

Trade dynamics and value chains of CETM

P166 short course for delegates

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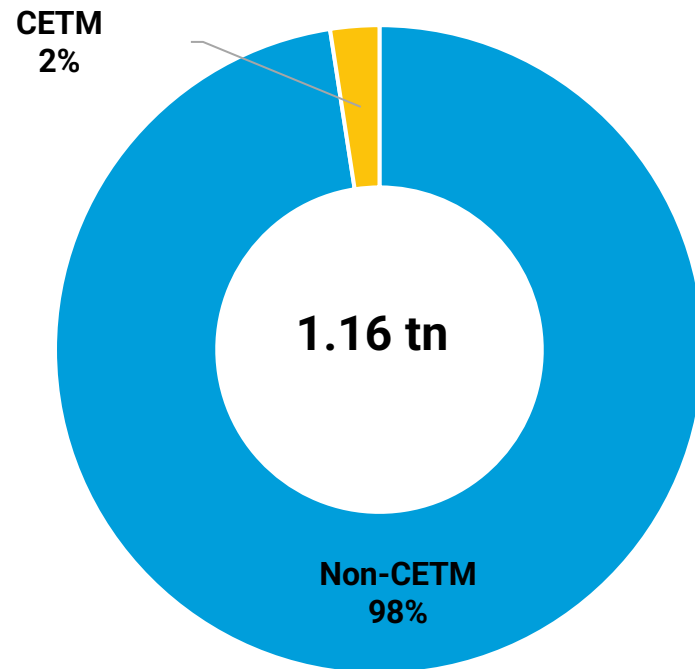
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Trade dynamics of CETM

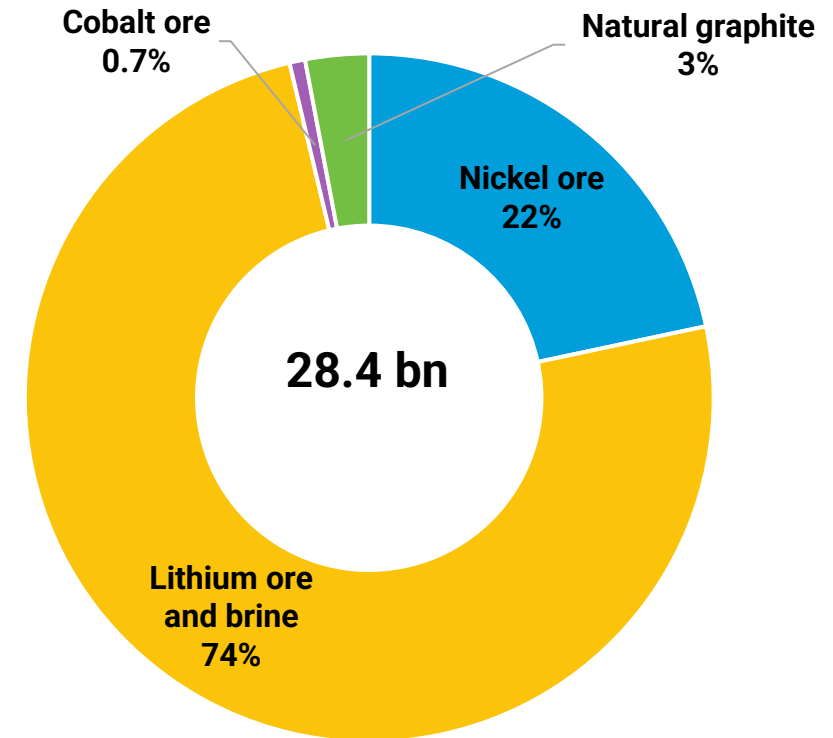


CETM exports are relatively small in the world mineral trade

Share of selected CETM exports to total ores and minerals exports, 2022



Breakdown of selected CETM exports, 2022

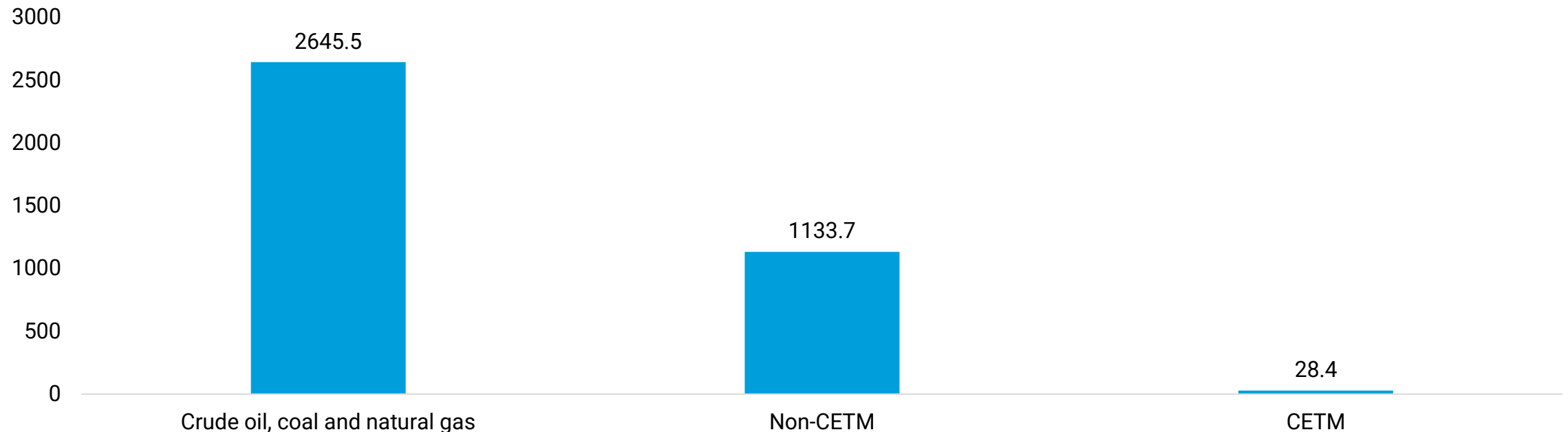


Source: UNCTAD based on COMTRADE data.

Note: The figure on the left shows the share of trade of selected CETM (cobalt ore, nickel ore and lithium ore and brine) to total export values of ores and minerals. The figure on the right shows the breakdown of critical mineral exports. Both figures are based on trade data as reported in the following 6-digit level HS Codes: Cobalt (260500), Nickel (260400); Graphite (250410); and Lithium (253090 and 283691). Non-CETM data are calculated based on SITC codes 27+28+68 minus traded values for the aforementioned commodities.

Traded values are even smaller when compared to fuel exports

Export value of minerals and fuels, 2022
(traded export values, in billion USD)

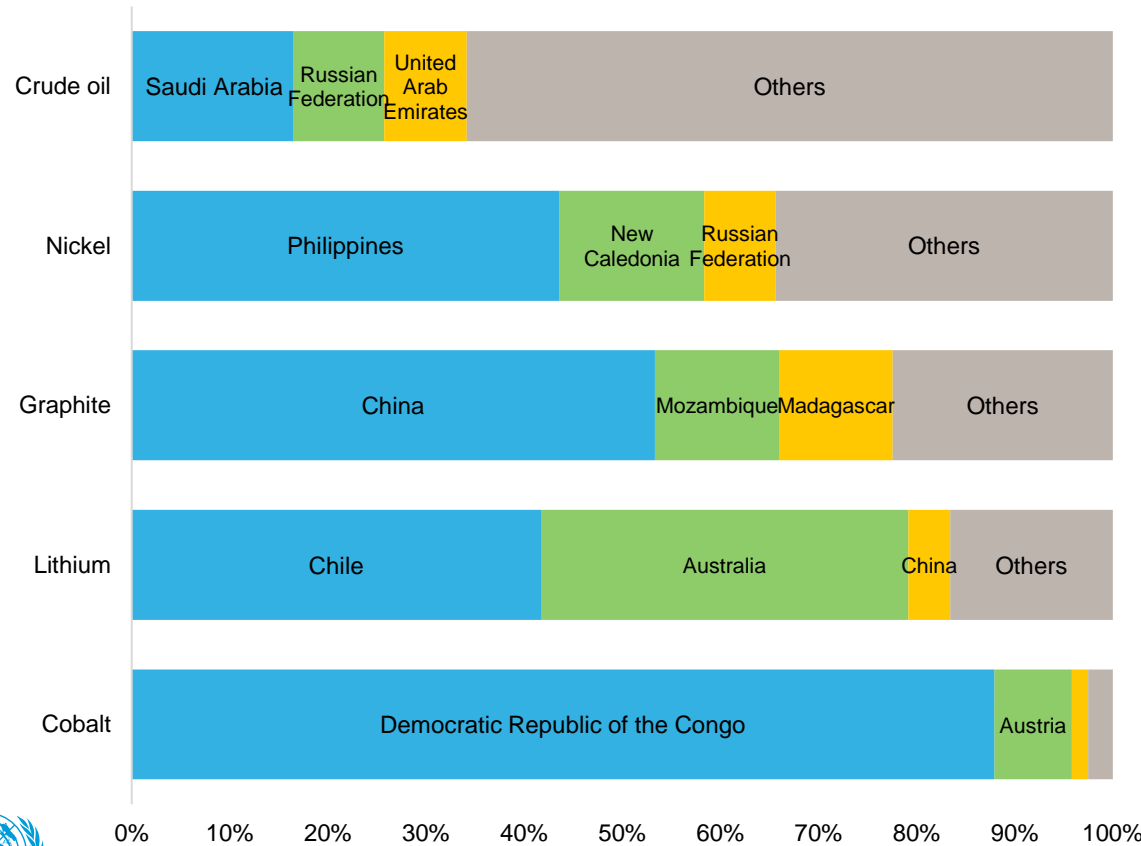


Source: UNCTAD based on COMTRADE data.

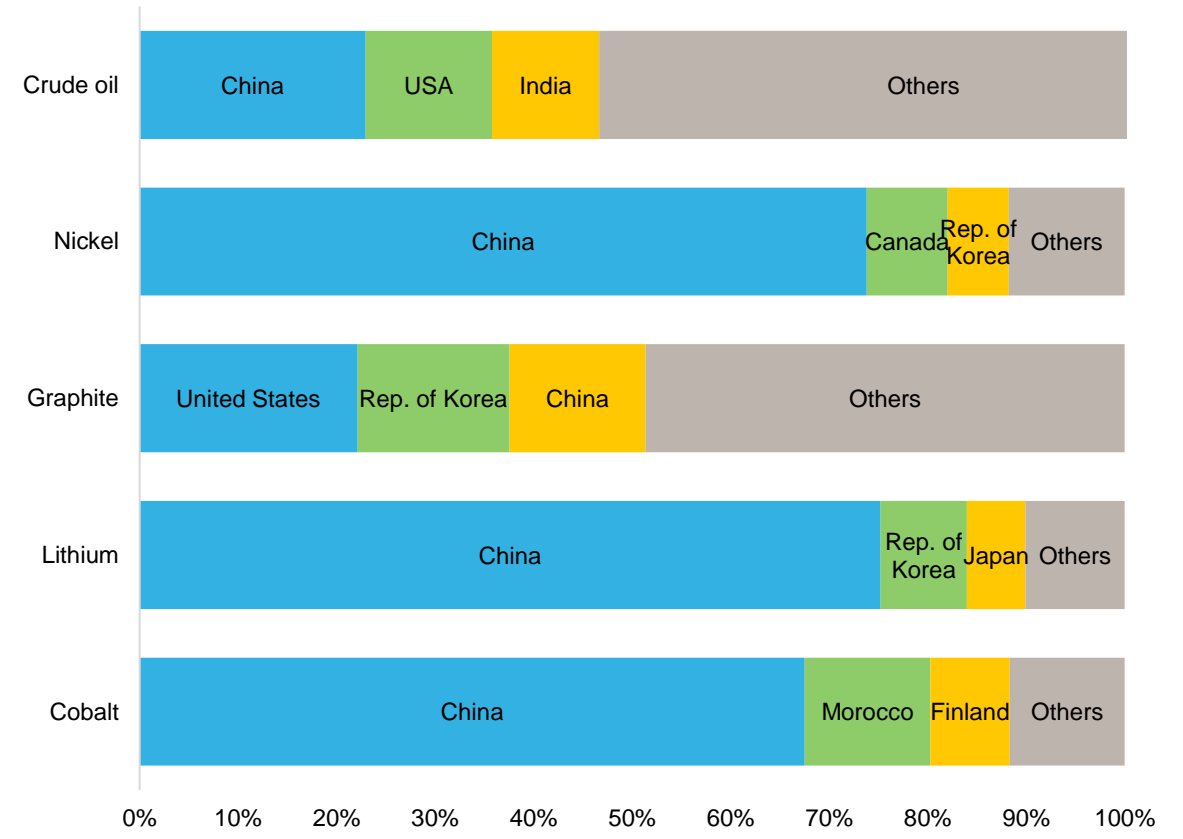
Note: The figure shows the export values of selected CETM (cobalt ore, nickel ore and lithium ore and brine), non-CETM and crude oil, coal and natural gas. This is based on trade data as reported in the following 6-digit level HS Codes: Coal (270111, 270112, 270120), Cobalt (260500), Crude oil (270900); Nickel (260400); Graphite (250410); Lithium (253090 and 283691), and Natural gas (271111, 271121). Non-CETM data are calculated based on SITC codes 27+28+68 minus traded values for the aforementioned commodities.

Trade of CETMs is more concentrated than of crude oil

Top three exporters, 2022
(share of world exports, percentage)



Top three importers, 2022
(share of world imports, percentage)



Source: UNCTAD based on COMTRADE data.

Note: The figure on the left shows the share of trade to total export value for each commodity. The figure on the right shows the share of trade to total import value for each commodity.

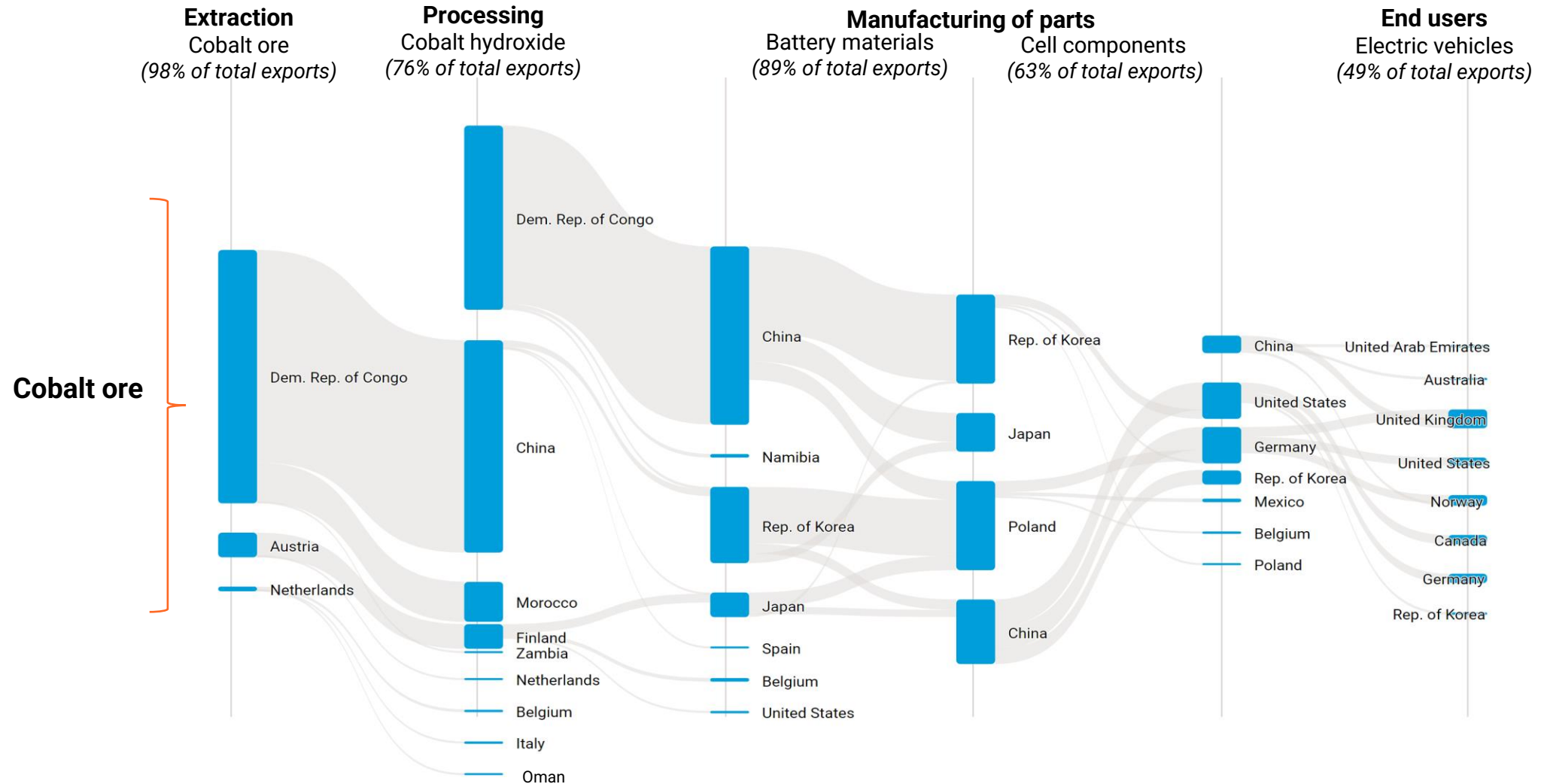
Both figures are based on trade data as reported in the following 6-digit level HS Codes: Cobalt (260500), Crude oil (270900); Graphite (250410); Nickel (260400), and Lithium (253090 and 283691).

The case of cobalt



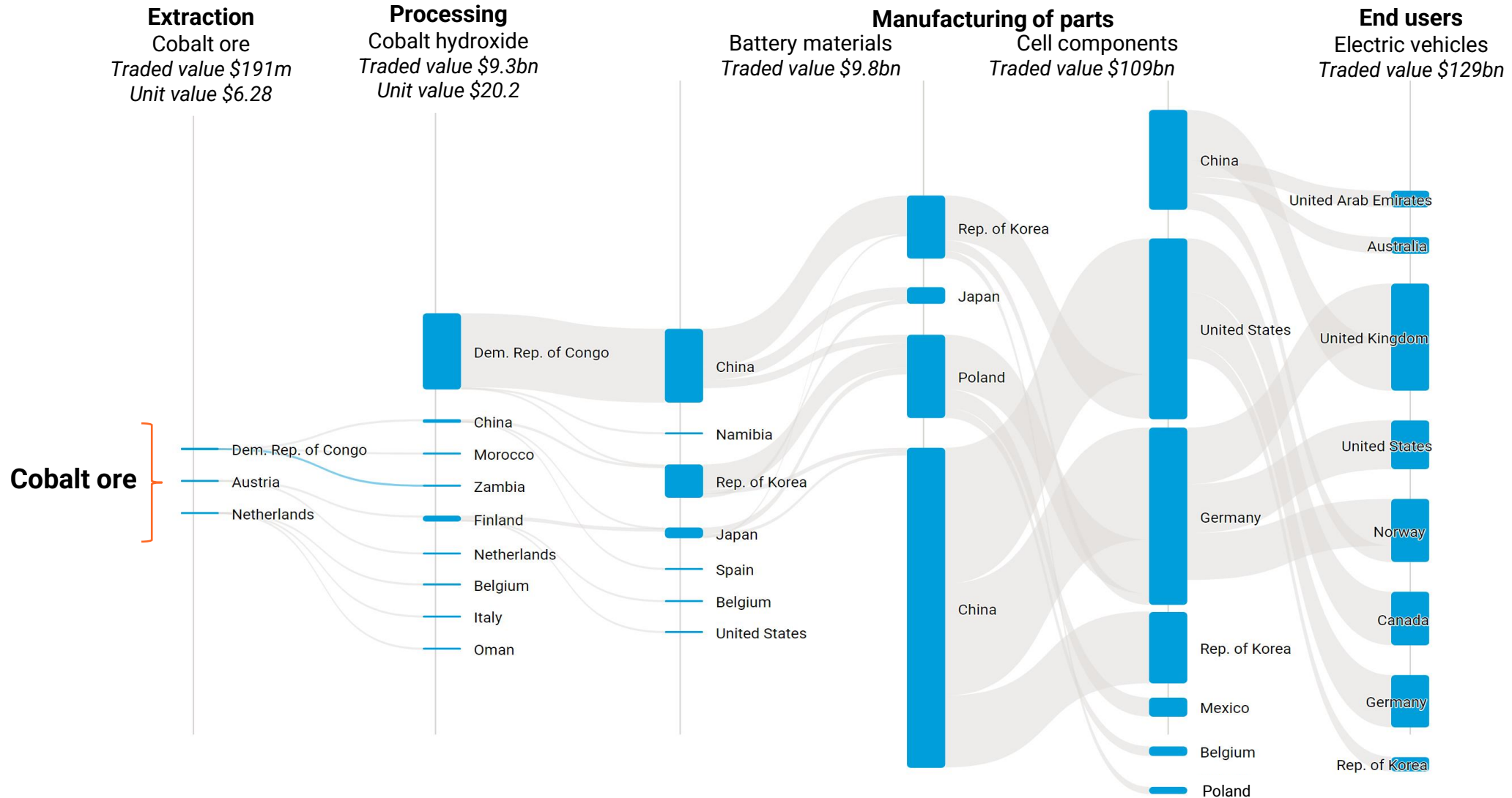
Trade is concentrated upstream in the value chain

Cobalt trade flows along the EV value chain, 2022 (percentage of total exports)

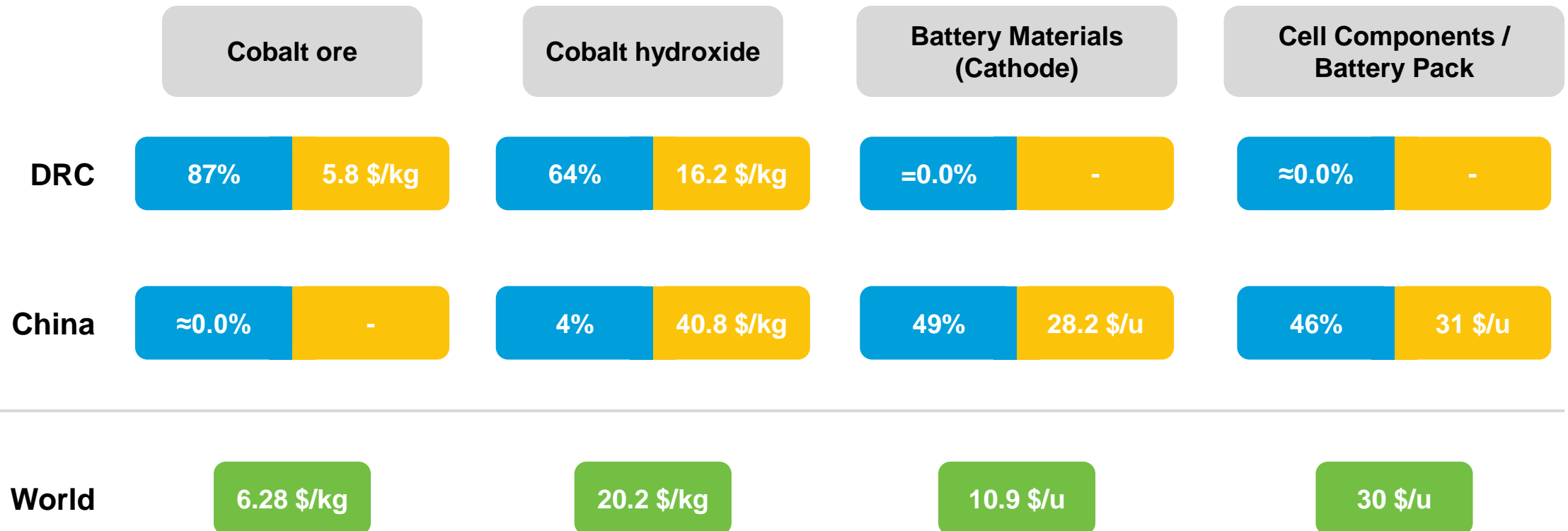


Trade values increase downstream in the value chain

Cobalt trade flows along the EV value chain, 2022 (in USD)



Greater value addition along the value chain

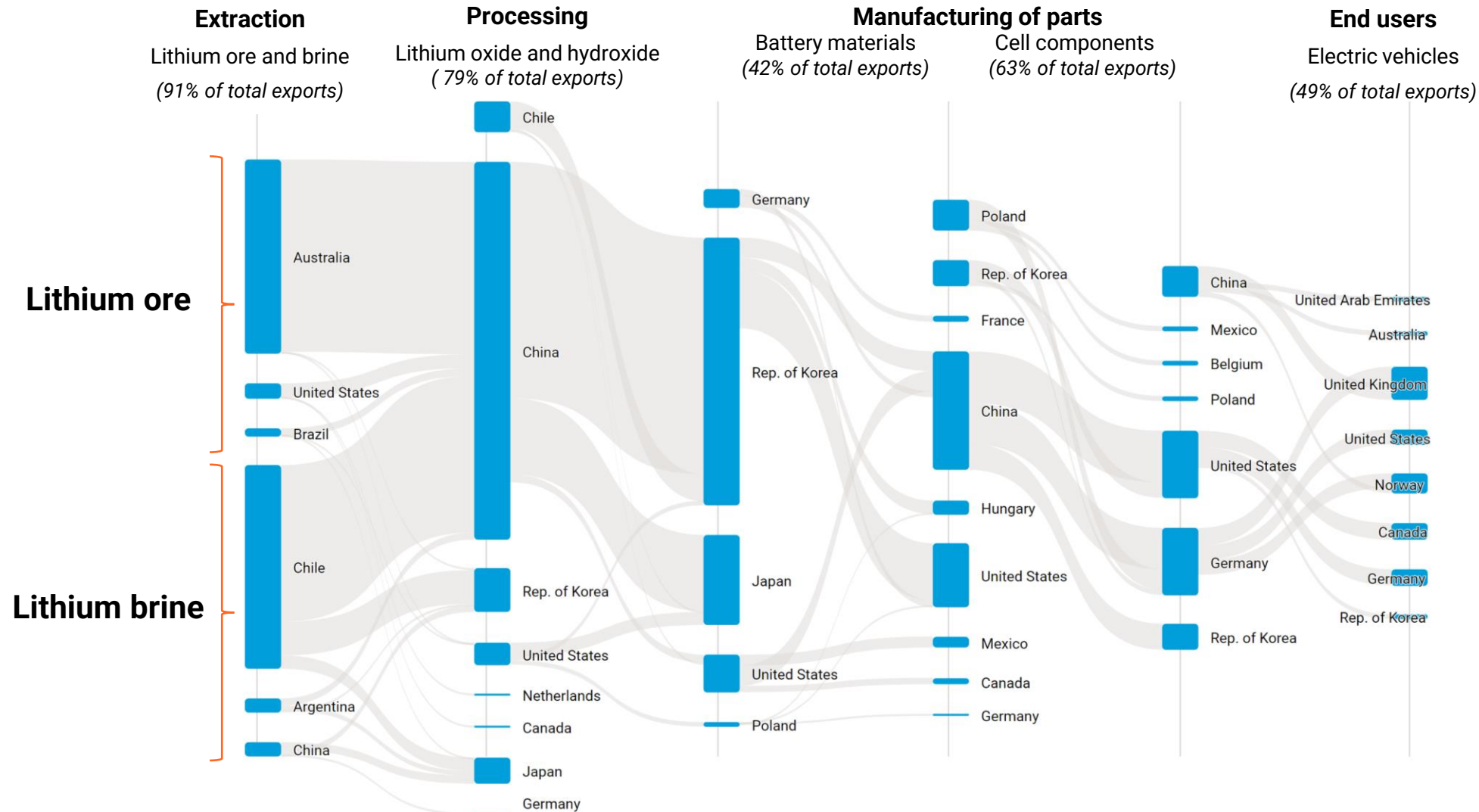


The case of lithium



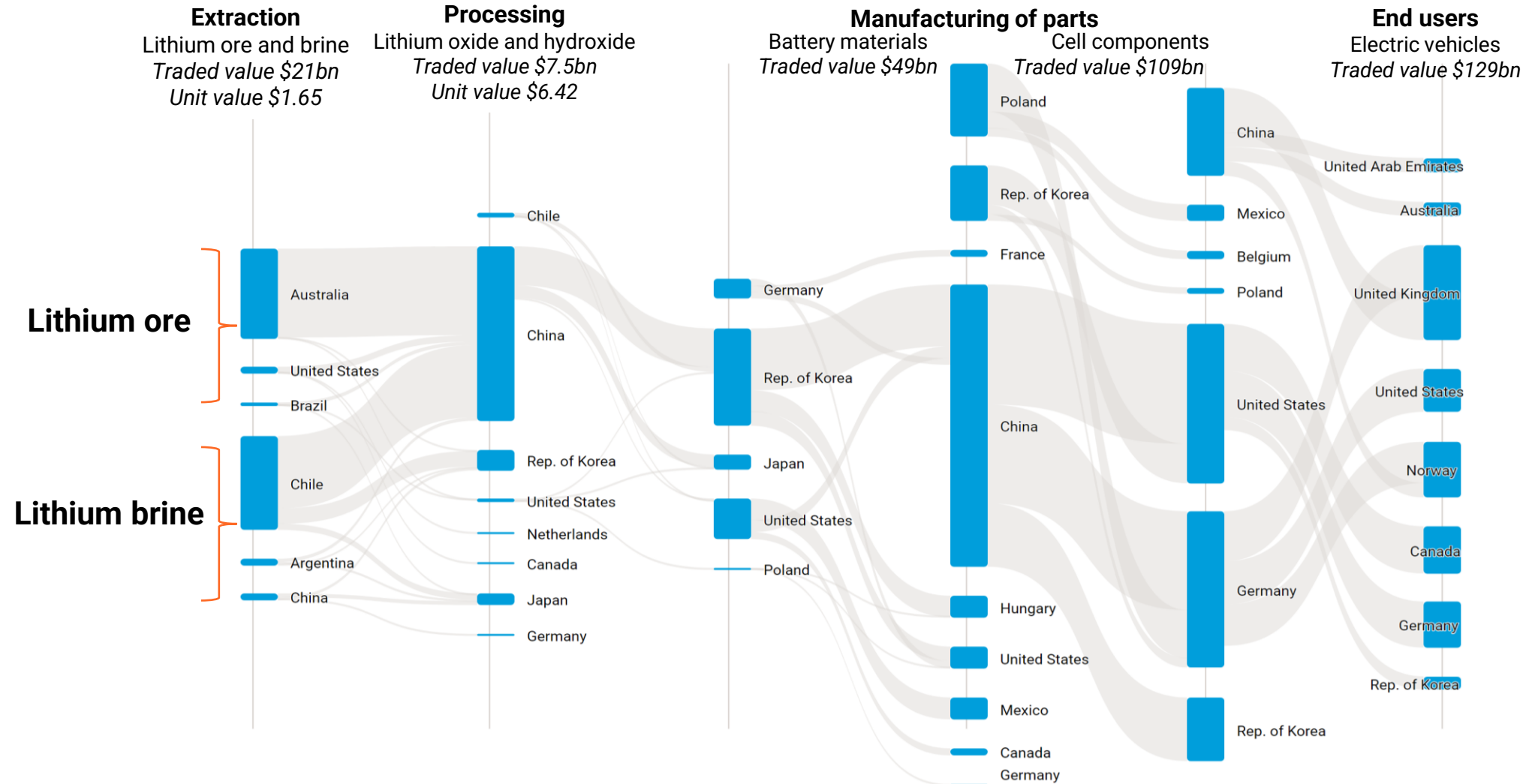
Trade is also highly concentrated upstream

Lithium trade flows along the EV value chain, 2022 (percentage of total exports)



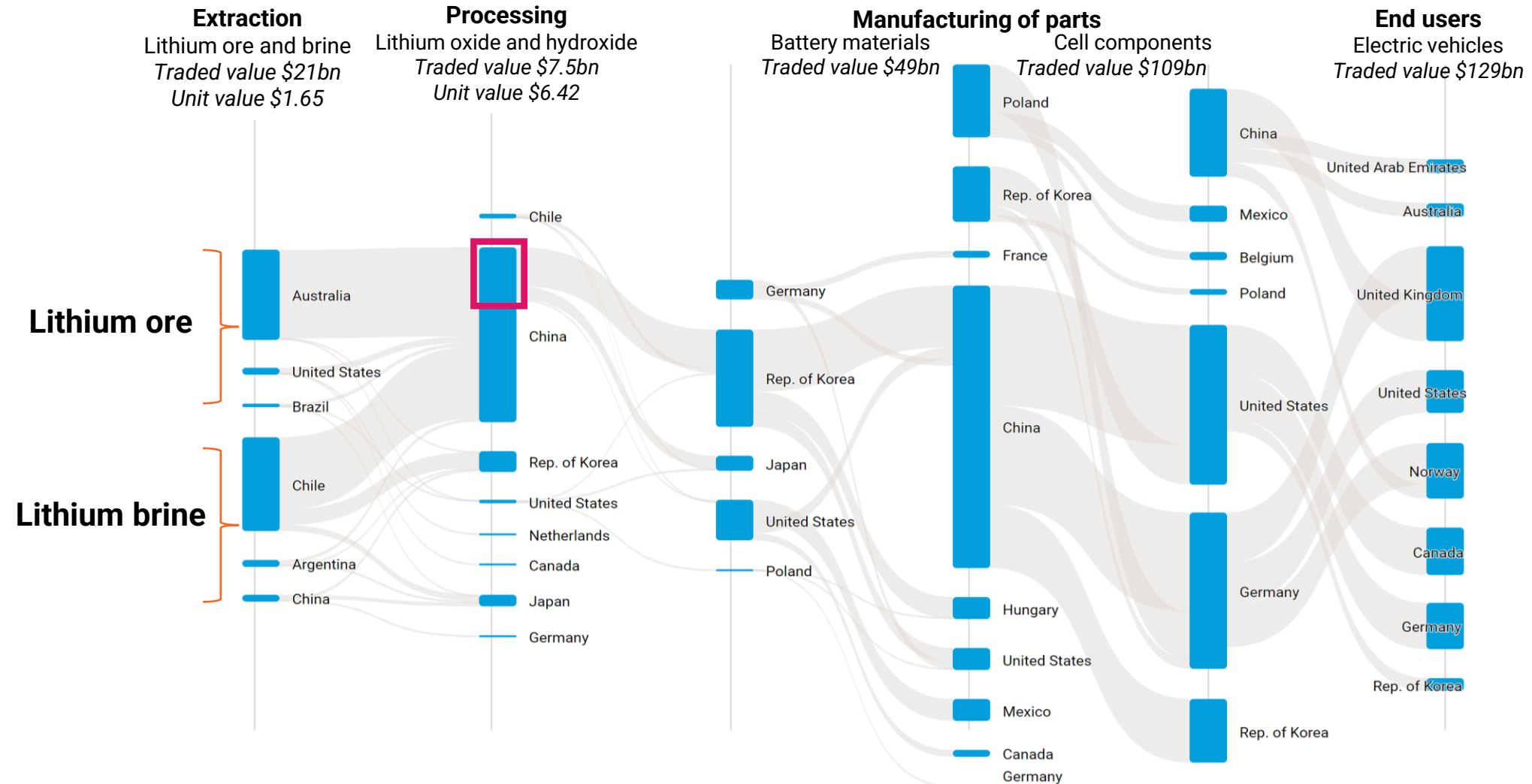
Greater values downstream: China shows significant value addition

Lithium trade flows along the EV value chain, 2022 (in USD)



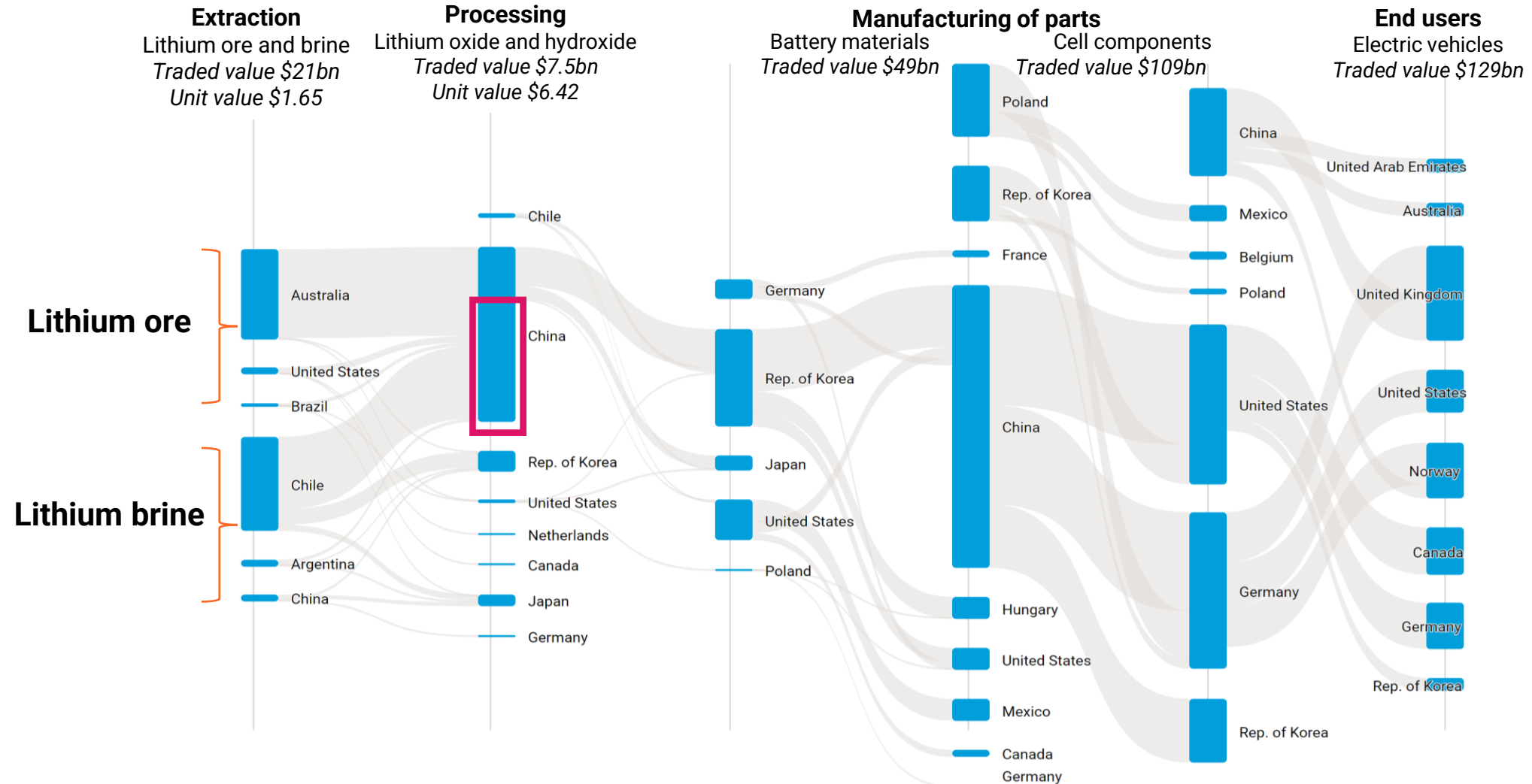
Greater values downstream: China shows significant value addition

Lithium trade flows along the EV value chain, 2022 (in USD)



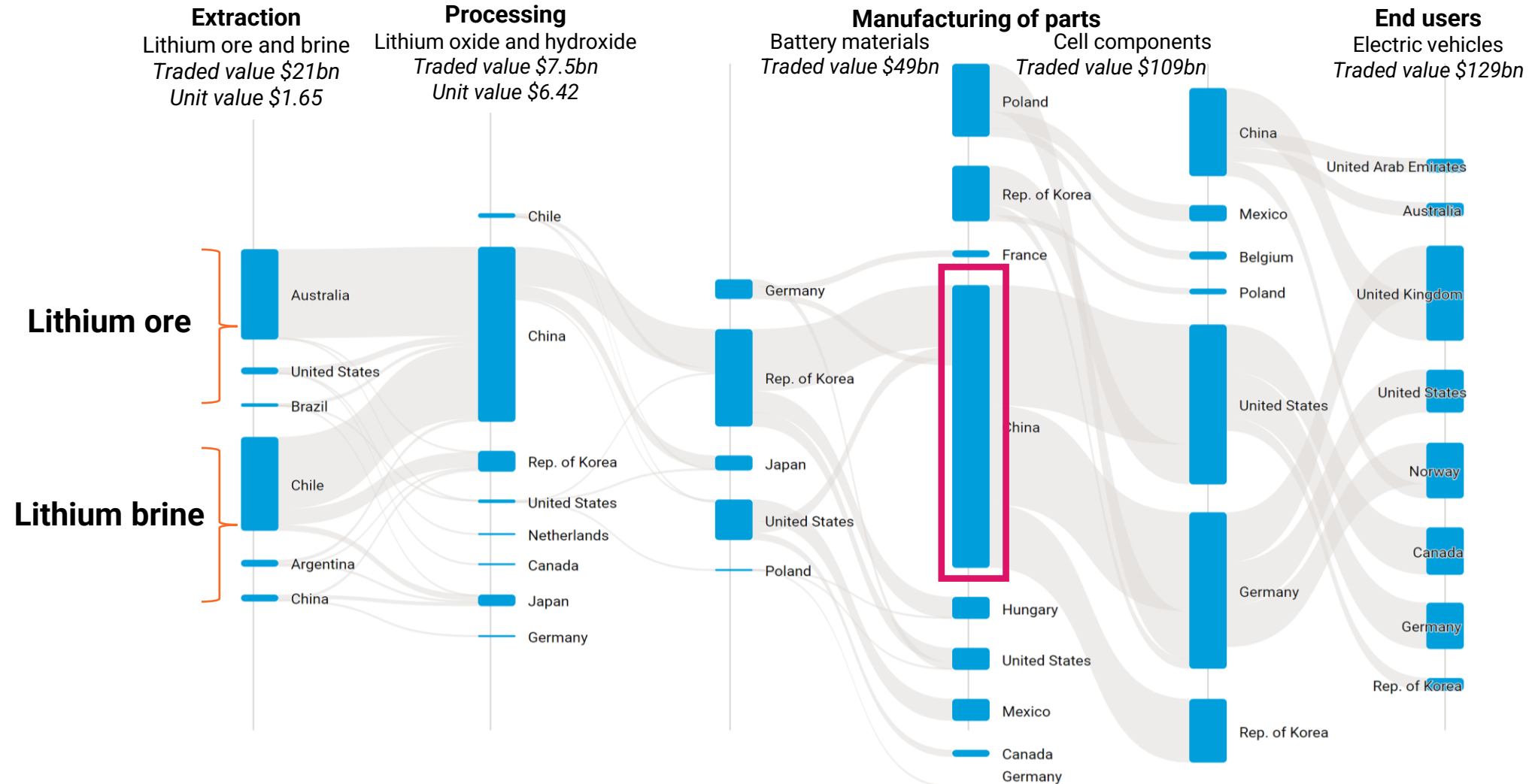
Greater values downstream: China shows significant value addition

Lithium trade flows along the EV value chain, 2022 (in USD)



Greater values downstream: China shows significant value addition

Lithium trade flows along the EV value chain, 2022 (in USD)



Key takeaways

01

Value of CETM exports is relatively small

02

High market concentration in exporters and importers

03

Trade is concentrated upstream in the value chain

04

Trade values increase downstream in the value chain

Thank you!

