by refineries due to low TC.

The downside risks for copper may include higher supply of scrap by the "New-for-old" initiative (limited), low processing margin by the product manufacturers due to weak domestic demand (limited) or a quickly deterioting global demand outlook. Demand side factors may play a bigger role.



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We offer unrivaled market intelligence on China's economy, real estate, and industry changes through on-the-ground surveys and market analysis.

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All data and information in this report are sourced from Wind, Global Insight, CEIC, Bloomberg, Mysteel, Haver, BEA, NBER, and HZI estimates, unless otherwise specified

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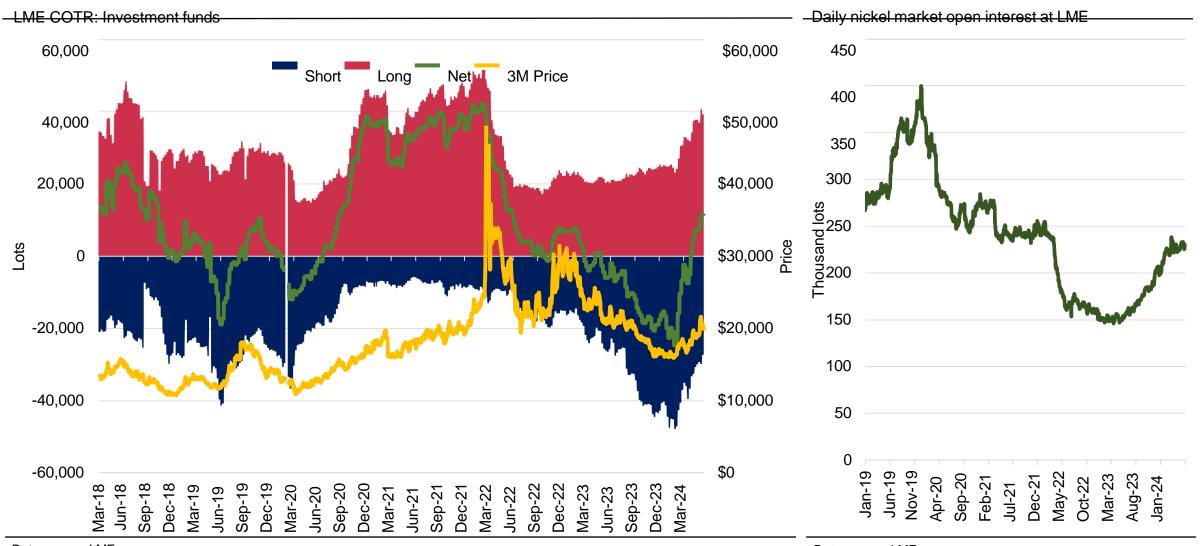


Nickel market

LME Asia Metals Seminar June 2024

As the LME Nickel price rallied, in mid-April investment funds moved net long for the first time in a year





Data source: LME

Data source: LME

More class 1 nickel is being produced and exported as more refined nickel capacity came on stream in China





Data source: SMM

Data source: SMM, China Customs, LME

Class 1 nickel inventory significantly increased 36% and 108% at LME warehouses and in China since the beginning of 2024, respectively



Refined nickel inventory increased at LME warehouses and in China New LME primary nickel brands from China and Indonesia since 2023 kt kt Approve — Nickel inventory at LME warehouses **Plant** Capacity(kt) Brand 300 45 d time — Nickel inventory in China(RHS) 40 Quzhou Huayou HUAYOU 20/07/2023 36.6 250 **Cobalt New Material** 35 Jingmen Gem-NI1 01/11/2023 10.0 200 30 Gem Co.,Ltd. Guangxi CNGR New 25 Energy CNGR 25.0 06/02/2024 150 Science&Technology 20 100 15 Jingmen Gem-NI2 20.0 20/02/2024 Gem Co.,Ltd. 10 50 Guangxi Huayou HUAYOUgx 12/04/2024 30.0 5 New Material 0 0 PT CNGR Dingxing 05/01/2021 05/01/2022 05/01/2023 05/01/2024 DX-zwdx 23/05/2024 50.0 New Energy

Data source: SMM, LME, SHFE

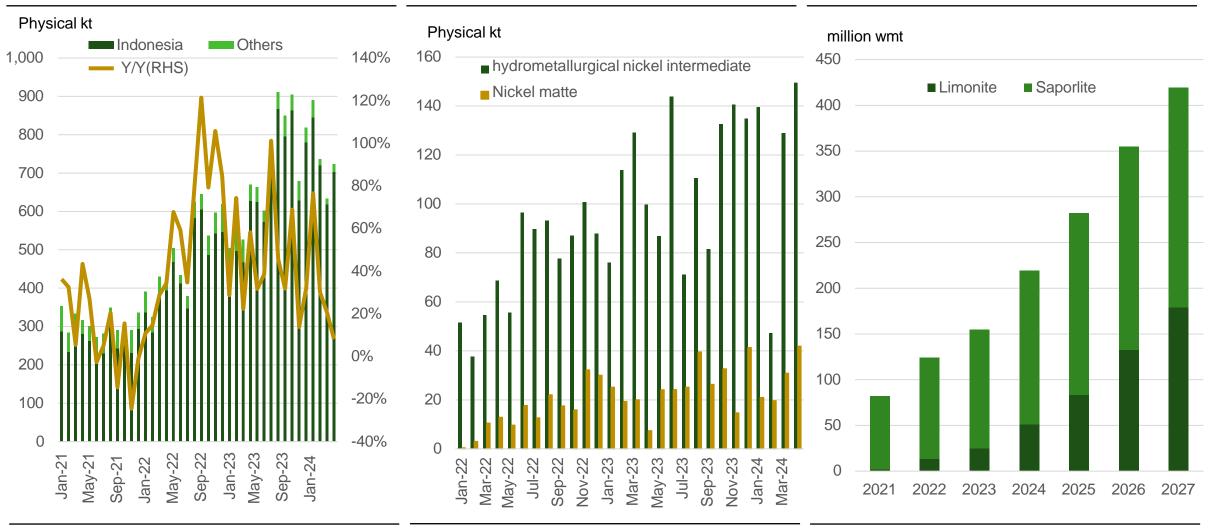
China heavily reply on nickel supply from Indonesia, which need more nickel ore to feed the local processing plants in the future



China imported nearly 3.0 mt FeNi&NPI over the first 4 months of 2024, up 31.6% y/y

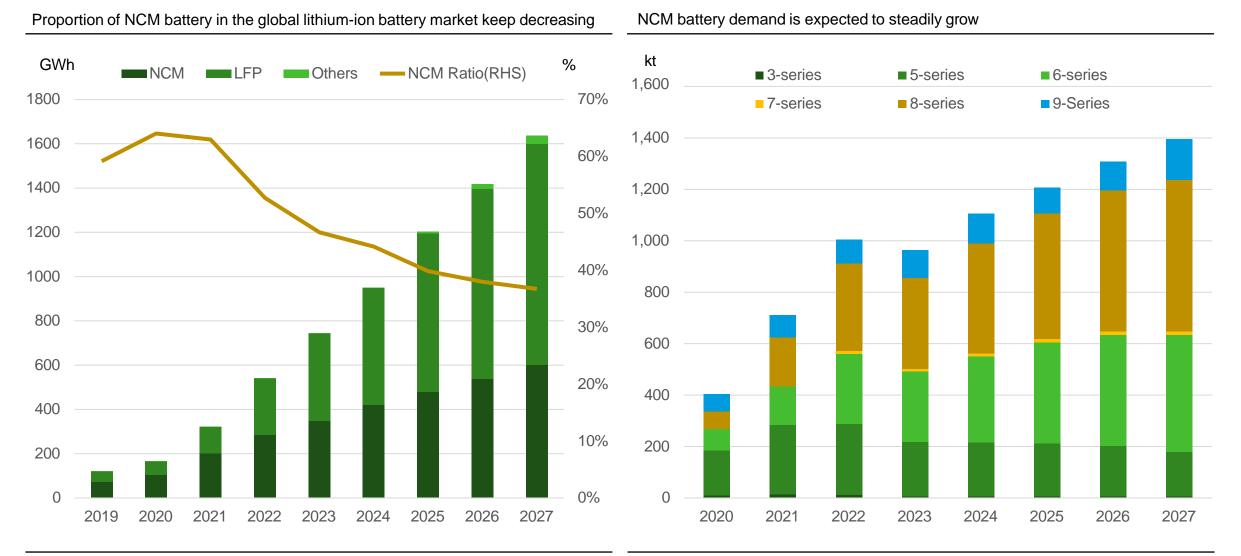
Nickel intermediate products imports keep increasing

Nickel ore demand is expected to be strong in Indonesia



NCM battery demand is expected to steadily grow although LFP will gain more market share in global lithium battery market



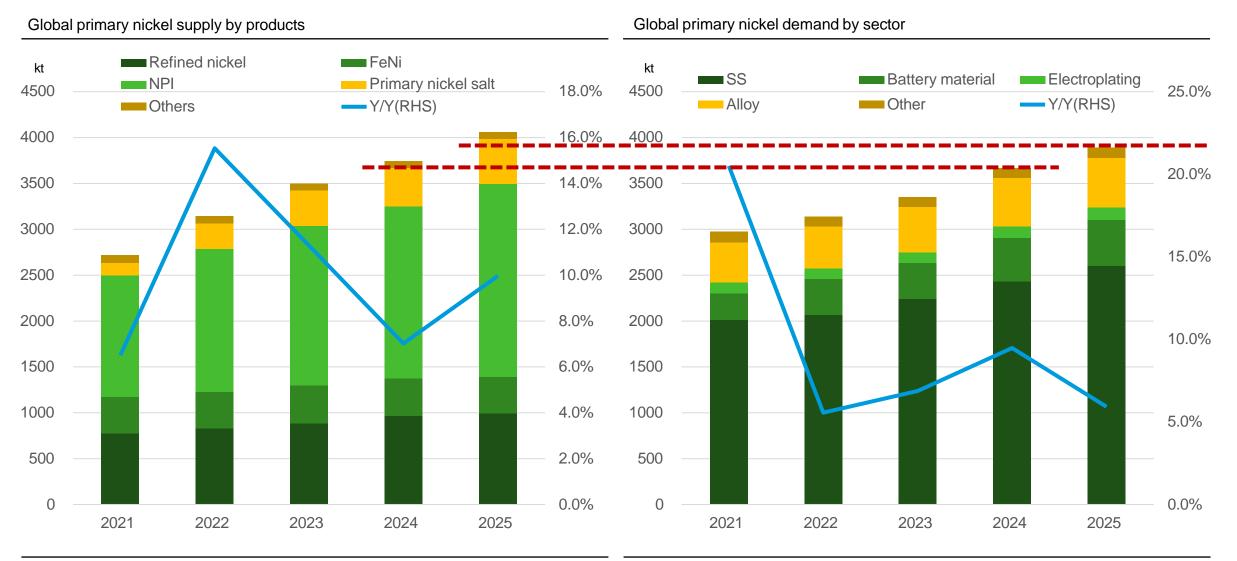


Data source: SMM

Data source: SMM

Global primary nickel balance is expected to remain surplus as more nickel projects will come on stream in Indonesia





Data source: SMM

Data source: SMM

Thanks for your attention

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LME Asia Metals Seminar Hong Kong – 27 June 2024

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June 2024

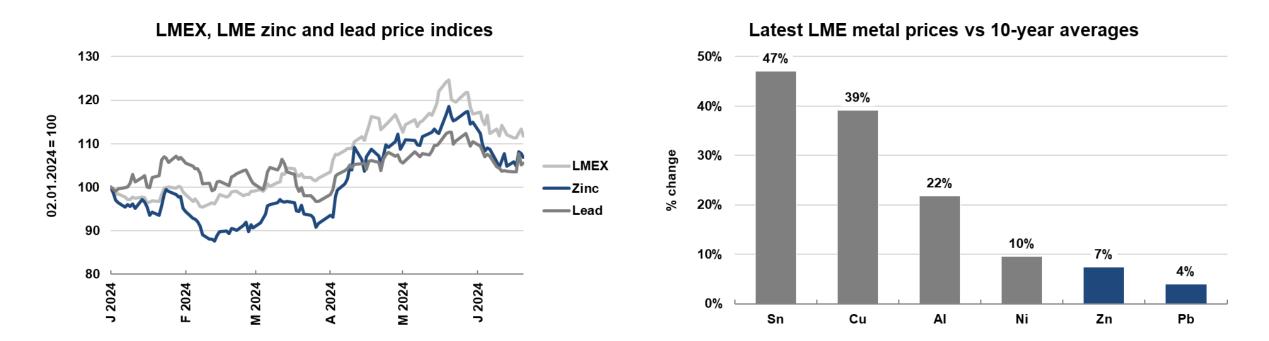
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Who we are

- Founded in 2015 Concord is a global resources merchant focused on the supply chain, financing and risk management of non-ferrous metals and related raw materials, led by an experienced and entrepreneurial management team
- Concord is a global company, operating from its headquarters in London and through its principal offices in New York and Hong Kong.
 Our experienced team work with resource producers and consumers on spot transactions out to multi-year, structured agreements
- Concord's capabilities include global sourcing, marketing and management of all the required logistics and finance to optimise our clients' supp chains from long-term partnership marketing arrangements to single container deliveries
- Concord brings substantial cross-commodity, structuring and asset optimisation experience of its founding team to work for the benefit of its customers and partners
- Concord is an independent company, and combines its founding management's experience with the commodity and financial industry expertise of it shareholders
- For more information please visit our website

LME zinc and lead prices have underperformed other metals markets in H1 2024

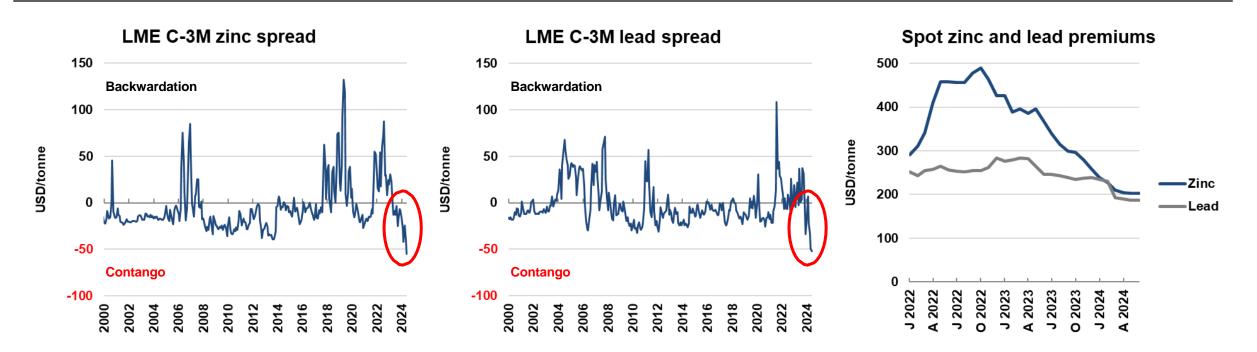


- LME zinc prices up +7%, lead prices up +5% YTD in 2024, only about half of +12% increase in LMEX index led by copper
- Same pattern seen comparing latest spot prices vs long-run averages, zinc and lead lagging on gains of less than +10%

Note: All data basis cash offer prices in nominal terms, not adjusted for inflation. Latest data are for 21st June 2024 Source: LME, Concord Resources Limited, June 2024

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LME zinc and lead spreads soft, physical metal premiums falling

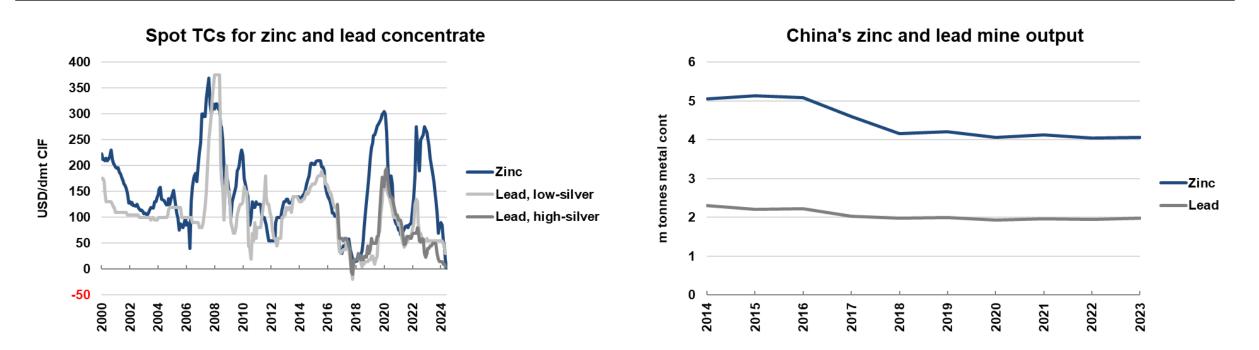


- June 2024 cash-to-three-months zinc spreads averaging ~USD55 and lead > USD50/tonne; widest contangos in at least 25 years
- Spot zinc and lead metal premiums under pressure in all regional markets; averages approaching 3-3¹/₂-year lows, respectively

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Note: All data are month averages. Zinc premiums are for SHG ingot; unweighted average CIF China, USMW DDP & FCA ARA. Lead premiums are for 397 secondary ingot; unweighted average CIF SE Asia, USMW DDP & FCA ARA Source: CRU, Fastmarkets, LME, Concord Resources Limited, June 2024

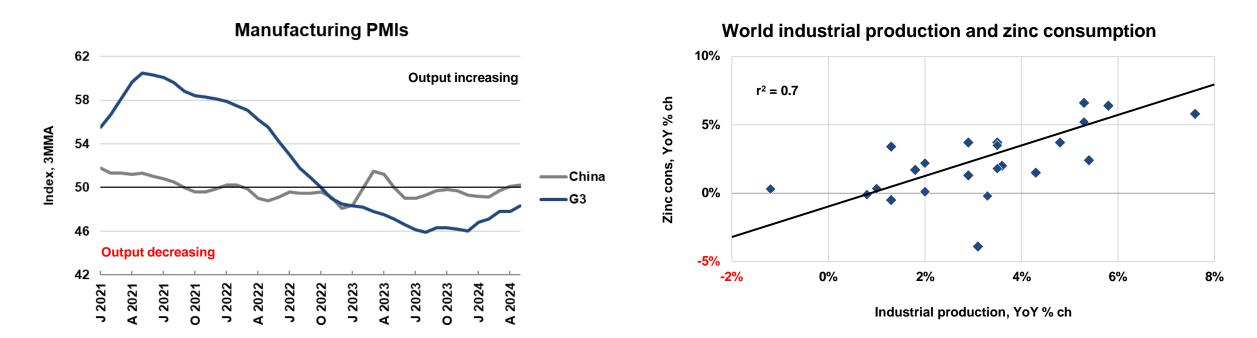
Spot TCs for zinc and lead concentrates trading around record lows; China's mine output price inelastic



- Some recent spot sales of zinc and lead concentrates reported at negative 'headline' terms; high-silver lead qualities most in demand
- Concentrates market tightness due to (1) some loss of mine supply last year, (2) excess smelting capacity and (3) flat output in China

Note: TC data are month averages for standard clean concentrates Source: CRU, Fastmarkets, ILZSG, Concord Resources Limited, June 2024

Leading indicators point to an emerging upturn in the industrial cycle and zinc consumption

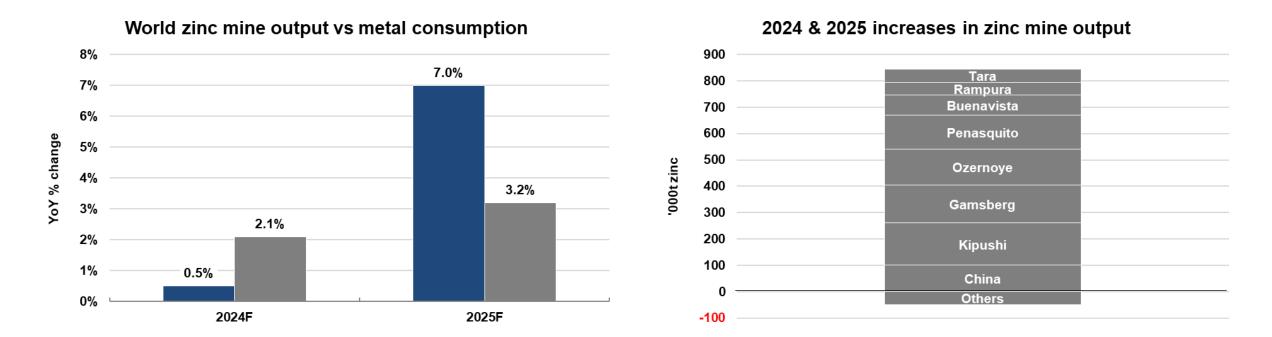


- **G3** Manufacturing PMI on rising trend since Oct 2023, but still < 50 pts in May 2024; Chinese PMIs recently turned positive
- There is a clear short-run correlation between PMIs and industrial production, which is the prime driver of zinc demand

Note: PMI – Purchasing Managers Index. G3 – USA, EZ & Japan, production weighted average. Industrial production and zinc consumption data 1998-2023 Source: CPB, CRU, ILZSG, ISM, NBS, S&P, Concord Resources Limited, June 2024

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Key pivot point in today's zinc market rate of change in mine output vs metal consumption

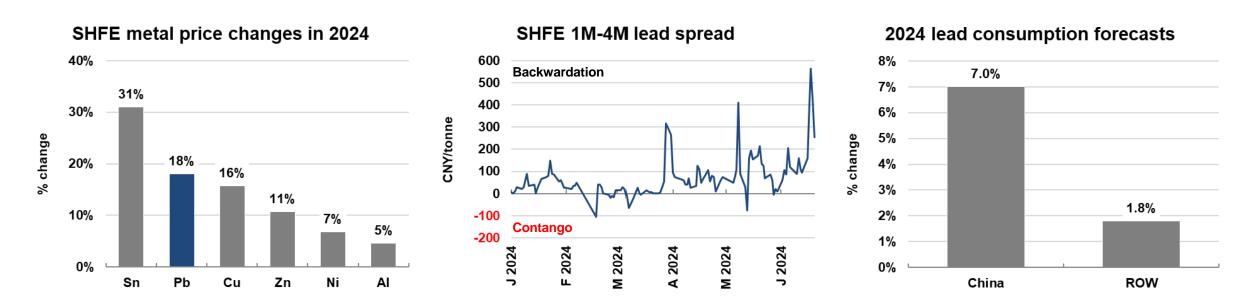


- In 2024, world zinc consumption forecast rising ~4x rate of increase in mine output; points to risk of tightening in zinc supply chain
- In 2025 this is forecast to flip with mine output rising > 2x faster than consumption, which should ease supply chain again

Note: All data are forecasts Source: CHR, CRU, ILZSG, OEF, Concord Resources Limited, June 2024

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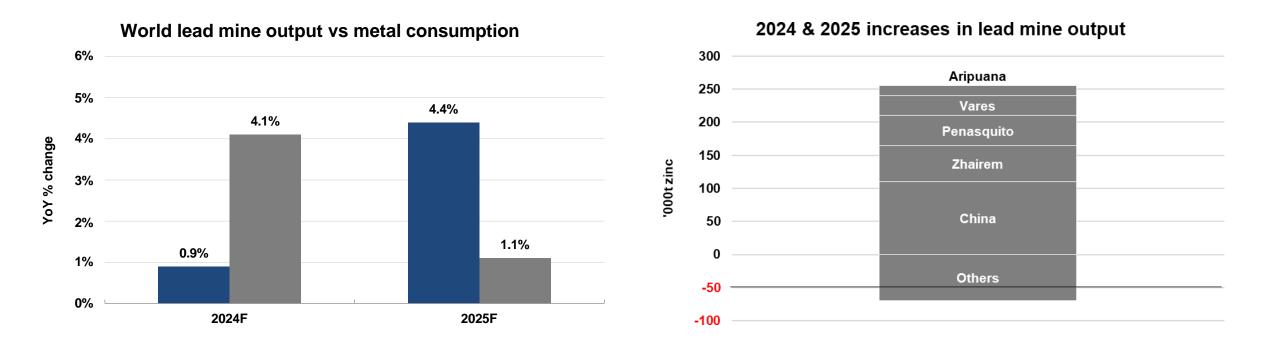
SHFE lead prices outperforming, nearby spreads backwardated; China's metal demand appears strong



- China price signals point to resilience in local lead market balance on combination of firm demand and supply constraints
- China's e-bike sales have been strong, lead-acid battery exports (scrap losses) high and local lead mine output flat
- Structural excess domestic lead smelting and refining capacity compounds pressure on raw materials prices

Note: Latest SHFE data 21st June 2024 Source: CHR, ILZSG, SHFE, Concord Resources Limited, June 2024

Key pivot point in today's lead market rate of change in mine output vs metal consumption



- In 2024, world lead consumption forecast rising ~4x rate of increase in mine output; points to risk of tightening in lead supply chain
- In 2025 this is forecast to flip with mine output rising ~3x faster than consumption, which should ease supply chain again

Note: All data are forecasts Source: CHR, ILZSG, Concord Resources Limited, June 2024

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Summary

- YTD 2024 LME zinc and lead prices underperforming; metal markets appear well supplied vs demand
 - But note leading economic indicators point to recovery ahead in zinc metal demand
 - And SHFE price signals warrant interest in market for lead metal in China
- Today's markets for zinc and lead concentrates very tight, well-reflected in near-zero / negative TCs
 - Due in part to inelasticity of mine supply in China; reason(s) for this unclear
 - Keep in mind also impact of excess smelting capacity in China
- In 2024, rate of increase in zinc and lead consumption outpacing rise in mine output; points to risk of tighter supply chains
 - In 2025 mine output forecast overtaking rate of increase in consumption once more; should ease supply chains
 - But this depends on (1) miners delivering expansion projects and (2) some addition to output in China

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Our markets: every step of the supply chain

	Aluminum	Copper	Zinc, lead, nickel	Alumina, bauxite	Precious metals
Metals					
Products	P1020BilletsAlloysRod	CathodeCopper rodConcentrates	 SHG & CGG zinc 397 & 49s lead Primary nickel Concentrates 	SGARaw bauxite	GoldSilverPGMs
Origination	 Consignments Prepays/financing Off-take/marketing Tolling 	 Consignments Prepays/financing Off-take/marketing Tolling 	ConsignmentsPrepays/financingOff-take/marketingTolling	SwapsPrepays/financingOff-take/marketingTolling	Off-take/marketingBy-products from concentrates
Storage / logistics	LME systemWarehousingShipping	LME systemWarehousingShippingBlending	LME systemWarehousingShippingBlending	WarehousingShippingBlending	 Vaulting
Consumers	AerospaceAutomotiveConstructionPackaging	Wire and cableTubingBrassSmelters	GalvanizersBattery makersStainless & alloy steelmakers	RefineriesSmelters	BanksSmelters

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