

ATLAS OF THE CLEAN  
INDUSTRIAL BASE

Solar · Brazil

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

TRADE-BASED INTELLIGENCE BRIEF

Solar  
Brazil

**\$127.3B**  
TOTAL EXPORTS

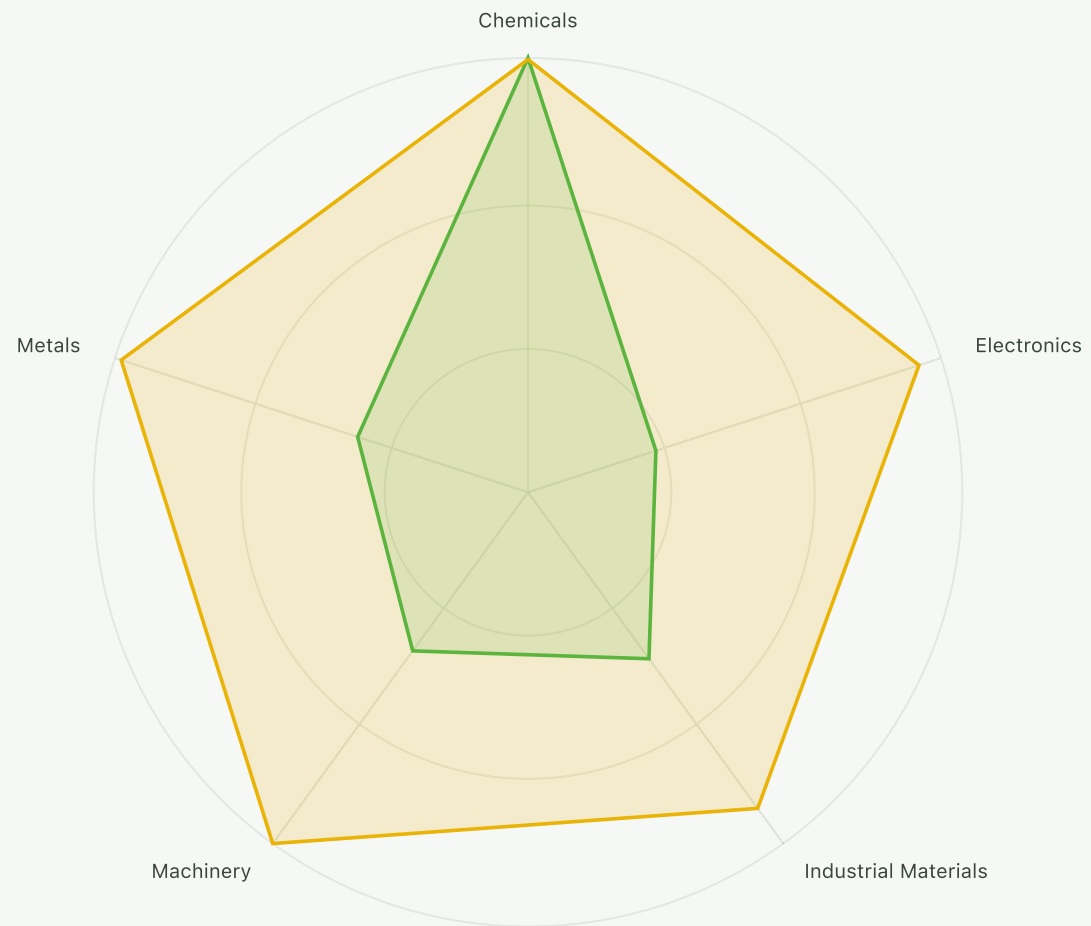
**\$92.7B**  
TOTAL IMPORTS

**80**  
TRADED PRODUCTS

**CAN**  
TOP DESTINATION

## 01 CAPABILITY RADAR

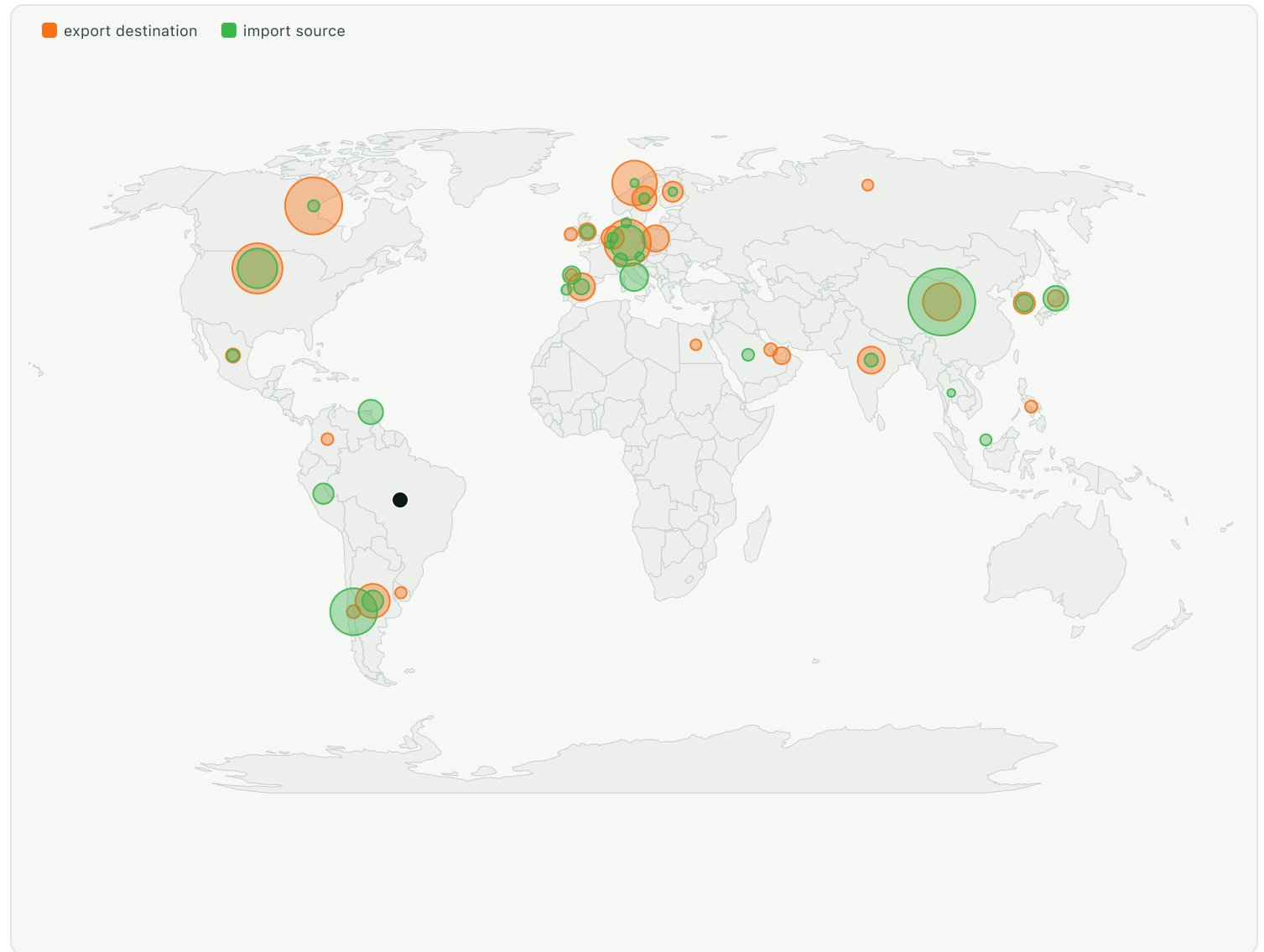
■ SHAP weight (tech) ■ Country RCA



- Strongest revealed capability: **Chemicals** (RCA 0.34).
- Most model-important category for this tech: **Machinery**.

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

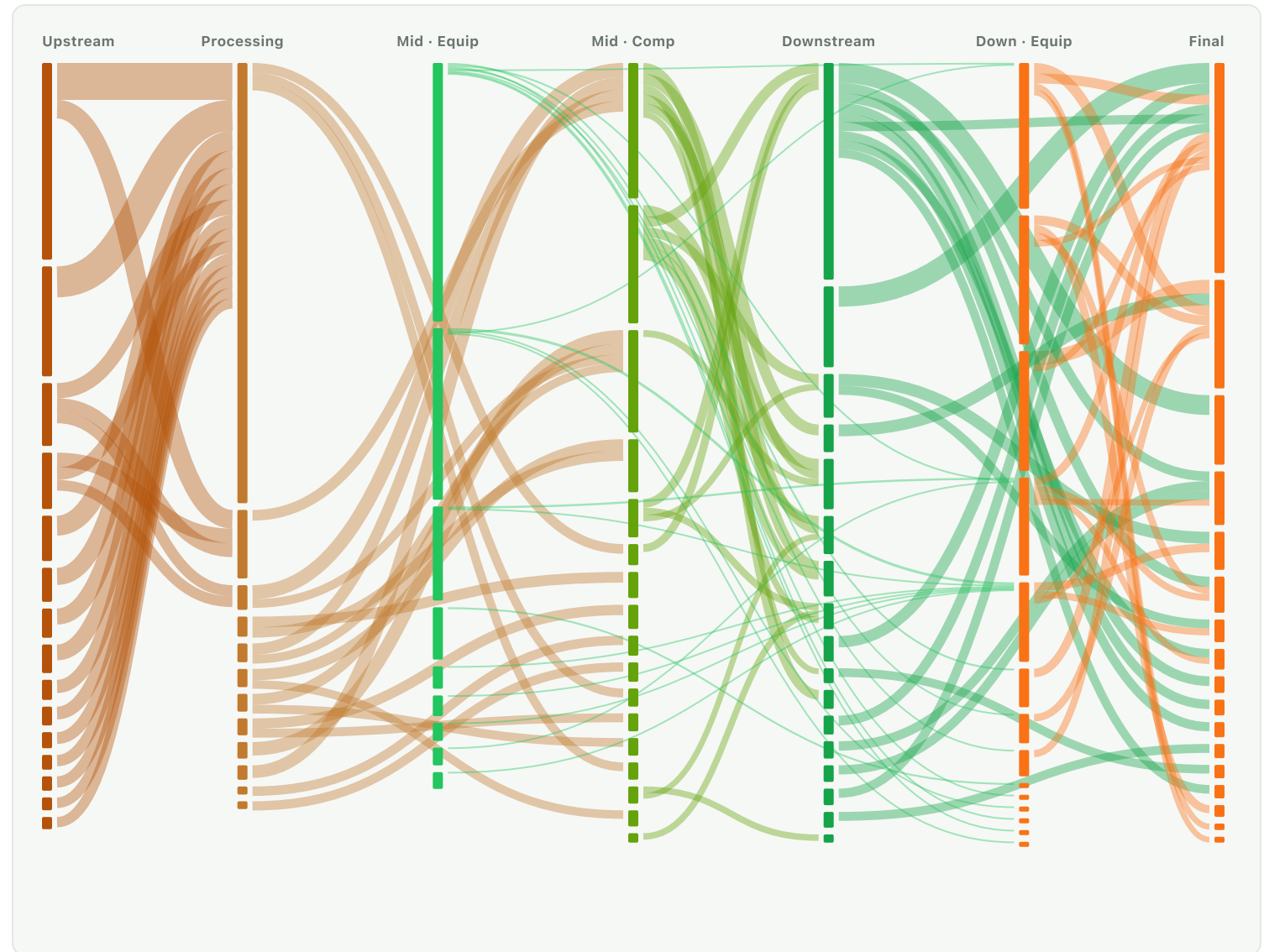
## 02 TRADE MAP



- Top export destination: **CAN** (\$18.6B).
- Top import source: **CHN** (\$25.7B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

## 03 VALUE-CHAIN SANKEY



- 120 bilateral flows across the 7-lane value chain (\$151.8B total, 2022).
- Largest flow: **CHL → CHN** (\$15.6B).

TRADE-BASED INTELLIGENCE BRIEF

Nuclear  
Brazil

\$638.2B

TOTAL EXPORTS

\$32.6B

TOTAL IMPORTS

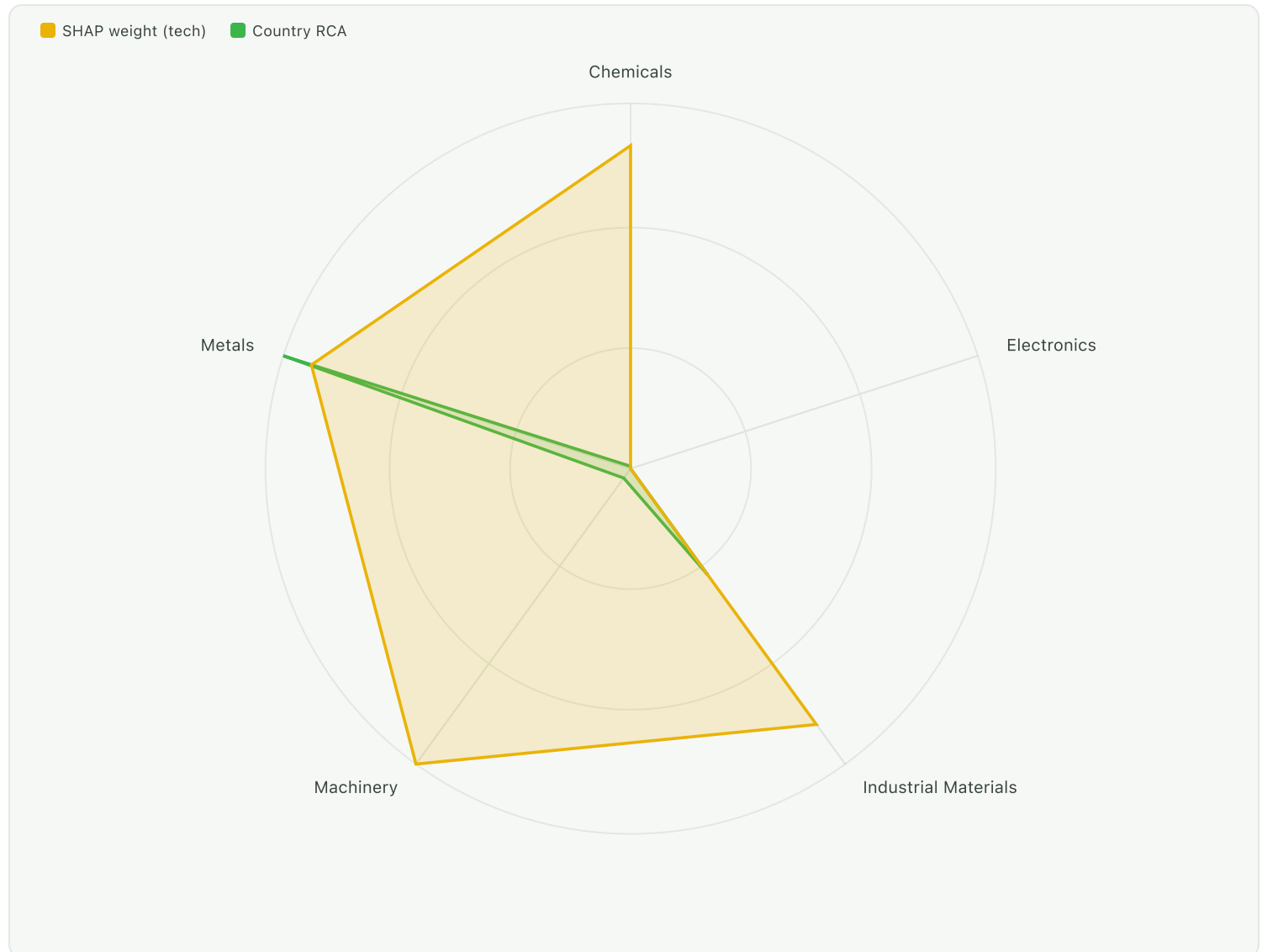
41

TRADED PRODUCTS

CHN

TOP DESTINATION

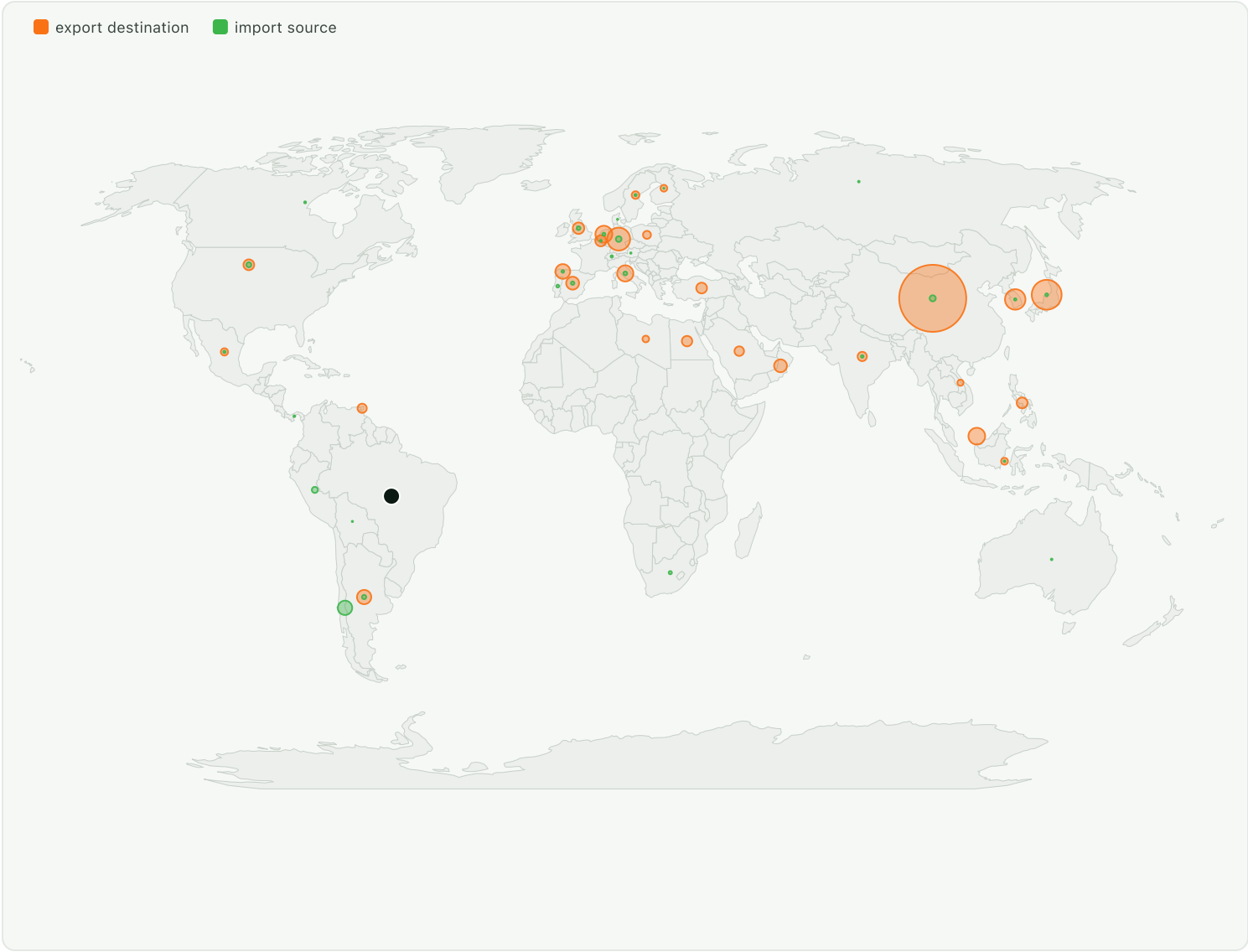
## 01 CAPABILITY RADAR



- Strongest revealed capability: **Metals** (RCA 7.88).
- Most model-important category for this tech: **Machinery**.

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

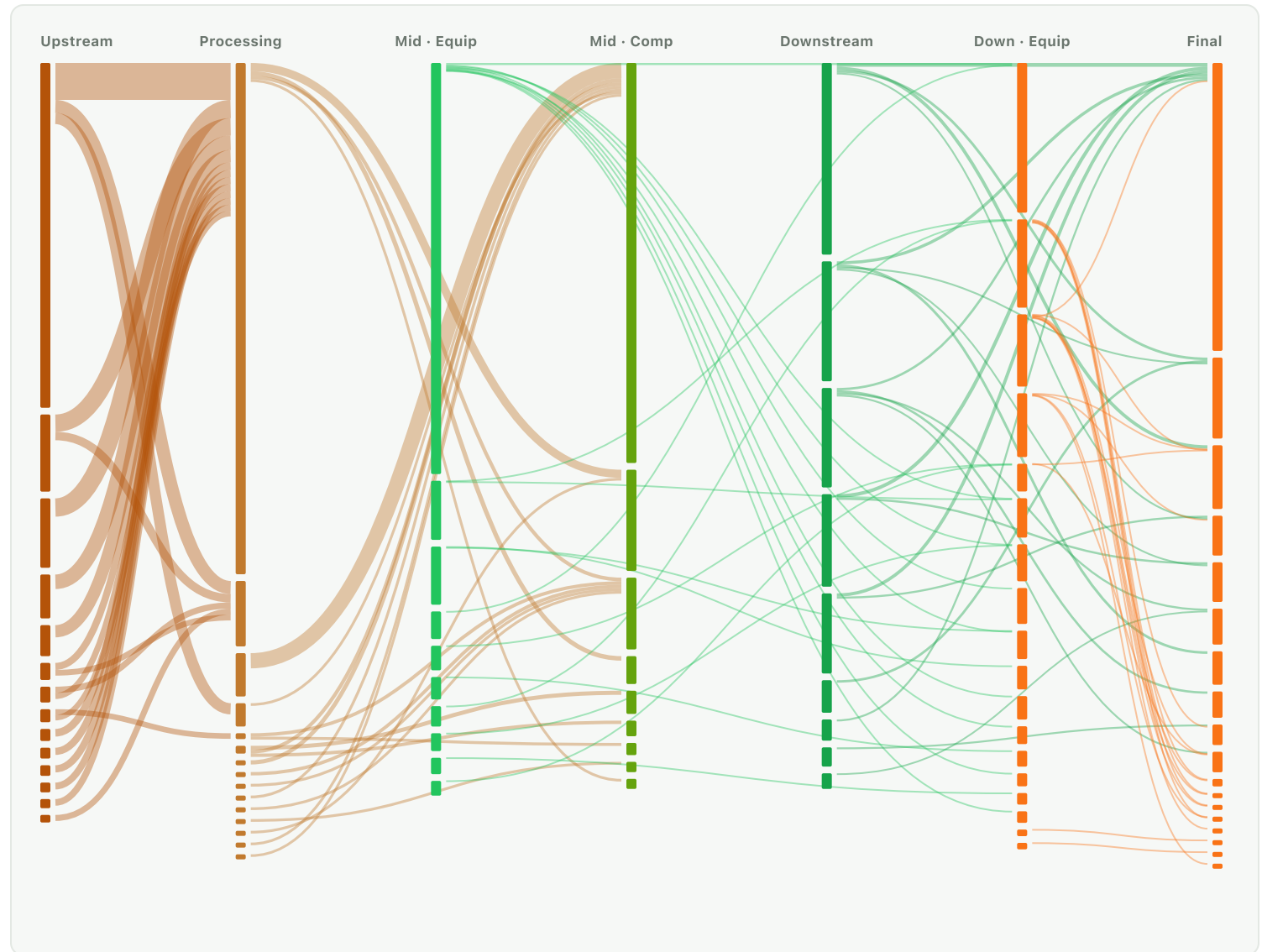
02 TRADE MAP



- Top export destination: **CHN** (\$289.5B).
- Top import source: **CHL** (\$13.3B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

## 03 VALUE-CHAIN SANKEY



- 100 bilateral flows across the 7-lane value chain (\$217.9B total, 2022).
- Largest flow: **AUS→CHN** (\$76.8B).

TRADE-BASED INTELLIGENCE BRIEF

Batteries  
Brazil

**\$705.2B**

TOTAL EXPORTS

**\$106.4B**

TOTAL IMPORTS

**89**

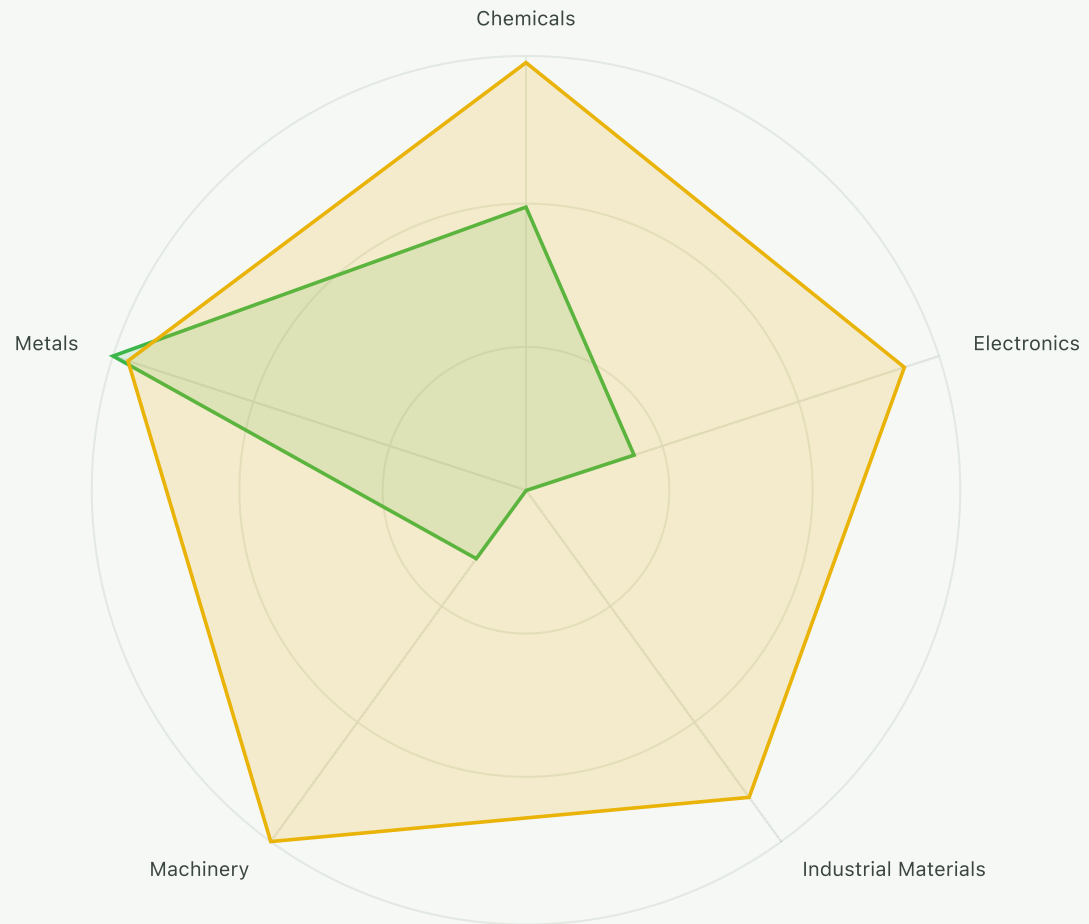
TRADED PRODUCTS

**CHN**

TOP DESTINATION

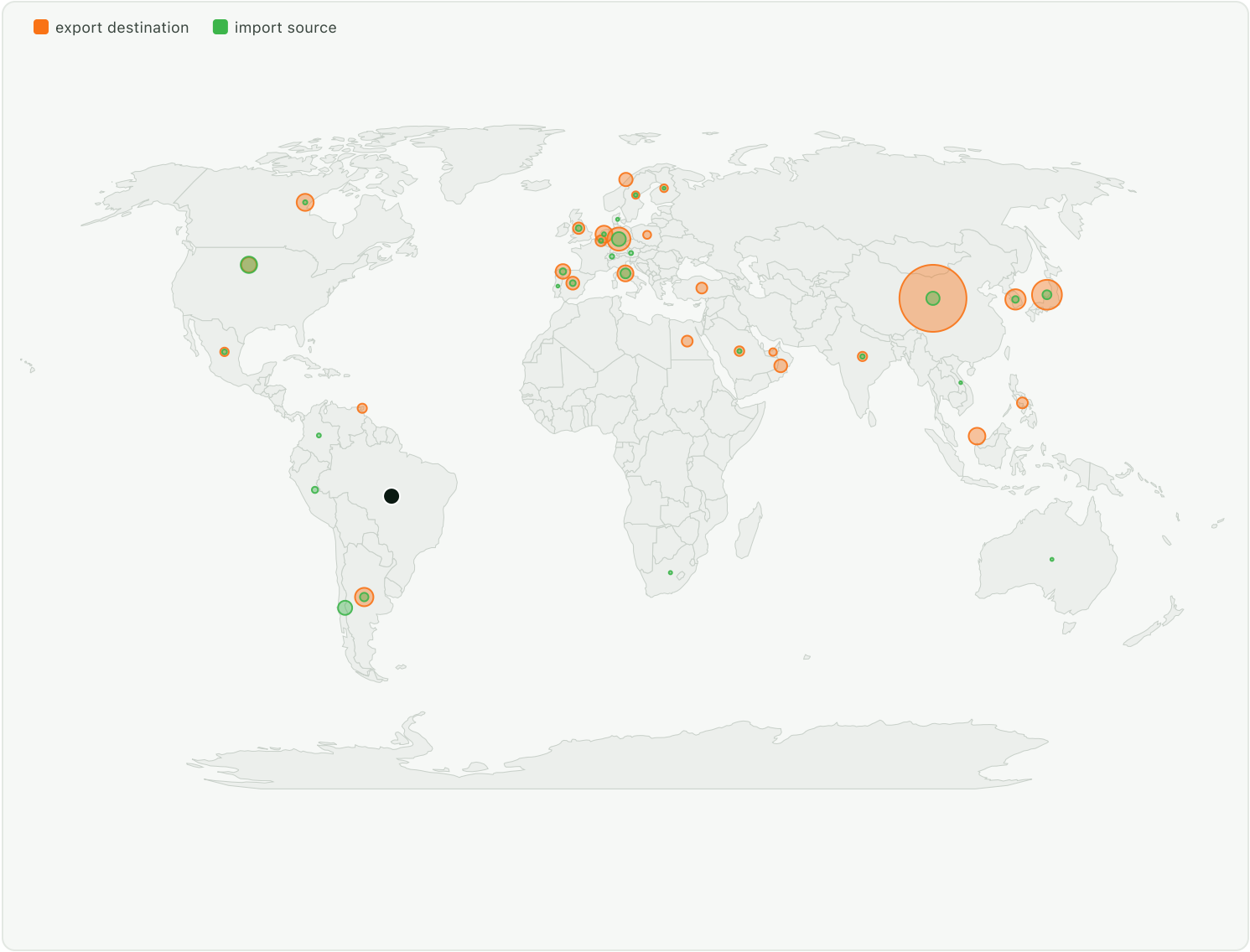
## 01 CAPABILITY RADAR

SHAP weight (tech) Country RCA



- Strongest revealed capability: **Metals** (RCA 0.48).
- Most model-important category for this tech: **Machinery**.

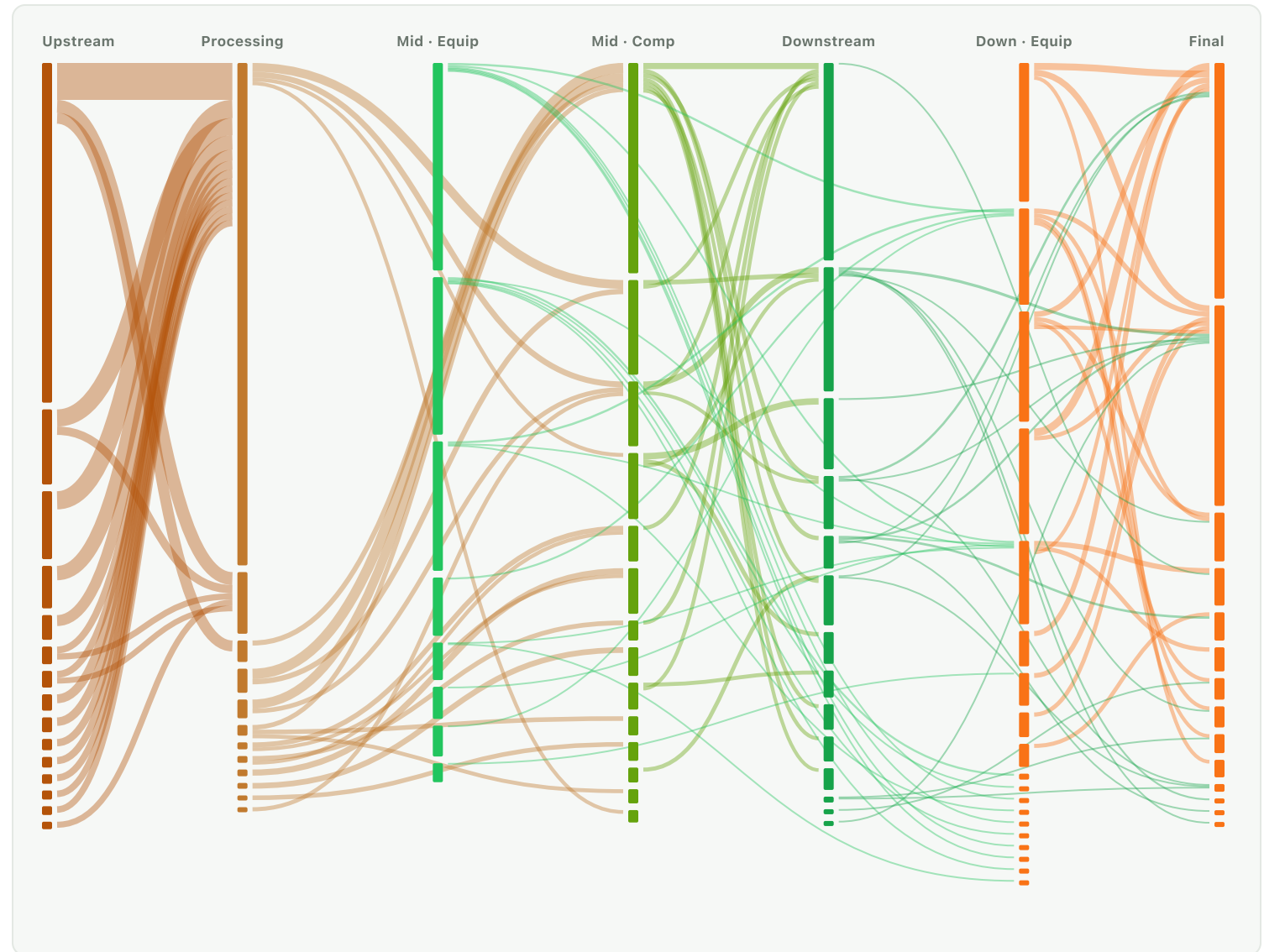
02 TRADE MAP



- Top export destination: **CHN** (\$289.1B).
- Top import source: **USA** (\$17.3B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

### 03 VALUE-CHAIN SANKEY



- 120 bilateral flows across the 7-lane value chain (\$277.6B total, 2022).
- Largest flow: **AUS→CHN** (\$77.7B).

TRADE-BASED INTELLIGENCE BRIEF

# Transmission Brazil

**\$679.9B**

TOTAL EXPORTS

**\$54.4B**

TOTAL IMPORTS

**36**

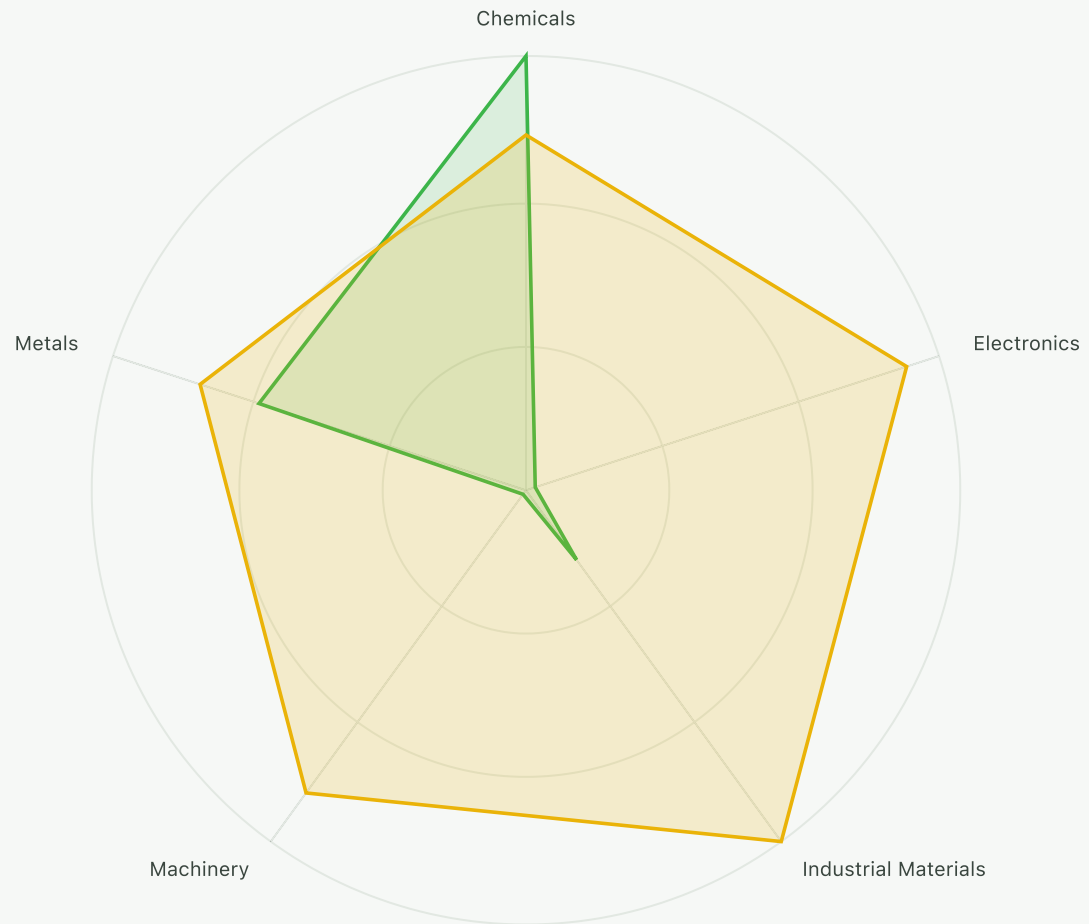
TRADED PRODUCTS

**CHN**

TOP DESTINATION

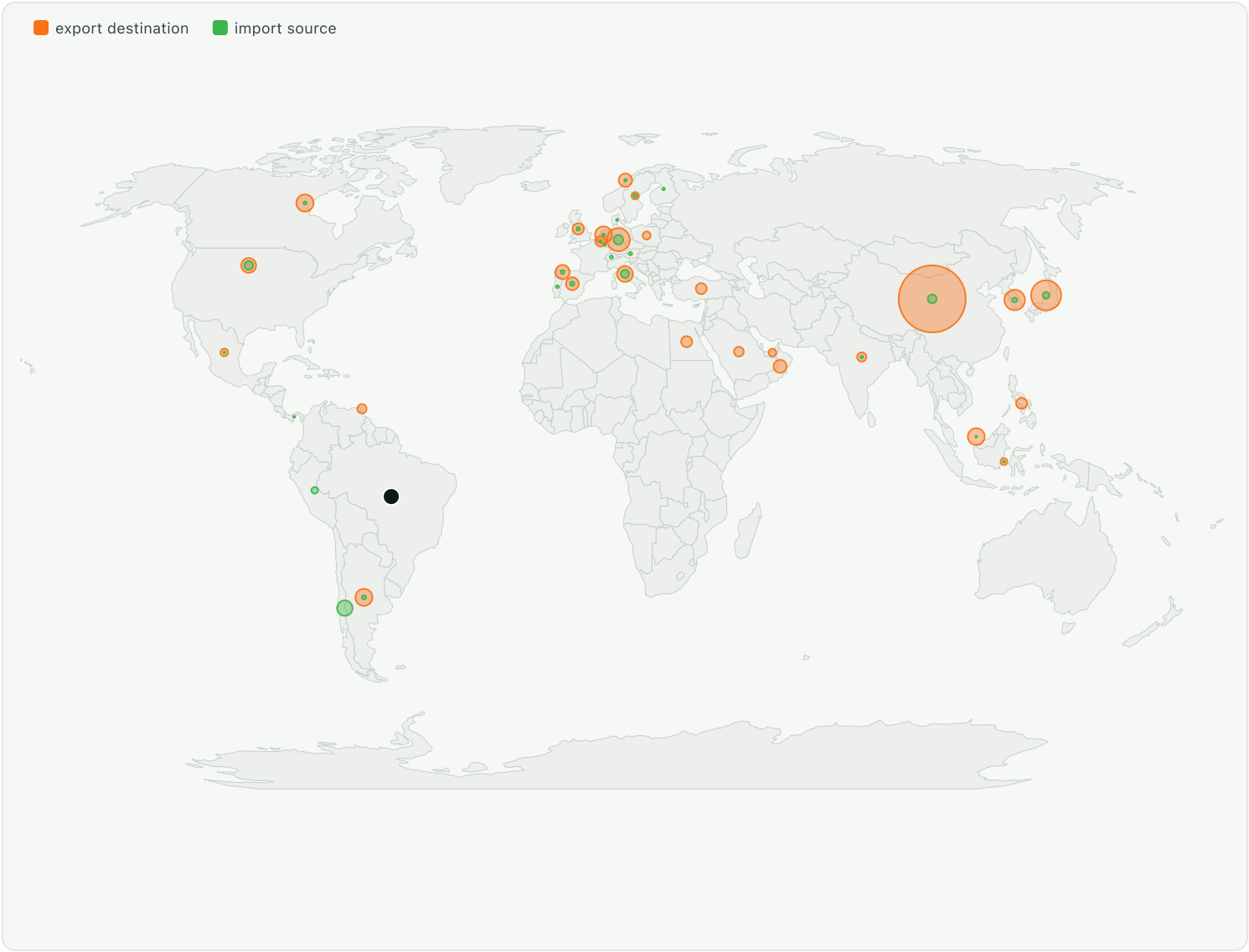
## 01 CAPABILITY RADAR

■ SHAP weight (tech) ■ Country RCA



- Strongest revealed capability: **Chemicals** (RCA 11.71).
- Most model-important category for this tech: **Industrial Materials**.

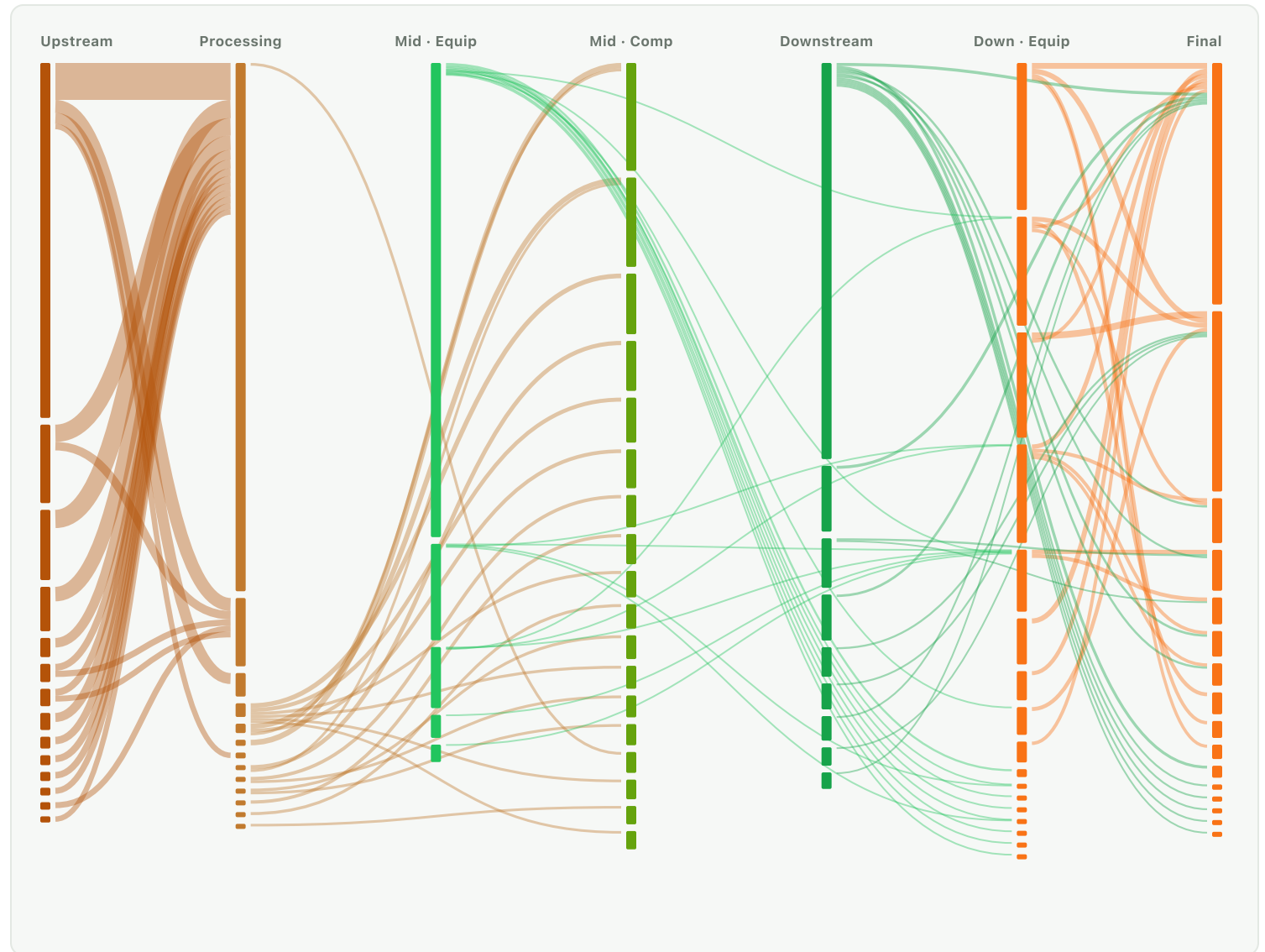
02 TRADE MAP



- Top export destination: **CHN** (\$284.4B).
- Top import source: **CHL** (\$15.0B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

## 03 VALUE-CHAIN SANKEY



- 100 bilateral flows across the 7-lane value chain (\$217.7B total, 2022).
- Largest flow: **AUS→CHN** (\$76.2B).

ATLAS OF THE CLEAN  
INDUSTRIAL BASE

Wind · Brazil

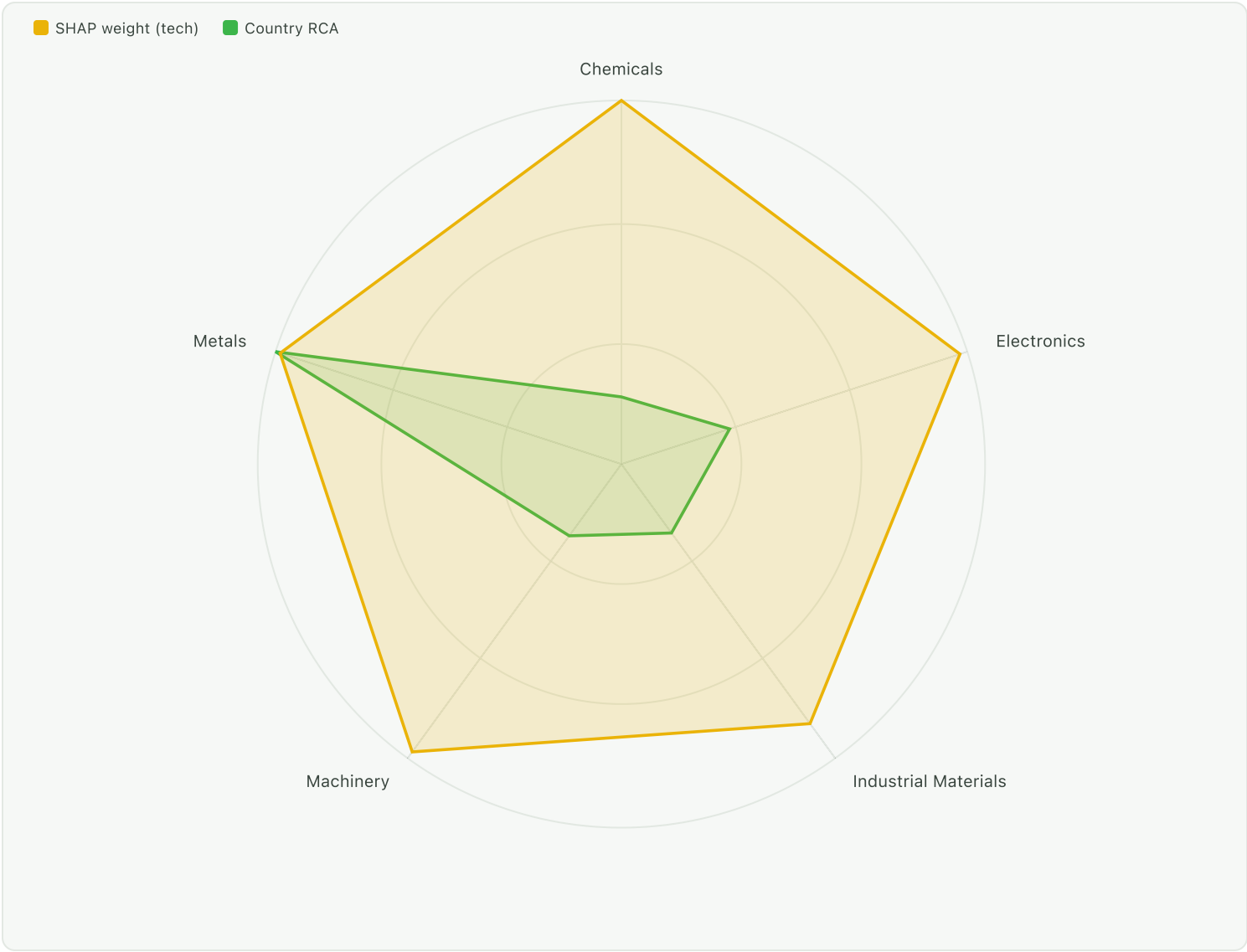
- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

TRADE-BASED INTELLIGENCE BRIEF

Wind  
Brazil

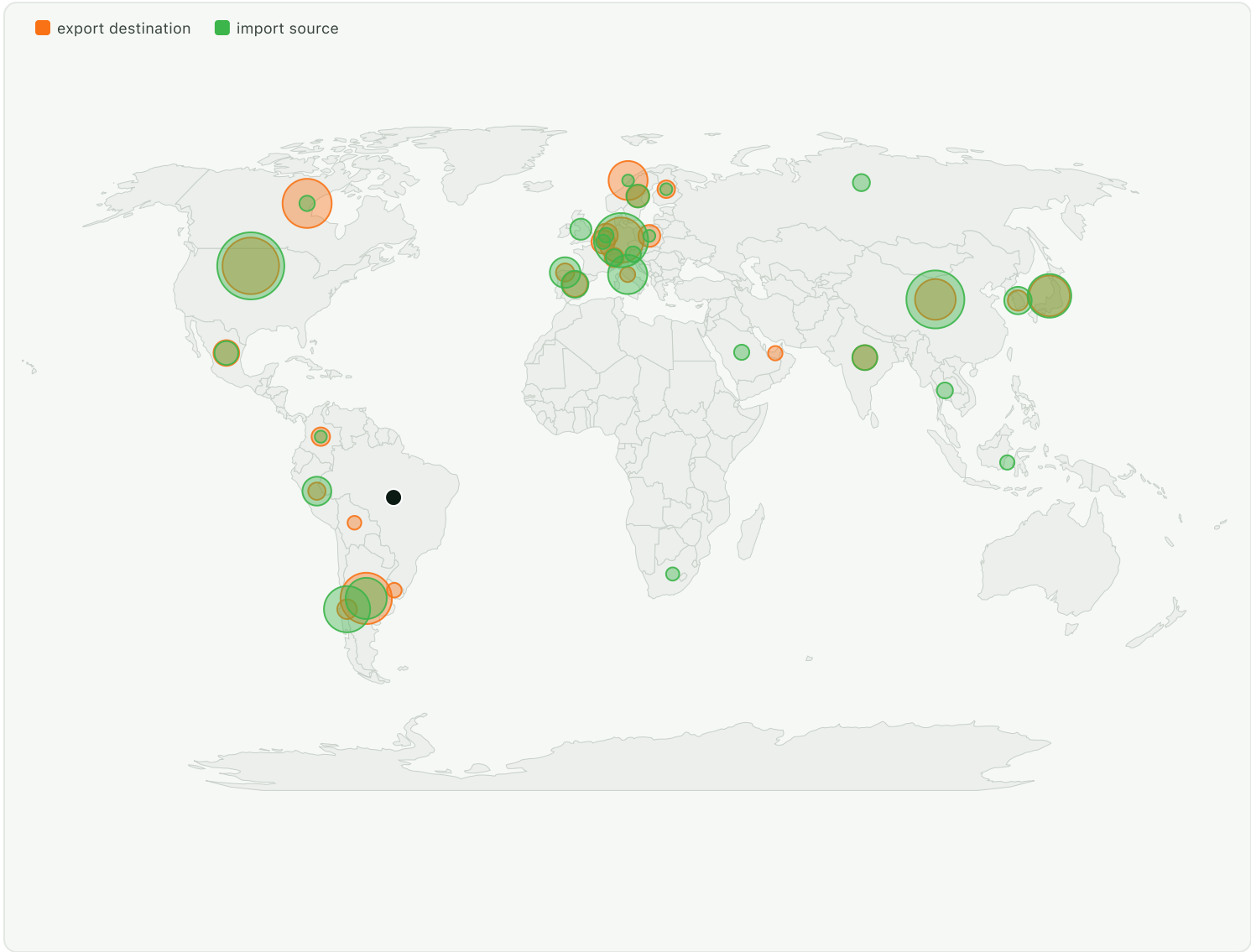
|                                              |                                              |                                          |                                           |
|----------------------------------------------|----------------------------------------------|------------------------------------------|-------------------------------------------|
| <div>\$213.6B</div> <div>TOTAL EXPORTS</div> | <div>\$227.2B</div> <div>TOTAL IMPORTS</div> | <div>93</div> <div>TRADED PRODUCTS</div> | <div>USA</div> <div>TOP DESTINATION</div> |
|----------------------------------------------|----------------------------------------------|------------------------------------------|-------------------------------------------|

01 CAPABILITY RADAR



- Strongest revealed capability: **Metals** (RCA 1.15).
- Most model-important category for this tech: **Chemicals**.

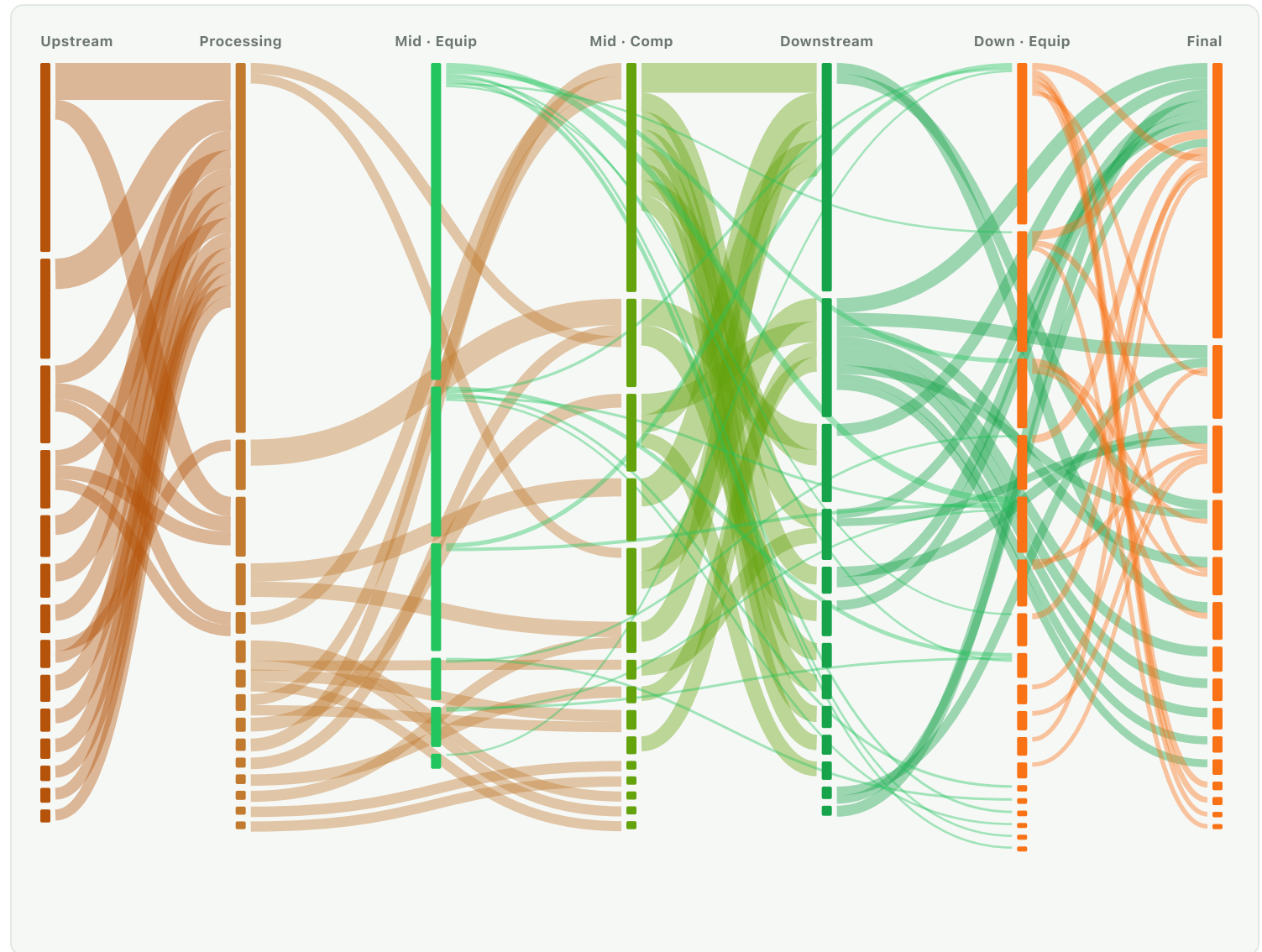
02 TRADE MAP



- Top export destination: **USA** (\$25.6B).
- Top import source: **USA** (\$36.0B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

## 03 VALUE-CHAIN SANKEY



- 120 bilateral flows across the 7-lane value chain (\$234.2B total, 2022).
- Largest flow: **CHL → CHN** (\$15.8B).

ATLAS OF THE CLEAN  
INDUSTRIAL BASE

Biofuel · Brazil

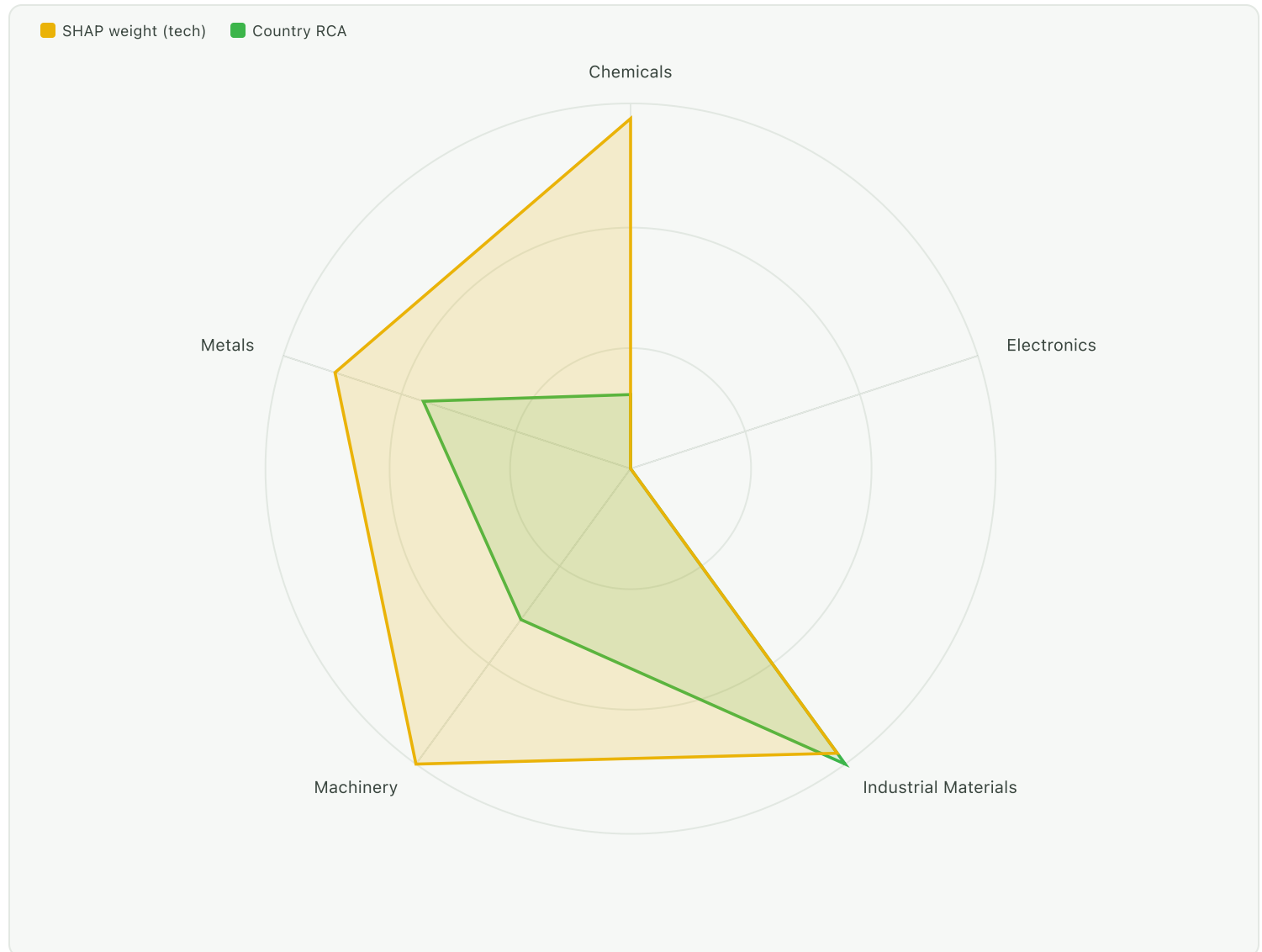
- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

TRADE-BASED INTELLIGENCE BRIEF

Biofuel  
Brazil

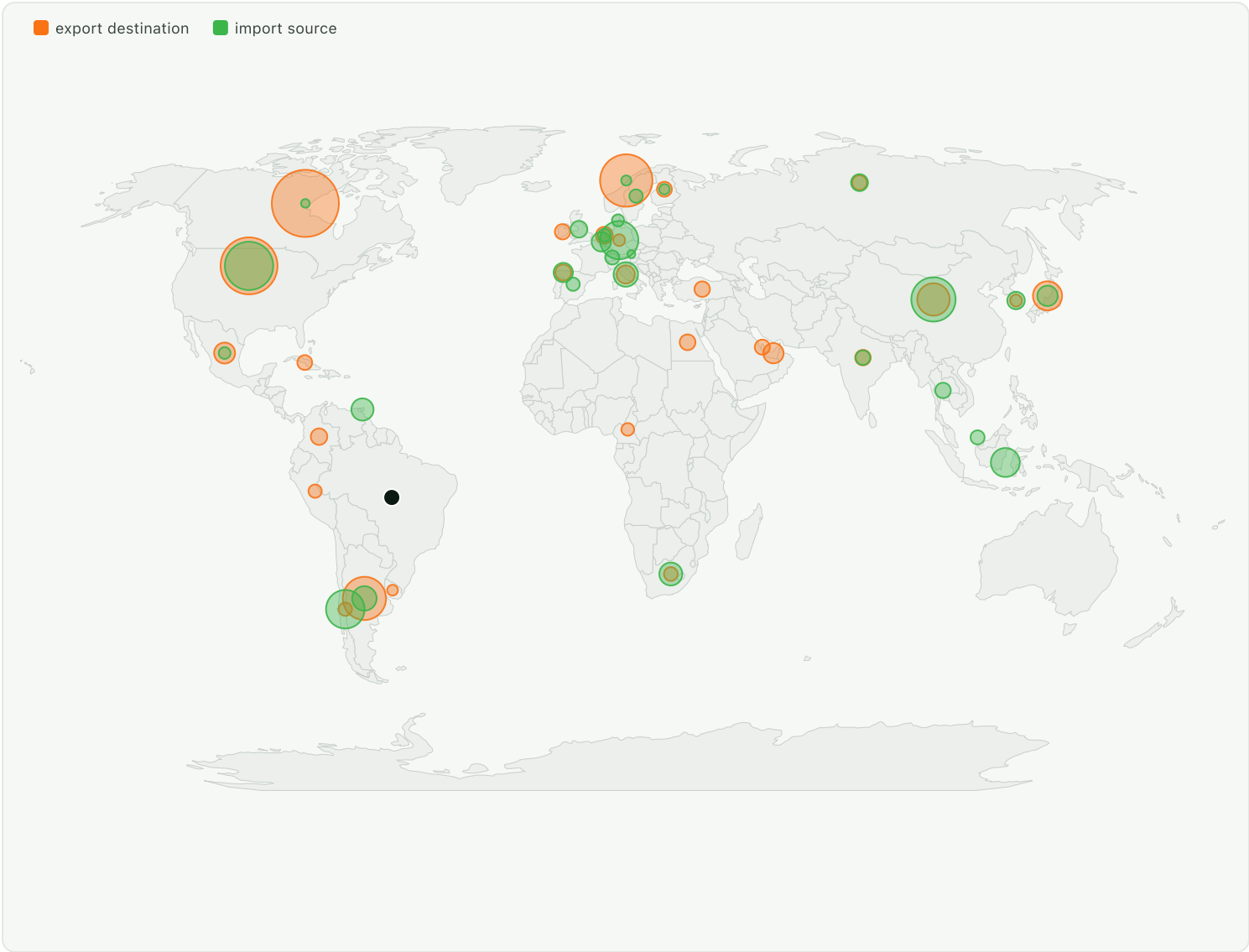
|                                             |                                             |                                          |                                           |
|---------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------|
| <div>\$93.9B</div> <div>TOTAL EXPORTS</div> | <div>\$63.8B</div> <div>TOTAL IMPORTS</div> | <div>68</div> <div>TRADED PRODUCTS</div> | <div>CAN</div> <div>TOP DESTINATION</div> |
|---------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------|

## 01 CAPABILITY RADAR



- Strongest revealed capability: **Industrial Materials** (RCA 0.92).
- Most model-important category for this tech: **Machinery**.

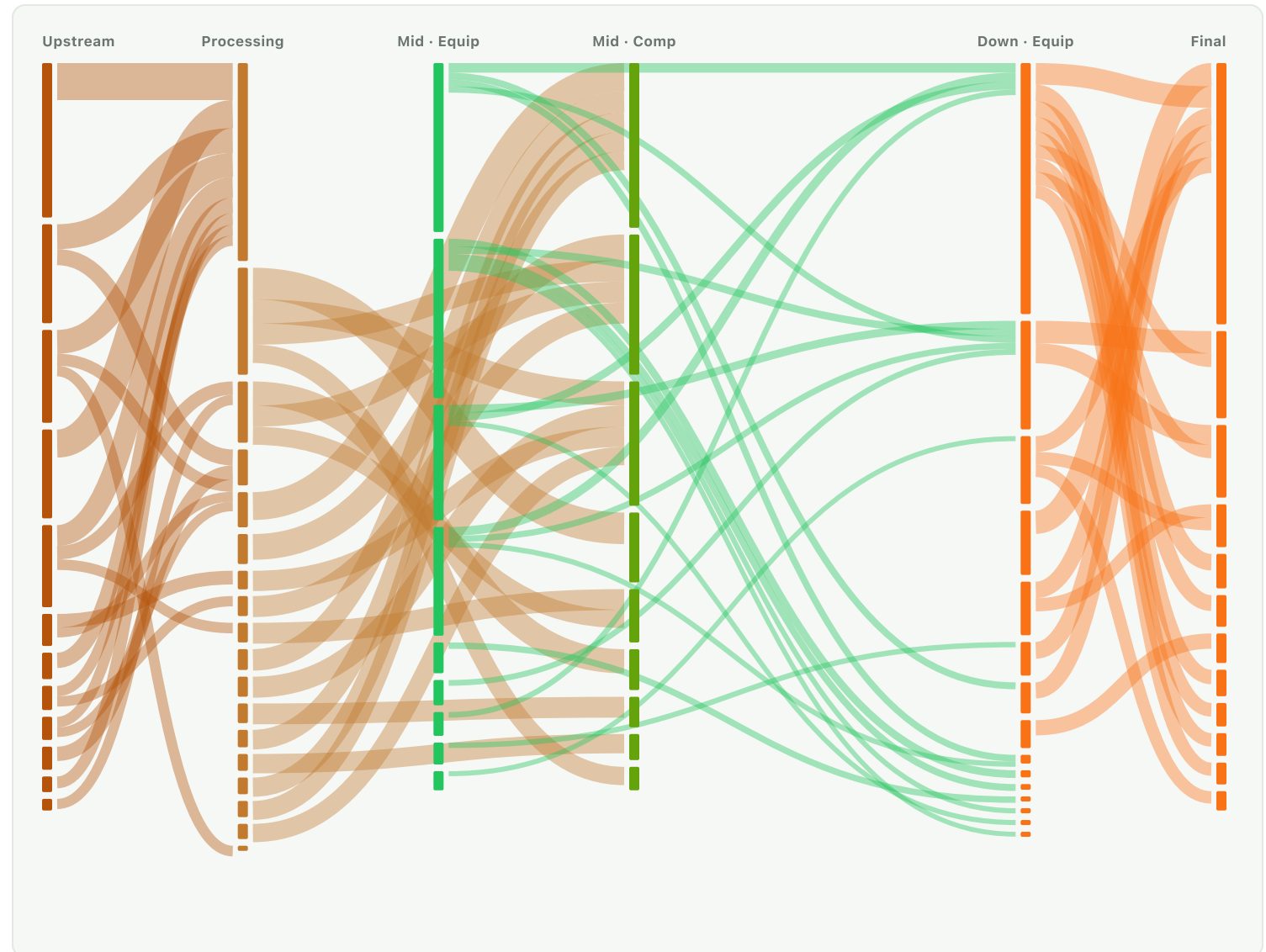
02 TRADE MAP



- Top export destination: **CAN** (\$18.5B).
- Top import source: **USA** (\$9.6B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

### 03 VALUE-CHAIN SANKEY



- 80 bilateral flows across the 7-lane value chain (\$71.7B total, 2022).
- Largest flow: **GIN→CHN** (\$4.5B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

TRADE-BASED INTELLIGENCE BRIEF

# Electrolyzers Brazil

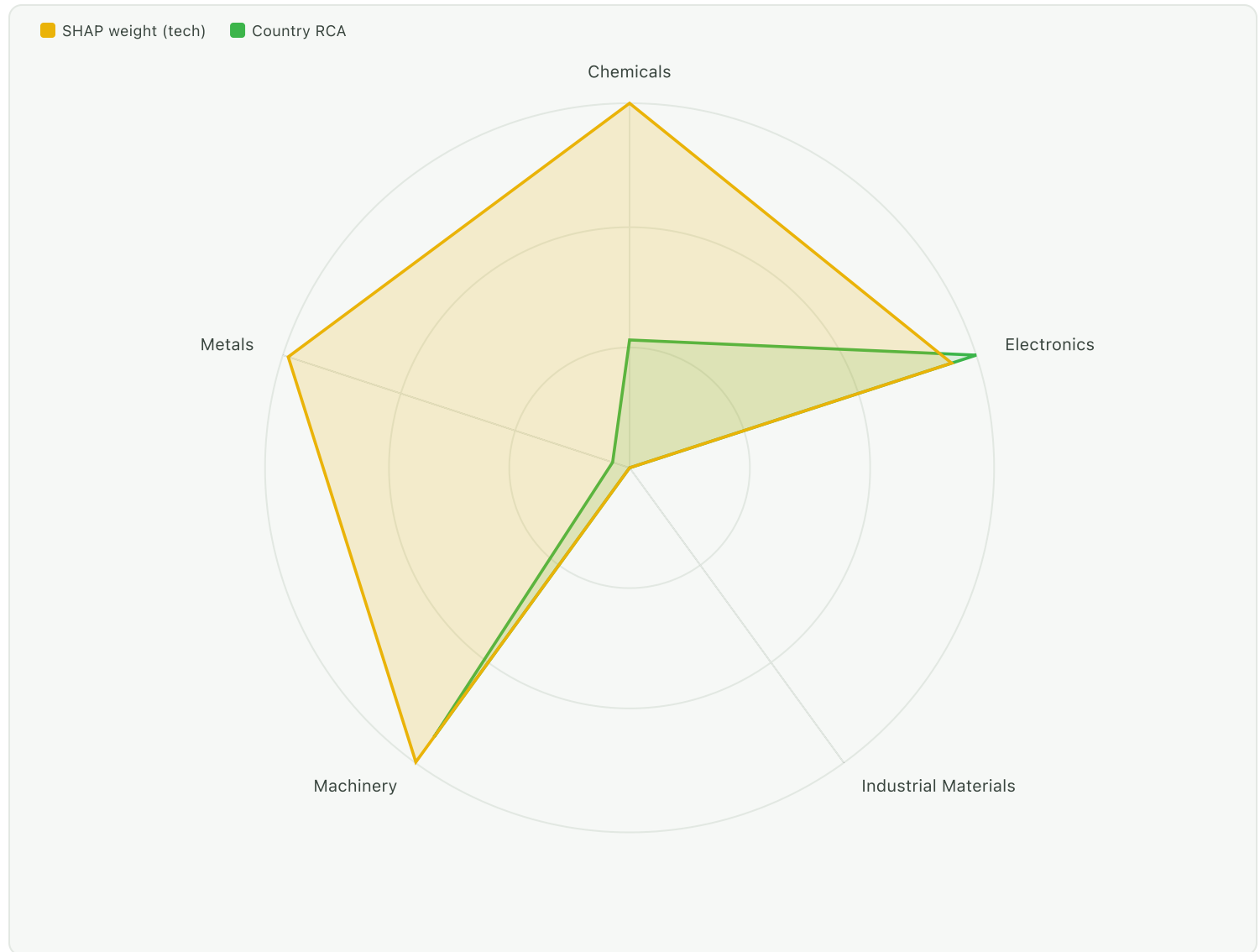
**\$22.2B**  
TOTAL EXPORTS

**\$82.3B**  
TOTAL IMPORTS

**54**  
TRADED PRODUCTS

**ARG**  
TOP DESTINATION

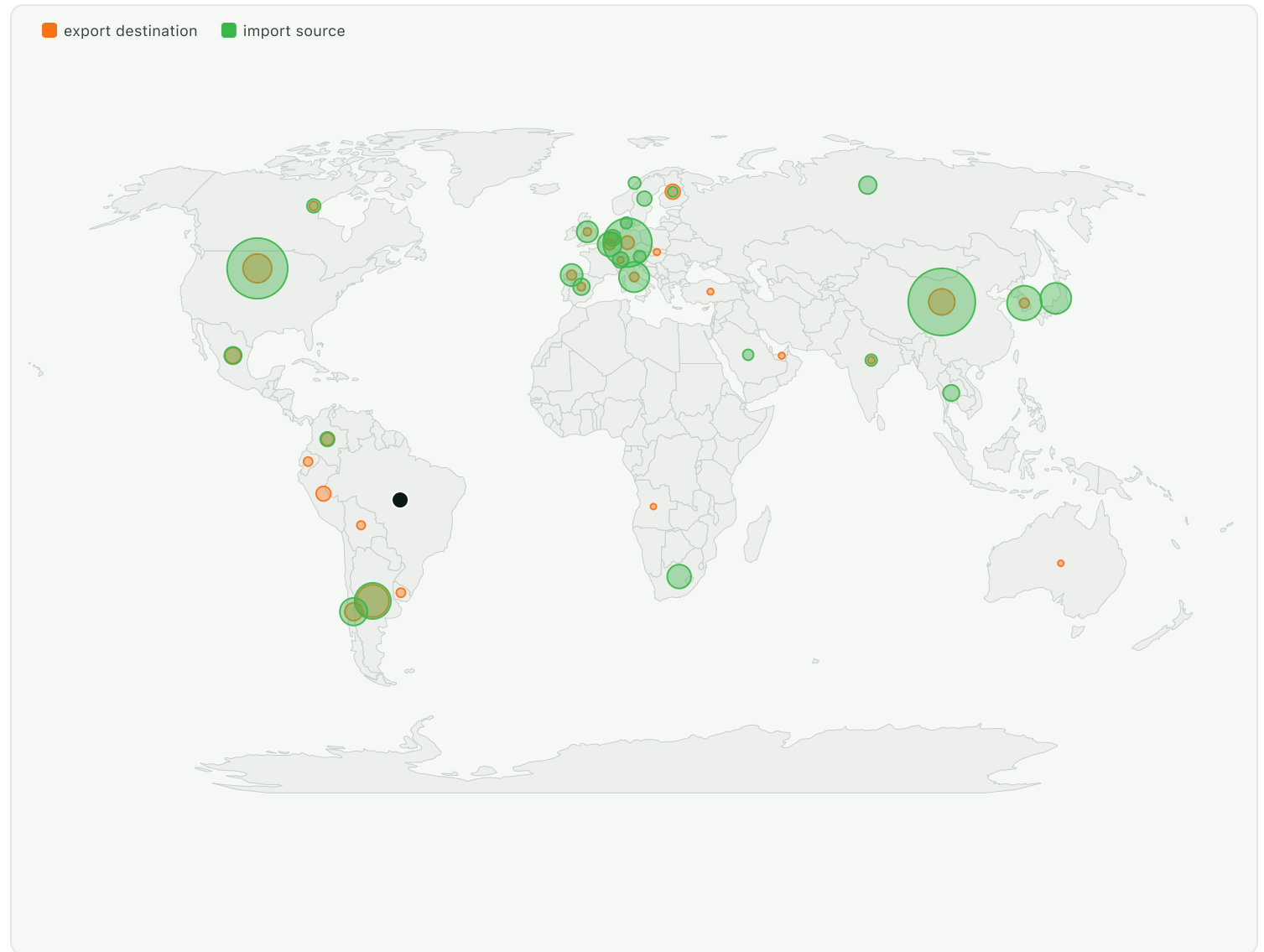
## 01 CAPABILITY RADAR



- Strongest revealed capability: **Electronics** (RCA 0.44).
- Most model-important category for this tech: **Chemicals**.

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

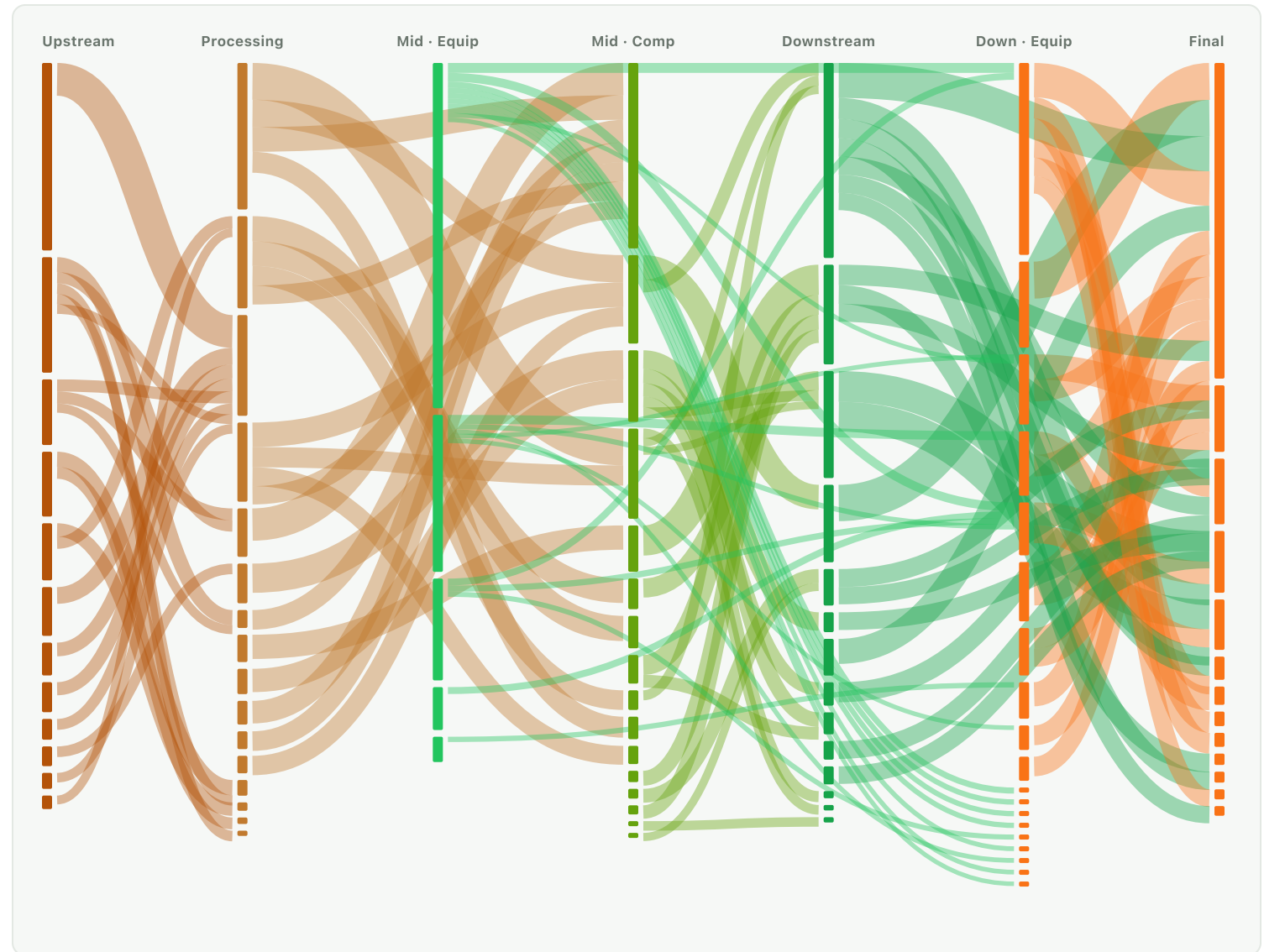
## 02 TRADE MAP



- Top export destination: **ARG** (\$3.8B).
- Top import source: **CHN** (\$16.5B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

### 03 VALUE-CHAIN SANKEY



- 120 bilateral flows across the 7-lane value chain (\$99.6B total, 2022).
- Largest flow: **MEX→USA** (\$3.3B).

TRADE-BASED INTELLIGENCE BRIEF

# Geothermal Brazil

**\$679.6B**

TOTAL EXPORTS

**\$101.5B**

TOTAL IMPORTS

**86**

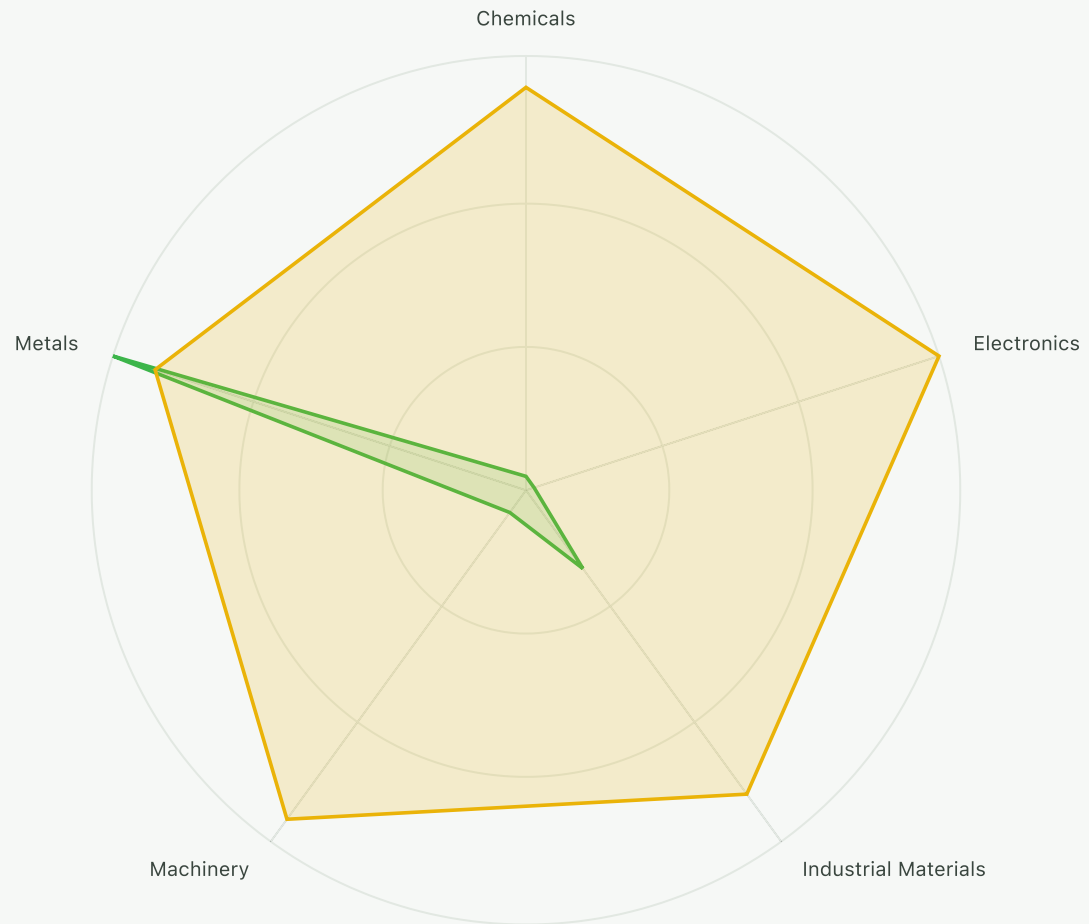
TRADED PRODUCTS

**CHN**

TOP DESTINATION

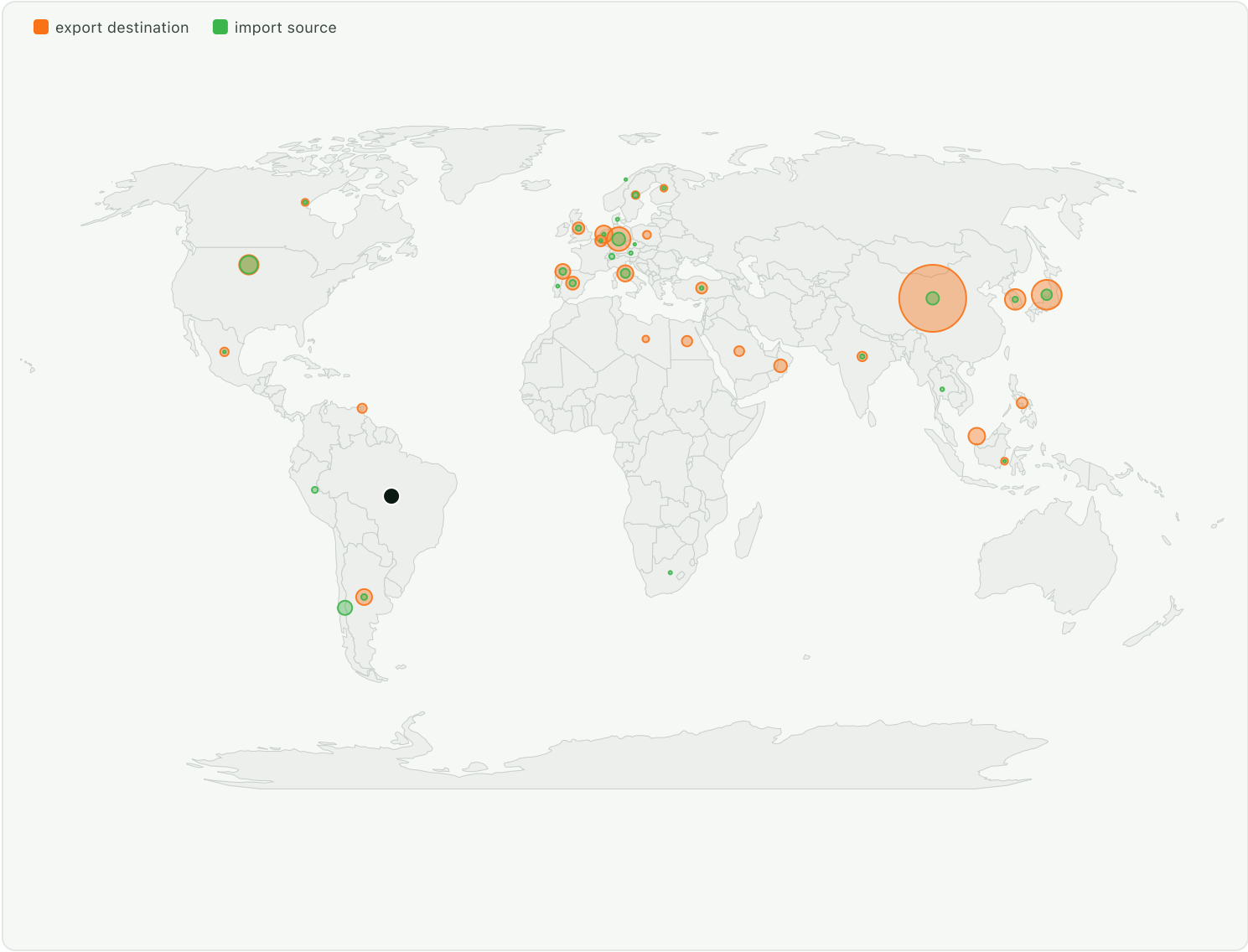
## 01 CAPABILITY RADAR

■ SHAP weight (tech) ■ Country RCA



- Strongest revealed capability: **Metals** (RCA 7.56).
- Most model-important category for this tech: **Electronics**.

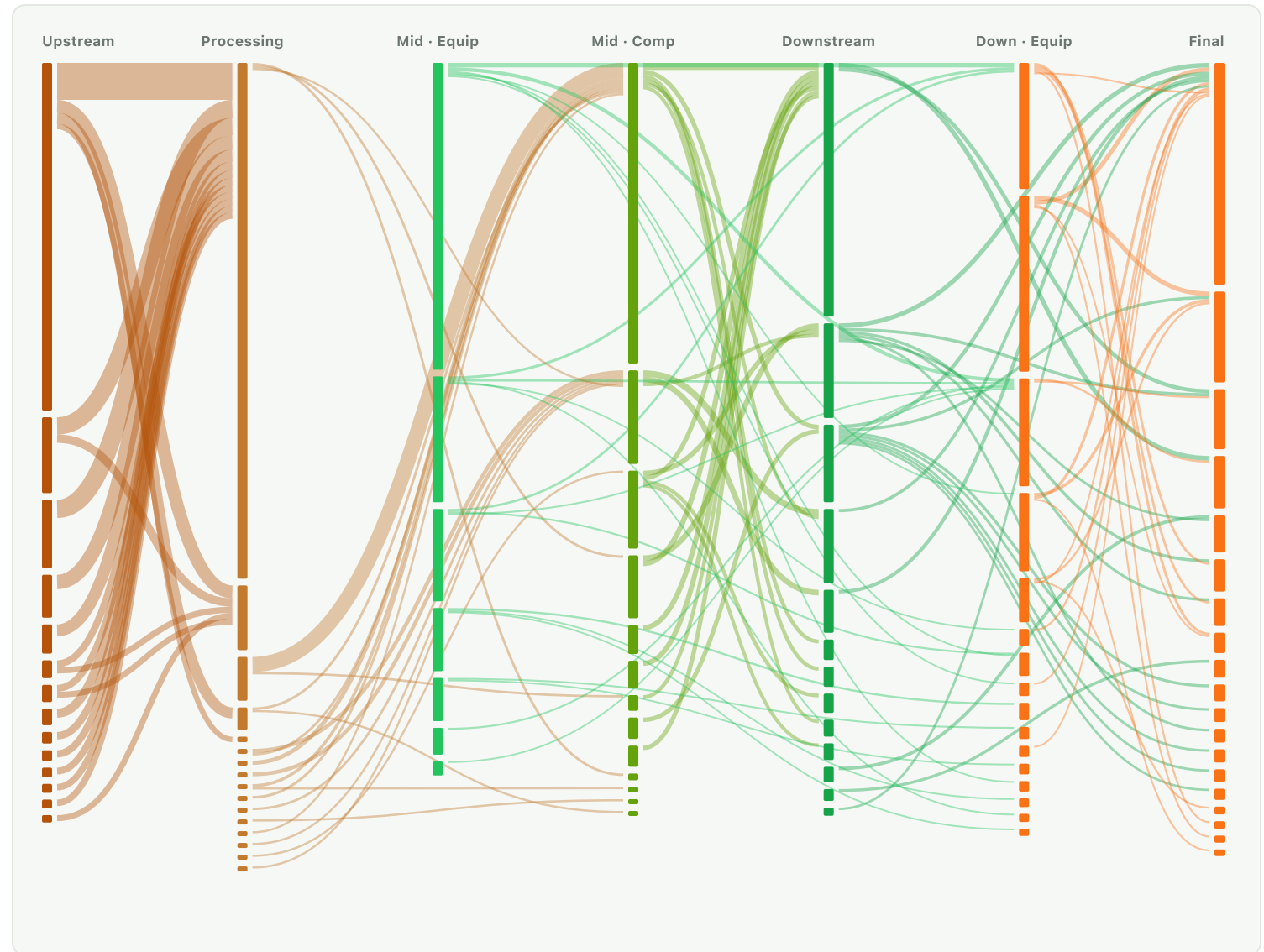
02 TRADE MAP



- Top export destination: **CHN** (\$291.0B).
- Top import source: **USA** (\$20.5B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

## 03 VALUE-CHAIN SANKEY



- 120 bilateral flows across the 7-lane value chain (\$255.7B total, 2022).
- Largest flow: **AUS→CHN** (\$77.7B).

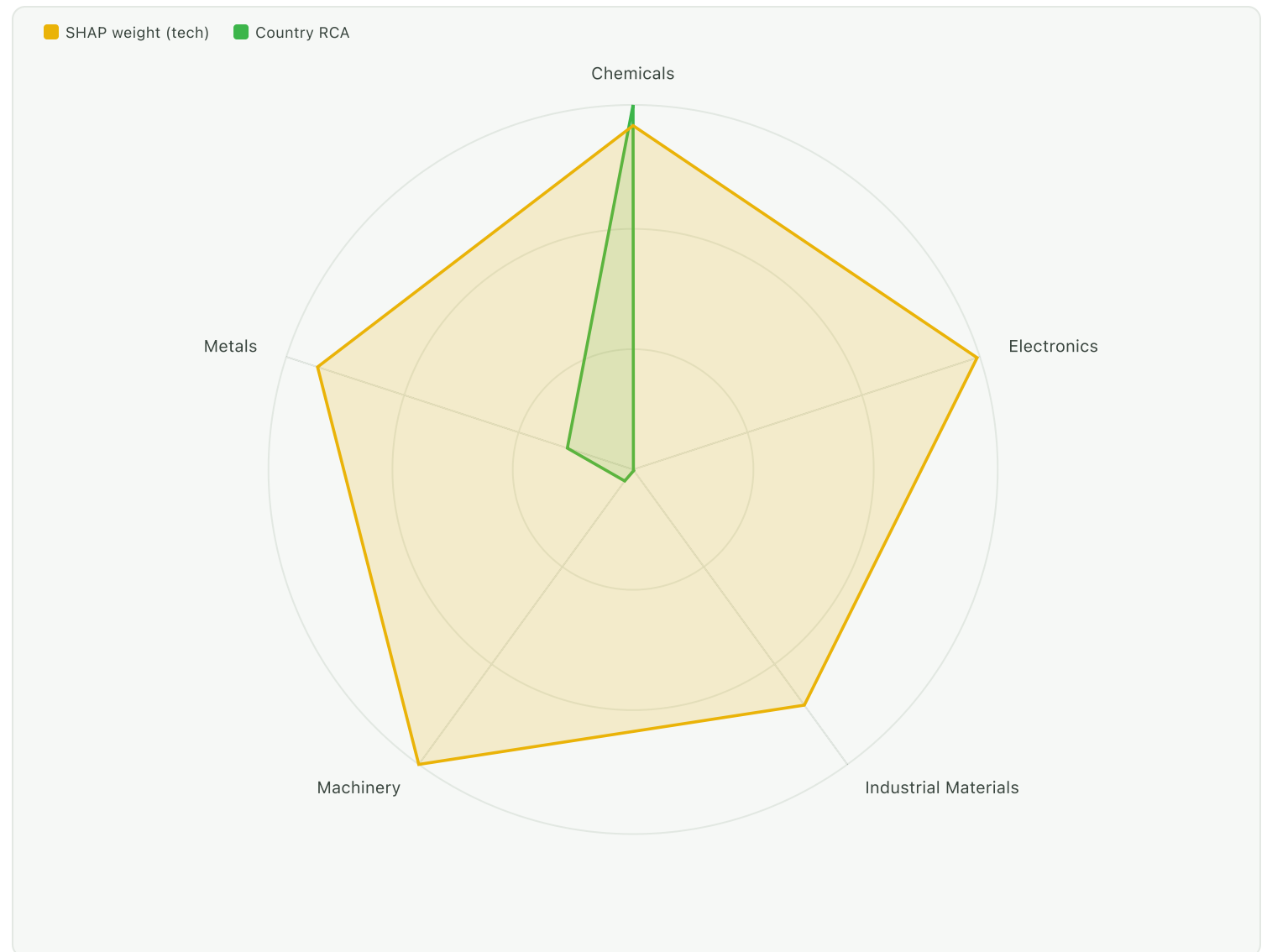
- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

TRADE-BASED INTELLIGENCE BRIEF

# Heat Pumps Brazil

|                                              |                                             |                                          |                                           |
|----------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------|
| <div>\$120.3B</div> <div>TOTAL EXPORTS</div> | <div>\$62.1B</div> <div>TOTAL IMPORTS</div> | <div>33</div> <div>TRADED PRODUCTS</div> | <div>CAN</div> <div>TOP DESTINATION</div> |
|----------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------|

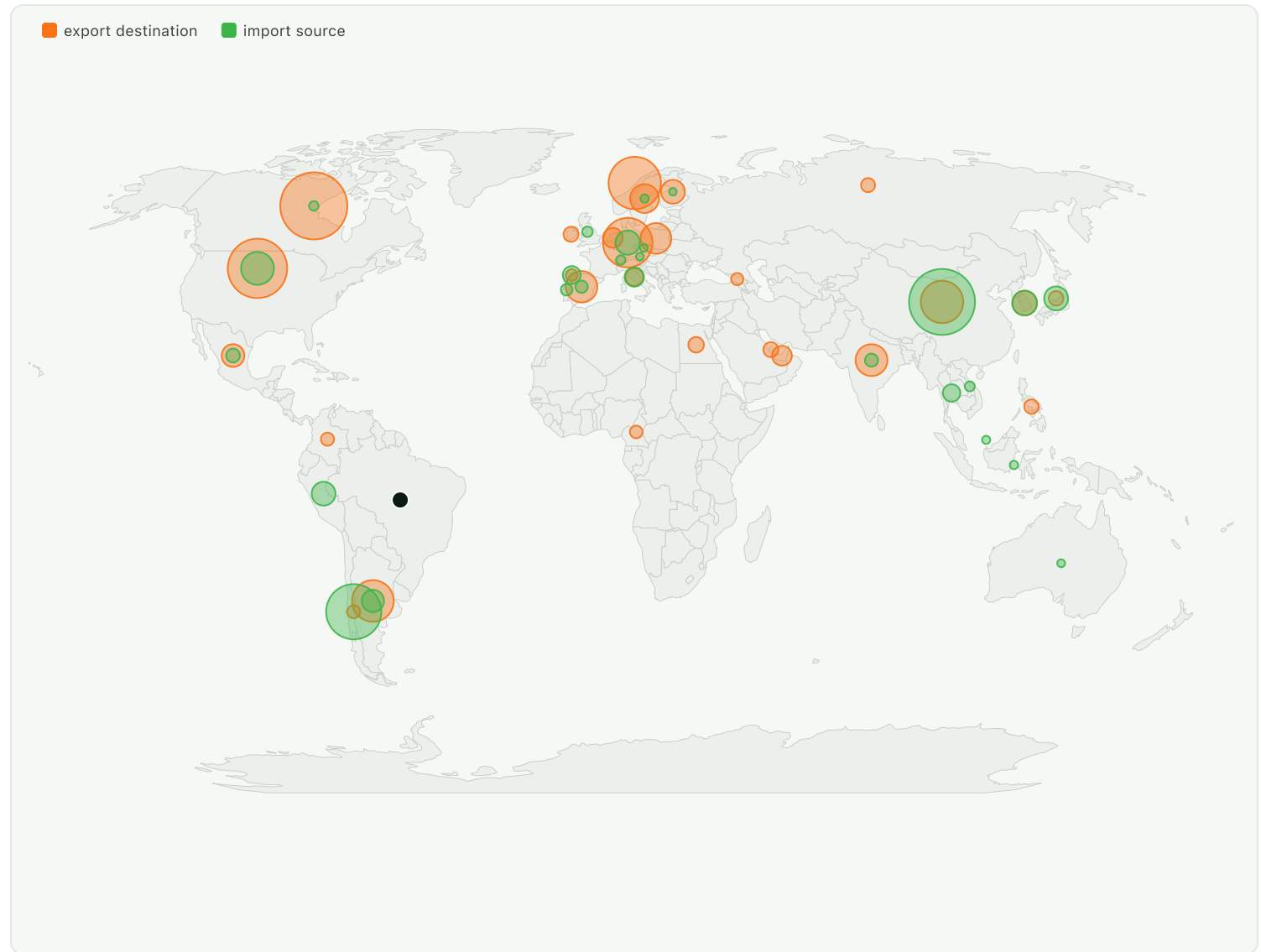
## 01 CAPABILITY RADAR



- Strongest revealed capability: **Chemicals** (RCA 11.71).
- Most model-important category for this tech: **Machinery**.

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

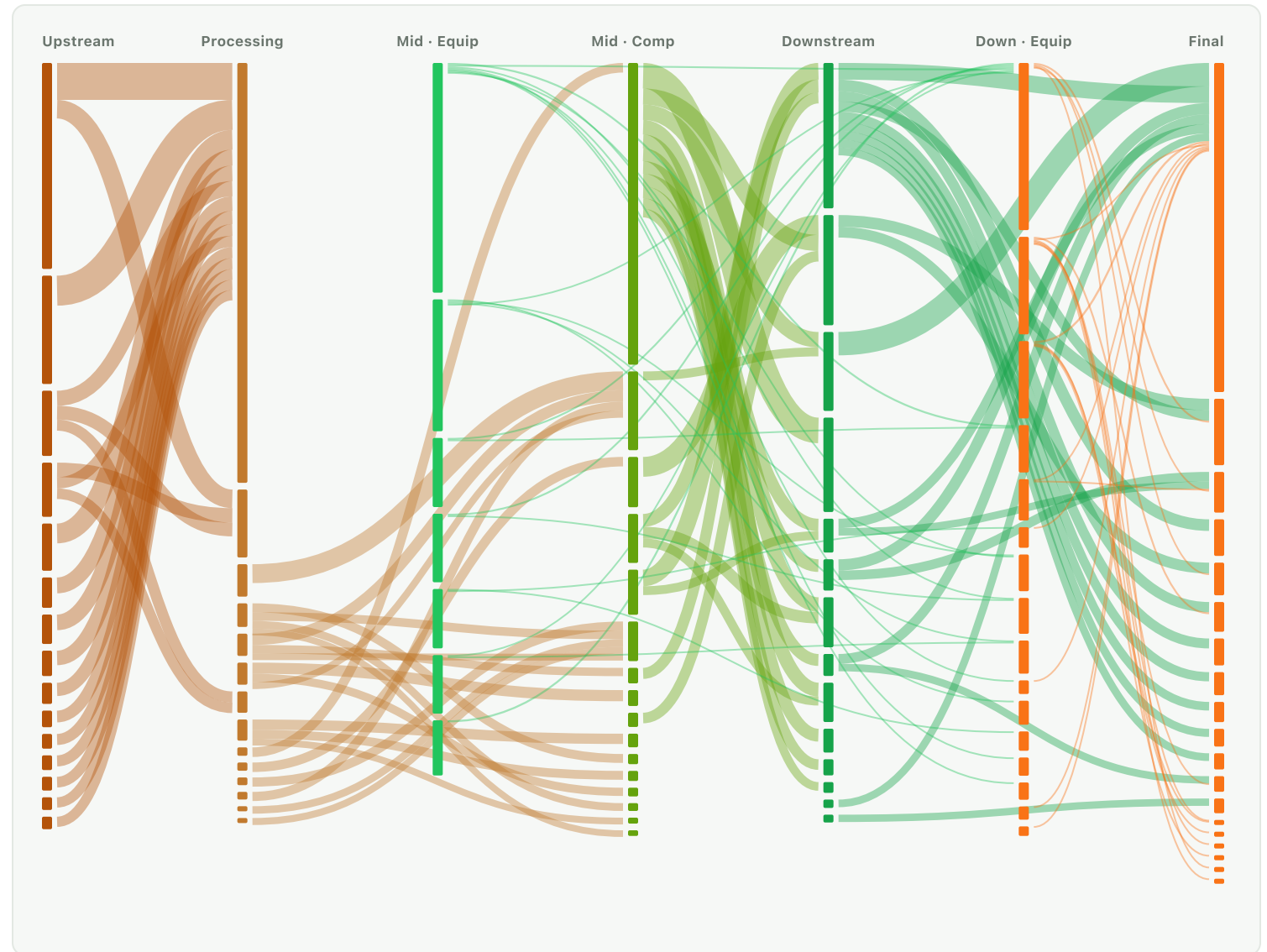
## 02 TRADE MAP



- Top export destination: **CAN** (\$18.5B).
- Top import source: **CHN** (\$17.8B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

### 03 VALUE-CHAIN SANKEY



- 120 bilateral flows across the 7-lane value chain (\$157.3B total, 2022).
- Largest flow: **CHL→CHN** (\$15.7B).

TRADE-BASED INTELLIGENCE BRIEF

Magnets  
Brazil

\$100.3B

TOTAL EXPORTS

\$42.5B

TOTAL IMPORTS

22

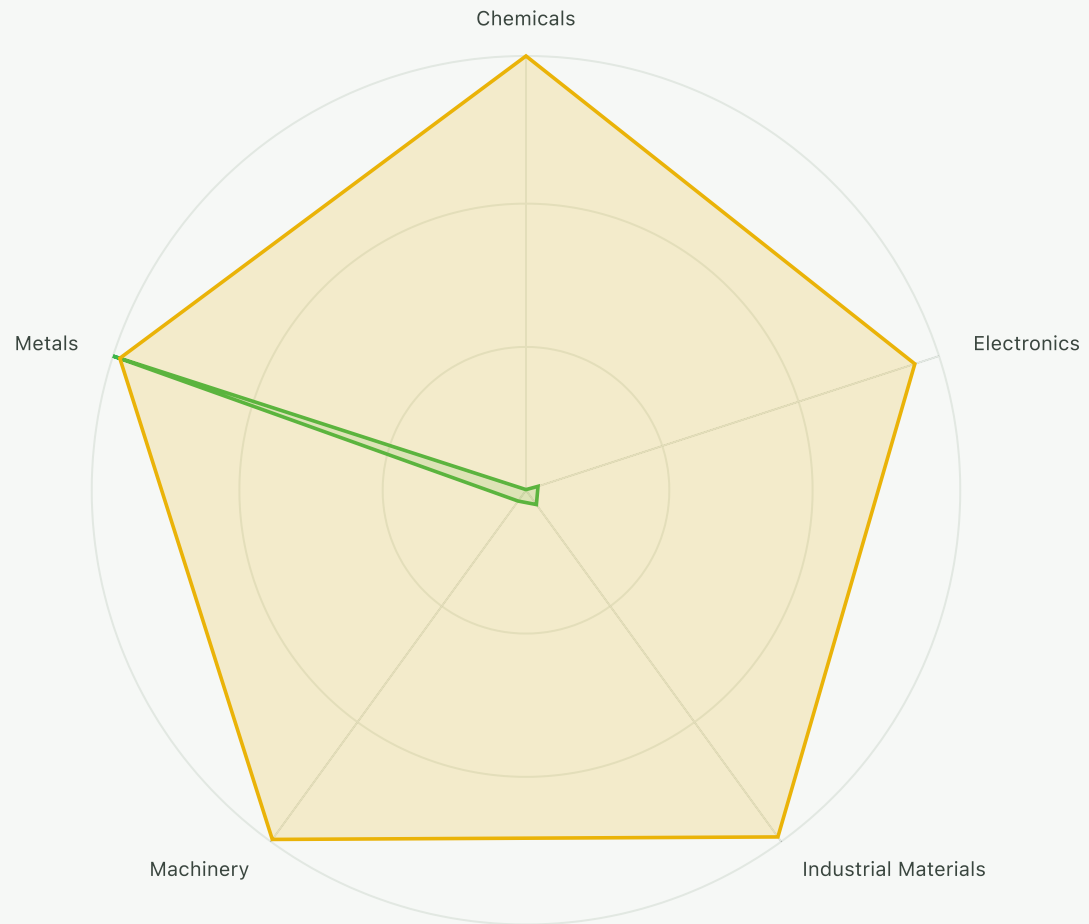
TRADED PRODUCTS

CHN

TOP DESTINATION

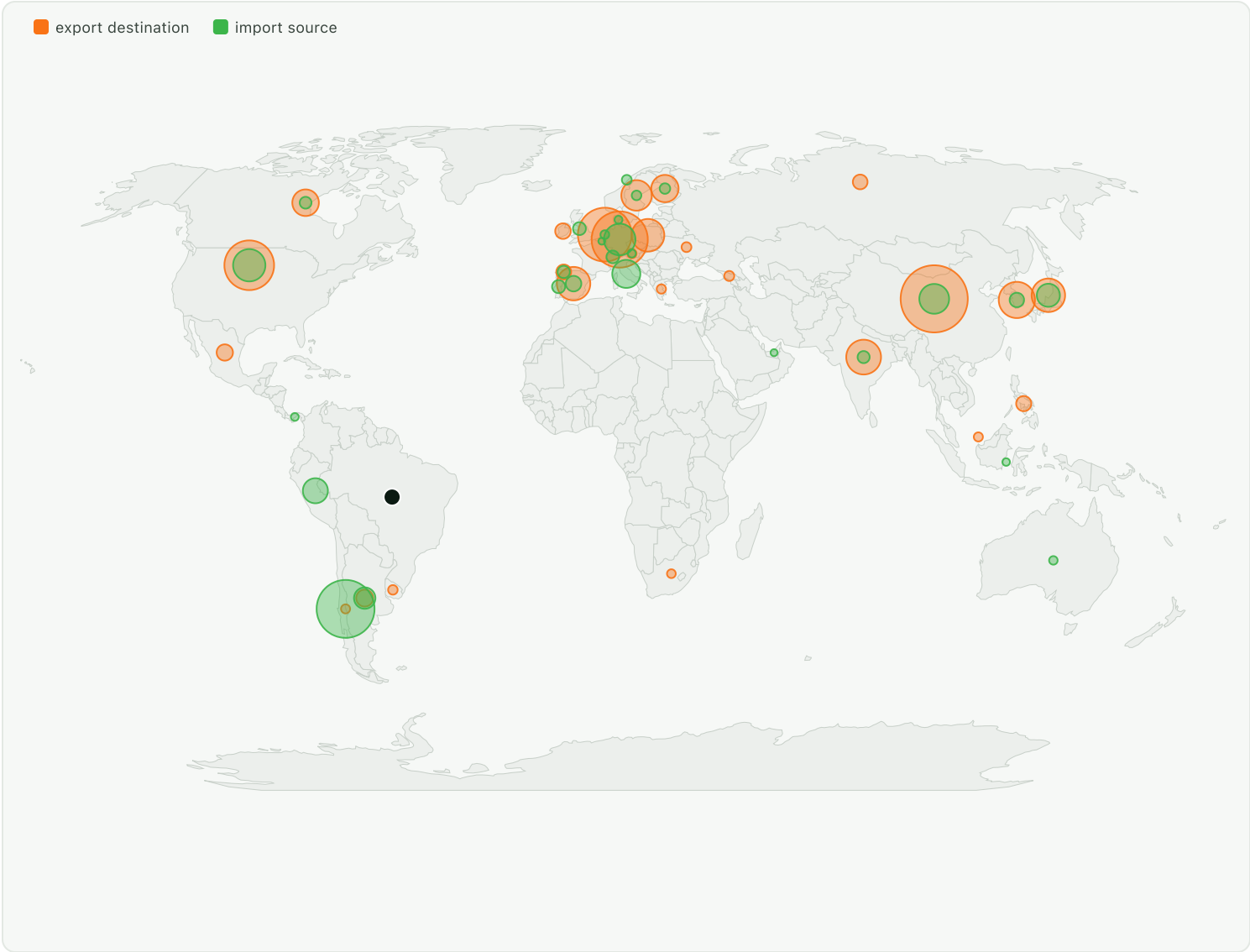
## 01 CAPABILITY RADAR

■ SHAP weight (tech) ■ Country RCA



- Strongest revealed capability: **Metals** (RCA 2.38).
- Most model-important category for this tech: **Chemicals**.

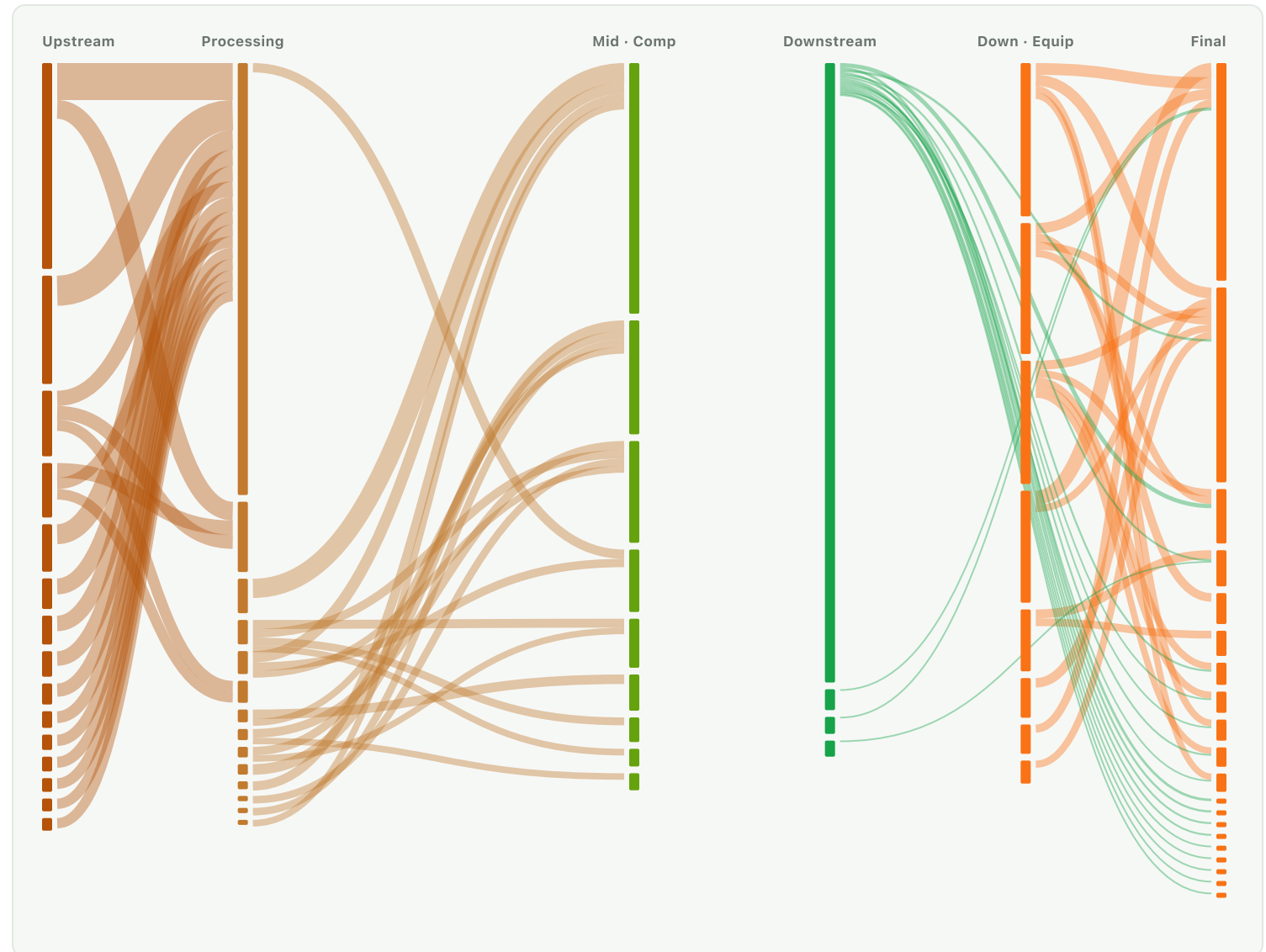
02 TRADE MAP



- Top export destination: **CHN** (\$16.6B).
- Top import source: **CHL** (\$12.4B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

## 03 VALUE-CHAIN SANKEY



- 80 bilateral flows across the 7-lane value chain (\$101.2B total, 2022).
- Largest flow: **CHL → CHN** (\$15.6B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

TRADE-BASED INTELLIGENCE BRIEF

EVs  
Brazil

**\$773.1B**  
TOTAL EXPORTS

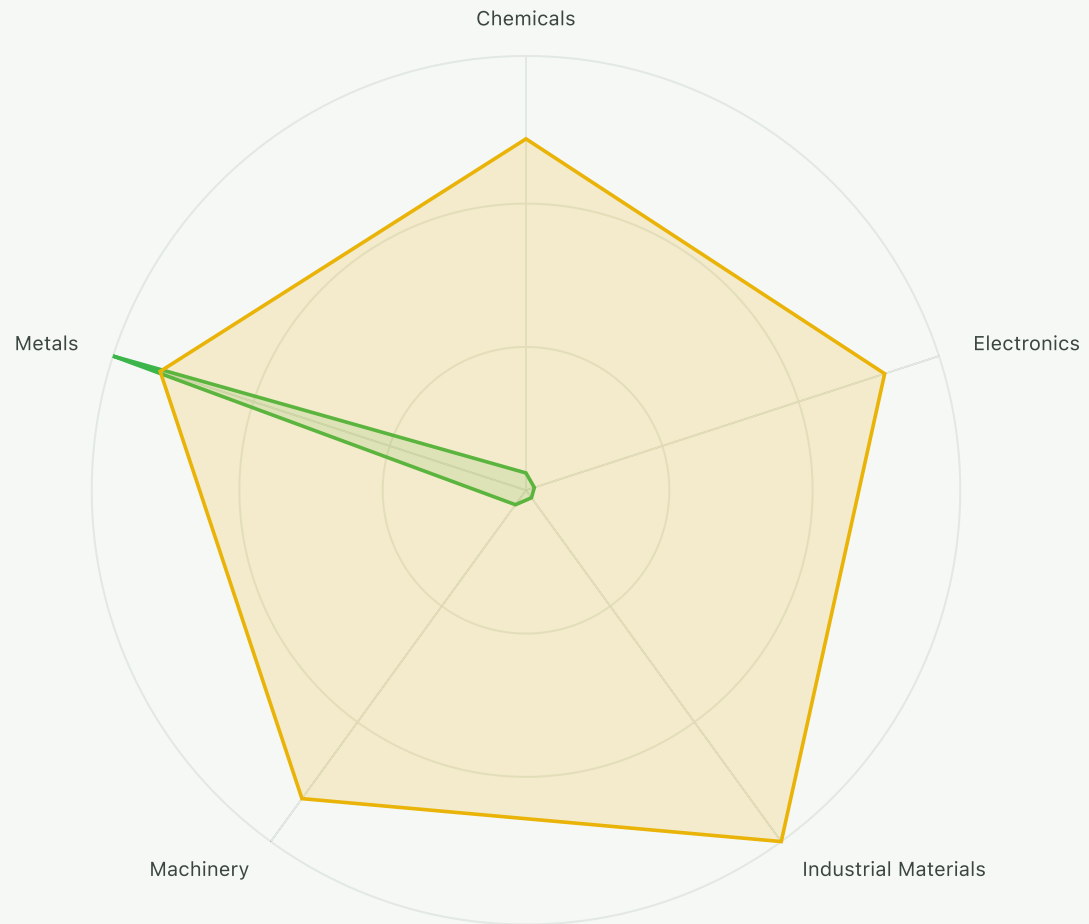
**\$210.7B**  
TOTAL IMPORTS

**106**  
TRADED PRODUCTS

**CHN**  
TOP DESTINATION

## 01 CAPABILITY RADAR

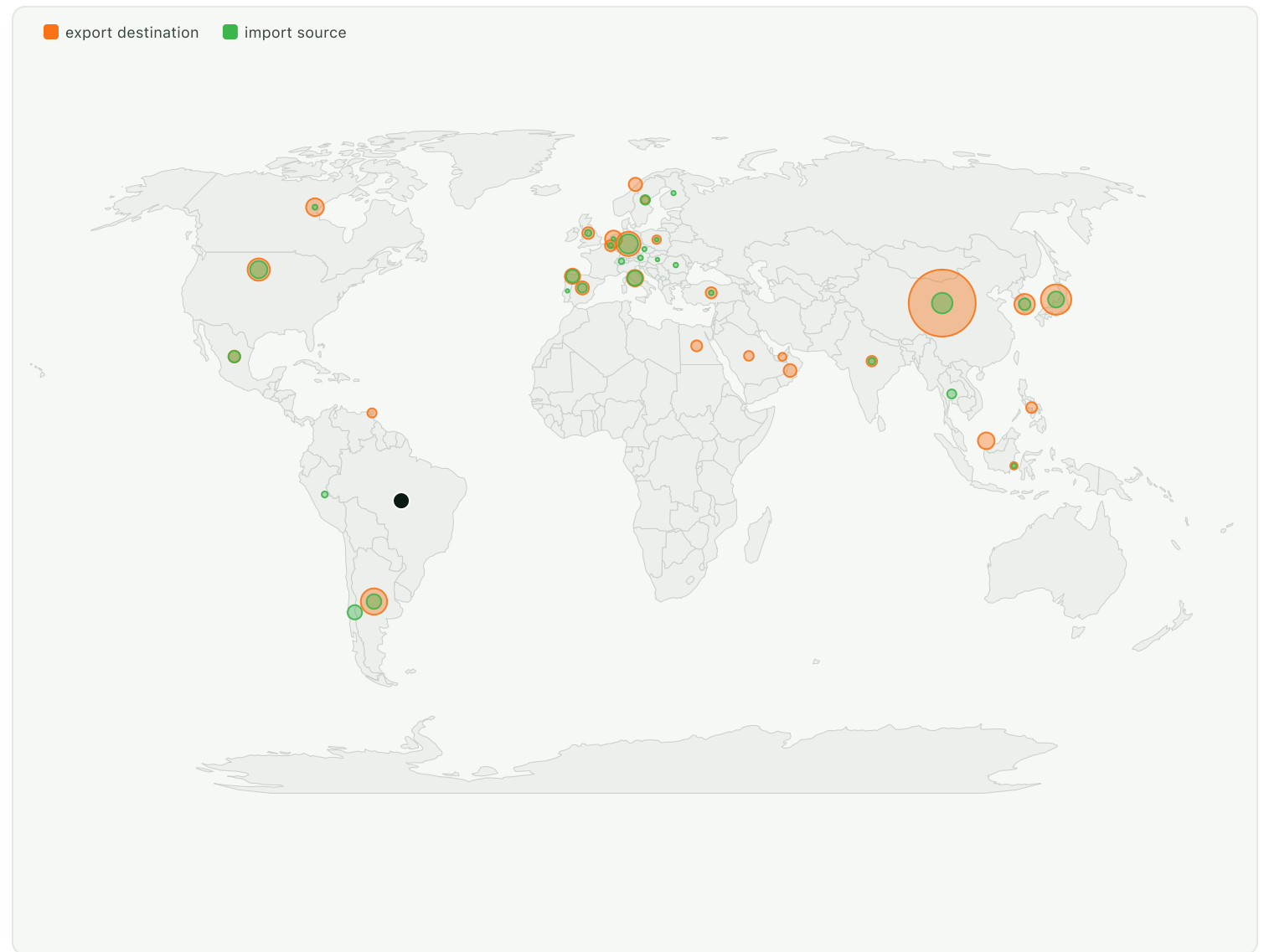
■ SHAP weight (tech) ■ Country RCA



- Strongest revealed capability: **Metals** (RCA 10.98).
- Most model-important category for this tech: **Industrial Materials**.

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

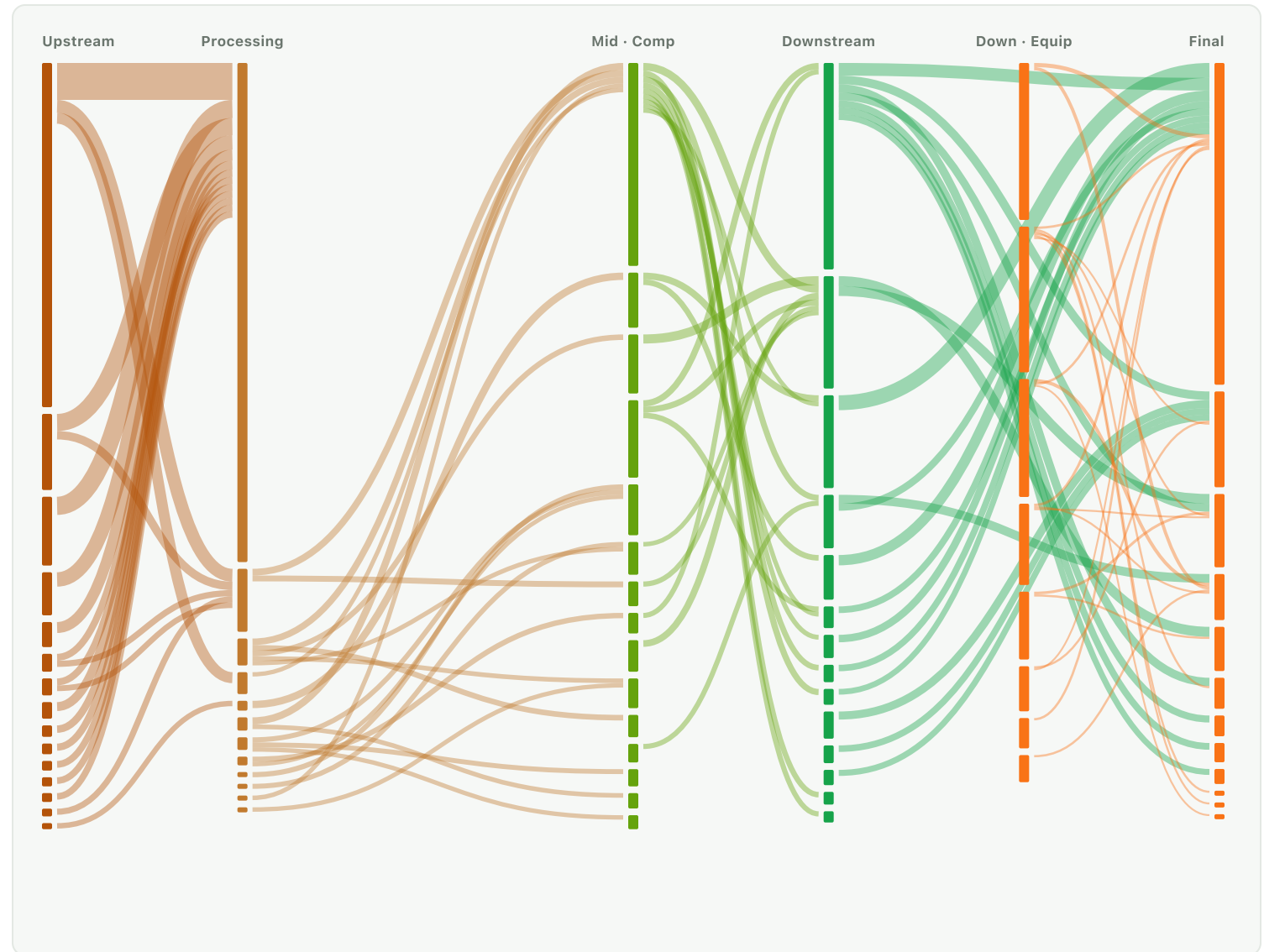
## 02 TRADE MAP



- Top export destination: **CHN** (\$290.1B).
- Top import source: **CHN** (\$27.2B).

- 00 Overview
- 01 Capability Radar
- 02 Trade Map
- 03 Value-Chain Sankey

## 03 VALUE-CHAIN SANKEY



- 100 bilateral flows across the 7-lane value chain (\$346.3B total, 2022).
- Largest flow: **AUS→CHN** (\$77.7B).