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# Chinese Companies and Foreign Direct Investment in Brazil between 2000 and 2018

#### Abstract

The article aims to understand the relationship between Foreign Direct Investment (FDI) and the presence of Chinese multinationals in Brazil. To achieve its purpose, the text retrieves theoretical elements about FDI and the theories that explain the process of internationalization of companies, in order to explain the growing presence of Chinese multinationals in the country. We used data from official sources, such as the Central Bank of Brazil (CBB), UNCTAD and the Ministry of Commerce of China (MOFCOM), and from unofficial sources, such as the American Business Institute (ABI) and the Brazil China Business Council. We present some case studies of multinationals such as Sinopec (petroleum sector), Didi Chuxing (Technology/ Startup), State Grid (Electric Power) and Chery Automobile (Auto Industry), with intent to show the *modus operandi* of companies from different economic sectors. To analyze these companies, we used data from their websites and other information available online. As a preliminary conclusion, it can be stated that Chinese FDI in Brazil increased significantly during the 21st century, when compared to the total direct investment from other countries. The Chinese multinationals in Brazil focus their interests in search for raw materials and sale of products with greater added value.

Keywords: Chinese companies; FDI; Foreign Direct Investment; Raw Materials; Market Seeking Strategy; Brazil

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Introduction

China becomes Brazil's largest trade partner in 2009, in terms of the trade balance of imports

and exports, surpassing the US. However, while the US imports more industrialized products,

China buys mainly commodities and raw materials<sup>1</sup>. In addition, China overtook Japan as the

world's second largest economy in 2010. Moreover, China's FDI increased, and its companies

became major investors in Brazil, both in the quest for raw materials and/or commodities, and

to sell an ever-wider range of industrialized products and services.

The presence abroad of Chinese companies has already been mentioned for several reasons,

according to Buckley et al. (2007). Authors have examined them in terms of their position in

global trade flows (Lall and Albaladejo 2004); its comparative advantage as manufacturing

location (Chen et al. 2002; Rowen 2003); and their search for raw materials and other inputs

needed to sustain the recent development by domestic economy (Appel and Dalla Costa 2014).

Our objective with this article is to understand the relationship between FDI and the presence

of Chinese multinationals in Brazil. In addition, to discuss the hypotheses of the reason these

multinationals entered in the Brazilian market, that is, if they did come to seek raw materials

and/or sell products and services with higher added value.

Data were obtained from official sources such as the Central Bank of Brazil (CBB), UNCTAD

and the Ministry of Commerce of China (MOFCOM); and, from unofficial sources such as the

American Business Institute (ABI) and the Brazil-China Business Council (CEBC). In addition,

the article presents some case studies of multinationals such as State Grid, Didi Chuxing

(Technology / Startup), China Construction Bank (Financial) and Chery Automotive

<sup>1</sup>https://www.terra.com.br/economia/china-torna-se-o-maior-parceiro-comercial-do-

brasil,dc3117a7adc4b310VgnCLD200000bbcceb0aRCRD.html Accessed on 19 Nov 2018.

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(Automobiles), through which it is intended to show the *modus operandi* of companies from

various economic sectors. For the analysis of these companies, it will be used data from their

websites and other online information, as well as secondary sources. Finally, the article

concludes by presenting the main considerations regarding FDI and the presence of Chinese

multinationals in Brazil.

**Foreign Direct Investment** Chinese **Multinationals Brazil:** and in

theoretical/methodological aspects

The intention of this part of the text is not to deepen the study of Foreign Direct Investment

theory nor to deal with the in-depth discussions about the theories of multinationals developed

by the traditional authors, their criticisms and the recent models. We only tried to discuss some

aspects that contribute to understand the presence of Chinese companies in Brazil.

North (1990) and Williamson (1998) emphasize the importance of institutions in the economic

development and wealth of nations. They show that the Western world countries, based on solid

and perennial institutions, have gained space in international economic development and the

FDI. Once established as developed nations, a portion of their companies started to operate in

the international market, in several continents. Recently, China, following a similar model, can

be seen as one of the nations that has consolidated institutions and constituted world-class

companies.

This article aims to verify how a group of Chinese multinationals increased their relevance in

China's economy and settled in Brazil. Until 1979, FDI and the internationalization of Chinese

enterprises were controlled by central or provincial governments (Buckley et al. 2006). Since

then, there has been a growing liberalization of FDI and foreign operation by firms. The process

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has taken a more rapid pace since 2000 when Deng Xiaoping adopted a government policy

known as 'Go Global' (Sauvant 2005).

Buckley et al. (2007), when analyzing the Chinese FDI, found that it was associated with high

levels of political risk for the years 1984 to 1991. From 1992 to 2001, the country's companies

were mainly in search of natural resources. Theoretically, the experience of Chinese firms can

be understood using the traditional explanation of the reasons that lead the companies to

internationalization, summarized in Dunning's eclectic paradigm (Dunning 1977; 1993). For

this author, there are three factors considered preponderant: i) foreign market seeking FDI; ii)

efficiency (cost reduction) seeking FDI; iii) resource seeking FDI (including a subset that is

known as strategic-asset seeking FDI).

In the case of the productive process' internationalization, Dunning (1977; 1988) links it to the

use of property advantages, which are specific to firms and countries themselves and make it

possible to explain the activities of firms abroad. These advantages are represented by the OLI

(ownership, location and internalization) sub-paradigms.

The ownership advantages are related to tangible and intangible assets (brands, technological

capacity and human potential), allowing companies to use them in order to take advantage of

the locational advantages offered by countries (natural resources, infrastructure, market size

and characteristics and reliability of economic policy).

On the other hand, investment outside their home borders makes companies decide whether to

internalize production or allow production licenses to third parties. The advantages of

internalization arise from the easiness in which the integrated firm is able to appropriate a higher

total return, retaining, controlling and managing a more complex set of physical, technological

and financial assets. In sum, according to Dunning, the concrete way in which a multinational

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company operates in a given market is a combination of these three factors, which vary

according to country, industry and company characteristics (Marinho 2013).

In the case of Chinese companies, it is possible to see motivations such as: a) Go to countries

with significant energy reserves and large raw materials deposits; b) "It may also involve the

search for specific assets such as R&D capacity and output, design facilities and brand names

that are embedded in advanced country firms and which are usually only accessed by takeover

of these firms or subdivisions of them" (Buckley et al. 2007, 5; Dunning 2001).

Specifically, the Chinese government has used FDI to ensure the supply of domestically-scarce

factor inputs as the Chinese economy has grown (Ye 1992; Zhan 1995; Appel and Dalla Costa

2014). Key sectors include minerals, oil, timber, fishery and agricultural products (Wu and Sia

2002; Cai 1999).

Authors such as Buckley et al. (2007, 6-7), based on several studies, point out four reasons that

contributed to the internationalization of Chinese companies: i) State-owned firms may have

capital made available to them at below market rates (Lardy 1998; Warner et al. 2004; Scott

2002); ii) inefficient banking systems may make soft loans to potential outward investors, either

as policy or through inefficiency (Child and Rodrigues 2005; Warner et al. 2004; Antkiewicz

and Whalley 2006); iii) conglomerate firms may operate an inefficient internal capital market

that effectively subsidizes FDI (Liu 2005); and iv) family-owned firms may have access to

cheap capital from family members (Erdener and Shapiro 2005; Tsai 2002; Child and Pleister

2003).

As China became the world's second largest economy, its available capital increased highly in

recent years due to large foreign exchange reserves and surplus of savings of China was an

important part to support China's FDI (Salidjanova 2011). The China's "going global" strategy

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in 2000 was an important advantage for Chinese enterprises have gone abroad. In the first stage

of "going global" policy, Chinese enterprises only focus on the manufacturing and mining

sectors to extract the natural resources. In recent years, however, China's FDI has spread across

the various sectors (Anh and Hung 2016).

Chang (2014) examined determinants of China's FDI into 138 nations over a seven-year period,

2003-2009. He applied gravitational-spatial linkages in regression analysis to show that China's

FDI was attracted by high-tech industries in developed nations and natural resources of host

countries in general.

A mix of motives drives the growth of China's outward FDI. These reasons are similar to

motives to explain the growth of MNEs headquartered in other countries, although their relative

importance may vary (Buckley at al. 2007). One of these motives is resource-seeking,

explained by the fact that China is short on mineral and oil resources, while its rapid economic

growth needs them in high quantities. Trade-supporting FDI is another important reason,

reflecting the country's leading role in international exports. Also relevant is the desire to access

markets through direct investment, including to protect the China's exporters against possible

trade barriers. A number of projects are furthermore characterized by the need to acquire

technology and other asset-augmenting resources. Given the rising costs particularly in the

China's coastal provinces, efficiency-seeking investment is becoming important, directed

mainly to some Asian and African countries. Finally, several specific factors play a role,

including round-tripping funds back into the country to benefit from lower taxes, keep funds

abroad for future uses, or simply to withdraw funds from the country under the guise of outward

FDI (Sauvant and Nolan 2015).

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As China continues to grow, develop, and integrate into the global economy, its overseas

investments expand in quantity and quality, reflecting both the growing sophistication of the

Chinese economy and broader Chinese commercial and policy goals (Seaman, Huotari, and

Otero-Iglesias 2017). These phenomena can be verified, for example, regarding the Chinese

Direct Investment in the European Union between 2010 and 2016. These investments were split

by the following sectors: ICT 16%; Transport and Infrastructure 15%; Real State and

Hospitality 15%; Automotive Industry 14%; Industrial Machinery and Equipment 11%; Others

29%. In the following sections, we analyze how the Chinese multinationals were established in

Brazil and in what sectors they operate, as well as their perspectives in the coming years.

**Chinese Direct Investments in Brazil** 

To understand the Chinese FDI in relation to Brazil, we will highlight some elements that allow

us make its contextualization. Until the end of the last century, the FDI directed to Brazil came

from Europe, especially from England, followed by investments from the US after World War

II.

By 1950, FDI stock had reached roughly US\$ 334 million. Between 1951 and 1960, FDI flows

amounted to approximately US\$ 1.1 billion. In the 60's, this process continued. Between 1961

and 1970, the investment flows reached US\$ 2.48 billion, and in 1979, according to data from

the Central Bank of Brazil (CBB), amounted to US\$ 9.6 billion (Curado and Cruz 2008).

Therefore, the recent Chinese FDI in the Brazilian economy continues what foreign firms have

done since 1889 (beginning that when Brazil becomes a Republic), with Americans replacing

Europeans in importance and, in the last decades, Chinese step by step becoming protagonist.

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As for the presence of foreign companies, there were also changes in the second half of the

twentieth century. Between 1980 and 2000, the share of foreign firms in the group of 500 largest

Brazilian companies, that was already significant, had increased continuously. In 2000, 46% of

the 500 largest firms were foreign and their importance can be verified by the following

numbers. They were responsible for 56% of sales, 49% of exports and 67.2% of imports (Sarti

and Laplane 2002).

The increase of the multinationals presence reached all the economic sectors, but was

particularly intense in service activities, in which they previously had little participation

(Laplane et al. 2001). To Sarti and Laplane (2002), one of the strategies adopted by the

multinationals subsidiaries was the Resource Seeking, characterized by the high propensity to

export, at the same time as they have a reduced coefficient of imports, which resulted in positive

trade balances.

Brazil maintained its insertion in the world stage as an exporter of primary goods and natural

resource intensive products to the developed countries, and exporter of products with higher

value-added and intensive R&D for the south American countries (Coutinho 1997).

The data regarding Brazil's FDI inflows from 2000 to 2018 will be presented next, considering

two official sources: one international, the United Nations Conference on Trade and

Development (UNCTAD), the other national, the Central Bank of Brazil (CBB).

In the UNCTAD data, there is some information on the flows and stocks of FDI that Brazil

received from the rest of the world, broken down by year. It allows us to observe the growth

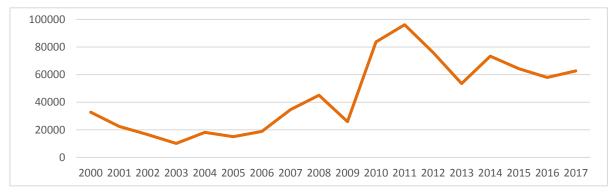
trajectories during the last years as can be seen in graph 1.

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The FDI flow can be better understood by analyzing its stock. In the period from 2000 to 2017, the stock of Chinese FDI in Brazil rise from about 100 to 800 billion dollars (UNCTAD STAT 2018).

Graph 1. FDI flow from the world to Brazil from 2000 to 2017 (in US\$ million)



Source: Own elaboration from UNCTAD STAT (2018).

In the Central Bank of Brazil website, it is possible to extract the detailed data by country for the period 2010 to 2016, showing the progress of the FDIs by the immediate investor and final controller. By analyzing these data, it is clear that investments from the United States, the Netherlands and Spain stand out.

Regarding the collection of statistical data on Chinese investments in Brazil, it is important to consider the differences between all the available statistical sources and the difficulty of analysis of official data due to various reasons.

First, the Ministry of Commerce of China (MOFCOM), the official statistical source, only provides data on the first destinations of the investments, instead of the final ones. According to Kupfer and Freitas (2018), this distorts the results, since Chinese companies usually carry out *trans-shipping* - channeling the investments through third countries. In addition, it is common in China to practice *round-tripping* - sending capital to Hong Kong and returning to the mainland as FDI, which overestimates the data. It is noteworthy that UNCTAD also provide, in the Bilateral FDI Statistics (2014), the statistics of incoming FDI in Brazil from 2001 to 2012,

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broken down by country of origin. However, in that timeframe, Chinese investments were still

relatively low in Brazil.

In addition, the official Brazilian source, the Central Bank of Brazil (CBB) provides the Census

of Foreign Capital in Brazil (base years: 2010 to 2016), where statistics are broken down by:

sector of activity, country of origin, immediate investor and final controller. Despite the short

period of time (2010 to 2016), it is possible to analyze the phase in which Chinese investments

remained high, unlike UNCTAD statistics.

As the purpose of this study is to present data on Chinese investments in recent years, and,

therefore, provide an overview of the growing presence of Chinese companies in Brazil, all

sources should be considered. Among the various unofficial sources available, we will use the

international databases China Global Investment Tracker and RedALC China, and the national

database Brazil China Business Council.

China Global Investment Tracker is a database developed by the American Enterprise Institute

(AEI) and The Heritage Foundation, compiling all Chinese OFDI transactions worth more than

US\$ 100 million between 2005 and 2018. The data include countries of destination, sectors,

subsectors, transaction channels, entry modes, and the percentage that Chinese companies own

of each project when it comes to M&A and Joint Ventures.

The other international database was prepared by RED-China FTA, from various sources such

as Capital IQ, CEBC, Market FDI, Bloomberg, CGIT, etc. It contains data on Chinese FDI in

Latin America countries and the Caribbean from 2003 to 2017, sorted by investing company,

recipients, sectors, subsectors, countries of destination, mode of entry and number of

employees.

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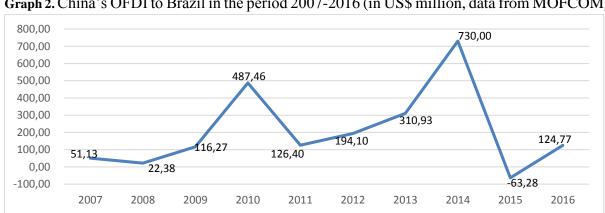
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The Brazil China Business Council (BCBC) has developed reports and analysis since 2011, compiling the investment projects of the major Chinese firms in Brazil, classifying them as "announced" or "confirmed." From various sources and interviews, the council has developed studies that provide a relatively complete database from 2007 to 2016, containing detailed investment information such as negotiation values, companies involved, sectors and project progress.

Therefore, the different accounting methods and statistics sources, allow us to see the Chinese investments in Brazil from different angles and help us analyze the strategies adopted and the growth trajectory with more rigor.

#### **Evolution of Chinese Investments in Brazil (2000 to 2018)**

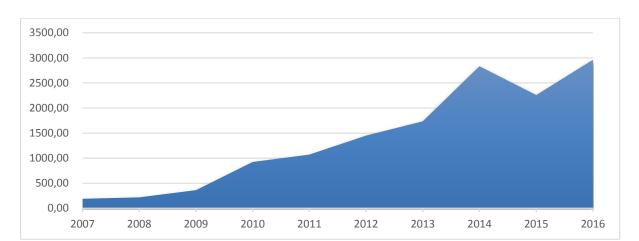
First, it will be presented China's FDI data in Brazil derived from official sources, broken down by periods, in order to clarify the evolution of the Chinese investments. Then, two MOFCOM charts will be displayed, showing the FDI stocks and entry flows, as well as an UNCTAD graph of Chinese FDI inflows to Brazil. Finally, two charts from the Brazilian Central Bank (CBB), one representing the entry of investments by immediate investor and the other by the final controller.



Graph 2. China's OFDI to Brazil in the period 2007-2016 (in US\$ million, data from MOFCOM)

Source: Own elaboration from the Statistical Bulletin of China's Outward Foreign Direct Investment 2016, 45-49.

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Graph 3. Chinese FDI stock in Brazil in the period 2007-2016 (in US\$ million)

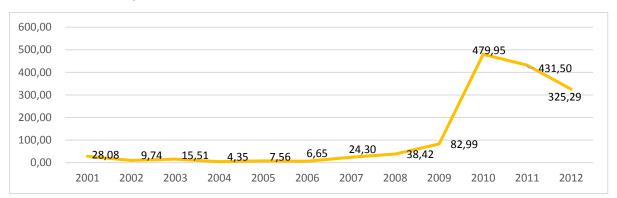
Source: Own elaboration from the Statistical Bulletin of China's Outward Foreign Direct Investment 2016, 50-54.

It can be seen in the graphs that there was a rapid expansion of FDI from 2009, with a decline after the first peak (\$487.46 million USD) flow in 2010, returning to growth in 2011. In 2014, the flow reaches another peak at an even higher level (\$730 million USD) and then a sharp drop to below-zero (\$-63.28 million USD) in 2015. There is no definitive explanation as to the reasons for this decline in 2015, but 2014 was a very contested election year and there was great uncertainty about the direction the Brazilian economy would take. In addition, in the post-election immediate period, several indicators that showed a certain weakness of the Brazilian economy were disclosed. These factors may have motivated the reduction of Chinese FDI in Brazil in 2015.

It is noticed in the chart that between 2001 and 2006, Chinese FDI inflows in Brazil kept a very low level and the significant growth occurred from 2009 to 2010. This fact coincides with the MOFCOM data, despite the general divergences in numbers and in the downward trajectory in 2011 and 2012, after a peak in 2010.

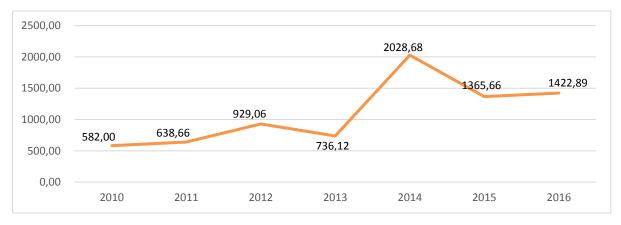
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**Graph 4.** FDI flows from China to Brazil from 2001 to 2012 (in US\$ million, data from UNCTAD)



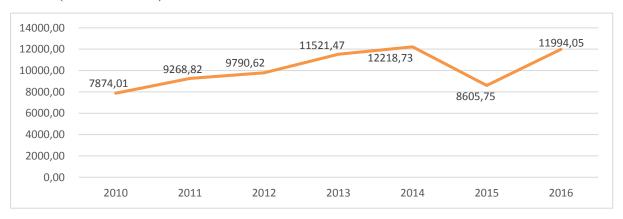
Source: Own elaboration from Bilateral FDI Statistics (2014).

**Graph 5.** FDI flow from China to Brazil, as immediate investor, from 2010 to 2016 (in US\$ million, data from CBB)



Source: Own elaboration from the Census of Foreign Capital in the County (2010 to 2016).

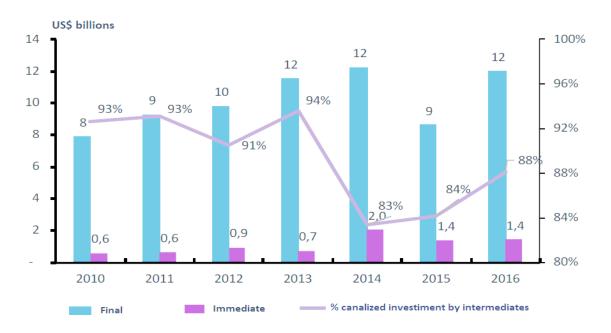
**Graph 6.** FDI flow from China to Brazil, as final controller, in the period from 2010 to 2016 (in US\$ million)



Source: Own elaboration from the Census of Foreign Capital in the Country (2010 to 2016).

Analyzing the graphs drawn from the Central Bank of Brazil data, it is possible to note the differences in relation to MOFCOM data, both in values in general, and in oscillation over the years. For example, in the chart of FDI flows by the immediate investor criterion, there has not been a reduction in FDI values after 2010, as occurred in graph 2 of MOFCOM. Moreover, despite having the same trajectory format between 2013 and 2015 (a peak and then a decline), the reduction is not as sharp as the MOFCOM "case". In the FDI flows by the final controller criterion graph, the values are much higher than those presented in the MOFCOM and in the immediate investor charts. This can be explained by the common practice of channeling investments through intermediate countries.<sup>2</sup>

**Graph 7.** China's FDI to Brazil: Comparison by the final controller and immediate investor criteria (in US\$ billion)



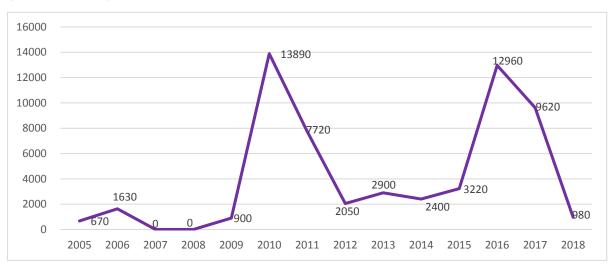
Source: Central Bank of Brazil, Report of Direct Investment in the Country (2018, 19).

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<sup>&</sup>lt;sup>2</sup> According to the Country Direct Investment Report (2018) published by the Central Bank of Brazil, the average percentage of investments channeled by third countries relative to direct Chinese investments reached, in general, 94% in 2013 and 88% in 2016, with the majority of investments coming from Luxembourg.

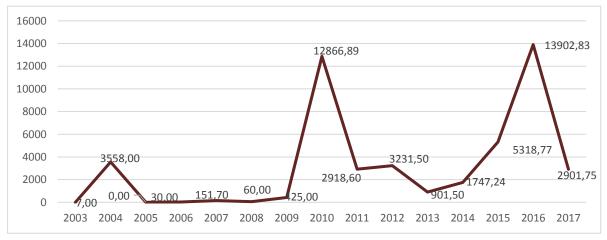
Next, it will be presented data from unofficial sources, namely China Global Investment Tracker, Red Alc and CEBC. This section will have three graphs of the Chinese FDI inflows history in Brazil, allowing us to see and analyze the subject with another perspective.

**Graph 8.** China's FDI to Brazil from 2005 to 2018, by China Global Investment Tracker database (in US\$ million)



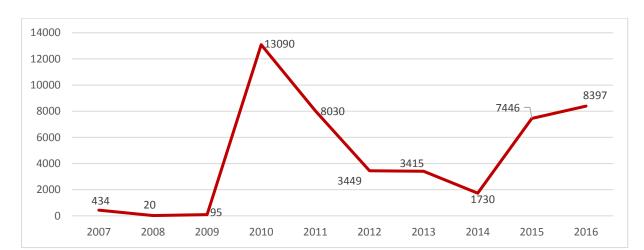
*Source*: Own elaboration from China Investment Tracker (http://www.aei.org/china-global-investment-tracker/). Accessed in 30 Sep. 2018.

Graph 9. China's FDI to Brazil from 2003 to 2017, by Red ALC China database (in US\$ million)



*Source*: Own elaboration from "Chinese OFDI in Brazil at company level (2003-2017)" (<a href="http://www.redalc-china.org/monitor/informacion-por-pais/busqueda-por-pais/29-brasil">http://www.redalc-china.org/monitor/informacion-por-pais/busqueda-por-pais/29-brasil</a>) Accessed on 30 Sep. 2018.

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Graph 10. China's FDI to Brazil from 2007 to 2016, by CEBC database (in US\$ million)

*Source*: Own elaboration from 'An analysis of Chinese investments in Brazil: 2007-2012' 'Bulletin of Chinese investments in Brazil 2012 – 2013' and 'Chinese investments in Brazil – 2016' (CBEC).

It is observed that these three graphs have some resemblance, both in relation to the values, as about the investment development path. In this sense, it is inferred that the inflow of Chinese FDI maintained a negligible level before 2009 and, as of 2010, there was an investment boom, reaching a level of US\$ 12 to US\$ 13 billion. Then, after a sharp and long drop, we can see a new exponential growth from 2014 on, to another peak in 2016.

Despite the differences between official and unofficial data, it is possible to aggregate the different views on the subject to raise certain characteristics of the historical trajectory of the Chinese FDI inflows in Brazil.

First, it can be observed in all graphs (except the CBB graph, due to the restricted period), the abrupt increase of the Chinese companies' presence in Brazil happened from 2009 on, and figures from previous years are almost insignificant to the analysis. This fact may have been, according to Frischtak et al. (2013), the result of the significant growth of bilateral trade movements between the two countries in recent years, which has made the mentioned Asian country Brazil's largest trading partner, surpassing the United States. Moreover, the decline of

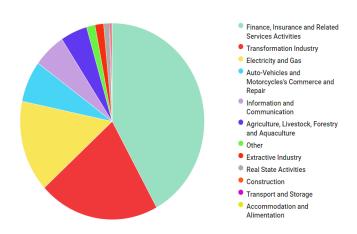
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population consumption capacity in developed countries and the devaluation of companies' assets in different countries could also have corroborated the fact.

### Distribution of the Chinese Investments in Brazil by Sector

In this section, we will discuss the statistical data on the sector distribution of Chinese firms' investments in Brazil. Here, two sources will be chosen for reference: the official one is the Central Bank of Brazil, and the unofficial is the China Global Investment Tracker. Both use data from 2010 to 2016, when Chinese investments were more significant. Therefore, it is possible to clarify in what sectors the Chinese firms invested the most in Brazil.

**Graph 11.** Sector participation of Chinese FDI in Brazil by the immediate investor criterion, from 2010 to 2016 (in U\$ million – CBB data)

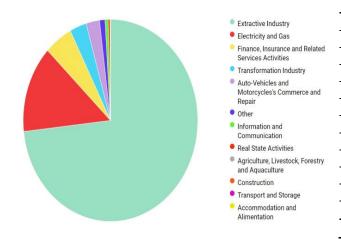


Finance, Insurance and Related Services Activities	42,0%
Transformation Industry	21,2%
Electricity and Gas	15,1%
Auto-Vehicles and Motorcycles's Commerce and Repair	6,8%
Information and Communication	5,7%
Agriculture, Livestock, Forestry and Aquaculture	4,7%
Other	1,5%
Extractive Industry	1,5%
Real State Activities	1,0%
Construction	0,2%
Transport and Storage	0,2%
Accommodation and Alimentation	0,1%
Total	100%

Source: Own elaboration based on the Census of Foreign Capitals in Brazil (2010 to 2016).

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**Graph 12.** Sector participation of Chinese FDI in Brazil by the final controller criterion, from 2010 to 2016 (in U\$ million)



Extractive Industry	73,1%
Electricity and Gas	13,9%
Finance, Insurance and Related Services Activities	5,2%
Transformation Industry	3,1%
Auto-Vehicles and Motorcycles's Commerce and Repair	2,5%
Other	1,0%
Information and Communication	0,6%
Real State Activities	0,3%
Agriculture, Livestock, Forestry and Aquaculture	0,1%
Construction	0,0%
Transport and Storage	0,0%
Accommodation and Alimentation	0,0%
Total	100%

Source: Own elaboration based on the Census of Foreign Capitals in Brazil (2010 to 2016).

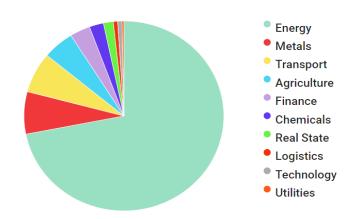
When comparing the two graphs, there is a divergence between the sector distribution by the immediate investor and final controller criteria. In the first criterion, the sectors that most concentrated Chinese capital were Financial Activities, Insurance and Related Services (42%) and Manufacturing Industries (21%). In the second, the sectors that received most of the investments were the Extractive Industries and Electricity and Gas (14%). This may be a result of investment channeling practice through intermediary countries, mentioned earlier, as seems to be the case of the entry of Sinopec in Brazil through the purchase of Repsol Brazil in Luxembourg, presented below.

Despite different results, it is possible to conclude that most of the Chinese capitals entering Brazil came through intermediary countries. It is supported by an analysis of the CBB data published. That is, even by the criterion of the immediate investor, the sectors of Financial Activities, Insurance and Related Services and Industries of transformation present a relevant concentration of investments.

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Therefore, from this analysis, the Extractive Industries and Electricity and Gas can be considered that the Brazilian economic sectors that Chinese firms allocated more investments.

**Graph 13.** Sector participation of Chinese FDI on Brazil from 2010 to 2016 (in US\$ million, CGIT data)



Energy	72,0%
Metals	7,2%
Transport	6,9%
Agriculture	5,1%
Finance	3,3%
Chemicals	2,3%
Real State	1,6%
Logistics	0,7%
Technology	0,7%
Utilities	0,3%
Total	100%

Source: Own elaboration and translation based on the China Investment Tracker (http://www.aei.org/china-global-investment-tracker/)

It is a fact that, among unofficial statistical sources, the one that demonstrates greater coherence and clarity in the division of sectors and subsectors is the China Global Investment Tracker database. It can be seen from the graph that, among the 10 sectors analyzed, the Chinese investment transactions are concentrated mainly in the Energy sector (76%), which is far from second sector, Metals (6%).

In the China Global Investment Tracker database, the Energy sector includes extractive activities of oil, coal and gas, and the generation, transmission and distribution of electricity. From this perspective, together with the analysis of the CBB base, it can be concluded that the predominant objective of the Chinese firms in Brazil is the extraction of raw materials, mainly oil, gas and iron ore from the energy and metal segments. In this context, the companies that

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are currently working in these segments include: Sinopec and CNPC in oil extraction, WISCO

and China Minmetals in the mining sector.

In addition, the energy alternative generation, transmission and distribution sector plays a major

role in the segment, with the most relevant companies being State Grid, BYD and China Three

Gorges in the hydroelectric production.

From the petroleum and metallic extractive industry to the transmission and distribution of

electricity, the trend of investments by Chinese multinationals in Brazil experienced a gradual

change in the period between 2010 and 2018. China has prioritized investment in the search for

natural resources in Brazil, developing economic segments connected directly to commodities,

including the oil, mining and agribusiness. From 2014 on, this concentration of capital was

gradually transferred to the services sectors, prioritizing the transmission and distribution of

electricity and the financial sector.

As a conclusion of this part, it can be said that Chinese investments are concentrated in three

sectors: Financial Activities, Insurance and Related Services (42%); Manufacturing Industries

(21%); Extractive Industries and Electricity and Gas (14%). Another trend is the steady increase

of these Chinese investments in Brazil, a trend that should continue in the coming years.

**Case Studies of Chinese Companies in Brazil** 

Sinopec – International Petroleum Exploration and Development Corporation

In recent years, China's accelerated economic growth has resulted in an expansion in oil

consumption, surpassing the amount of domestic production. This fact has required an intensive

search for this natural resource, whether in the form of imports, either in the internationalization

of oil extraction companies.

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According to data from the International Trade Center, China is the largest petroleum importer

in the world, with value amounting to US\$ 163.8 billion in 2017, and its biggest suppliers are

Russia (US\$23.8 billion), Saudi Arabia (US\$20.5 billion) and Angola (US\$20.1 billion).

On the one hand, the commodity worldwide supplier network guaranteed the supply of domestic

demand; on the other, the country sought to invest abroad, through oil companies, as alternative

forms of obtaining crude oil. According to China Global Investment Tracker data, between

2005 and 2018, 151 projects were announced by Chinese companies in the oil segment, ranging

from the construction of pipelines in Russia and Kazakhstan by CNPC to acquisitions of the oil

extraction fields in Angola and Brazil by Sinopec<sup>3</sup>.

Sinopec was stablished in 1998 based on the former China Petrochemical Corporation, with a

registered state-owned capital of only 274.9 billion yuan and was based in Beijing. In 2001,

Sinopec International Petroleum Exploration and Development Corporation (SIPC) was

inaugurated, responsible for oil and gas investments and operations abroad, becoming a

fundamental part of the Sinopec Group's internationalization.

Sinopec has 73 investment projects abroad and its operation takes place especially in the Arab

Middle East and North Africa, with 19 projects announced. However, in relation to transaction

values, the most significant region is South America, with US\$ 19 billion of accumulated

investments, which represent 22% of the multinational's total transactions.

In Brazil, its operations began in 2004, signing a partnership with Petrobras and the Brazilian

National Development Bank (BNDES) to develop the Gasene Project. The project consisted in

the construction of a 4.5 km pipeline, linking the city of Macae, in Rio de Janeiro, to the Catu

<sup>3</sup> Amongst the largest Chinese oil companies, predominantly state-owned, the one that has the bigger operation in Brazil is Sinopec – the biggest petroleum company in China and in the World, according to Fortune Magazine.

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city, in Bahia, in which Sinopec was responsible for the construction of Gascac (northern

section) and Gascav (southern section).

As an engineering services provider, the multinational made several investments, not only

limited to the oil and gas sector, such as the UNF III project (fertilizers production), Samarco

(mining) and TRBA Natural Gas Pipeline and Petrobras Rio City Project (natural gas

transmission). Some have been successfully completed, but others have not been successful,

such as the UNF III project, due to errors in estimates of the costs involved. As a result, debt

was generated during the rendering of services, resulting in Sinopec Brazil's judicial recovery

in 2018 (Polito 2018).

From 2010 to 2012, the European financial crisis provided an opportunity for Sinopec to expand

its business by acquiring assets from European companies, such as Spain's Repsol and

Portugal's Galp (Frischtak and O'Connort 2013). Hence, the Joint Venture with Repsol formed

Repsol Sinopec Brasil and the one with Galp gave rise to Petrogal Brasil. However, despite the

acquisitions, the Chinese oil company did not interfere in the operations control, leaving the

management responsibility for the acquired companies. In other words, Sinopec took advantage

of the expertise of these companies already consolidated in the market, without compromising

their own management resources.

The Repsol's assets acquisition granted Sinopec stakes in exploration and extraction of pre-salt

petroleum reserves of the Santos and Campos Basins, where the Sapinhoá, Lapa, Pão de Açúcar

and Gávea fields, among others, were discovered. With the acquisition of Galp, it obtained

holdings in the exploration of the blocks distributed in the six basins owned by the Portuguese

oil company. In addition, in 2010, Sinopec acquired 20% of operations in the PAMA-3 and

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PAMA-8 offshore exploration blocks in the Pará-Maranhão Basin, with an exploration period

of eight years.

So, despite a relatively recent insertion in the Brazilian market, Sinopec has experienced both

ways of operating. One as a provider of engineering services and the other as a direct investor,

through the acquisition of holdings in companies already established in the sector, in order to

shield itself against operation risks, considering the deep existing cultural gaps. Apparently, the

second form of action has been more successful so far, due precisely to the safety and speed in

obtaining results from the operations that this form has. However, it is expected that as the

company acquires the know-how of its operations in Brazil, it will be able to overcome cultural

and organizational gaps in the future, managing directly in the production and extraction of

petroleum products, such as its competitors ExxonMobil and Shell.

Didi Chuxing

The Chinese startups market has experienced a real boom in the past decade, changing in a way,

the vision of China as the 'world's factory' to a global innovation hub. According to CB Insights

data, up to the beginning of 2018, of the 230 'unicorn' companies in the world, 62 were Chinese,

behind only the United States, with 113 startups.

These startups have received extensive support, not only from investment funds, but also from

the Chinese government in the form of direct investments and incentives, minimizing

regulations and tax preferences. Furthermore, in 2016, several guidelines were included in the

13th Five-Year Plan to stimulate the innovative and shared economy sectors.

Many of these firms allied themselves with the four market leaders, the so-called BATJ (Baidu,

Alibaba, Tencent, Jingdong), to receive direct investment and support from the tech giants. So,

an ecosystem of startups was created that revolves around the BATJ, interconnecting the big

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data to develop constant improvements solutions through the feedbacks received by this

ecosystem.

As a result of their business model, some of these companies, despite having only a few years

of existence, have already extended their operations overseas, seeking to increase revenues and

to maintain their growth rate. Among them, the most noteworthy and active in Brazil is Didi

Chuxing, the second largest unicorn startup, just behind Uber.

The application developer company Xiaoju Tecnology Co. was founded in 2012 in Beijing. It

launched the primary version of Didi Chuxing, the Didi Dache that had the only function of

connecting taxi drivers with passengers. From 2013 to 2014, it received an investment of US\$

15 million from Tecent. In parallel, it launched a number of additional in-app functions, such

as trip scheduling, dynamic pricing and incorporated ride services with premium cars and

trained drivers.

Later, in 2015, Didi and its competitor Kuaidi merged, creating the largest Chinese private

transport platform, developing the "carpool paid ride" services, Didi Bus and Aftermarketing.

To improve these products operations, they founded the Didi Research Institute in the same

year, bringing together professionals to develop big data and deep learning technologies applied

in urban mobility.

The huge amounts of investments received and the constant development of new technologies,

in strategic partnership with other international leaders such as Singapore's Grab, USA's Lyft

and India's Ola, fostered the rapid expansion of Didi in the Chinese market, leaving little room

for Uber's growth in the country. All this, along with disjointed administration, misguided

strategies and lack of innovation for the Chinese market, made Uber to sell its operations in

China to Didi in 2016, after only two and a half years of operation. Therefore, with the

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acquisition of Uber China, Didi Chuxing has become one of the world leaders in urban mobility,

possessing the largest transportation app platform in the world.

In 2017, Didi Chuxing invested in the Brazilian startup 99, in order to expand into Latin

America, competing for market share with Uber. Initially it invested about US\$ 100 million,

used to improve and expand the 99 Pop services app, hiring an on-demand private driver

platform. As a major investor, Didi joined the 99 board of directors, assisting in business

planning and new products development. In addition, 99 was able to take advantage of the latest

technologies developed at the Chinese headquarters, in areas such as artificial intelligence, big

data processing and advanced urban mobility solutions. At the beginning of 2018, Didi acquired

99 for approximately US\$ 600 million.

On the one hand, the purchase of the Brazilian company marked a new stage in Didi's

international strategy. On the other hand, with the acquisition, the 99 company strengthened

itself to fight for market leadership in transport apps in Brazil, challenging face to face Uber,

its biggest competitor.

It is noteworthy that Didi Chuxing process of internationalization and insertion in the Brazilian

market has a greater degree of agility and dynamism compared to companies from other

traditional sectors.

However, despite the continued and rapid growth of 99, fueled by its acquisition, there are still

a number of problems with daily operation. For example, few months after the acquisition, the

number of complaints in social networks due to app malfunctioning increased, most of which

were immediately identified by the engineers, but the solution was time-consuming. From this

example, is important to take into consideration that, as the company expands in other countries,

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the management group needs to be better prepared to deal with the difficulties that arise from a

series of aspects, especially organizational and cultural gaps.

State Grid – Transmission and Distribution of Electricity

The expansion of the Chinese economy in recent years has boosted the rapid growth of electric

power consumption. According to the Statistical Yearbook for Electric Energy (2017) and the

Energy Research Company and Ministry of Mines and Energy, in 2011, China surpassed the

United States, both in consumption and in electricity generation capacity, becoming the largest

consumer in the world. All this stimulated the market expansion and transmission, favoring the

growth of State Grid.

China's largest power transmission and distribution company, State Grid was founded in Beijing

in 2002, with government exclusive funding and management staff. In 2018 it already had

services in 26 Chinese states, covering 88% of the territory, supplying the needs of 1.1 billion

people.

State Grid's first step to operate abroad was in 2009, when it participated in the consortium of

companies to control the Philippines' National Grid Corporation, entering with 40% of the

capital. From 2010 to 2014 it made state and private-based investments in several countries,

including the National Energy Networks of Portugal, SPI Australia Assets and SP AusNet

(formerly owned by Singapore Power of Temasek Holdings), ElectraNet of Australia, HK

Eletric of Hong Kong and Cassa Depositi and Prestiti (from Italy)<sup>4</sup>.

Unlike the other Chinese multinationals, State Grid's internationalization trajectory was driven

by the low profitability of domestic operations, which were around 2 to 3%. Operations abroad

<sup>4</sup> As the second largest company in the world, or the largest public sector company (Forbes magazine), State Grid is the right hand of the Chinese government in implementing the "One Belt One Road" initiative.

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generated an average profitability of around 10 to 12%, therefore sustaining the operation

margins in the country of origin. This situation shows that profits abroad reach around five

times the domestic, with the difference that profitability is higher in developing countries, such

as Brazil and the Philippines, but more stable in developed countries, as in Europe.

State Grid has been in Brazil since 2010, when it acquired seven national power transmission

companies at a cost of US\$ 989 million. Between 2010 and 2014, it acquired ten other

concessionaires in the transmission subsector and built its headquarters in Rio de Janeiro,

consolidating the position of State Grid Brazil Holding, operating in 12 states.

In 2014, in partnership with Furnas and Eletronorte, State Grid began planning the construction

of the Belo Monte transmission line, the first and largest ultra-high-voltage electricity

transmission line in Latin America, putting together, for the first time on a single project,

technology, equipment and construction. The project also had the objective of discharging part

of the power generated by the Belo Monte Hydroelectric Power Plant, from the Xingu region

(northern Brazil), to the Estreito substation in the southeast region.

Initially, the project was seen as a risky investment because of the long-distant power

transmission, passing through different biomes, facing climatic variations, which can create risk

and uncertainty. Moreover, the strict environmental laws in Brazil can create obstacles in

project approval and license issuance, as the construction works pass through ecological

reserves. Besides the 'ecological issue', there was the fact that many of the construction works

would go through some private owned properties, including indigenous populations. So,

authorization for construction was required, which is a slow process. However, with the

cooperation of local governments and local police, the operational team overcame the

difficulties. On the one hand, they advanced in bureaucratic matters with previous planning, on

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the other they interacted with the local populations, spreading the importance of the project and

building reservoirs, wells and schools in the poor regions on the line way.

In 2016 the company acquired 54.64% of the largest private group in the Brazilian electric

sector, CPFL Energia, for approximately \$3.5 billion USD, assuming its shareholding control.

In addition to opening the possibility of technological exchange - mainly of renewable energy

and Smart Grid - between the two companies, with CPFL, State Grid also started to operate in

the generation, transmission, distribution and commercialization of electricity in Brazil.

This was a successful insertion case in the Brazilian market: apart from presenting certain

advantages in market issues, State Grid differs from other Chinese state companies in

overcoming difficulties in relation to local gaps. This fact is due mainly to the use of knowledge

developed locally and maintaining at the command posts executives who had been working in

the company before the acquisition.

The accuracy of the strategic choices in the acquisition process of the transmission lines

concessionaires and electric companies helped State Grid to become one of the largest

multinationals in the Brazilian electric sector. In the future, its presence will be even more

significant since, in May 2018, it announced investments of over USD 35 billion over the next

five years.

Chery Automobile

The car market in China has seen an exponential increase from 5.5 million vehicles in 1990 to

1.85 billion in 2016, according to China Statistical Yearbook (2017), making it the largest

automotive market in the world. In addition, according to OICA statistics (2017), in 2009, China

surpassed the United States in the production of vehicles. In 2017, with a production of 29

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million vehicles/year, it reached almost the triple of United States figure (11 million), becoming

the world's largest producer of cars.

This boom in the Chinese automotive market was the result of a series of central government

plans, starting in 1986, when it prioritized the automotive sector in the seventh Five-Year Plan,

defining it as the pillar of the national economy. Then, they launched two Automotive Industrial

Policies, one in 1988, another in 1994, with the objective of restructuring, developing and

modernizing the automotive industry. First, the political and economic decisions were

decentralized to provincial levels, encouraging the creation of new car manufacturers and

suppliers. This has generated inefficiency in the market, due to competition among provinces,

protectionism, low production capacity and lagged technologies. As a result, restrictions were

established for the entry of new participants and a reduction in the number of companies via

mergers was set in place, and consequently the emergence of large national automotive

companies. In addition, to modernize the sector, it was encouraged the entry of multinationals,

but with a requirement: they must to form joint ventures with the national companies and to

cooperate in the research and development of technologies (De Oliveira 2012, Vianini 2017).

Following the restructuring, China reduced the entrance barriers for new participants, meeting

the requirements of WTO membership in 2001. From reduction of restrictions, new domestic

automakers that didn't belong to any of the previously formed joint ventures groups were

founded, the so-called independent automakers, which one of them was Chery Automobile (De

Oliveira 2012).

As one of the independents that has grown faster since its foundation, Chery and its

development plan has caught the attention of the global automotive industry. Founded in 1997

in Wuhu city, Chery faced several difficulties in the beginning of its operations. Because of the

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restrictions of entry into the automotive industry, it did not obtain the license to manufacture

automobiles. The strong support of the local government, because of the automotive industry

development plan in the province, encouraged production even without the license and the cars

produced were intended to be used as taxis in the city, guaranteeing the company's initial

survival (Luo 2005).

Later, the central government discovered Chery's practice of unlicensed production and ordered

its operations to be suspended. To overcome the situation, the company sold 20% of its assets

to one of the three largest state-owned automakers, Shanghai Automotive Industrial Company

(SAIC). This change in shareholding composition, in addition to facilitating the granting of the

manufacturing license, helped in sales, considering that the SAIC logo on the products made

the public think the cars were produced in Shanghai, which was the symbol of excellence in

quality (Luo 2005).

Between 2000 and 2003, Chery launched several car models such as FengYun, QQ, Oriental

Son and QiYun, with great success. However, the similarity of the QQ model to Chevrolet

Spark has caused dissatisfaction with GM, SAIC's joint venture partner. The fact led to the sale

20% of shares back to Chery herself, making the company completely independent (Luo 2005).

Since then, Chery sales have grown substantially, turning the company biggest car seller in

China in 2007, with only seven years of operation.

Chery's internationalization trajectory began in 2001, when Malcolm Bricklin, owner of a

vehicle dealer in the USA, saw in China Chery's the new model, "FengYun", and decided to

import the car brand to his country. Since then, the company has opened a range of partnerships

with different countries such as Iran, Egypt, Cuba and Russia, inserting its most popular models

in the various global markets. According to Oliveira (2012), in 2006, the company exported

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more than 50.000 vehicles to 67 countries, surpassing the amount exported by the whole country

in the period between 1955 and 2004. Hence, in a context in which the great Chinese

automakers didn't have the freedom to participate in the 'wave' of export, due to joint ventures

with foreign brands, Chery ranked first in the export of 'light' vehicles for 15 years, becoming

the Chinese brand that has more representation outside the country.

In Brazil, according to Oliveira (2012), Chery's operations can be divided into two phases: the

first, from 2009 to 2013, in which it concentrated its activities on the import and resale vehicles

in Brazil, and the second, from 2014 onwards, was based on local car production, with sales

focused on Brazil and Latin America.

With its office in Salto, in São Paulo countryside area, Chery entered the Brazilian market in

2009, in a partnership with a reseller network in São Paulo. In 2011, Chery Brazil already had

more than 80 dealerships, serving all Brazilian regions, making its most popular models

available to the public.

In 2014, Chery inaugurated its production plant in Jacarei (Vale do Paraíba region), a US\$ 400

million investment located on 1 million square meters land. With a production capacity of 50

to 150 thousand vehicles, the plant is the first and only Chinese automaker production plant in

Brazil, and the first full operational production facility of the brand outside China. From then

on, it began to serve the Brazilian and some Latin American markets.

In 2017, after 18 months of negotiations, Caoa, the Brazilian distributor of Hyundai, Ford and

Subaru brands, acquired 50.07% of Chery Brazil shares for US\$ 60 million, taking control of

the brand's operations. With this acquisition, Chery vehicles will also be produced at the

Annapolis plant, in Goiás state, and be available at dealerships, which doesn't mean that the

Chinese company has given up investing in the country.

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Chery's rapid expansion on the path to internationalization was fostered by the strategies adopted both in product development and in market choice. According to Luo (2005), one of the biggest advantages that Chery possesses in comparison with other brands is the low price of the products, as it can be seen in table 1.

**Table 1.** Vehicle type, models and price comparison (2005)

Types	Comparable Models and Brands	MSRP	
		(10,000 Yuan)	(10,000 US\$)
Subcompact	Chery QQ 0.8L AT	4.98	0.60
	GM Spark 0.8L AT	6.28	0.76
Economic Sedan	Chery Feng Yun 1.6L MT	5.98	0.72
	VW Jetta 04 1.6L MT	9.78	1.18
	VW Santana 3000 1.8L MT	14.50	1.75
	Critoen Fu Kang 1.6L MT	8.08	0.97
Sedan	Chery Oriental Son 2.0 AT	12.68	1.53
	VW Passat 2.0 AT	21.90	2.64
	Honda Accord 2.0 AT	22.98	2.77
	GM Regal 2.0 MT	20.68	2.49
SUV	Chery Tiggo MT	13.00	1.57
	Honda CR-V 2.2L M/AT	23.98	2.89
	Hyundai Tucson 2.5L MT	17.98	2.17
	Beijing-Jeep outlander 2.4L MT	17.28	2.08

Source: Lou (2005).

Note that in all criteria presented, Chery's popular models have price advantages. According to Luo (2005), this price range established by Chery was made possible by copying the competitors' models, which resulted in minimized development costs, improvement of production efficiency and cost reduction in manufacturing, mainly labor. Therefore, with a low price and a design compatible with the Chinese 'taste', the brand's products quickly conquered

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the domestic market, once dominated by the oligopoly of joint ventures of large state-owned

brands.

When deciding what foreign markets to serve, Chery sought to join the countries with a demand

profile similar to China, which ended up in attending the developing countries markets, where

their products can make the most of its competitive advantages. As for Brazil, the brand has

positioned itself as the better cost benefit offer, selling cars with *premium* offers (all accessories

included) to lower income buyers (Oliveira 2012).

However, as of 2011, the attempt to transform the company's strategic guideline, shifting from

a cheaper product brand to a high-quality one has resulted in a three-year hiatus in launching

new models, giving opportunity for the competitors' growth. Thus, with the loss of market share

and consequently some sale points, Chery reacted and released models from its 'second brand'

companies 'ZhiGuan' and 'KaiYi', but it didn't obtain the expected result. Furthermore, since

the Jacareí plant inauguration, Chery has accumulated losses in the Brazilian operation,

resulting in the sale of the business control to Caoa Group. Hence, it is expected that with the

investments in the brand to be made by the new partner, Chery and Caoa can mutually benefit

from the experience and technology of each other to strengthen the brand's position in the

Brazilian market.

**Conclusion** 

China became the second largest economy in the world in 2010, overtaking Japan. In addition,

a year earlier, it ranked first as Brazil's largest trading partner, surpassing the United States.

These two phenomena contributed to a greater Chinese FDI in Brazil as well as to a more

effective presence of their companies in the country.

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Regarding the literature that investigates FDI and the multinationalization of Chinese

companies, it was found that these companies went out in search of natural resources (Buckley

et al. 2007), but also went to other countries with significant energy reserves and large raw

materials deposits (Dunning 2001). Some companies have been looking for key supplies for the

domestic market, such as minerals, oil, agricultural products (Wu and Sai 2002; Cai 1999). In

recent years, China's FDI has spread across the various sectors (Tuong Anh and Hung 2016).

Similarly, they pursued different goals according to their destination countries. For Chang

(2014), the China's FDI was attached by high-tech industries in developed nations and natural

resources of host countries in general.

In Brazil, the presence of Chinese multinational aims the raw materials extraction, mainly in

energy and metal sectors, notably oil, gas and iron ore products. The main companies operating

in these segments are: Sinopec and CNPC in oil extraction, WISCO and China Minmetals in

mining. In addition, the electricity sector (generation, transmission and distribution) plays a

major role in OFDI strategy, represented by enterprises such as State Grid, BYD and China

Three Gorges.

In relation to the *modus operandi* of the four chosen companies in this study, there are diverse

situations.

Sinopec switched between two different ways of operating in Brazil: the first consisted of

providing engineering services, first starting with the construction of gas pipelines and later

advancing to ore slurry pipelines and a fertilizer production plant. The second form consisted

of forming Joint Ventures with existing competitors (Repsol and Galp), without interfering with

the management of these companies, in order to minimize the risks caused by cultural

differences. This way of operating was successful in terms of operation management and

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profitability, differing from the first form, which resulted in debt and the company's judicial

recovery in 2018.

Didi ChuXing, a startup, entered in Brazil by acquiring the 99 Company, an Uber's market

competitor. Unlike Sinopec, it went straight to the lucrative services market, facing, however,

technical and cultural difficulties to provide fast solutions for everyday problems.

State Grid (electricity sector), unlike other Chinese multinationals, has internationalized due to

low domestic profitability. While in the Chinese market the profitability was around 2 to 3%,

overseas this average rose to 10-12%, sustaining the company's operation margins in the origin

country. With the acquisition of CPFL in 2016, State Grid started to operate in the generation,

transmission, distribution and commercialization of electricity in Brazil.

Chery Automotive has used loopholes in legislation as well as the fact that it has no joint

ventures with international competitors to become the largest Chinese exporter of cars. In

Brazil, it acted as an importer (2009-2013) and then started to manufacture cars, from 2014 on.

Because of difficulties intrinsic to the Brazilian market (oligopoly by major world

manufacturers, that have been in Brazil since the 50s), the Caoa Group bought 50.07% of

Chery's capital in 2017.

Finally, we can state that the Chinese multinationals have a double interest in Brazil. On the

one hand it is a country rich in natural resources and raw materials and, on the other hand, is

among one of the eight largest consumer markets in the world. They come, therefore, for both

reasons: to seek raw materials and to sell goods and services with higher added value. However,

cultural, political, economic and social learning requires time of maturation and long-term

dedication that, for the time being, most Chinese multinationals have not yet reached.

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