


# The metals mining industry in Brazil's stock market

Analyzing an Industry's Dynamics





## General Overview of the Brazilian Stock Market

The B3, Brazil's stock exchange, is among the 20 largest stock exchanges in the world, with a market capitalization of \$0.9 trillion. The Ibovespa, Brazil's benchmark stock index, includes major companies from various sectors.

Economic Sectors: 12

Subsectors: 53

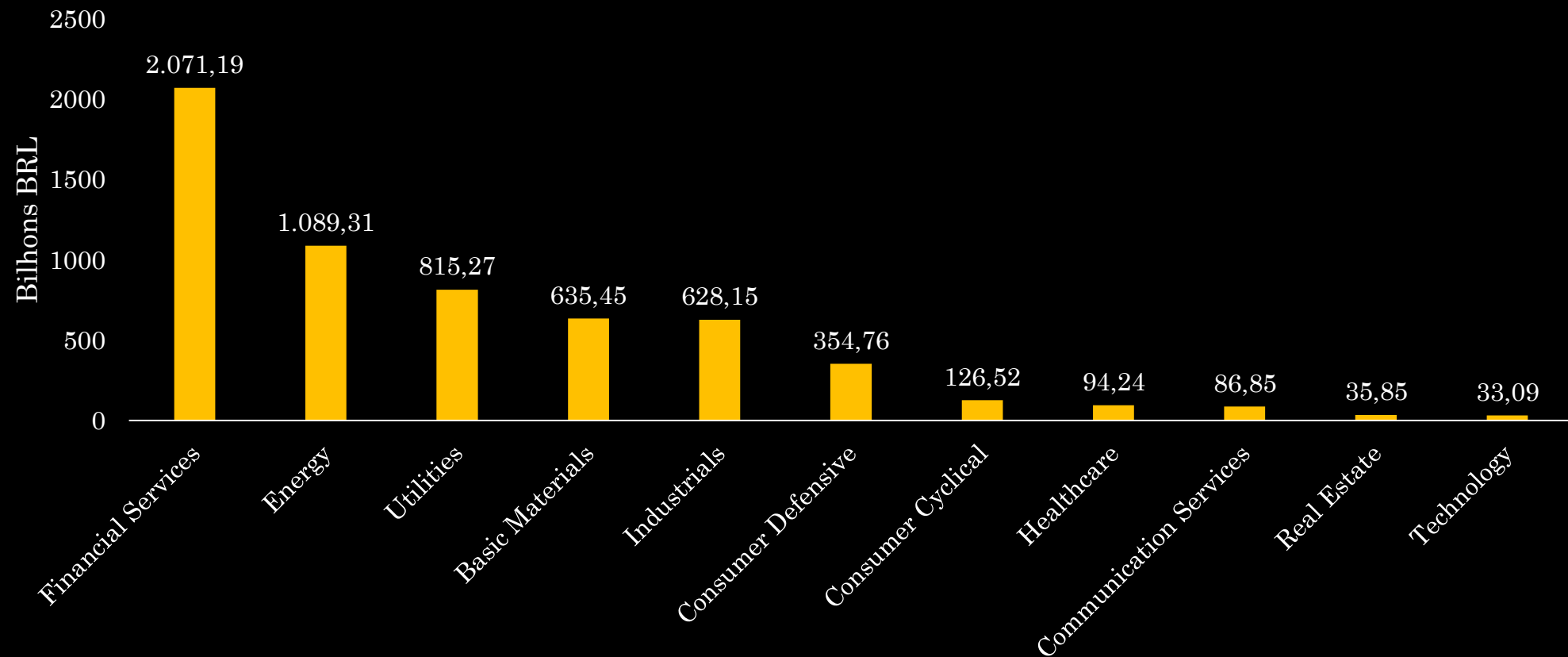
Industrial Segments: 114

Publicly Traded Companies: 434

Source: B3 company list

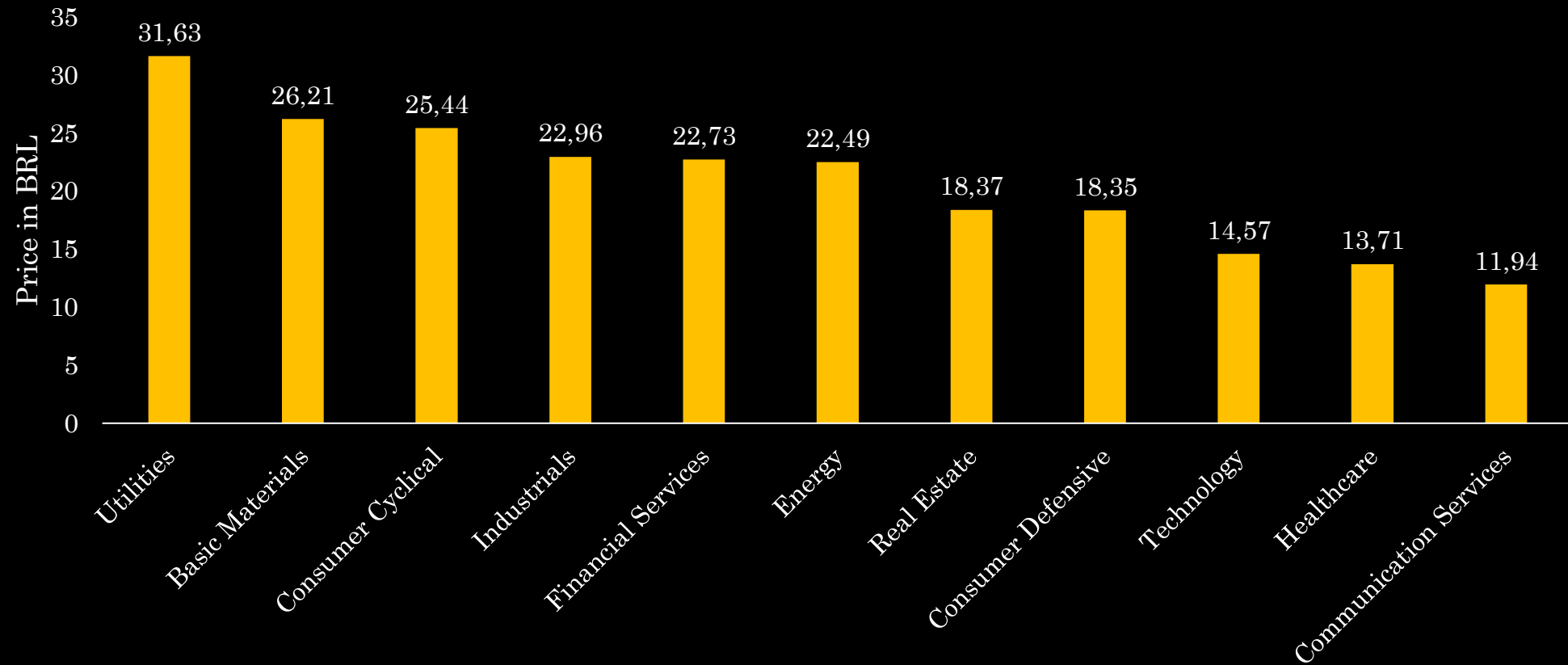
# Market capitalization

These are the economic sectors with the highest market capitalization, calculated in billions of reais.



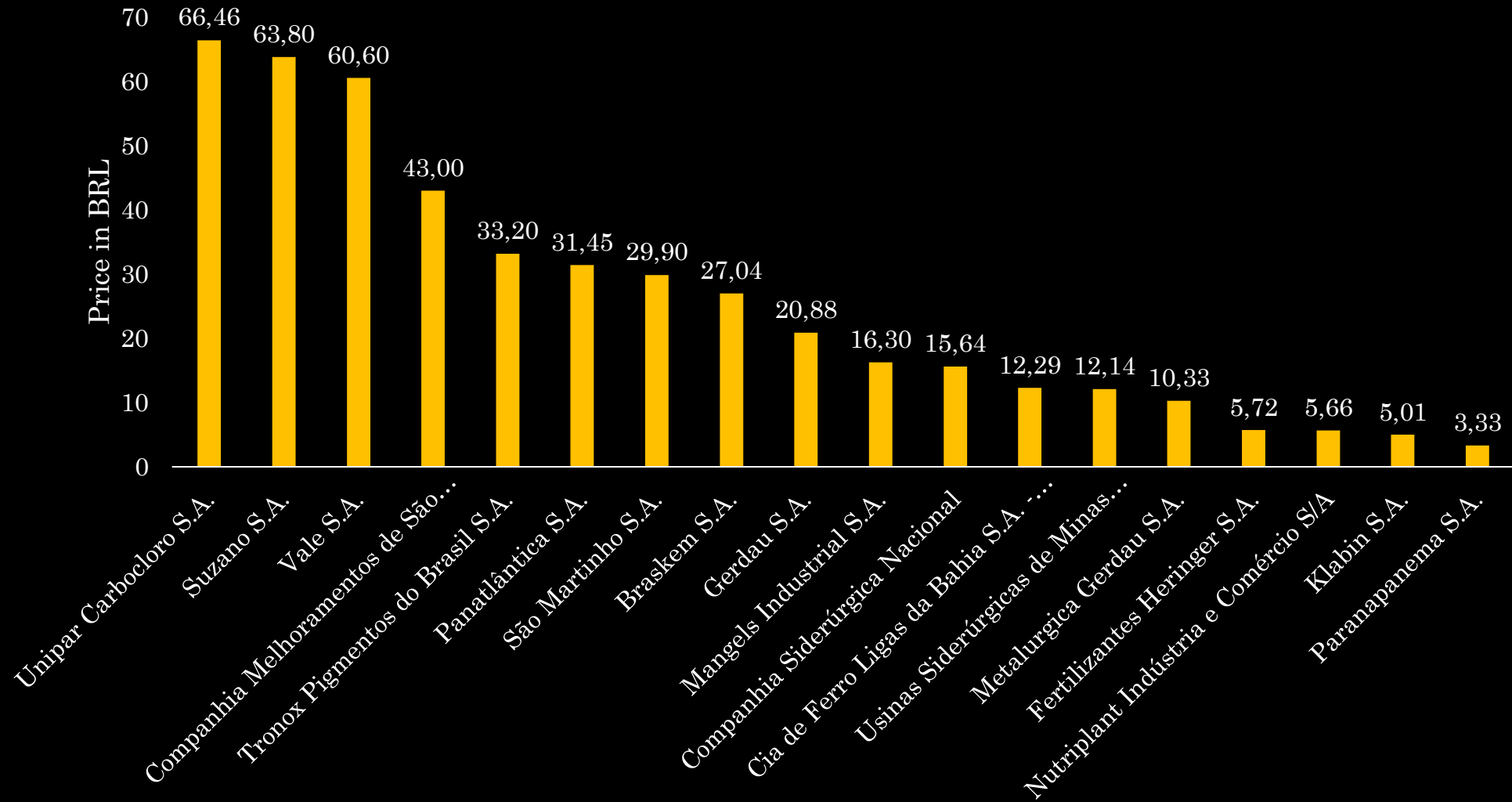
# Share prices

These are the economic sectors ranked according to the average prices of their shares.



# Share prices

Average share price of the Basic Materials sector: R\$ 26,21





# Share prices

Average share price of the metallic mining industry: R\$ 25,31





# Future trends

Recommendations of the Yahoo Finance analyze

The recommendation is to buy (BRAP4.SA). Bradespar is one of the largest companies in the Brazilian stock market.

The recommendation is to buy (AURA33.SA). The company has added 110,000 ounces of mineral reserves at its Apoená Mines in Brazil in 2023, and its life of mine (LOM) now exceeds 5 years and is expected to continue increasing

The recommendation is to buy. Vale S.A. is a major player in the global mining industry, with diversified operations in various commodities

The recommendation is to hold. CSN Mineração is involved in iron ore mining and steel production, and its performance warrants a cautious approach

# Future trends

- Aura Minerals Inc.: buy | Market capitalization: 2,73 Bilhon BRL
- Bradespar S.A.: buy | Market capitalization: 8,01 Bilhon BRL
- Companhia Brasileira de Alumínio: buy | Market capitalization: 2,65 Bilhon BRL
- Vale S.A.: buy | Market capitalization: 258,05 Bilhon BRL
- CSN Mineração S.A.: hold | Market capitalization: 29,07 Bilhon BRL





# About the companies...

Aura Minerals Inc.

The project is an open-pit gold mine with additional production upside. Key logistics considerations for Aura Minerals include efficient transportation of ore from the mine to processing facilities and export terminals.

Vale S.A.

Vale is a global mining company specializing in iron ore, nickel, copper, and other minerals. Logistics for Vale involve transporting iron ore from mines to ports for export.

CSN Mineração S.A.

Is involved in iron ore mining and steel production. Logistics considerations include efficient transportation of iron ore from mines to processing plants and export terminals.

In their website, they state that CSN is one of the few Brazilian companies with integrated logistics (road, railway, port), providing coverage for their operations across the entire national territory. Approximately 10% of all railway movement in Brazil consists of inputs and products from the Company.

# Data source and methodology

All data was fetched from the Yahoo Finance API using the Yfinance library in Python. Data processing was constrained by time and primarily utilized Python, and it was loaded into an SQL database for centralization. Link to the repository:

<https://github.com/lunajedu/stock-market>

The visualizations were created in Microsoft Power BI. Here is the link to the dashboard:

<https://app.powerbi.com/view?r=eyJrIjoiZTViNDdlMTAtYjMyZC00MjA1LTlhZWUtZjRjNjE4MzdkNmQ0IiwidCI6IjhjYTUyZTJiLTFlfjMjAtNDI3NC05YTEzLWJkNzZlY2NiODFkMSIsImMiOiR9>

The qualitative data was extracted from other sources such as news articles and official websites. References will be provided on the next slide.

# References

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**CBA - Annual Report 2022.** Disponível em: <<https://relatorioanual2022.cba.com.br/en/>>. Acesso em: 30 mar. 2024.

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