

Commodities Digest

Africa's role in commodity markets

- Commodities are a big deal for Africa, accounting for over 80% of exports in 35 of 48 African countries
- However, for most global commodity markets, Africa's role is modest and has been steady
- Africa accounts for 13% of global oil exports, between 2% and 8% of key base metals, but dominates PGMs and cobalt

Africa and commodity markets

In discussions about commodities we occasionally get asked about Africa. Specifically, clients ask: how big is Africa's role in commodity markets? Is it increasing? For which commodities does the Africa story matter most?

In this piece we briefly summarise how important Africa is for commodity markets, how important commodities are for Africa, and which commodities and countries play the biggest roles. We also take a detailed look at the role of commodities in the three Sub-Saharan African nations that HSBC covers -- Ghana, Kenya, and South Africa.

At the outset, it is clear that commodities matter a lot for Africa. For 35 of 48 African countries, commodities account for over 80% of the nation's exports. In some cases, the African nation's exports are dominated by just one commodity. For 30 of 48 African nations, a particular commodity accounts for over 40% of that country's total exports.

Unsurprisingly, then, growth in Africa has also been fairly highly correlated with commodity prices over time. The commodity prices 'super-cycle' of earlier this century has a strong positive correlation with overall growth in Africa.

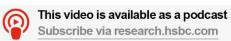
However, for most global commodity markets, Africa's role is quite modest. Although there has been a ramp up in investment in the mining industry in Africa over the past decade or so, this has only managed to keep Africa's share of the commodity markets broadly steady.

In addition, to the extent that Africa is a big player in any commodity market, this is driven by just a small handful of African nations. For oil, Algeria, Libya, Angola, and Nigeria are global players. For metals, the Democratic Republic of Congo (DRC) and South Africa are big producers.

Finally, there are some specific commodities where Africa plays an outsized role such as the platinum group metals, where South Africa accounts for around 66% of global production (and has 90% of global reserves) and the DRC, which accounts for around two-thirds of global production of cobalt, which is a key ingredient in batteries.

Economics Global





Paul Bloxham

Chief Economist, Australia, NZ & Global Commodities HSBC Bank Australia Limited paulbloxham@hsbc.com.au +61.2.9255.2635

David Faulkner

Economist

HSBC Securities (South Africa) (Pty) Ltd david.faulkner@za.hsbc.com +27 11 676 4569

Daniel Smith

Economist

HSBC Bank Australia Limited daniel.john.smith@hsbc.com.au +61 2 9006 5729

Thato Mosadi

Economist, South Africa HSBC Securities (South Africa) (Pty) Ltd thato.mosadi@za.hsbc.com +27 11 676 4476

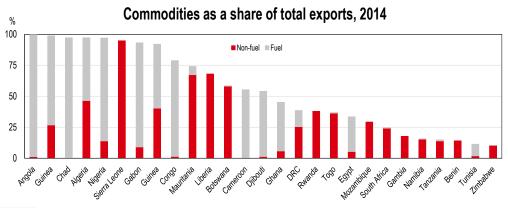
Disclosures & Disclaimer

This report must be read with the disclosures and the analyst certifications in the Disclosure appendix, and with the Disclaimer, which forms part of it.

Issuer of report: HSBC Bank Australia Limited



1. Commodities are the major export category for many African nations



Source: IMF

A big deal for Africa...

Commodities dominate the exports of most African nations

Commodities are a big deal for Africa, with commodity exports accounting for over 80% of exports in 35 of 48 African nations (Chart 1). As a result of Africa's commodity market exposure, commodity prices and the 'super-cycle' that occurred over the first decade and a half of this century had a large impact on Africa's growth (Chart 2).

For much of Africa, there is also considerable concentration of economic exposure, with many economies highly exposed to just one or two commodity exports (see Table 3 below). For 30 of 48 African nations, one particular commodity accounts for over 40% of that country's total exports.

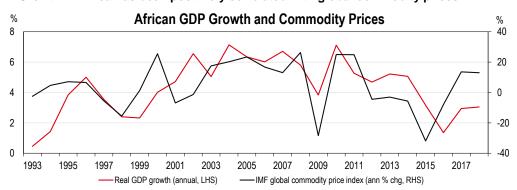
Oil and gas are particularly important

For many African nations, oil and petroleum products are the dominant commodity exports -- 21 of 48 African nations have petroleum as one of its top three commodity exports. For some nations, like Angola, Chad, Congo, Equatorial Guinea, Gabon, Libya, Nigeria, and Sudan -- petroleum is the dominant export.

Of course, for many African nations, where the economies are small, commodity exports are also only small in overall value. Only 8 of the 48 African nations have commodity exports that exceed USD10bn annually.

Only a few African countries have commodity exports large enough to impact global markets It is these 8 economies -- Algeria, Angola, Cote D'Ivoire, Egypt, Ghana, Libya, Nigeria, and South Africa -- that have commodity exports that mean their scale has some noticeable impact on global commodity markets. The dominance of the DRC in cobalt production and reserves also gives it a global role.

2. Growth in Africa has been positively correlated with global commodity prices



Source: IMF



3. Commodities in Africa

	Key commodity exports (% of commodity exports)	Commodity exports value (% of total)	Share of GDP	Top 3 destinations
Algeria	Petroleum (57), Gas (32)	47864 (98)	24.0	EU (65), US (7), N. Africa (5)
Angola	Petroleum (94)	45961 (100)	32.5	China (52), EU (18), US (10)
Benin	Cotton (26), Gold (24), Petroleum (15)	2215 (87)	24.6	China (23), India (18), W. Africa (16)
Botswana	Precious stones (85)	6701 (94)	44.4	EU (70), S. Africa (8), Norway (5)
Burkina Faso	Gold (65), Cotton (17)	2035 (94)	17.0	Switzerland (58), W. Africa (8), EU (7)
Burundi	Coffee (45), Tea (27), Gold (11)	109 (86)	3.8	UAE (45), EU (17), E. Africa (9)
Cameroon	Petroleum (45), Wood (14), Cocoa (14)	4249 (92)	13.9	EU (47), Nigeria (23), Thailand (4)
Cent. Afr. Rep.	Wood (41), Pearls (21), Abrasives (14)	129 (90)	7.3	EU (36), China (28), Indonesia (8)
Chad	Petroleum (92)	3630 (98)	29.9	US (67), Japan (10), China (9)
Congo	Petroleum (76), Copper (11)	6675 (92)	50.5	China (51), EU (28), Australia (6)
Cote D'Ivoire	Cocoa (45), Petroleum (14)	10667 (86)	32.4	EU (42), W. Africa (16), US (10)
DRC	Copper (45), Copp. ore (18), Petrol. (12)	5898 (95)	15.8	China (43), Zambia (22), EU (17)
Egypt	Petroleum (45)	12707 (52)	4.4	EU (36), India (11), N. Africa (7)
Eritrea	Copper (41), Fish (23), Vegetables (11)	505 (89)	13.8	China (54), India (36), EU (6)
Ethiopia	Coffee (21), Vege. (21), Petroleum (18)	4916 (92)	8.9	EU (23), E. Africa (17), Kuwait (15)
Equatorial Guin.	Petroleum (73), Gas (22)	8608 (96)	60.0	EU (39), China (18), Japan (17)
Gabon	Petroleum (81)	6954 (89)	43.4	Japan (28), EU (18), US (16)
Gambia	Wood (42), Fruit and nuts (22)	84 (80)	9.5	China (51), India (20), EU (9)
Ghana	Gold (32), Petroleum (26), Cocoa (25)	10144 (94)	28.0	EU (32), India (14), Switzerland (14)
Guinea	Alumina (40), Petroleum (22), Gold (19)	1923 (96)	29.1	EU (31), India (21), Switzerland (11)
Guinea-Bissau	Fruit and nuts (89)	169 (99)	14.9	India (83), Singapore (6), US (6)
Kenya	Tea (29), Vegetables (18)	3621 (64)	5.9	EU (33), E. Africa (18), Pakistan (6)
Lesotho	Precious stones (71)	304 (36)	15.4	EU (64), S. Africa (29), US (5)
Liberia	Iron ore (37), Rubber (24), Gold (14)	309 (73)	14.2	EU (33), China (20), UAE (14)
Libya	Petroleum (82), Gas (10)	14728 (95)	36.0	EU (78), China (6), Switzerland (3)
Madagascar	Nickel (36), Spices (23)	1546 (70)	15.2	EU (40), US (12), China (9)
Malawi	Tobacco (60)	1019 (84)	17.2	EU (42), E. Africa (9), S. Africa (6)
Mali	Gold (71), Cotton (20)	2431 (92)	21.5	UAE (32), S. Africa (21), Switz. (16)
Mauritania	Iron ore (36), Fish (30), Gold (11)	1808 (98)	35.8	China (38), EU (12), W. Africa (12)
Mauritius	Fish (44), Sugar (25), Pearls (12)	964 (37)	8.0	EU (64), Vietnam (9), E. Africa (6)
Morocco	Fish (22), Vege (14), Fertilizers (13)	7458 (33)	7.1	EU (51), US (5), Russia (4)
Mozambique	Aluminium (26)	3688 (93)	23.3	EU (37), S. Africa (19), China (19)
Namibia	Prec. stone (26), Fish (20), Uranium (11)	3224 (75)	24.8	EU (36), S. Africa (32), US (6)
Niger	Petroleum (35), Uranium (34)	861 (64)	11.3	W. Africa (43), EU (30), China (10)
Nigeria	Petroleum (78), Gas (12)	77068 (97)	14.1	EU (36), India (16), Brazil (10)
Rwanda	Base metal (43), Coffee (16), Petrol (12)	549 (82)	6.8	DRC (22), China (16), E. Africa (11)
Senegal	Petroleum (24), Fish (22), Gold (16)	1952 (72)	13.2	W. Africa (32), EU (24), Switz (14)
Sierra Leone	Precious stones (38), Base metals (31)	1500 (97)	30.7	China (80), EU (13), US (1)
Somalia	Live animals (70), Gold (10)	452 (95)	65.7	Saudi (37), UAE (36), Oman (14)
South Africa	Silver/plat. (15), Iron ore (11), Coal (11)	43982 (55)	13.2	EU (20), China (20), S. Africa (11)
Sudan	Petrol (57), Gold (22)	3731 (98)	4.3	China (50), UAE (23), Saudi (8)
Swaziland	Wood (33), Sugar (29)	678 (40)	16.0	S. Africa (45), EU (24), China (12)
Uganda	Coffee (28)	1564 (69)	6.0	EU (33), E. Africa (31), UAE (7)
Tanzania	Gold (25)	4888 (85)	10.2	India (24), EU (16), China (11)
Togo	Gold (34), Fertilizers (14), Petrol. (11)	828 (65)	19.1	Switzer (28), W. Africa (24), EU (15)
Tunisia	Petroleum (43)	3591 (23)	7.9	EU (68), N. Africa (11), Libya (7)
Zambia	Copper (79)	7189 (86)	29.4	():
Zimbabwe	Tobacco (40), Coal (13)	2400 (83)	32.6	China (29), EU (18), S. Africa (15)

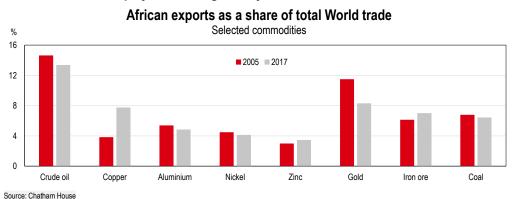
...but in most markets, Africa is just a modest-sized player

Even in aggregate, Africa's role in most commodity markets is modest. As Chart 3 shows, total African exports of most major commodities make up less than 10% -- and in many cases less than 5% -- of global trade flows. Those proportions have also remained quite steady, being at similar levels in 2017 as they were in 2005.

Total African exports make up less than 10% of trade in most major commodities



3. Africa is a modest player for a range of key commodities...



The only examples among these major commodities where Africa's share of global trade has changed materially are gold and copper.

For gold, South Africa's role in global production of the precious metal has declined over the years as mine shafts have been dug deeper and have become less productive.

For copper, much of the increase in global trade share has been driven by production growth in the DRC (although the 2017 numbers are boosted by some double counting, as much of the DRC exports are unrefined copper, which is sent to Zambia for processing and then exported to Europe or China).

The key commodities are oil, gold, iron ore, and coal

For a few major commodities, Africa does play a decent-sized role, albeit not a major one.

For instance, African exports accounted for around 13% of global trade in crude oil in 2017. Half of the 14 members of OPEC are African nations (Algeria, Angola, Equatorial Guinea, Gabon,

Libya, Nigeria, and the Republic of the Congo), although collectively these countries made up only 18% of OPEC production in 2018. In coal markets, South Africa and Mozambique are fairly significant producers, with most of their

coal exports going to India (rather than Japan or China, as is the case for other major coal exporters). In 2017, these two countries were the third and fourth largest coal suppliers for India, after the two coal powerhouses of Australia and Indonesia. With the two African nations collectively supplying 27% of India's imported coal in that year, they clearly have an important role in that specific market, even if their share of total global trade is relatively small.

South Africa is also the third largest exporter of iron ore in the world, although its share of global exports, at around 5% in 2017, lags a long way behind Australia and Brazil, which accounted for around 50% and 25%, respectively in that year.

For gold, both South Africa and Ghana are relatively large producers, and South Africa also has the second-largest proven gold reserves in the world, after Australia.

As the above discussion, along with Chart 4, shows, although Africa's aggregate role in commodity markets appears small, production of most commodities is highly concentrated among a handful of countries. That means that those specific countries do play an important role in some markets.

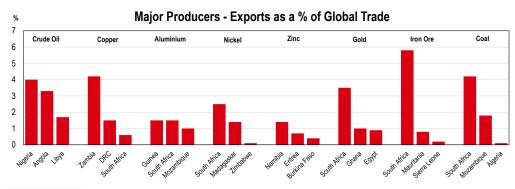
This is particularly the case for South Africa, which is the biggest producer - and in some cases the only major producer -- in Africa for iron ore, coal, gold, nickel, and platinum.

Half of OPEC's members are African nations, but they account for a minority of output

South Africa and Mozambique are important coal suppliers to India



4. Africa's production is highly concentrated in a handful of countries



Source: Chatham House

Africa does dominate platinum and cobalt production

There are a few specific commodities, not typically counted among the key globally traded commodities, where Africa plays a dominant role in global markets.

The first is platinum, where South Africa is the largest producer in the world.

South Africa's production of platinum accounted for around two-thirds of global output in 2018, while the country also makes up around 90% of global reserves of 'platinum-group metals' (Chart 5). The main use of platinum is as a catalytic converter, reducing the emissions of petrol engines. Unsurprisingly then, the major export destinations for South African platinum are large automobile producers such as Japan, China, the US, and Germany. For more on PGMs, see PGMs on autopilot, 15 April 2019.

...while the DRC dominates

South Africa is the dominant

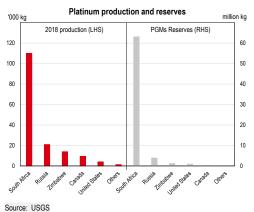
global supplier of platinum

group metals...

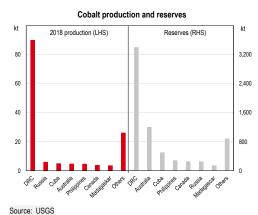
cobalt production

For cobalt, it is the DRC that dominates. DRC cobalt production made up around two-thirds of global output in 2018, with the country's reserves making up around half of the global total. Almost all of the country's exports go to China. Cobalt is an ingredient in battery manufacturing, which would typically suggest strong long-run demand potential. However, in this case the highly-concentrated nature of supply adds additional risk and, along with high prices, is incentivising manufacturers to develop batteries that use less cobalt, or even alternative materials altogether. Recent price declines may slow this transition, but it is still likely to occur over time; for more on the latest developments in the batteries space see Charge! The race to be the Li-ion king heats up, 14 June 2019.

5. South Africa is the dominant producer of platinum



6. The DRC dominates global cobalt markets





David Faulkner

Economist HSBC Securities (South Africa) (Pty) Ltd david.faulkner@za.hsbc.com +27 11 676 4569

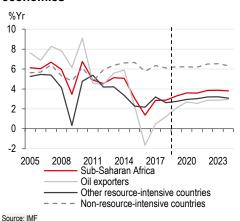
Thato Mosadi

Economist, South Africa HSBC Securities (South Africa) (Pty) Ltd thato.mosadi@za.hsbc.com +27 11 676 4476

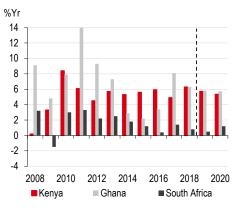
Commodities matter for the SSA economies we cover

Our Sub-Saharan Africa coverage includes resource intensive South Africa and Ghana, as well as Kenya, which has a more diversified economic structure and is less dependent on commodities. Generally, the large resource producers in Sub-Saharan Africa have underperformed relative to the less resource-intensive economies in recent years (Chart 7). Of the three SSA economies we cover, the largest commodity producer, South Africa, has had the weakest growth performance (Chart 8).

7. Weaker growth in SSA's resource-rich economies



8. The outlook for Ghana and Kenya is robust, South Africa to struggle



Source: Rifinitiv Datastream, HSBC forecasts

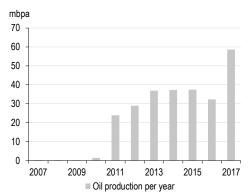
Ghana: Oil playing a bigger role and gold ramping up

Ghana seems set to continue to buck the disappointing growth trend for Sub-Saharan Africa's resource-rich economies, as Chart 8 illustrates. After expanding by more than 8% in 2017 and 6% last year, the IMF expects Ghana to be Africa's fastest growing economy in 2019.

Natural resources have been a key feature of the most recent growth acceleration, as the addition to new oil fields provided significant momentum to GDP growth. Indeed oil output increased to 58.6 million barrels per year (0.16 million barrels a day) in 2017 from virtually nothing in 2010 (Chart 9), supporting the recent pick-up in GDP growth, and potentially providing further growth gains should the country achieve further increases in production. Government officials expect production to go up to 0.5 million barrels a day by 2024.

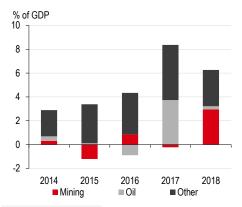
Growing natural resource production has supported Ghana's recent growth outperformance

9. Ghana's oil production ramped up in 2017...



Source: Department oF Energy

10. ...and was a key driver of stronger GDP



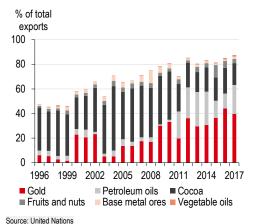
Source: Ghana Statistical Service



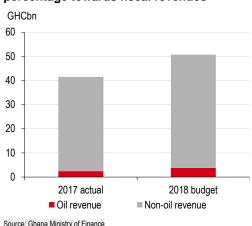
There is scope for additional foreign direct investment into the petroleum sector. Beyond plans to expand existing oil fields, new discoveries at the start of the year could also provide an upside for the oil sector over a longer time horizon.

Beyond oil, Ghana is also an important producer of cocoa and gold (Chart 11). Indeed, Ghana surpassed South Africa as the region's biggest gold supplier in 2018 (and the world's eighth biggest producer), as output increased by 12% last year to 4.8 million tonnes.

11. Gold, oil, and cocoa are Ghana's dominant exports



12. Oil revenues only contribute a small percentage towards fiscal revenues



There is some upside for the gold sector, where reserves are seen at 1000 million tonnes, after the government lifted a ban on small-scale mining that had been imposed to counter the proliferation of small-scale illegal miners. In addition, the government has also introduced new

regulation that aims to protect the legitimate mining industry – a move that may help boost investor confidence and support rising investment and production over the medium term.

Oil and gold are Ghana's key exports, and both look set to grow further

Gold and oil exports have increased significantly over the past two decades, and are the country's biggest sources of export earnings, contributing 40% and 24% towards the value of total exports in 2017. More than half of Ghana's oil exports go to China. Rising commodity production could also offer upside for fiscal revenues – at present oil contributes less than 10% towards government revenue (Chart 12).

Mining accounts for 7.5% of South Africa's GDP

South Africa: A falling role in gold and a more complicated regulatory environment

The mining sector remains important for the South African economy, with exports of precious metal, metal ores, and minerals accounting for 40% of total exports in 2018. Mining also accounts for about 7.5% of GDP, 10% of investment, 4.5% of formal employment, and about 10% of corporate tax revenues while also contributing more than ZAR30bn to the government coffers through the mineral royalty regime over the past five years.

Gold production is important, but less so than in the past...

Historically, gold was the most important commodity for South Africa, with the country dominating global production during the twentieth century and still representing a fifth of total exports in the late-1990s. However, although the gold sector is still an influential commodity (accounting for about 1% of GDP in 2018 and 6% of exports), its production has been in secular decline with mine shafts going ever-deeper and becoming less productive.

...with platinum, coal, and iron ore now dominating

The dominance of gold has been replaced with a more blended commodity mix, both in terms of production and exports. As shown in Charts 13 and 14, platinum, coal, and iron ore are most important, and together with gold account for more than 75% of mining output and a quarter of exports. There have also been marked gains in production of manganese and chromium in recent years, in response to significant increases in prices. This shift in the commodity mix has



Further growth in mining

challenges, both global and

output faces some

domestic

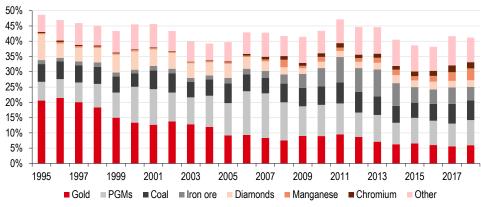
also influenced mining employment, with the number of jobs in the labour-intensive gold mining falling by more than 40% over the past decade (Chart 15).

China is a key market for South African commodity exports, accounting for about a quarter of base metal and mineral exports and about 60% of iron ore, manganese and chromium.

The outlook for the South African mining sector is clouded not only by the current global backdrop, but also domestic factors. These include concerns around the regulatory and legislative framework set out in the Mining Charter, that while providing clarity on the black economic empowerment (BEE) environment may not provide a climate conducive for significant new mining investment (Mining Charter: Still trying to squeeze that stone, 1 October 2018).

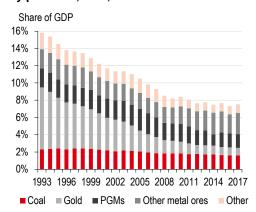
In addition, there has been sustained pressure facing the platinum sector in recent years, including labour unrest (the sector experienced a five-month strike in 2014/15), rapidly rising wage costs, and structural changes in global supply and demand fundamentals that have weighed on prices. Meanwhile, infrastructure bottlenecks have also imposed constraints on coal, iron ore and manganese output and exports over the past few years.

13. The composition of South Africa's mining exports



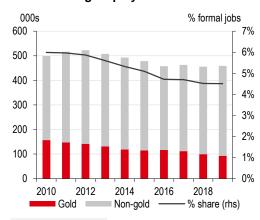
Note: Commodity exports are the combination of precious metals, base metals, and minerals.

14. Mining accounts for 7.5% of GDP led by platinum, coal, and other metal ores



Source: Statistics South Africa, HSBC

15. Job-shedding in gold has pulled overall mining employment lower



Note: 2019 shows figures for Q1. Source: Statistics South Africa, HSBC



Agriculture dominates Kenya's economy and exports

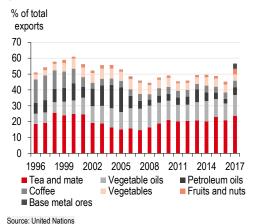
There is potential for some domestic oil production to begin in the coming years

Kenya: Soft commodities are important

While more diversified than most SSA economies, soft commodities remain influential for Kenya. Agriculture is still the mainstay of the economy, accounting for about 30% of GDP and employing over two-thirds of the county's workforce, with tea, coffee, and horticulture accounting for the majority of output and influential for macro performance, including growth, inflation, and trade dynamics (Chart 16). As an oil importer, oil price dynamics are also important with lower oil prices in recent years helping to contain inflation, narrow the external imbalance (oil imports fell from more than 7.5% of GDP from 2010-14 to 3.5% during 2016-2017) and sustain growth momentum (Chart 17).

Mining makes little contribution to the economy, but could become more important following the discovery in early-2014 of oil reserves that are estimated at 600m barrels. While these are relatively small from a global perspective, oil and gas production could have a positive impact on Kenya's macro outlook, providing a boost to growth, the external imbalance and fiscal revenues. The World Bank estimates that oil production will begin within the next five years.

16. Evolution of the top five Kenyan export goods over the past two decades



17. Lower oil imports have helped the current account deficit to narrow



Source: Kenya National Bureau of Statistic, HSBC

18. HSBC's main commodity price forecasts

Commodity	Unit	2018	Spot price	2019f	2020f	Long term
Aluminium	USD/t	2,108	1,807	1,995	2,154	2,200
Copper	USD/t	6,529	5,809	6,514	6,834	7,165
Nickel	USD/t	13,118	12,647	13,040	13,779	17,637
Zinc	USD/t	2,921	2,355	2,801	2,603	2,337
Iron ore	USD/t	69.7	114	82	77	65
Thermal coal	USD/t	107	75	92	90	80
Coking coal	USD/t	209	187	185	170	130
Brent	USD/b	71.6	64	64	70	70
WTI	USD/b	64.8	59	57	66	68
Nymex gas	USD/mBtu	3.07	2.43	3.13	3.25	na

Source: Bloomberg; HSBC forecasts



Disclosure appendix

Analyst Certification

The following analyst(s), economist(s), or strategist(s) who is(are) primarily responsible for this report, including any analyst(s) whose name(s) appear(s) as author of an individual section or sections of the report and any analyst(s) named as the covering analyst(s) of a subsidiary company in a sum-of-the-parts valuation certifies(y) that the opinion(s) on the subject security(ies) or issuer(s), any views or forecasts expressed in the section(s) of which such individual(s) is(are) named as author(s), and any other views or forecasts expressed herein, including any views expressed on the back page of the research report, accurately reflect their personal view(s) and that no part of their compensation was, is or will be directly or indirectly related to the specific recommendation(s) or views contained in this research report: Paul Bloxham, David Faulkner, Daniel Smith and Thato Mosadi

Important disclosures

This document has been prepared and is being distributed by the Research Department of HSBC and is intended solely for the clients of HSBC and is not for publication to other persons, whether through the press or by other means.

This document is for information purposes only and it should not be regarded as an offer to sell or as a solicitation of an offer to buy the securities or other investment products mentioned in it and/or to participate in any trading strategy. Advice in this document is general and should not be construed as personal advice, given it has been prepared without taking account of the objectives, financial situation or needs of any particular investor. Accordingly, investors should, before acting on the advice, consider the appropriateness of the advice, having regard to their objectives, financial situation and needs. If necessary, seek professional investment and tax advice.

Certain investment products mentioned in this document may not be eligible for sale in some states or countries, and they may not be suitable for all types of investors. Investors should consult with their HSBC representative regarding the suitability of the investment products mentioned in this document and take into account their specific investment objectives, financial situation or particular needs before making a commitment to purchase investment products.

The value of and the income produced by the investment products mentioned in this document may fluctuate, so that an investor may get back less than originally invested. Certain high-volatility investments can be subject to sudden and large falls in value that could equal or exceed the amount invested. Value and income from investment products may be adversely affected by exchange rates, interest rates, or other factors. Past performance of a particular investment product is not indicative of future results.

HSBC and its affiliates will from time to time sell to and buy from customers the securities/instruments, both equity and debt (including derivatives) of companies covered in HSBC Research on a principal or agency basis or act as a market maker or liquidity provider in the securities/instruments mentioned in this report.

Analysts, economists, and strategists are paid in part by reference to the profitability of HSBC which includes investment banking, sales & trading, and principal trading revenues.

Whether, or in what time frame, an update of this analysis will be published is not determined in advance.

For disclosures in respect of any company mentioned in this report, please see the most recently published report on that company available at www.hsbcnet.com/research. HSBC Private Banking clients should contact their Relationship Manager for queries regarding other research reports. In order to find out more about the proprietary models used to produce this report, please contact the authoring analyst.



Additional disclosures

- 1 This report is dated as at 12 July 2019.
- 2 All market data included in this report are dated as at close 09 July 2019, unless a different date and/or a specific time of day is indicated in the report.
- 3 HSBC has procedures in place to identify and manage any potential conflicts of interest that arise in connection with its Research business. HSBC's analysts and its other staff who are involved in the preparation and dissemination of Research operate and have a management reporting line independent of HSBC's Investment Banking business. Information Barrier procedures are in place between the Investment Banking, Principal Trading, and Research businesses to ensure that any confidential and/or price sensitive information is handled in an appropriate manner.
- 4 You are not permitted to use, for reference, any data in this document for the purpose of (i) determining the interest payable, or other sums due, under loan agreements or under other financial contracts or instruments, (ii) determining the price at which a financial instrument may be bought or sold or traded or redeemed, or the value of a financial instrument, and/or (iii) measuring the performance of a financial instrument.

11



Disclaimer

Legal entities as at 30 November 2017

'UAE' HSBC Bank Middle East Limited, Dubai; 'HK' The Hongkong and Shanghai Banking Corporation Limited, Hong Kong; 'TW' HSBC Securities (Taiwan) Corporation Limited; 'CA' HSBC Securities (Canada) Inc.; HSBC Bank, Paris Branch; HSBC France; 'DE' HSBC Trinkaus & Burkhardt AG, Düsseldorf; 000 HSBC Bank (RR), Moscow; 'IN' HSBC Securities and Capital Markets (India) Private Limited, Mumbai; 'JP' HSBC Securities (Japan) Limited, Tokyo; 'EG' HSBC Securities Egypt SAE, Cairo; 'CN' HSBC Investment Bank Asia Limited, Beijling Representative Office; The Hongkong and Shanghai Banking Corporation Limited, Singapore Branch; The Hongkong and Shanghai Banking Corporation Limited, Seoul Securities Branch; The Hongkong and Shanghai Banking Corporation Limited, Seoul Branch; HSBC Securities (South Africa) (Pty) Ltd, Johannesburg; HSBC Bank plc, London, Madrid, Milan, Stockholm, Tel Aviv; 'US' HSBC Securities (USA) Inc, New York; HSBC Yatrim Menkul Degerler AS, Istanbul; HSBC México, SA, Institución de Banca Múltiple, Grupo Financiero HSBC; HSBC Bank Australia Limited; HSBC Bank Argentina SA; HSBC Saudi Arabia Limited; The Hongkong and Shanghai Banking Corporation Limited, New Zealand Branch incorporated in Hong Kong SAR; The Hongkong and Shanghai Banking Corporation Limited, Bangkok Branch; PT Bank HSBC Indonesia; HSBC Qianhai Securities Limited

Issuer of report
HSBC Bank Australia Limited

Level 38

Tower 1, International Towers Sydney

100 Barangaroo Avenue Sydney NSW 2000

Australia

Telephone: +61 2 9006 5888

Fax: +61 2 9255 2205

Website: www.research.hsbc.com

In Australia, this publication has been distributed by The Hongkong and Shanghai Banking Corporation Limited (ABN 65 117 925 970, AFSL 301737) for the general information of its "wholesale" customers (as defined in the Corporations Act 2001). Where distributed to retail customers, this research is distributed by HSBC Bank Australia Limited (ABN 48 006 434 162 AFSL No. 232595). These respective entities make no representations that the products or services mentioned in this document are available to persons in Australia or are necessarily suitable for any particular person or appropriate in accordance with local law. No consideration has been given to the particular investment objectives, financial situation or particular needs of any recipient. This material is distributed in the United Kingdom by HSBC Bank plc. In the UK this material may only be distributed to institutional and professional customers and is not intended for private customers. Any recommendations contained in it are intended for the professional investors to whom it is distributed. This publication is distributed in New Zealand by The Hongkong and Shanghai Banking Corporation Limited, New Zealand Branch incorporated in Hong Kong SAR. This material is distributed in Japan by HSBC Securities (Japan) Limited. This material may be distributed in the United States solely to "major US institutional investors" (as defined in Rule 15a-6 of the US Securities Exchange Act of 1934); such recipients should note that any transactions effected on their behalf will be undertaken through HSBC Securities (USA) Inc. in the United States. Note, however, that HSBC Securities (USA) Inc. is not distributing this report, has not contributed to or participated in its preparation, and does not take responsibility for its contents. In Korea, this publication is distributed by either The Hongkong and Shanghai Banking Corporation Limited, Seoul Securities Branch ("HBAP SLS") or The Hongkong and Shanghai Banking Corporation Limited, Seoul Branch ("HBAP SEL") for the general information of professional investors specified in Article 9 of the Financial Investment Services and Capital Markets Act ("FSCMA"). This publication is not a prospectus as defined in the FSCMA. It may not be further distributed in whole or in part for any purpose. Both HBAP SLS and HBAP SEL are regulated by the Financial Services Commission and the Financial Supervisory Service of Korea. In Singapore, this publication is distributed by The Hongkong and Shanghai Banking Corporation Limited, Singapore Branch for the general information of institutional investors or other persons specified in Sections 274 and 304 of the Securities and Futures Act (Chapter 289) ("SFA") and accredited investors and other persons in accordance with the conditions specified in Sections 275 and 305 of the SFA. Only Economics or Currencies reports are intended for distribution to a person who is not an Accredited Investor, Expert Investor or Institutional Investor as defined in SFA. The Hongkong and Shanghai Banking Corporation Limited, Singapore Branch accepts legal responsibility for the contents of reports pursuant to Regulation 32C(1)(d) of the Financial Advisers Regulations. This publication is not a prospectus as defined in the SFA. This publication is not a prospectus as defined in the SFA. It may not be further distributed in whole or in part for any purpose. The Hongkong and Shanghai Banking Corporation Limited Singapore Branch is regulated by the Monetary Authority of Singapore. Recipients in Singapore should contact a "Hongkong and Shanghai Banking Corporation Limited, Singapore Branch" representative in respect of any matters arising from, or in connection with this report. Please refer to The Hongkong and Shanghai Banking Corporation Limited Singapore Branch's website at www.business.hsbc.com.sg for contact details. HSBC México, S.A., Institución de Banca Múltiple, Grupo Financiero HSBC is authorized and regulated by Secretaría de Hacienda y Crédito Público and Comisión Nacional Bancaria y de Valores (CNBV).

This material is not and should not be construed as an offer to sell or the solicitation of an offer to purchase or subscribe for any investment. This document has been prepared without taking account of the objectives, financial situation or needs of any specific person who may receive this document. Any such person should, before acting on the information in this document, consider the appropriateness of the information, having regard to the personal objectives, financial situation and needs. In all cases, anyone proposing to rely on or use the information in this document should independently verify and check its accuracy, completeness, reliability and suitability and should obtain independent and specific advice from appropriate professionals or experts. HSBC has based this document on information obtained from sources it believes to be reliable but which it has not independently verified; HSBC makes no guarantee, representation or warranty and accepts no responsibility or liability as to its accuracy or completeness. Expressions of opinion are those of HSBC only and are subject to change without notice. From time to time research analysts conduct site visits of covered issuers. HSBC policies prohibit research analysts from accepting payment or reimbursement for travel expenses from the issuer for such visits. HSBC and its affiliates and/or their officers, directors and employees may have positions in any securities mentioned in this document (or in any related investment) and may from time to time add to or dispose of any such securities (or investment). HSBC and its affiliates may act as market maker or have assumed an underwriting commitment in the securities of any companies discussed in this document (or in related investments), may sell them to or buy them from customers on a principal basis and may also perform or seek to perform banking or underwriting services for or relating to those companies. This material may not be further distributed in whole or in part for any purpose. No consideration has b

In Canada, this document has been distributed by HSBC Securities (Canada) Inc. (member IIROC), and/or its affiliates. The information contained herein is under no circumstances to be construed as investment advice in any province or territory of Canada and is not tailored to the needs of the recipient. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed judgment upon these materials, the information contained herein or the merits of the securities described herein, and any representation to the contrary is an offense.

If you are an HSBC Private Banking ("PB") customer with approval for receipt of relevant research publications by an applicable HSBC legal entity, you are eligible to receive this publication. To be eligible to receive such publications, you must have agreed to the applicable HSBC entity's terms and conditions ("KRC Terms") for access to the KRC, and the terms and conditions of any other internet banking service offered by that HSBC entity through which you will access research publications using the KRC. Distribution of this publication is the sole responsibility of the HSBC entity with whom you have agreed the KRC Terms.

If you do not meet the aforementioned eligibility requirements please disregard this publication and, if you are a customer of PB, please notify your Relationship Manager. Receipt of research publications is strictly subject to the KRC Terms, which can be found at https://research.privatebank.hsbc.com/ – we draw your attention also to the provisions contained in the Important Notes section therein.

© Copyright 2019, HSBC Bank Australia Ltd, ALL RIGHTS RESERVED. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, on any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of HSBC Bank Australia Limited. MCI (P) 065/01/2019, MCI (P) 008/02/2019.

[1124364]