

Chapter 5

An Intermediate City in Brazil: Between Inequalities and Growth



The Case of Montes Claros

Abstract According to international statistics, nearly 50% of the world's urban population now lives in cities of less than 500,000 inhabitants. These small and medium-sized cities act as intermediaries between rural regions, the local economy and more extensive urban networks and have three spheres of influence: regional, national and international. In many of these "intermediate cities", the main problem is a lack of financial and human resources for them in a comprehensive way in order to tackle the demographic and spatial sprawl of these urban settlements and avoid an increase in social segregation and territorial fragmentation.

The example of Montes Claros in the State of Minas Gerais, Brazil, illustrates how a city of nearly 400,000 inhabitants at the centre of an economically prosperous region is tackling these issues through its current process of urban planning by striving to take into account its historical, social and spatial context.

Like most Brazilian and Latin American cities, Montes Claros – which serves as a transit hub at the State and national levels – is a rapidly growing intermediary city whose economic growth over the past two decades has been exponential. However, this growth, which is mainly commercial and industrial, has not resulted in a more inclusive distribution of the urban population. When one considers the growth that has resulted from rural migration and new urban residents, the urban area of Montes Claros remains territorially fragmented, with neighbourhoods that are more or less equipped with various public facilities (hospitals, schools, etc.) and served by public transport depending on the socio-economic status of their inhabitants.

The current planning process is raising many issues. Among them, three crucial elements which must be rethought in order to develop an adapted planning approach and appropriate planning tools that can guide decision makers in shaping the city and region's future. The first is a medium and long-term vision for Montes Claros, its hinterland and northern Minas Gerais; the second is the current (biased) perception of Montes Claros wherein only the dense downtown areas are considered and suburban areas remain disconnected from the rest of the city (and hence poorly integrated); the last is a participatory urban planning process that involves all stakeholders and the entire population, from the diagnostic phase up through the definition of priorities in terms of urban policies, strategies and investments.

Keywords Intermediate cities · Intermediation · Spatial fragmentation · Social disparities · Montes Claros · Minas Gerais · Brasil

5.1 From the Medium-Sized City to the Intermediate City, or How to Rethink Urban Dynamics

The concept of “intermediary city” was, until recently, seldom used to talk about the changes taking place in less known medium-sized cities all over the world. As they are still largely unexplored, their advantages and disadvantages relative to big cities – which are inherently connected with the global urban networks and dominant both economically and politically at the national level – remain largely unknown (Sassen 2001; Taylor et al. 2007). Cities are mainly defined by spatial and demographic criteria, with medium-sized cities being emblematic of the so-called “intermediary city.” According to international statistics, nearly 50% of the world’s urban population now live in cities of less than 500,000 inhabitants. Such cities are home to two-thirds of the urban population in Europe, half of the urban population in Africa, and a slightly smaller percentage in Latin America and Asia (United Nations 2014).

Taking the example of Europe, Adam (2006) highlights the fact that small and medium-sized cities of 20,000 to 100,000 inhabitants are the pillars of polycentric urban areas. Residentially speaking, their attractiveness seems obvious, notably due to lower land and real estate prices compared to larger agglomerations. Depending on the intercity communication networks, these small and medium-sized cities can also be more advantageous for new businesses. Other features, such as the quality of the natural environment, less traffic, a sense of safety and feeling of community belonging, may also work in their favour. However, these suppositions must be investigated on a case by case basis. In another European study of Baltic cities of 20,000–200,000 residents, Kunzmann (2010:5) rightly states that some small and medium-sized cities benefit from belonging to regions, which, along with larger cities, form metropolitan regions: “Mediums -sized towns within metropolitan regions are the most likely winners of ongoing territorial development trends. They offer a combination of the advantages of living in the metropolitan core and in the countryside. Usually, such towns have a long history, an own identity and a high degree of liveability, which is reflected by deeply rooted local traditions, good schools and public services, a high degree of security accessibility to nature and leisure grounds“ and, last but not least, affordable real estate.”

More generally, based on a comparative study on economic productivity in 114 countries between 1960 and 2010, Frick and Rodriguez-Pose (2016) show that the larger a city becomes, the more poverty and instability increases. This is true both in industrialized countries and in emerging ones. With this growth also come negative externalities such as pollution, traffic congestion, higher rents and longer commutes. Hence, there is a critical threshold at which big cities cease to be economically productive. While this appears to be true for industrialized countries, it is less so in South

countries. For the latter, economic productivity instead depends on the national context and the available infrastructure in each type of city. There is no evidence that larger cities in South countries are inherently more productive. As the authors state, “A more nuanced view of how urban policies impinge on overall economic growth, especially in the developing world, is required,” (Frick and Rodriguez-Pose 2016:315).

In developing countries, these small and medium-sized cities face specific issues, namely less efficient public administrations, insufficient public funds to meet social needs and a lack of skilled professionals to manage large projects. In more industrially and technologically advanced countries, intermediary cities long suffered the primacy of larger cities. The UCLG (the Global Network of Cities, Local and Regional Governments 2013, 2016) made the same observation. The association of local and regional decision-makers underlines the shortcoming these cities suffer. “These cities will require greater attention in the coming years, given that local governments must prepare for rapid urban growth and major challenges in the future: namely, political and financial dependence, limited capacity and scarce financial resources¹”. Drawing on our previous studies on this question, (Bolay and Rabinovich 2004; Bolay et al. 2004), intermediary cities are defined based on a certain number of characteristics, with three spheres of influence: micro-regional, national and international. More specifically, we can identify “affected” intermediary cities (with a strong territorial position), “satellite” intermediary cities (close to larger cities), and “remote” intermediary cities (more closed vis-à-vis their surroundings due to their remote location (Nadou 2010).

In South countries, national governments have largely allocated service provision and fundraising to the lower tiers of the government, but without the necessary financial and human resources. As such, residents of smaller cities suffer a marked disadvantage in terms of drinking water supply, waste disposal, electricity and schools compared to those of larger cities (Cohen 2006). Notably, levels of infant and child mortality are proportional to city size and higher in larger cities (National Research Council 2003). Moreover, urban poverty is clearly lower than in larger cities (Ferré et al. 2012). Small and medium-sized cities thus have time to address basic infrastructure and service needs before the gap becomes too great. In other words, being small has some advantages.

To analyse this further, it is important to move away from a two-dimensional representation of “average cities” based on surface area and population size to a multidimensional understanding that incorporates economic, environmental, urbanistic, infrastructural, community, political-institutional, social and cultural aspects as well; as the case of Montes Claros will demonstrate later (Fig. 5.1).

Three criteria seem decisive when it comes to defining intermediate cities:

The first is population size, with variations according to the country and/or region and which helps to determine a “critical size” after which organizing the urban area becomes more complex and, by necessity, more dependent on external relations. Depending on the country, the national population and its geographical distribution,

¹ <http://www.uclg.org/en/media/news/intermediary-cities-new-urban-agenda> (Accessed 20 May 2019).



Fig. 5.1 Centre and outskirts of Montes Claros, Brazil in 2014. (Reproduced with permission from Bolay)

the demographic size of what we call a “city” (and hence a small or medium-sized city) varies. At the international level, the United Nations considers medium-sized cities as having up to 500,000 inhabitants. For smaller populations, it is political and administrative norms that determine what a city is. Thus, in Switzerland for instance, a small country of some eight million inhabitants in the centre of Europe, any agglomeration of more than 10,000 inhabitants is considered as a city. In Bolivia, a huge country in Latin America with a relatively small population (depending on the region), any municipality with more than 2000 inhabitants is a “city.” Brazil (which will serve as our example in this chapter), whose total population is 207 million inhabitants, making it the most populous country in Latin America and fifth largest in the world,² has more than 10,000 agglomerations³ of over 1000 inhabitants, which it considers as urban centres. The country’s urban population, which represents 86.17% of the national population, is defined based on this criterion.⁴

² <https://braises.hypotheses.org/1338> (Accessed 20 May 2019).

³ <http://www.villes.co/bresil/> (Accessed 20 May 2019).

⁴ <http://perspective.usherbrooke.ca/bilan/tend/BRA/fr/SP.URB.TOTL.IN.ZS.html> (Accessed 20 May 2019).

The second criterion is the supply of services and amenities to the community, which must meet residents' demands as well as provide inhabitants of the surrounding area with the necessary commodities for economic, social and cultural growth. This urban-rural interaction and the resulting regional dynamics are essential for the city's functionality and, practically speaking, characterize it as intermediary based on the links it generates between the city and its immediate and more distant environment at various levels.

The geographical location of the city is the third identification criterion. This dimension determines the latter's functions in its region as well as its involvement at different territorial scales in complementarity to other agglomerations in the urban network. We will consider this point later in the text.

This first approach to urban intermediation involves three scales of intervention. Indeed, the combinations of different identification criteria of the intermediate city result in interactions with "variable spatial geometry," touching the suburban and rural periphery (the hinterland, which one thinks of immediately) in a very direct way, and more spatially distant areas (which are in a virtual or physical proximity via new information and communication technologies) in a less direct way. We identify the three scales as:

The local and micro-regional scale. It is at this level that relationships between cities and their direct environments are addressed, both in urban-rural relations (hinterland) and in micro-networks of cities of different sizes and with distinct functions (Bolay and Rabinovich 2004):

- At the social level, by the complex links between rural and urban areas forged by individuals and families
- At the economic level, as a sector of agricultural production and marketing, small industry and services relating to the rural and urban economy
- At the environmental level, by the ebb and flow of natural resources (e.g. the urban water supply and wastewater discharge outside of urban boundaries, or industrial air contamination, the impact of which is also felt by nearby rural populations)
- At the territorial and infrastructural levels, as extension of land use to increase the social and economic activities of a growing population
- At the political and institutional levels, as an urban and regional sphere of decision-making relative to all the direct aspects of life in society.

It is at the national level that all the questions linking the city and its actors to the reference territory and its institutions play out. This occurs through:

- Its more or less harmonious integration with urban networks
- Relationships with other regions of the country
- Also by the links of mutual dependence between the local government and the various administrative departments of the federal government.

At the international level, the relations between the city and its extra-national environment at the global level are dealt with due to the specific role the city plays in a given sector (import/export, tourism, transport, etc.):

- Organized independently and proactively by the city and its actors
- As part of a higher strategy developed at the level of national or supervisory authorities
- Through an international role specified directly through the globalization of exchanges, promoting or affecting the city's present and the future.

Based on studies conducted in different Latin American countries, we distinguished different types of cities whose functions could be combined.

The ten main configurations are as follows in Table 5.1.

To interpret this urban typology, we will explore how cities interact with the outside world based on the main features that characterize intermediation. They can be described in these eight terms in Table 5.2.

Table 5.1 Main configurations of cities in different Latin American countries

1.	Regional market	The city is a driving force and plays a key role in the production and exchange of goods and services for the benefit of local and regional trade
2	Service center	The city provides a range of public (health centres, schoolsetc.) and private services (banks, shops, recreation centres, information centres, etc.) for the urban community and neighbouring populations
3	Regional capital	The city is home to the various political and administrative institutions at the provincial and/or national level for its territory of which it is the centre
4	Economic hub	The city develops a concerted strategy for industrial production and large-scale commerce, investing in critical infrastructure and facilitating economic agents
5.	Tourist center	The city benefits from its comparative advantages (location, natural resources, historical heritage, culture, etc.) to promote activities directly related to national and/or international tourism
6.	Communication node	Through its strategic geographical location and through the development of infrastructures created to this effect, the city acts as a platform for exchanges between people and of goods and of information
7.	Metropolitan periphery	The city's growth and development are part of a dynamic that depends directly on its integration in the metropolitan area and the national/international dynamics that underpin it
8.	Nationale/ internationale interface	The city's geographical location (border, coastal, city-state, etc.) and development strategy (free zone, assembly plants, international tourism) give it a role that is driven largely by the rationale of internationalization of its trade
9.	City member of a conurbation	The development of the city depends on its integration in a multi-unitary agglomeration comprised of urban communes that are linked to the other levels of the urban framework
10.	Association consisting of a group of cities	Creation of a group of small cities spread out in a region with little urbanization and that develop joint projects

Table 5.2 Terms of intermediation

1.	Demographic	A city's population dynamics include both internal development due to the natural growth of the population and migration from rural areas or other cities to other domestic and foreign cities
2.	Economic	The urban economy is relative to production and the exchange of goods and services available to the local/regional populations as well as national/international markets, by private and/or public economic agents acting within a formalized regulatory framework or outside this framework through informal relationships of production and marketing
3.	Environmental	The environmental dimension concerns the supply, use and safeguarding of natural and energy resources i.e. policies, management and impact (environmental, social and economic) both in the areas of supply and in the urban territory, as well as through their impact at the supra-urban level
4.	Social	This refers to the human dynamics that underpin and explain individual behaviour, giving meaning to the many relationships residents have with the outside and justifying the specific forms of these exchanges
5.	Politico-institutional	This encompasses the political, administrative and technical structures required by various public authorities at local, regional and/or national levels; the production of the norms, rules and laws promulgated by these bodies and the consequences of this legal framework in terms of relationships between political and institutional bodies, individuals and organized groups from civil society
6.	Territorial	On the formal level, it is the application of norms and rules for the use of space by the various social and institutional actors in a predefined framework in a reference territory (the city, metropolitan area, urban and peri-urban region, etc.). This territorial appropriation also extends to the "informal" social practice of occupying portions of the urban and peri-urban territory and the conflicts that may arise between a technical logic and community dynamics
7.	Services and infrastructure	The infrastructures and facilities designed, built and managed by the competent authorities or by delegation to private/community urban actors and made available to a community in the form of services whose conditions are to be determined are identified (from public and free to commercial conditions of use)
8.	Cultural	The cultural dimension identifies the forms of expression that characterize a city and its population in the past and current history of settlement and exchanges based on endogenous and exogenous influences

This nomenclature, whose choices are debatable in terms of the multiplicity of its variables and different geographical scales of identification, is advantageous in that it provides precise, measurable criteria (which very few authors have done to date, and rather simply using the term "intermediate city" to describe medium-sized towns or secondary cities, without attempting to distinguish them from each other or define them in a functional typology). And yet, it is this work that is lacking, particularly given that cities of less than half a million inhabitants are those with the highest population growth rates (Birkmann et al. 2016; Keiner et al. 2004).

Given their demographic growth and economic potential, intermediate cities are critical for their regions, governing the economic flows that innervate and

circumscribe migration from rural areas and serving as connection points within the urban network at the regional, national and even international levels.

As urban centres of rural regions, intermediary cities like Montes Claros play a key role in the rural-urban relationship balance, both as service providers for the entire population, from producers to consumers (Satterthwaite and Tacoli 2003). This trend is not unique to Brazil, but rather can be observed in all emerging and developing countries, as Klaufus (2010) shows taking the examples of Guatemala and El Salvador. Thus, if public policies are well adapted to the context, these cities can play a critical role in the fight against poverty (Fig. 5.2). Moreover, these cities are often overlooked for the potential host role they play for rural migrants, who rarely migrate directly from their birthplace to major cities, which explains their statistically higher demographic growth (Aguayo-Te'llez et al. 2010; Romanos and Auffrey 2002).

Planning and governance of small and medium-sized cities must tailor regulations, planning and decisions to fit the specificity of the context (advantages, potential, weaknesses, risks, etc.). In many of these cities, the main problem is lack of financial and human resources for managing the city in a comprehensive way, not as a fragmented entity comprised of specific social, economic and political interests, which result in social and spatial inequalities. Through decentralization and increasing autonomy, global cities can now play a more decisive role at three different levels of territory: as regional decision-making centres, as a friendlier, safer alternative to larger cities and as affordable areas of economic development at national and international levels offering new opportunities for people and businesses (Bolay and Kern 2019).

The emblematic example of Montes Claros in the State of Minas Gerais in Brazil helps us understand how a city of nearly 400,000 inhabitants at the centre of an economically prosperous region, tackles problems of demographic growth through public policy, in order to resolve growing social, economic and planning disparities through an urban planning process adapted to historical, social and spatial context.



Fig. 5.2 New urban settlements in Montes Claros in 2014, a public policy alleviating poverty. (Reproduced with permission from Bolay)

5.2 Montes Claros: A Growing Hub

Brazil is now one of the most urbanized countries in the world. According to Soares (2006), this urbanization is relatively recent, starting in the early 1940s. In 1950, it was estimated that the rural population represented 64% of the national population. Starting in the 1970s, this trend reversed, with the majority of the population becoming urban. In 2010, 84.4% of the country's population (160.0 million people) lived in cities.⁵ The country has 106 cities with more than 200,000 inhabitants (not including state capitals), representing 20.4% of the national population and accounting for 27.7% of Brazil's GDP (Veja 2011).

Originally founded in 1831 (ACI 2012), Montes Claros is located between the 16° 04' 57" southern latitude and 43° 41' 56" and 44° 13' 01" longitude west of Greenwich in the northern part of the State of Minas Gerais, which has 89 municipalities (IBGE 2010) (Figs. 5.3, 5.4 and 5.5). According to the IBGE, it has a surface area of 3569 km², including 97 km² of urban territory corresponding to the urban perimeter (Wikipedia 2019) and an average altitude of 638 m. The average annual temperature is 24.2 °C, with two seasons: a hot, rainy season and a long, dry season (Gomez and Lamberts 2009). The average high temperature is 29.3° and average low is 16.7°. The maximum temperature exceeds 40° at times. The municipi-

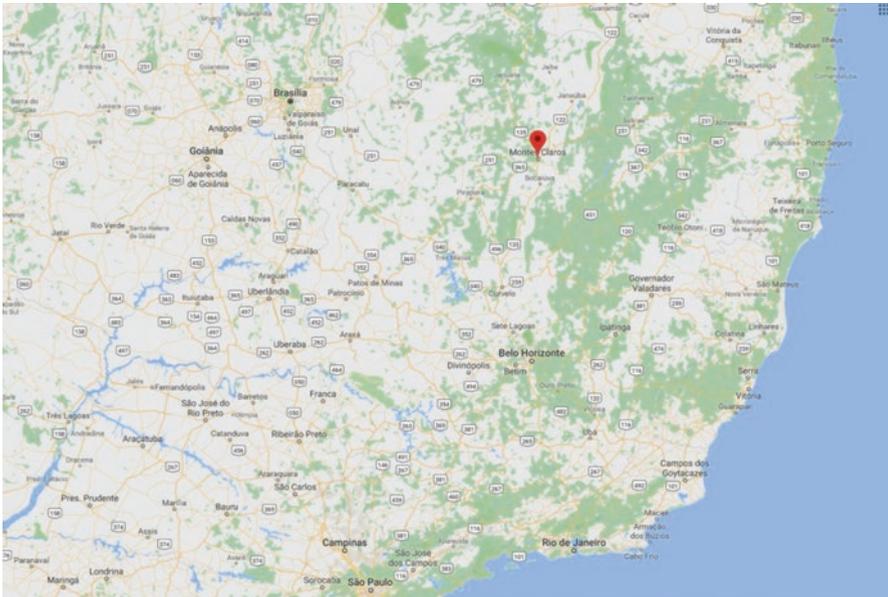


Fig. 5.3 Geo-spatial location of Montes Claros. (Reproduced from Google Maps 2017)

⁵ IBGE: (Instituto Brasileiro de Geografia e Estatística). 2010 census. Available at: www.ibge.gov.br/. Accessed 26 May 2019.



Fig. 5.4 Map of Brazil and State of Minas Gerais. (Reproduced from <http://www.minas-gerais.info/mapas/mapas.htm>. Accessed 26 May 2019)

pality of Montes Claros has existed since 1831, obtaining city status in 1857. The IBGE estimated the city's population at 361,915 in 2010 and 390,212 in 2014, with a population of 20.7 million in the State of Minas Gerais and 202.8 million in Brazil. Today, it is an urban hub for a region of roughly two million people (Prefeitura de Montes Claros 2015).

Demographic growth for the municipal population is strong, with the overall population becoming increasingly urban in the past 50 years. In 1970, the municipal population totalled 116,486; 73% was urban (Figs. 5.6 and 5.7). In 1990, it numbered 250,002, 90.8% of which was urban. In 2000, of the 306,947 inhabitants, 94.2% were urban (Soares de França et al. no date). With 10 districts and 134 neighbour-

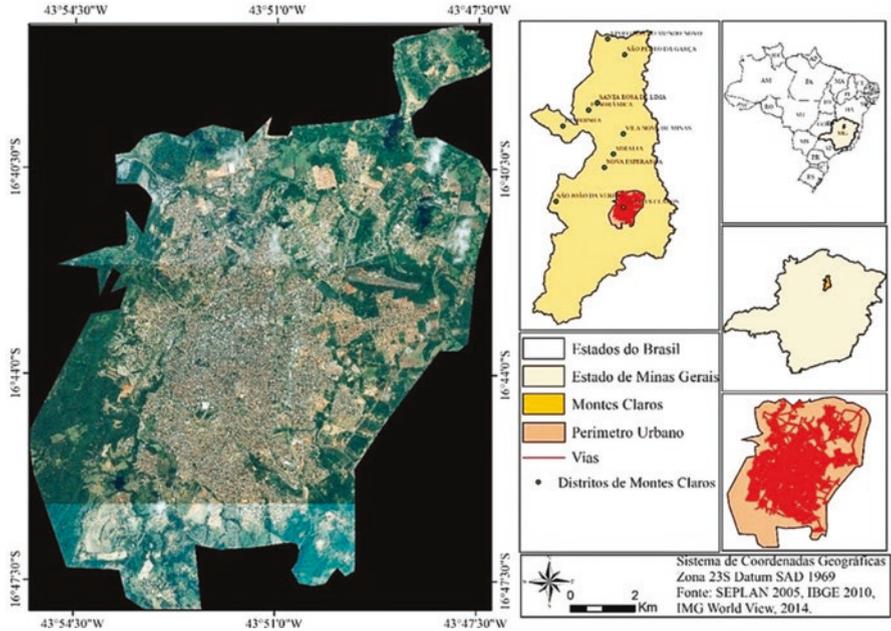


Fig. 5.5 The spatial organisation of Montes Claros. (Reproduced from Gonçalves Silva 2015)

hoods, 94% of Montes Claros’s population now lives in urban areas.⁶ This attraction to urban areas, linked in recent decades to the city’s industrialization, has resulted in the arrival of masses of rural immigrants who settle – often informally – on the urban fringes.

For Soares de França and Ribeiro Soares (2007a), Montes Claros meets the criteria of an intermediate city. The authors emphasize, however, that “this consideration should not only be based on demographic criteria or the role the city plays at the regional level but should also take into account its economic infrastructure and services”. Sixty three percent are working age (15–59), and 7% are aged over 60. In 1963, Montes Claros became the first northern municipality in the State to found an institution of higher education. Today, it has two public universities and 17 private higher education institutions, as well as several technical training schools (ACI 2012), that serve a total of 30,000 students. Montes Claros also has a top-rate offering when it comes to the health and medical field, with eight hospitals, three polyclinics, 15 urban health centres and 20 rural centres. Most of these are public institutions, though several are managed privately.⁷

It is likewise useful to consider the complexity of the division of labour relative, among other things, to Montes Claros’s geographical location and transportation/

⁶ IBGE CITIES (2015). <http://cidades.ibge.gov.br/painel/historico.php?lang=&codmun=314330&search=minas-geraismontes-claroslinfograficos:-historico> (Accessed 26 May 2019).

⁷ <http://www.montesclaros.mg.gov.br/cidade/aspectosgerais/saude.htm> (Accessed 26 May 2019).



Fig. 5.6 Montes Claros in its region. (Google Maps 2017)



Fig. 5.7 Montes Claros from the hills in 2015. (Reproduced with permission from Bolay)

communication networks. Citing Sposito (2001), the authors add that this division of labour is not a strictly intra-urban dynamic but rather is interurban. To this we would add the importance of taking into account the urban-rural relationship (which, in Montes Claros's case, is an agricultural and residential hinterland that abuts Montes Claros), shopping centres and other services that are used by the entire

urban and rural region, thus offering a privileged destination for rural migrant populations. However, as Esdras Leita (2010) points out, medium-sized cities with strong economic and demographic growth are increasingly facing housing supply issues.

Montes Claros's economy has, since the city's founding in the nineteenth century, been based on export of basic commodities, agriculture and breeding. However, industry has gradually succeeded in replacing these cornerstones (Soares Costa da Silveira 2005). The service sector has also boomed, representing 66% of the city's GDP in 1999 and 72% in 2008, followed by the industry sector (25%) and the primary sector (3%) (Soares de França 2012). The city's location – far from major cities like Belo Horizonte and Sao Paulo – and infrastructure have helped make it an important hub for the northern part of the State of Minas Gerais. This, in turn, has attracted numerous investments (undoubtedly facilitated by tax incentives) and funding for urban programs from both the state and federal governments (Soares de França 2015). In 2015, the Prefect of Montes Claros cited the city as among the 20 medium-sized Brazilian cities whose economic growth surpassed 30% in the past decade. This would explain why the current economic crisis Brazil is facing, with a decrease of 3% in the national economy in 2015,⁸ has affected Montes Claros less than other intermediary cities.⁹ The GDP was R\$ 7,844,307,000 in 2014, with an annual per capita GDP of 20,102.¹⁰ This same year, Belo Horizonte, the State capital, had a GDP of R\$ 87,656,760,000 and an annual per capita GDP of R\$ 35,187.¹¹ As such, Montes Claros has become Minas Gerais's 10th wealthiest city,¹² with strong growth in recent years Municipal government revenues and annual growth of nearly 15%.¹³

Montes Claros's consumption is equivalent to 25% of the State's entire northern region. The monthly per capita income is R\$ 647.92, 48.23% higher than the average income in the northern part of the State. Montes Claros is home to 10,862 companies, which, in 2010,¹⁴ provided jobs for 69,045 people.

Until the late 1980s, Montes Claros was considered above all an industrial city. In the 1990s, however, investments in the industry sector declined, causing many companies to close or relocate to other cities. Investments were largely redirected toward the service sector (trade, real estate, health and education, to name the key

⁸ <http://www1.folha.uol.com.br/mercado/2015/10/1690728-brasil-sofre-pior-corte-em-projecao-de-crescimento-do-fmi.shtml> (Accessed 26 May 2019).

⁹ http://www.montesclaros.mg.gov.br/agencia_noticias/2015/ago-15/not_04_08_15_4106.php (Accessed 26 May 2019).

¹⁰ <https://minasgeraismg.net/cidades/montes-claros#economia-de-montes-claros-mg> 1 US = 3.72 reais. February 2019 (Accessed 26 May 2019).

¹¹ IBGE – Instituto Brasileiro de Geografia e Estatística 2015. <https://minasgeraismg.net/cidades/montes-claros> (Accessed 26 May 2019).

¹² <http://www.deepask.com/goes?page=Confira-o-PIB%2D%2D-Produto-Interno-Bruto%2D%2D-no-seu-municipio> (Accessed 26 May 2019).

¹³ Roughly 142 million dollars.

¹⁴ For 2012, the Instituto Brasileiro de Geografia e Estatística statistics give slightly different figures: 10,859 companies and 95,593 employees, with an average monthly salary of 2.1 times the minimum wage (set at 788 R\$ a month (537/256 US\$)).

ones), changing Montes Claros's face forever (Silva Gomes 2007). A new dynamic was born, reinforcing its status as a medium-sized city in a dynamic of strong regional/interurban interplay, and strengthening its position as an intermediary city and the centre of a key region in the State of Minas Gerais. Following to Soares de França's analysis (2012), this could explain why Montes Claros's GDP rose significantly in recent years, with growth of 177% between 1999 and 2008, falling just short of the national rate (185% for the same period, and 225% for Minas Gerais). This trend has continued, with a gain of 40% between 2009 and 2012.¹⁵ Nevertheless, the GDP per inhabitant is still below the national average, with 14,410 R\$ per inhabitant in Montes Claros versus 22,642¹⁶ for nationally in 2015.

5.3 Verticalization of the Central Business District and Spatial Changes

As the fruit of a national strategy, the economic boom of the 1970s resulted in major territorial and social changes and a restructuring of urban functions and the role of secondary cities in Brazil's urban network, creating new poles of attraction for national and foreign investment (Oliveira and Ribeiro Soarez 2014; Oliveira 2009).

From the second economic and social national development plan was born the national support program for capitals and medium-sized cities, designed to financially support urban infrastructure, transport and economic revitalization projects. According to Amorim and Serras's definition (2001), medium-sized cities are urbanized areas with an urban population of between 100,000 and 500,000 inhabitants. França et al. (article cited) add to this strictly demographic definition other criteria relative to infrastructure, economic diversity, cities' relationship with their rural hinterland and their role in Brazil's urban network.

This dynamic comes with an urban reform that dates back to the enactment of the new federal constitution in 1988, which includes a chapter on urban policy in Brazil and recognizes the autonomy of local governments legally, politically and financially. It also sets out guidelines for popular participation in decision-making processes.¹⁷ This was followed by the creation of the "city" status at the national level, which explicitly recognizes the (social) right to the city, in 2001. This status requires all cities of more than 20,000 inhabitants to develop a 5-year master plan, and to follow certain mechanisms to guarantee the effective participation of citizens and associations in urban planning and management procedures.

¹⁵ <http://www.deepask.com/goes?page=montes-claros/MG-Confira-o-PIB%2D%2D-Produto-Interno-Bruto%2D%2D-no-seu-municipio> (Accessed 26 May 2019).

¹⁶ The equivalent of \$4683 and \$7358 for 2016.

¹⁷ This constitutional reform encourages a number of cities (in Porto Alegre, Recife and, closer to Montes Claros, Belo Horizonte for instance) to set up "urban conferences" and participatory budgetary processes via municipal laws (Fernandes 2007).

The new legislation likewise imposes also aims to regularize consolidated informal settlements in private and public areas. The Ministry of Cities, created in 2003 under President Lula's mandate, founded two important initiatives which were still effective until the recent federal government change in 2019: a program to support sustainable urban land regularization and a national campaign for participatory municipal master plans.

In the early 1970s and 1980s, Montes Claros experienced spectacular spatial and demographic growth, notably through the development of new housing estates, often outside the framework of formal planning and more as a result of private investments than government planning. During this period, downtown Montes Claros grew vertically (Fig. 5.8), with new service infrastructure appearing in addition to the renovation of public spaces, while other sectors fell into decline. With this came mobility issues, as the public transport supply did not provide service to all neighbourhoods. This process intensified during the 1990–2000 period, especially in the city centre along avenues with strong commercial and economic “potential” linked to a sharp rise in land prices and the restructuring of city streets into major traffic thoroughfares.

Today one easily distinguishes those housing estates inhabited by populations with high buying power in poor neighbourhoods (mainly in the east and north of the city). The same period saw the construction of many ten-story-plus buildings. In



Fig. 5.8 Central Business District of Montes Claros in 2015. (Reproduced with permission from Bolay)

2011, changes to the law on socially vulnerable areas relaxed regulations for buildings with more than five floors. The same year, the municipality ratified a law allowing for the expansion of Montes Claros's urban perimeter, further facilitating the verticalization of the built fabric. This extension carried over into the city centre and northern part of the city with commercial buildings and rental units in co-owned condominiums (Soares de França et al. 2014).

This trend continues today and has become hard-wired in legal terms. Starting in 2002, the municipal authorities of Montes Claros produced several laws on land use in the municipality (Município Montes Claros, 2009, 2011, 2015). As one sees on the map produced by Soares de França et al. (2014), the verticalization of the city – initially for residential purposes – gradually expanded to include commercial real estate in the more central areas of Montes Claros. Today, this trend continues in all those areas with high land value, to the benefit of families with strong buying power and businesses with high added value (Soares de França 2015) (Fig. 5.9). For the authors, this trend negative could have an impact on the environment and quality of urban life. It also clearly marks the links between the public and private sectors (between the city government, on one hand, and large regional and national construction companies and investors, on the other).

Analysing the same process in other Brazilian cities, Cohn (2012) concludes that the verticalization of the real-estate supply also affects access, socially speaking. As purchase and rental prices climb, only the rich can afford to buy or rent apartments; small business owners cannot afford to rent commercial space, which, according to him, negatively affects job creation among small businesses and industries with large, low-wage workforces. Many other Brazilian cities, intermediary and large ones alike, are also witnessing the verticalization of their housing supply. This phenomenon goes hand in hand with their territorial expansion and social and cultural segregation that economically benefits the wealthier social classes¹⁸ and the commodification of city centres and residential areas with high land values, resulting in pronounced territorial segregation.

The verticalization debate, however, also has its roots in a planning model come down from the modernist movement that highlights such “constructive” solutions as a way of addressing issues of housing, infrastructure efficiency and economic vitality (Soares Gonçalves 2004). For the author, promoters of this planning solution have, since World War II, highlighted synergies with business by a proximity effect, a more rational use of urban infrastructure (thanks to higher population densities) and the image of modernity and attractiveness these buildings represent (Fig. 5.10). Meanwhile, its critics highlight energy overconsumption in a small portion of the territory, overexploitation of urban infrastructure and services due to a highly concentrated population at particular points in the city and a negative environmental impact in terms of shade and wind turbulence.

Technical solutions exist for making high buildings efficient in terms of energy and use of natural resources such as water, solar heat, etc. However, this requires significant investments in their design – which impacts production costs and com-

¹⁸This is the case cited by Polidoro et al. (2012) for the city of Londrina, in Parana.

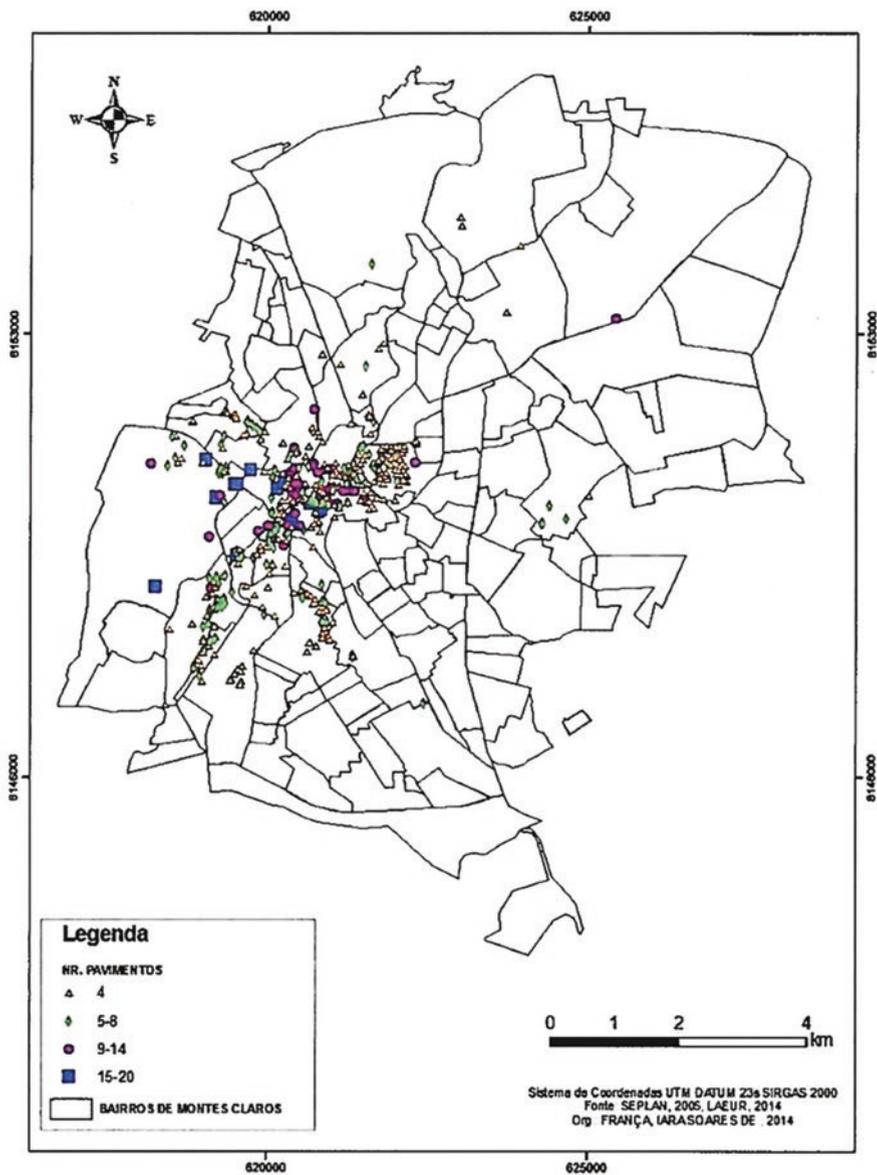
Verticalização Urbana por Número de Pavimentos, Montes Claros/MG, 2014

Fig. 5.9 Urban verticalization in Montes Claros. (Reproduced from Soares de França et al. 2014)



Fig. 5.10 New residential buildings in the suburbs of Montes Claros in 2014. (Reproduced with permission from Bolay)

mercial value – and flawless integration of these buildings in masterplans environmentally, demographically and infrastructurally. Such cases, however, are exceptional. Taking the example of London (UK), Appert (2008) points out that the high-rise buildings popping up in countries all around the world (old, new, industrialized or emerging ones such as Brazil) are a sign of potential conflict between preservation and promotion of historic urban heritage and the shaking up of the urban form symbolically (what image of city do we want in a global and comparative perspective?). At the same time, such a context promotes economic growth, job creation and social well-being. These tensions need to be managed carefully, given that the image of the city is, today, a real concern and tool of power, politics and collectiveness.

In light of these characteristics, Montes Claros may be considered the regional capital of northern Minas Gerais. And like many other medium-sized cities in Brazil, Montes Claros's development was reflected in a shift in rural migration – to its benefit, but to the detriment of larger Brazilian cities – and increased regional commuter traffic.

Parallel to these changes, however, a growing number of recent arrivals to the city are finding themselves in precarious housing conditions characterized by an impoverished population, insecure land tenure and a lack of urban facilities and services (Figs. 5.11 and 5.12). Montes Claros reproduces the process of territorial and social division found in other similar cities in Brazil. Favelas can be found in 80% of medium-sized Brazilian cities, versus 40% in smaller cities of 20,000–100,000 inhabitants (Esdras Leita 2010). Ce même auteur et son collègue Santos Martins précisent que pour Montes Claros, selon une analyse cartographique GIS, le nombre de favelas a augmenté de 9,6% entre 2005 et 2011. Et que cet habitat précaire correspond désormais à 52,5% des nouveaux édifices de la ville. Ce qui est impression-



Fig. 5.11 New self-built home in the close suburbs of Montes Claros in 2014. (Reproduced with permission from Bolay)

nant et dénote à la fois de la pression migratoire, du manque de logements pour les familles à faibles revenus et du manque d'application des règles d'urbanisme existant à Montes Claros (Santos Martins and Esdras Leite 2015).

The two graphs (Figs. 5.13 and 5.14) produced by the municipality of Montes Claros and analysed by geographers from UNIMONTES University show how urban land is used, with an ever-increasing extension of residential areas into the natural areas bordering the city, with low-income populations in the industrial north, east and south-eastern fringes of commune.

More generally, following the analysis of Esdras Leita and Pereira (2005), the poverty level – 74.7% in 1970 and 55.45% in 1991 – has dropped considerably in recent decades in Montes Claros (versus 33.17% in 2001). The wealthiest 20% of the population controlled 66% of the wealth. A good indicator of the spatial distribution of poverty is reflected in the price of land that, in 2004, ranged from 1251 R\$ downtown to 28–89 R\$ in the suburbs. In wealthy neighbourhoods, monthly incomes ranged from 400 to 1200 R\$ on average, while those in poor neighbourhoods ranged from 30 to 80 R\$. Urban infrastructure and services also point to socioeconomic disparities. While water supply and sewage drainage systems exist across the entire territory (though not all homes are necessarily connected to them), public transport, street lighting and tree planting are grossly lacking in poor neighbourhoods.

Echoing the analyses of different authors, Feitosa et al. (2011) point out that several factors contribute to urban spatial segregation, including the job market and its socio-economic impact (salary level, job insecurity, etc.) and increasing poverty among poor workers and sub-standard living conditions. Conversely, the expansion



Fig. 5.12 Self-built house in a suburb of Montes Claros in 2018. (Reproduced with permission from Bolay)

of the private property market may result in a concentrating of investment in neighbourhoods of high standing, thus benefitting areas reserved for the privileged, at the expense of the poor. Finally, the lack of government action and failure to implement inclusive social urban policies hinder the creation of social housing subdivisions. In summary, Gonçalves Silva (2015) defines Montes Claros based on its main social and urban management issues, which include: the lack of housing, segregation in

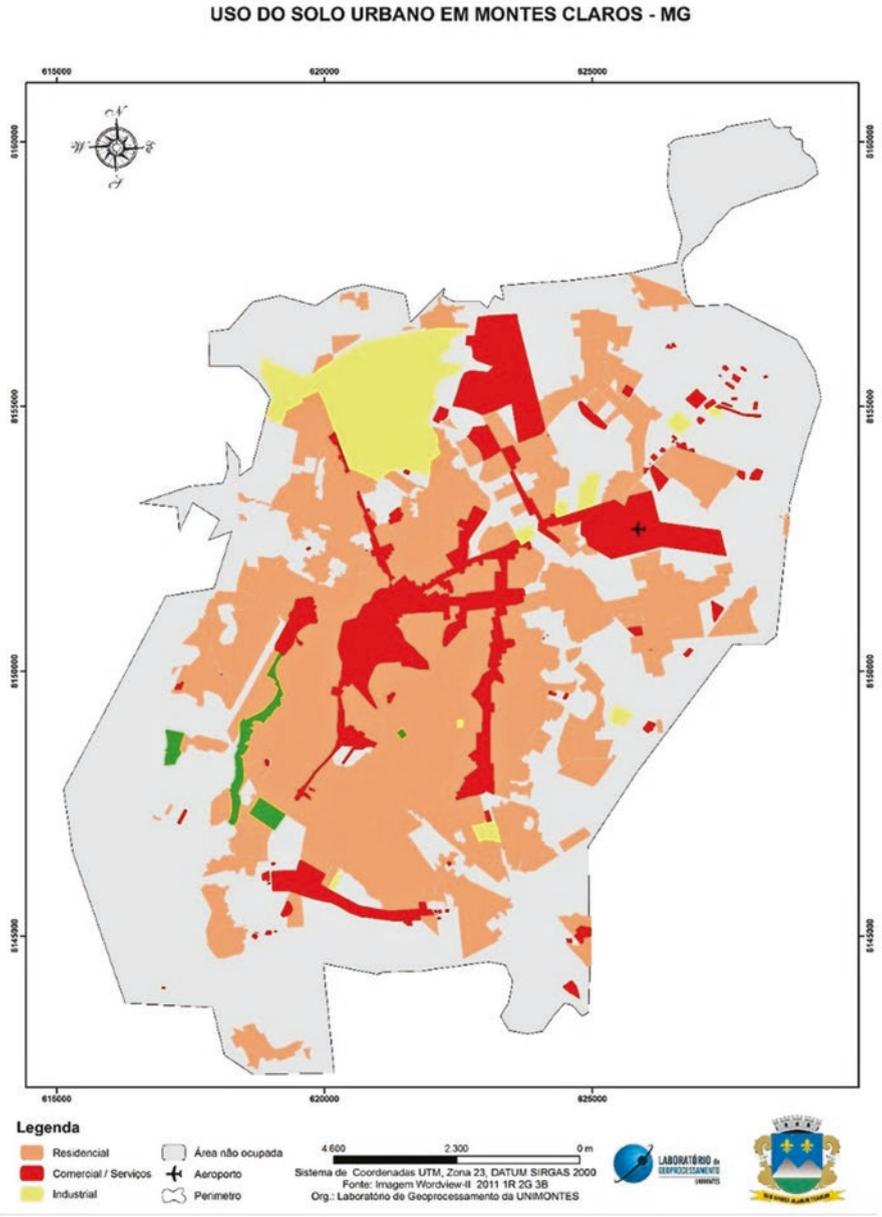


Fig. 5.13 Urban land use in Montes Claros in 2015. (Reproduced from Gonçalves Silva et al. 2015)

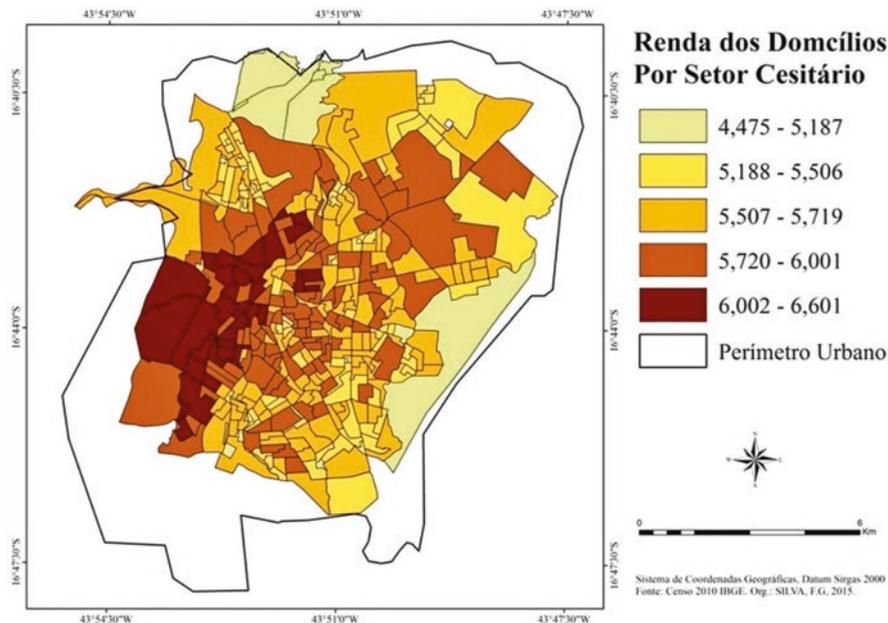


Fig. 5.14 Subdivision of Montes Claros by income per household. (Reproduced from Gonçalves Silva 2015)

terms of access to housing, which leads to precarious housing, real estate speculation, traffic congestion, violence and crime, making the city an urban hub characterized by accelerated economic growth and stunted structural development. However, such segregation is unique neither to Montes Claros nor to Brazil.

Some authors, such as Smets and Salman (2008), show that spatial segregation is a multi-faceted phenomenon that is not only the matter of a divide between rich and poor neighbourhoods (between “gated communities” and “slums”, in its extremes), but also concerns migration, ethnic divisions, social exclusion and economic precarity. In the Global South, as in the Global North, the prevailing economic globalization and neo-liberalism tend to minimize the role of the State and urban communities. Tensions arise from both the pressure of budgetary allocations between public authorities (national, regional and municipal) and the fierce competition among cities worldwide. Cities – both large and intermediary – are increasingly influenced by the impact of global networks (financial, physical, demographic and intellectual) which, in turn, determine the speed and extent of political, social, economic and cultural changes at the local, urban and regional levels (Castañeda et al. 2011; McCann 2008; Rossi et al. 2007; Roberts 2005; Robinson 2002).

Like most Brazilian and Latin American cities, Montes Claros – which acts as a transit hub at the State and national levels – is a rapidly growing intermediary city that has seen continued economic growth over the past two decades and, according



Fig. 5.15 New social housing in the outskirts of Montes Claros in 2018. (Reproduced with permission from Bolay)

to statistics, a gradual decrease in poverty. However, this development has not resulted in a more balanced or homogeneous distribution of the urban population in spatial and planning terms. Considering the resulting growth from rural migration and new urban residents, the urban area of Montes Claros remains fragmented territorially, with neighbourhoods more or less well equipped and served by public transport depending on the socio-economic status of their inhabitants (Fig. 5.15). Soares de França and Soares (2007b) cite Montes Claros as emblematic of a medium-size city acting as a regional capital for the northern part of the state of Minas Gerais.

We would add that it is an intermediary city, as this centrality operates at several spatial scales (i.e. at local and micro-regional levels (flows of agricultural products and the marketing/processing of these products, health and educational facilities for the urban population as well as urban and rural populations from the rest of the state). This centrality also has national and international dimensions, primarily through economic dynamics that promote the creation of production companies of Brazilian and foreign firms (Alpargatas, Clairmont, Cotenor and Coteminas, to name a few Brazilian companies active in Montes Claros. Nestlé, RPC, Fiat, Novonordisk, Ciments Lafargue and many other foreign firms also operate in the

industrial zone, with production for the domestic market and for continental and global export, as in the case of Nestlé's Dolce Gusto capsules¹⁹).

5.4 Urban Planning in Montes Claros: A Participatory Process?

Since the 2000s, Montes Claros has adopted a new, two-part masterplan: an urban development masterplan and a municipal housing plan, as part of the *Habitar Brasil* program (since 2002), with funding from the Inter-American Development Bank. The program aims to improve poor housing conditions in metropolitan and urban areas in Brazil, with the goal of supporting those who earn less than three times the minimum wage living in poor neighbourhoods. Major investments in Montes Claros have attempted to mitigate infrastructural deficiencies in these new residential areas, aiming to reorganize land, social and urban planning issues in a coordinated manner, notably through involvement in sanitation, energy, transport and school facilities (Soares de Souza and Soares de França 2011).

A fieldwork was organized in May 2015 and May 2016, in cooperation with Professor Iara Soares de França²⁰ from the Universidade Estadual of Montes Claros (UNIMONTES²¹) and her colleagues and co-workers. We met with 30 individuals representing different local sectors in order to get their views on current key urban issues, the different players involved, the urban planning process and its objectives and implementation.

This work gave us an updated portrait of Montes Claros environmentally, spatially, economically and socially, which we will now explore in light of the current planning process being implemented by the urban authorities.

A second study was conducted at Montes Claros in 2016, along with the same academic partners from Montes Claros and professors and students from UNIMONTES, among residents of four neighbourhoods that were considered representative of various socio-spatial categories. The goal was to gather their opinions on the city's urban development and gauge their knowledge of the authorities' actions to develop new urban planning in the medium and long terms.

¹⁹<http://g1.globo.com/mg/grande-minas/noticia/2013/10/fabrica-da-alpargatas-e-inaugurada-em-montes-claros.html> (Accessed 26 May 2016), <http://www.istoedinheiro.com.br/noticias/economia/20041006/coteminas-melhor-empresa-brasil/16658> (Accessed 26 May 2016), http://www.em.com.br/app/noticia/economia/2015/12/17/internas_economia,718415/nestle-inaugura-fabrica-de-capsulas-de-cafe-em-montes-claros.shtml (Accessed 26 May 2016), <http://areaguas.com/rpc-vai-construir-fabrica-em-minas-gerais/> (Accessed 26 May 2016), <http://exame.abril.com.br/negocios/noticias/fiat-industrial-construa-de-fabrica-em-montes-claros> (Accessed 26 May 2016), <http://www.novonordisk.com.br/fale-conosco.html> (Accessed 26 May 2016).

²⁰<http://www.ppgeo.unimontes.br/laeur.php> (Accessed 26 May 2019), <http://buscatextual.cnpq.br/buscatextual/visualizacv.do?id=K4756289U7> (Accessed 26 May 2019).

²¹<http://unimontes.br/> (Accessed 26 May 2019).

5.4.1 *Heterogeneity and Priority Issues to Resolve*

Urban planning and development issues are inevitably dealt with by representatives of various administrative and organizational institutions. Their heterogeneity highlights the multidimensional nature of regional organization and urban planning, which decision-makers and operators tend to reduce to their material aspects. While the latter are imminently important, the fact that they are the result of ad hoc political decisions, and that changes made are not sustainable unless they are developed as part of a long-term vision via an inter-actor process, is too often overlooked. We will start by looking at the spatial aspects of urban planning, facilities and services, in order to then address the opinions of our respondents, irrespective of their identities.

Montes Claros is an intermediary Brazilian city according to demographic and spatial criteria, and based on its connection with its hinterland and the national economy. The municipal authorities consider it an urban agglomeration, but do not truly consider all facets of its regional influence. Within municipal limits, what matters to the authorities is not the rural areas – which are considered primarily as a source of labour supply for urban businesses and not part of a rural-urban entity – but rather the urban space. As the population of this heavily urbanized area grows, neighbouring rural areas depopulate due to urban immigration. Policy makers and professionals do not veritably address this issue often raised by scientists. Rather, only social service agents and NGO representatives point out this dichotomy by showing how people in rural areas lack services of all kinds.

At the urban level several shortcomings were observed, notably the regulation of the water issues (Fig. 5.16). Given the climate, Montes Claros requires not only a drinking water supply – which can today be found in almost all urbanized areas – but also technical measures for controlling floods during the high rainy season. Rain and flooding obviously have a negative environmental impact. However, periodic water shortages in certain areas stem not only from problems in the existing networks, but are also the result of accelerated deforestation due to “more or less” legal construction of new habitats in the surrounding hills.

The sprawling homes of the landed class and luxury housing developments (Fig. 5.17) are gradually threatening the region’s ecological balance (Fig. 5.18), as water struggles to find its way to the water table and instead runs off into the lower parts of the city.

Other technical questions relate mainly to: the electric power supply (inadequate in certain suburbs), harvesting, recycling and solid waste treatment²² (while landfills exist, they do not comply with environmental protection standards and have a negative impact), land use (which is poorly regulated), seismic monitoring and protection measures (in the event of earthquakes), and transport systems (Fig. 5.19).

²²According to SERENCO (2015), there is no garbage collection in neighbourhoods outside the city centre. Families dispose of their trash themselves, either by burning it or throwing it in vacant lots. Recycling and organic composting do not exist.



Fig. 5.16 Contaminated urban river in 2015. (Reproduced with permission from Bolay)

All of this is the indirect result of the rapid growth of new social housing developments funded by national and state programs (Fig. 5.20) and luxury housing for the city's elite. An urban mobility master plan exists, but has not been fully implemented. Moreover, Montes Claros, as a regional hub, faces transport issues that challenge both regional mobility and the infrastructure and services that link the city and surrounding countryside. Montes Claros is a hub for the storing and redistribution of agricultural products, which generates considerable lorry traffic. It is also a commercial and industrial centre, where many individuals live in rural areas and commute to the city to work.

During our social housing development visits, we observed that public transport service was scarce and sporadic at best. To our knowledge, there is no recent and comprehensive study on the topic. Homeowners with modest incomes must simply accept the reality of this sub-standard transport service and “make do” with costly solutions such as shared taxis, motorbikes, etc., as they often work at some distance. Public amenities are also rare in these new developments. Schools, playgrounds, social and health centres are not systematically planned or built in these new suburbs. The small, identical houses are all lined in rows, sometimes with a small yard, but no shared or common space. Simply put, the poor benefit from programs that marginalize them spatially. While affordable housing is still of paramount importance, it should not in itself be the objective of urban planning.

Fig. 5.17 New gated private luxury estate under construction in the suburbs in 2015. (Reproduced with permission from Bolay)





Fig. 5.18 Luxury home in the hills of Montes Claros in 2015. (Reproduced with permission from Bolay)

At a higher level of urban development, several respondents pointed out the fact that the land registry, if it exists, is not made public, thus enabling the political authorities and certain power elites to interpret it without consulting the public and the fact that, in many neighbourhoods, the urban master plan is simply not applied. However, in the words of another respondent, the problem is more general, and therefore more serious when one considers that more than 140 of Montes Claros's neighbourhoods are still unzoned, rendering coherent and appropriate organization of public and private initiatives in these areas impossible. These essentially parcelling-type projects all have but without any strategic place in the medium or long-term development of the city. Most of the issues addressed by Montes Claros's master plan in the medium and long terms have regional impact. Hence, a city plan



Fig. 5.19 Recent constructions in the hills near Montes Claros in 2015. (Reproduced with permission from Bolay)

should likewise (and always) be a regional plan that takes into account both migration flows, in some cases definitive, as the population of the urbanized area increases, and in other cases in the form of daily commuting between downtown Montes Claros and the surrounding rural areas.

A number of societal issues also help shed light on Montes Claros's functioning. Notably, what emerged from the interviews is that Montes Claros no longer has any civic culture to create social cohesion and identity. For some interviewees, Montes Claros and its region are no longer a collective reference, both in terms of its historic and built heritage (which is largely neglected and enthusiastically destroyed to make room for an avatar of "modernity") and in terms of its natural environment (which is little developed and threatened by continued deterioration of its forest-covered hills and its rivers). What prevails are personal and political interests that couple political action and financial advantages to benefit the local elite.

Such first fruits generate biases in the very creation of participatory processes because the political authorities, in creating a new urban development plan, limit participation to a select elite that includes economic operators, academics and professional associations. In other words, the many collective interest groups, NGOs and other associations are left out.

Fig. 5.20 Social housing in construction in Montes Claros in 2015. (Reproduced with permission from Bolay)



5.4.2 Who Are the Actors of Urban Development at the Neighbourhood Level?

In addition to our interviews with experts and specialists, we felt it was pertinent to question inhabitants regarding their feelings about life in Montes Claros, their expectations of public and private decision-makers and their opinion of what local authorities were doing to improve urban living conditions.

For this, we interviewed approximately 20 families in each of the four neighbourhoods (Fig. 5.21), which represent the different waves of migration to Montes Claros in the past decades. The main idea was to compare the professionals' analyses with the perception of users in a non-exhaustive manner.

These four neighbourhoods can be described in the following way: Major Prates and Santos Reis are old, densely – populated, working-class neighbourhoods located in a central area of Montes Carlos; Todos os Santos is a more affluent residential area with high land and real estate values, and; Residencial Sul is a recently built social housing complex that borders the Montes Claros agglomeration. These socio-spatial distinctions can be confirmed at the educational level; Major Prates and Santos Reis are the areas with the lowest educational levels (40% on average had not completed elementary schooling. It is likewise in these two neighbourhoods that we find the highest rate of unemployment (roughly 20%) whereas all of the residents of the other two neighbourhoods are employed. Santos Reies and Major Prates also have more poor families, 20–30% of which have a monthly income of less than 1200 reales. This is not the case for the Todos os Santos and Residencial Sul neighbourhoods, whose residents all live in single-family homes on 100–200 m² parcels (for Residencial Sul), which is larger than in the three older neighbourhoods. There was, on the other hand, unanimity in terms of the type of occupancy: 82% of inhabitants on average owned their home.

Given these varied characteristics, it is interesting to consider the perception of city's residents. When asked who was responsible for improving things in their respective neighbourhoods, the City Council was cited by an average of 50% of respondents. Equally interesting is the fact that, for 30% of respondents, it was the community that was primarily responsible for managing the neighbourhood (Fig. 5.22). This could provide a potential basis for effective collaboration between the local administration and inhabitants, particularly as this perspective was much more marginal with regard to the urban management of the communal entity (2.6–19.4% depending on the neighbourhood). More formally, urban management capacities were attributed to the City Council first and foremost, and to the State of Minas Gerais and the Federal government to a lesser extent.

In addition, while – officially speaking – a “participatory” planning process had been ongoing for over a year at the time of the survey, none of the 70 interviewees had been consulted personally or invited to a public meeting on urban planning. This leads us to deduce that the process was not systematically based on involving inhabitants from every neighbourhood. According to other informants consulted during the study, informational meetings were indeed organized but were, at best,

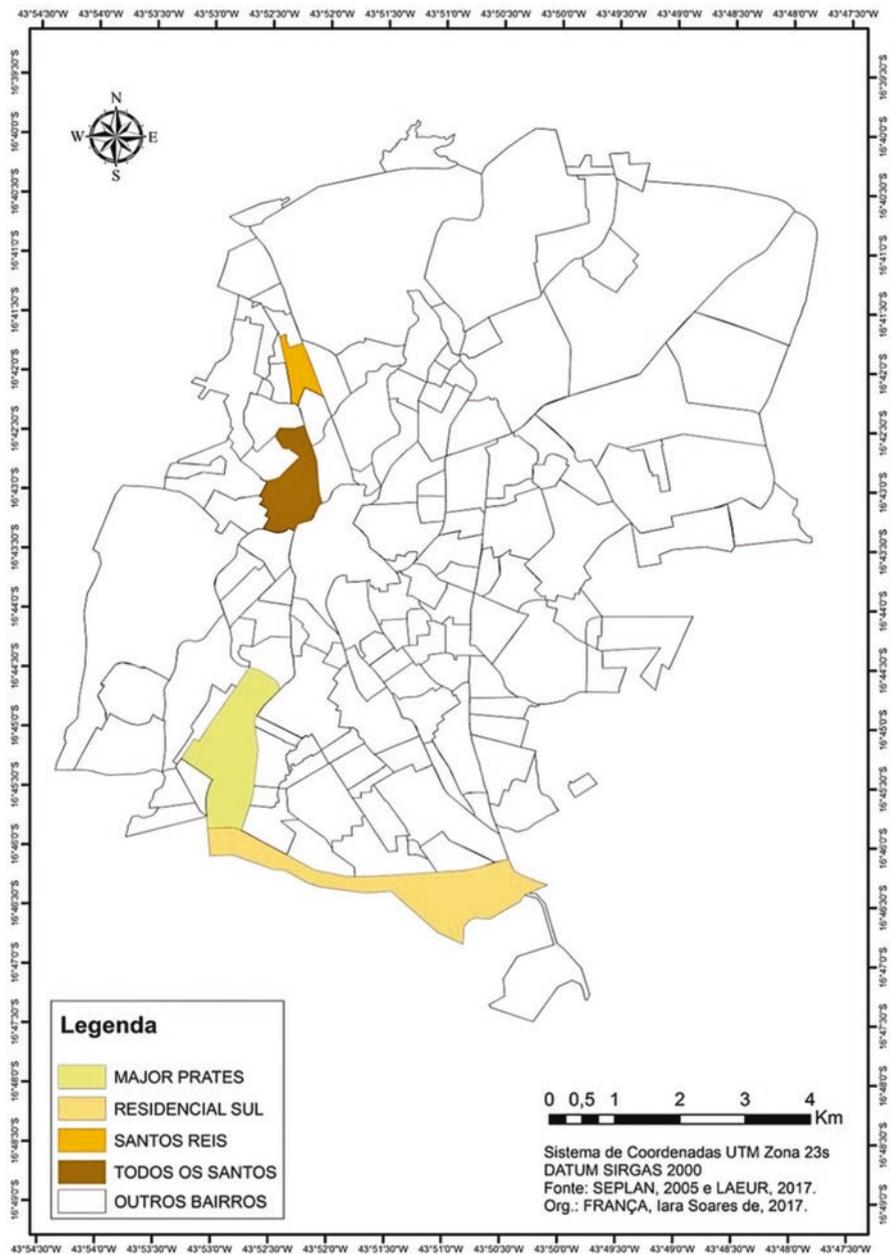


Fig. 5.21 Household survey of four neighbourhoods of Montes Claros organized by UNIMONTES and CODEV/EPFL in 2017. (Reproduced with permission from UNIMONTES)



Fig. 5.22 Inhabitants in one of the neighborhoods where the survey was done in 2016. (Reproduced with permission from Bolay)

advisory campaigns and, at worst, pure partisan propaganda. Here we find an example of top-down management, a far cry from participatory, bottom-up governance based on social involvement and the identification of shared priorities between the population and political representatives.

All those interviewed, specialists as dwellers, felt that urban planning should target the welfare of people from all walks of life, with an emphasis on alleviating the challenges faced by the poor and destitute, whose numbers are increasing and whose living conditions are gradually deteriorating (Fig. 5.23). A symptomatic

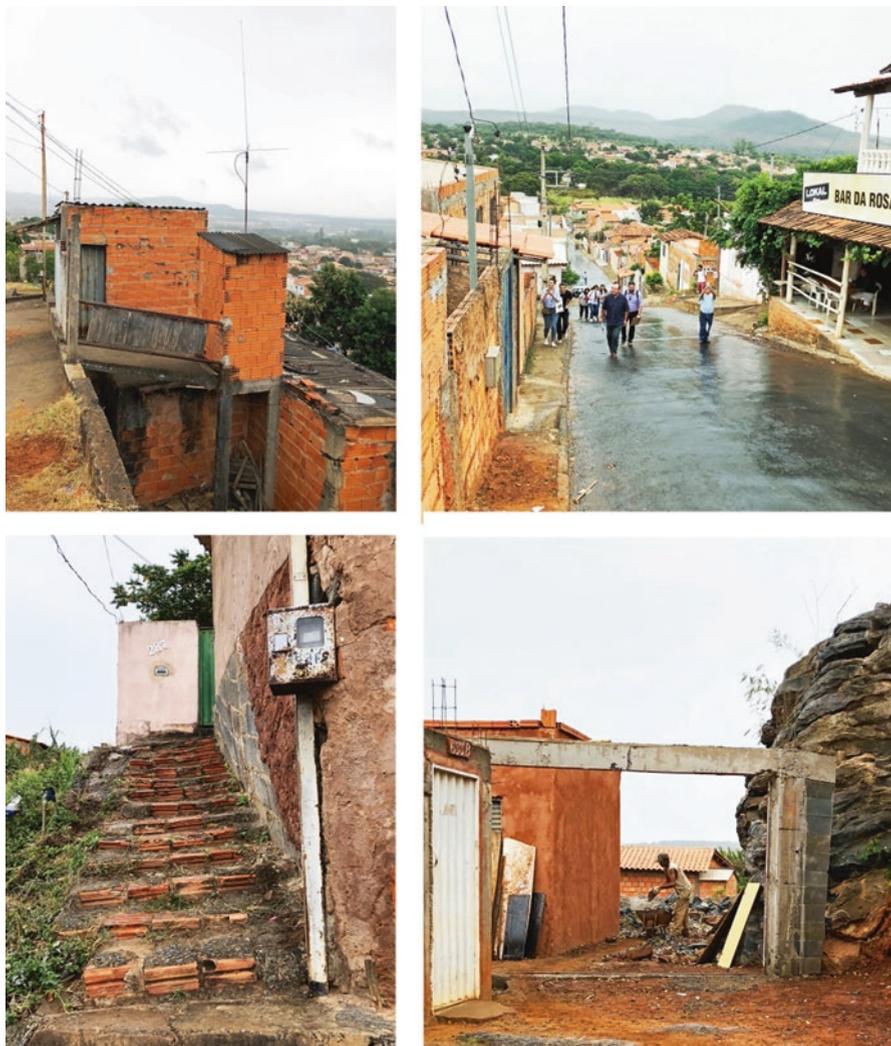


Fig. 5.23 Field visit on the occasion of the international seminar on intermediate cities organized by UNIMONTES and CODEV-EPFL in 2018. (Reproduced with permission from Bolay)

example of this is “street people.” We counted nearly 300 homeless people “living” in public areas in downtown Montes Claros. No municipal policy has been put in place for this highly vulnerable population (i.e. shelters, food banks, health services or care for mothers and children). The only initiatives designed on their behalf exist thanks to volunteers (religious groups in most cases). The same holds true for the 750–800 junk “recyclers,” who are among Montes Claros’s poorest and who manage to find enough to survive on in the 600 tons of waste the city produces each week.

Social issues are also part of the dichotomy between Montes Claros and its rural hinterland. For a total population of nearly 400,000 inhabitants, Montes Claros has 11 *Centros de Referência de Assistência Social (CRAS)*, which assist roughly 5000 individuals per year. The respondents felt this was insufficient, especially in the municipality's rural areas where there is only one CRAS for a population of some 20,000 inhabitants across 176 rural communities and over an area of nearly 3370 km² (versus the 97 km² of urban area). This flagrant proportion questions the organization of public services across the municipality.

Other societal aspects have mainly to do with the existing political system and modes of governance.

As in any democratic country, the alternation of power has repercussions both at the policy level and in the organization of administrative and technical services. The fact that the entire administrative framework changes with each change of Prefect negatively impacts Montes Claros's ability to function; instead of taking into account previous projections, the overwhelming tendency is to start from scratch in order for the new leadership to leave its mark. Moreover, in a short-sighted vision of profitability, collusion between political authorities, local elites and big industry offers no prospect for social, urban or environmental sustainability.

These comments and critiques reveal an urban society in crisis, faced with the changes taking place at the demographic, infrastructural, environmental and cultural levels. Respondents expressed some disappointment with regard to the inconsistencies in the regional planning process and their negative impact on the urban structure and social organization of the population, highlighting among other things the problem of mismanagement.

5.4.3 Long Live Planning: Players in Motion

Montes Claros's urban planning process offers an excellent opportunity to identify the key players in this dynamic and explore how governance is organized in the city and surrounding region.

Before reviewing our respondents' comments, we will briefly summarize how Montes Claros's government is organized as, according to the law, the entity responsible for urban planning but nonetheless answerable to official bodies, both at the state and at federal levels.

As mentioned earlier, the official birth of the city dates back to 1831, with its 2000 inhabitants. The name "Montes Claros" was that of one of the haciendas in the region. Until 1760, the land belonged to indigenous groups, but was later conquered by gemstone searchers and subsequently cleared by farm owners.

A municipal government divided between a legislative power (a chamber of 23 councillors elected for a period of 4 years²³) and an executive power (led by a prefect). In 2010, Montes Claros had 238,405 voters, a figure that has sharply increased

²³No details on the political division in the House

in recent years.²⁴ According to respondents, the city council consists of a planning council, an environmental council and a land issues council, to which outside experts are invited to voice their opinions in an advisory capacity.

The critiques lean in two directions:

First, the implementing of decisions made by the council falls on technical teams and administration members who have neither a guaranteed job in the long term, as in many cities (and thus are more dependent on the political leaders in power), nor attractive salaries. This can lead to conflicts between individuals and departments, which does little to foster continuity in the implementing of decisions.

Secondly, political changes in the city's administration have direct political repercussions on the continuity of urban alternatives, with each new mayoral team seeking to set itself apart from its predecessors and to "leave its mark".

As in all democracies, elected city council members are chosen largely on a partisan basis, without necessarily having any proven policy experience or technical skills in the area in question. As such, council members often find themselves in situations of dependence, both in terms of their party and with respect to executive power.

The result is a lack of autonomy for the local legislation relative to the city government and a lack of transparency in the choices made by the latter. To remedy this situation it is imperative to clarify the rules, state the prerogatives of the council versus those of the city government more clearly, and make decisions involving the city's future more explicit and public.

Montes Claros's current master plan dates from 2001 but is, in fact, a copy of that of Belo Horizonte, the capital of Minas Gerais. As such, no real consideration made for the specificities of Montes Claros. In reality, what still determines urban planning in Montes Claros is the master plan implemented in 1970, which itself was preceded by a plan developed in 1954. Brazilian law requires that every city have a master plan and sector plans for roads, accessibility, drainage and sanitation. For respondents, the main issue here is that these plans should not serve as simple models simply to be replicated without discernment. Rather, they should address the specific challenges of each city by reflecting the views and needs of their users. This explains why the process is extremely important. It was developed by the Prefecture (the local government) since 2014, in cooperation with three regional academic institutions (FIP, UNIMONTES and FUNORTE²⁵). The collaboration took the form of weekly meetings on the topics addressed by the plans, in conjunction with all the municipal secretariats. These meetings have led to proposals on future land tenure law and an updating of the city's zoning. Based on these documents, an online debate²⁶ was launched and open meetings held with the public to gather critiques and suggestions. From these exchanges should emerge a set of guidelines that will

²⁴According to the Tribunal Eleitoral Regional (<http://www.tre-mg.jus.br/eleicoes/eleicoes-anteriores/eleicoes-2010/informacoes-para-a-imprensa/eleitorado>, accessed 28 May 2019).

²⁵Faculdades Integradas Pitágoras – FIPMoc, Universidade Estadual de Montes Claros, e Faculdades Unidas do Norte de Minas.

²⁶There is no clear evidence of this online debate on the City of Montes Claros's official website.

be revisited by the municipality and its academic partners. A conference attended by numerous professionals and academics based on this collaboration was held in May 2015. The main theme: “Urban planning, renewable energy and shared implementation: sustainable cities.”

In September 2015, the municipal council of Montes Claros studied the updated master plan, which included 13 guidelines: health, social protection, social development, land use, environment, solid waste management and cleanliness, economic development, education, culture, sports and leisure, urban mobility, infrastructure and sanitation, roads and public lighting²⁷ – an impressive list indeed. Once the document is finalized, potential crossover and complementarity among the topics will be identified and overall coherence ascertained. Certain issues raised during the discussions, such as taxes and taxation, public security, energy and historical heritage, were eliminated from the list.

According to information from UNIMONTES, this preliminary plan, designed by Montes Claros technicians, was to be submitted for public review during the course of three public hearings, which took place in October 2015, in the central districts covered by the plan. The first hearing, opened by the *prefect*, provided a very descriptive overview of the plan, without topical hierarchy. The second focused on social and health issues, and the third on land and urban land uses. However, there is no indication of the number of people who attended these sessions. The documents posted online by the Municipality still lack a reference text that introduces the 13 sector chapters and lays out the authorities’ vision for the coming years in terms of outlook, objectives, priorities, implementation schedule and expected results. Article 1 of the 2921 Act of August 27, 2001²⁸ (currently in effect) offers several key elements in its design and objectives: the plan is considered the basic tool for the physical, social, economic and administrative aspects of urban development policy that targets sustainable development and the community’s aspirations through government action and private initiatives.

It is therefore not a participatory process with regard to the master plan, but rather served to validate the decisions already made by the authorities as reflected in the provisional plan. However, the process raises many issues. To begin, it is impossible to discern the authorities’ medium- and long-term vision, which would be helpful in streamlining the urban planning. Furthermore, the authorities’ perception of Montes Claros is biased as it only takes into account the dense areas in the city centre. The rapidly growing outskirts and suburban areas are still disconnected from the rest of the city and are poorly integrated in this prospective exercise. In the future, Montes Claros must be seen as an urban hub for northern Minas Gerais, in a kind of urban/rural/interurban interplay that involves environmental, social, educational and housing issues. All neighbourhoods and people cannot be dealt with in the same way; specific needs and priorities must be taken into account.

²⁷<http://www.montesclaros.mg.gov.br/planodiretor/planodiretor2015.htm> (Accessed 26 May 2019).

²⁸Also on the municipality’s web page.

While there is undeniably cooperation with national and regional authorities in the implementation of the new plan, many respondents felt planning does not really consider residents' opinions or seek ways to understand their wishes and viewpoints. Instead of a top-down process involving outside experts – in itself is not a reprimandable approach – the new plan would start from the needs and concerns of neighbourhoods and their inhabitants, which urban priorities would then reflect. It would also be beneficial for academic partners to be seen as producers of scientific works whose results may contribute to the debate and influence planners and policy makers.

The lack of integration and democratic participation are indirectly reflected in the “assistance-oriented” political culture: many programs assist vulnerable populations (*bolsa familiar*, FIES – Fomento ao programa de governo do ensino superior) but are inherently designed as emergency safeguards and therefore do not resolve long term funding problems.

A final, yet critical, considering in the current process is that, once completed, the master plan should be supported by enabling legislation. Without it, the plan cannot be fully functional.

5.5 Regional Integration. Towards True Urban Planning

With a population of nearly 400,000 inhabitants and a municipal budget of 368 million dollars in 2016 Montes Claros is a perfect example of an intermediary Brazilian city. While it would be incorrect to describe it as a poor city, the urban population is highly segregated; one third of the city's population is poor, and the wealthy – who represent 20% of the population – control 66% of the local wealth. This fragmentation of the social fabric is also reflected in the more than 140 unregulated neighbourhoods and 50,000 people living in makeshift housing conditions, again resulting in extreme differences in income (400–1200 R\$ per month in the city centre to 30–80 in poor neighbourhoods).

As Estrad Leita and Soares Silva de Melo (2017:130) point out, “We understand that urban growth is heterogeneous. It has occurred in a disorderly, uneven way with socio-economic segregation in which privileged social groups enjoy urban areas with functioning infrastructures while another segment of the population has settled in the parts of the city with great shortages and social problems.” In this respect, it should be added that Montes Claros continues to grow demographically, with 1.43% annual growth between 1991 and 2000, and 1.66% between 2001 and 2010, with a municipal urban population level of 95.17%.²⁹ And according to respondents, this trend continues, as reflected – as previously stated – by an explosion of new housing developments for all categories, from federally-funded social housing to exclusive “gated communities” and luxury villas on the slopes of neighbouring hills. This urban growth also goes hand in hand with the fragmentation of the territory. In the

²⁹http://atlasbrasil.org.br/2013/pt/perfil_m/montes-claros_mg (Accessed 26 May 2019).

north of the city near the industrial zone one finds peripheral urban areas that are home to low-income families (Batista and Pereira 2017; Soares Santos Brandão and Toneli da Silva 2016). More recently – since the 2000s – poor families have been settling in social housing developments built by the federal government, and not merely social segregation as the aforementioned authors propose.

In addition to these socio-economic and territorial disparities, two other major problems exist. The first is the depletion of natural resources due to advanced deforestation and periodic flooding of central neighbourhoods, a problem that largely results from the construction of new housing developments (social and luxury), wherein the environmental impact of these forms of urbanization, which have become increasingly popular in the past 20 years, are not fully considered. The second is the lack of regional integration of the municipality's rural hinterlands. These areas, where services and telecommunications are still rudimentary, are gradually being abandoned in favour of the urban centre and new suburbs.

To address this situation, the local authorities are in the process of developing a new master plan. The Brazilian Constitution, updated in 2015, specifies in Articles 182 and 183³⁰ that “urban development policy led by the municipal government, according to the general guidelines established by the law, is designed to order the full development and social functions of the city, and to ensure the welfare of its people.” A master plan approved by the City Council is mandatory for all cities with more than 20,000 inhabitants should serve as an instrument for enforcing federal law adapted to the local context in the form of municipal laws (following the precepts of the federal law) to resolve issues relative to taxes on land, real estate value, parcelling and expropriation.

In addition, there is also a constitutional instrument in the form of a law regulating the status of the city in Brazil (Senado Federal 2008). The first Article of this federal document states that public standards for social welfare will regulate the use of urban land for the good, security and well-being of citizens and environmental balance. As such, the plan aims to create a sustainable city, including a right to urban land, housing, infrastructure, services, transport and employment for everyone. This requires democratic management and the involvement of the people and associations in the formulating, implementing and supporting of plans, urban development programs and other projects.

The project of urban planning, launched in 2014, is extremely important considering the transformation Montes Claros has undergone in recent decades and the need rethink the municipal territory and surrounding region vis-à-vis population growth and economic change. Rural areas are depopulating as the urban population gradually increases. Furthermore, economically speaking, Montes Claros has arguably experienced its third revolution. Until mid-1900s it was primarily a centre for the agro-processing industry and agricultural trade before slowly becoming a centre for industry – which it is still today – and home to many companies. In the past 20 years, Montes Claros has come to be seen as a service hub for the surrounding

³⁰Constituição da República Federativa do Brasil Atualizada até a Emenda Constitucional, No. 88, May 72,015 (http://www.planalto.gov.br/ccivil_03/constituicao/constituicao.htm).

area, particularly as regards higher education institutions and pre-eminence in the health sector. Its many commercial enterprises also offer a wide range of services. However, as incomes rise, social segregation increases. Today, the municipality is facing the issue of social exclusion, with an increasing proportion of the urban population living in economic insecurity and relative marginalization, both geographically and socially. These are key issues for a comprehensive urban plan whose aim is to not only act spatially.

This ongoing process – which is nearing its completion – may be seen as an associative process, but not a veritably participatory one. City Hall has indeed teamed up with private agencies and representatives from different sectors (universities, representatives from the economic community, etc. and the ad hoc committees of the City Council), but without including the public in the initial phase of democratic debate. It is only now in the final phase that the provisional results, which will determine the guidelines for future planning, will be presented and discussed in the more urbanized areas of the city. This exclusive approach has received considerable criticism from “outsiders”, particularly volunteer organizations and social groups, who were not invited to participate in the process from the beginning. For them, this denotes a certain authoritarianism on the part of the public authorities (especially the Mayor, who has close ties with business and industry circles), who have not seized the opportunity the new plan affords to engage in an open dialogue with the public to better understand its needs and desires. While some scepticism was noted among those interviewed, it is still too early to judge the impact. Rather, what counts is the impact these debates will have on the final product, which must be approved not only by the local authorities but by the State as well. It remains for the government to prove its willingness to change its course of action by acknowledging the reactions that arise from these neighbourhood forums, and develop proposals include outlying areas and their populations in economic growth and social redistribution dynamics.

In conclusion, though Montes Claros cannot be described as a “poor city”, it can be described as a medium-sized city that, like many other cities in Brazil, is experiencing the kind of unbalanced growth that is typical of what one can see in many intermediate cities around the world. Brazil has become one of the most segregated countries in the world, an emblem of economic globalization in a growing struggle between global regions and cities (nationally and internationally) and strategies to improve social cohesion and cultural/economic integration politically and in terms of urban planning. Urban planning is not merely a technical or spatial endeavour; it must aim to help cities and regions adapt to larger context in order to respond to the needs of all of their people through projections over time.

Returning to our definition of the “intermediary city” (Bolay and Kern 2019; Bolay and Rabinovich 2004) and the objectives of urban and regional planning that is tailored to the context both spatially and socially, we concluded that the first goal must be eliminating poverty and insecurity among vulnerable segments of the society, through comprehensive planning that promotes the integration and inclusion of new urban residents and all social groups.

Urban planning of intermediary cities is particularly complex for the reasons outlined in our paper. As in the case of Montes Claros, these cities face issues that must resolve if they are to succeed in promoting the type of sustainable development targeted by Brazilian legislation.

The first key challenge is the extremely rapid population growth these cities are facing. In the case of Montes Claros, which serves as a multi-dimensional activities hub for the northern part of the state, the intense and continuous flow of rural migrants has led to the creation of new subdivisions on the city fringes. These subdivisions are poorly equipped and poorly integrated in the urban community. It is therefore imperative that local authorities endeavour to integrate this dimension in the current urban planning. Otherwise, spatial fragmentation and social segregation are likely to continue to grow.

The second issue Montes Claros must address – like most intermediary cities that act as employment/service centres for the surrounding rural area – is that of spatial organization, which must be designed in coherence with this rural-urban interface by understanding the various dimensions that impact both rural and urban populations, as well as the natural and built environments. The public authorities in Montes Claros must quickly address the environmental problems the city faces, be it water (supply and flooding), deforestation or contamination (particularly through a more streamlined management of household/industrial waste).

The third key element is that of citizen participation in decision-making processes, especially in defining and implementing new urban planning. We noted that the current process has tended to favour certain stakeholders in the designing of this new urban planning phase (economic representatives, professional associations, universities, etc.). This stems from the fact that the process was not designed using a bottom-up approach designed to promote the participation of all residents in all neighbourhoods, to identify problems and their desires in order to integrate them in the planning process. Analysis by experts would also help in determining priorities by considering the municipality's perspective from all areas: downtown, peri-urban and rural. Failing to do so is likely to both alienate people from political life and result in a spatial plan that is incoherent and non-inclusive.

Rapidly growing, intermediary cities in emerging countries like Brazil, or in developing countries, are once again on the agendas of national governments and international agencies. However, the challenge – beyond rhetoric and sweeping principles – is to better define what intermediation means exactly, in order to translate it into analytical tools for public action.

References

- ACI (Associação Comercial, Industrial e de Serviços de Montes Claros) (2012) Montes Claros. Potencialidades. ACI, Montes Claros
- Adam B (2006) Medium-sized cities in urban regions. *Eur Plan Stud* 14(4):547–555. <https://doi.org/10.1080/09654310500421220>

- Aguayo-Te'llez E, Muendler M-A, Poole JP (2010) Globalization and formal sector migration in Brazil. *World Dev* 38(6):840–856. <https://doi.org/10.1016/j.worlddev.2010.02.018>
- Amorim F, Serra ORV (2001) Evolução e perspectivas do papel das cidades médias no planejamento urbano e regional. In: Andrade TA, Serra RV (eds) *Cidades médias brasileiras*. IPEA, Rio de Janeiro, pp 1–34
- Appert M (2008) Ville globale versus ville patrimoniale ? Des tensions entre libéralisation de la skyline de Londres et préservation des vues historiques. *Revue Géographique de l'Est* 48(1–2) (online). <http://rge.revues.org/1154>. Accessed 26 May 2019
- Batista RP, Pereira AM (2017) Expansão urbana e mercado imobiliário em cidades médias: O caso de Montes Claros (MG). Communication in V Colóquio Cidade e Rigidez. Sociedade e Ambiente rurais-urbanas e suas tecnologias. PPGE UNIMONTES, pp 22–250, November 2017
- Birkmann J, Welle T, Solecki W, Lwasa S, Garschagen M (2016) Boost resilience of small and mid-sized cities. *Nature*, international weekly journal of science 537(7622). <https://www.nature.com/news/boost-resilience-of-small-and-mid-sized-cities-1.20667>. Accessed 26 May 2019
- Bolay J-C, Kern AL (2019) Intermediary cities. In: Wiley-Blackwell encyclopedia of urban and regional studies. Wiley-Blackwell, Hoboken
- Bolay J-C, Rabinovich A (2004) Intermediary cities in Latin America, risks and opportunities of coherent urban development. *Cities, Int J Urban Policy Plan* 21(5):407–421. <https://doi.org/10.1016/j.cities.2004.07.007>
- Bolay J-C, Rabinovich A, de la Porte A (eds) (2004) *Interfase urbano-rural en Ecuador, hacia un desarrollo territorial integrado*. Cahier du LaSUR 5, LaSUR/INTER/ENAC/EPFL, Lausanne
- Castañeda F, Cloke J, Brown (2011) Latin American cities in globalization. In: Taylor PJ, Pengfei N, Derudder B, Hoyler M, Huang J, Witlox F (eds) *Global urban analysis: a survey of cities in globalization*. Earthscan, London/Washington, DC, pp 170–186
- Cohen B (2006) Urbanization in developing countries: current trends, future projections, and key challenges for sustainability. *Technol Soc* 28:63–80. <https://doi.org/10.1016/j.techsoc.2005.10.005>
- Cohn S (2012) *Employment and development under globalization: state and economy in Brazil*. Springer, New York/London
- de Oliveira HCM (2009) *Cidades médias: contribuição para o debate*. XI simposio nacional de geografia urbana. Universidade de Brasília, Brasília
- Esdras Leita M (2010) Favelas em cidades médias: Algumas considerações. *Caminhos de Geografia* 34:162–173. <http://www.ig.ufu.br/revista/caminhos.html>. Accessed 26 May 2019
- Esdras Leita M, Pereira AM (2005) *Expansão territorial e os espaços de pobreza na cidade de Montes Claros*. Anais do X encontro de geógrafos de America Latina – 20 a 26 de março de 2005. Universidade de São Paulo, São Paulo
- Estrad Leita M, Soares Silva de Melo MA (2017) Juventudes e espaço urbano: uma análise geográfica na cidade de Montes Claros/MG. *Caderno de Geografia* 27(48):123–141. <https://doi.org/10.5752/p.2318-2962.2016v27n48p123>
- Federal S (2008) *Estatuto da Cidade*. Dispositivos Constitucionais. Lei n° 10.257, de 10 de julho de 2001. Vetos Presidenciais. Lei n° 6.766, de 19 de dezembro de 1979. Lei n° 8.245, de 18 de outubro de 1991. Decreto n° 5.790/2006. Índice Temático. 3a Edição. Senado Federal, Brasília
- Feitosa FF, Bao LQ, Vlek PLG (2011) Multi-agent simulator for urban segregation (MASUS): a tool to explore alternatives for promoting inclusive cities. Center for Development Research (ZEF), University of Bonn, Bonn
- Fernandes E (2007) Implementing the urban reform agenda in Brazil. *Environ Urban* 19(1):177–189. <https://doi.org/10.1177/0956247807076724>
- Ferré C, Ferreira FHG, Lanjouw P (2012) Is there a metropolitan bias? The relationship between poverty and city size in a selection of developing countries. *World Bank Econ Rev* 26(3):351–382. <https://doi.org/10.1093/wber/lhs007>

- Frick SA, Rodriguez-Pose A (2016) Average city size and economic growth. *Camb J Reg Econ Soc* 9(2):301–318. <https://doi.org/10.1093/cjres/rsw013>
- Gomez SP, Lamberts R (2009) O estudo do clima urbano e legislação urbanística: considerações a partir do caso de Montes Claros. *Ambiente construído* (online) 9(1):73–91
- Gonçalves Silva F (2015) Cartografia social do espaço urbano de Montes Claros/MG: para aprender na cidade e apreender a cidade. *Revista OKARA: Geografia em debate* 9(1):35–49. <http://www.periodicos.ufpb.br/ojs2/index.php/okara/article/view/23869>. Accessed 26 May 2019
- Google Maps (2017) “Monte Claros” <https://www.google.com/maps/place/Montes+Claros,+State+of+Minas+Gerais,+Brazil/@-16.7279159,-43.886105,13z/data=!4m5!3m4!1s0xab54b430dce6f5:0x231bf948b0041bbb!8m2!3d-16.7286406!4d-43.8582139>. Accessed 28 Nov 2017
- IBGE (Instituto Brasileiro de Geografia e Estatística) (2010) Censo 2010. www.ibge.gov.br/. Accessed 26 May 2019
- Keiner M, Zegras C, Schmid WA, Salmerón D (2004) From understanding to action – sustainable development in medium-sized cities in Africa and Latin America. Springer, Paris. <https://doi.org/10.1007/978-1-4020-2921-9>
- Klaufus C (2010) Watching the city grow: remittances and sprawl in intermediary Central American cities. *Environ Urban* 22(1):125–137. <https://doi.org/10.1177/0956247809359646>
- Kunzmann KR (2010) Medium-sized towns, strategic planning and creative governance. In: Cerreta M et al (eds) *Making strategies in spatial planning, urban and landscape perspectives* 9. Springer, Paris/Heidelberg/New York/Dordrecht/London, pp 27–45. https://doi.org/10.1007/978-90-481-3106-8_2. <http://www.observatoriogeograficoamericalatina.org.mx/egall10/Geografiasocioeconomica/Geografiadelapoblacion/29.pdf>. Accessed 26 May 2019
- McCann P (2008) Globalization and economic geography: the world is curved, not flat. *Camb J Reg Econ Soc* 2008(1):351–370. <https://doi.org/10.1093/cjres/rsn002>
- Município de Montes Claros, procuradoria jurídica (2009). Ley N° 4.198, de 23 de dezembro de 2009. Dispõe sobre o uso de ocupação do solo no Município de Montes Claros e dá outras providências. Montes Claros: Município de Montes Claros
- Município de Montes Claros, procuradoria jurídica (2011). Ley N° 4.428, de 12 de novembro de 2011. Altera o zoneamento urbano estabelecido pela lei municipal N. 4.198 de 23 de dezembro de 2.009, e dá outras providências. Montes Claros: Município de Montes Claros
- Município de Montes Claros, procuradoria jurídica (2015) Ley N° 4.821 de 05 de outubro de 2015. Altera o zoneamento urbano estabelecido pela lei municipal N. 4.198 de 23 de dezembro de 2.009, e dá outras providências. Montes Claros: Município de Montes Claros
- Nadou F (2010) La Notion de ‘Villes Intermédiaires’, Une Approche Différenciée Du Rôle Des Villes Moyennes: Entre Structuration Territoriale et Spécificités Socio-économiques, pp 1–19. <https://halshs.archives-ouvertes.fr/halshs-00596204/>. Accessed 26 May 2019
- National Research Council (2003) *Cities transformed: demographic change and its implications in the developing world*. National Academies Press, Washington, DC
- Oliveira HCM, Ribeiro Soares B (2014) Cidade média: Apontamentos metodológicos e tipologia. *Caminhos de Geografia* (online) 15(52):119–133. https://scholar.google.com.br/citations?view_op=view_citation&hl=pt-BR&user=GRTWa-QAAAAJ&citation_for_view=GRTWa-QAAAAJ:roLk4NBRz8UC. Accessed 26 May 2019
- Polidoro M, De Lollo JA, Vizintim FBM (2012) Environmental impact of urban sprawl in Londrina, Paraná, Brazil. *J Urban Environ Eng* 5(2):73–83. <https://doi.org/10.4090/juee.2011.v5n2.073083>
- Prefeitura de Montes Claros (2015) Aspectos gerais. Prefeitura, Montes Claros. <http://www.montesclaros.mg.gov.br>. Accessed 26 May 2019
- Roberts BR (2005) Globalization and Latin American cities. *Int J Urban Reg Res* 29(1):110–123. <https://doi.org/10.1111/j.1468-2427.2005.00573.x>
- Robinson J (2002) Global and world cities: a view from off the map. *Int J Urban Reg Res* 26(3):531–554. <https://doi.org/10.1111/1468-2427.00397>
- Romanos M, Auffrey C (2002) Managing intermediary size cities: sustainable development in a growth region of Thailand. Springer, Paris/Heidelberg/New York/Dordrecht/London

- Rossi EC, Beaverstock JV, Taylor PJ (2007) Transaction links through cities: 'decision cities' and 'service cities' in outsourcing by leading Brazilian Firms. *Geoforum* 38(4):628–642. <https://doi.org/10.1016/j.geoforum.2006.11.005>
- Santos Martins A, Esdras Leite M (2015). Análise do crescimento das favelas da cidade de Montes Claros – MG por imagens de alta resolução espacial. *Comunicação in Anais XVII Simpósio Brasileiro de Sensoriamento Remoto – SBSR, João Pessoa-PB, Brasil, 25–29 April 2015: INPE*
- Sassen S (2001) *The global city: New York, London, Tokyo*. Princeton University Press, Princeton
- Satterthwaite D, Tacoli C (2003) The urban part of rural development: the role of small and intermediary urban centres in rural and regional development and poverty reduction. IIED, London
- SERENCO (Serviços de Engenharia Consultiva) (2015) Plano municipal de saneamento básico referente a prestação dos serviços de abastecimento de água potável, de esgotamento sanitário, de drenagem e manejo das águas pluviais urbanas e de limpeza urbana e manejo de resíduos sólidos de Montes Claros. SERENCO, Montes Claros
- Silva Gomes F (2007) Discursos contemporâneos sobre Montes Claros: (Re)estruturação urbana e novas articulações urbano-regionais. *Escola de Arquitetura da UFMG, Belo Horizonte*
- Smets P, Salman T (2008) Countering urban segregation: theoretical and policy innovations from around the globe. *Urban Stud* 45(7):1307–1332. <https://doi.org/10.1177/0042098008090676>
- Soares PR (2006) Cidades médias e aglomerações urbanas: a nova organização do espaço regional no Sul do Brasil. In: Sposito ES, Sposito MEB, Sobarzo O (eds) *Cidades médias: produção do espaço urbano e regional*. Expressão Popular, São Paulo, pp 347–364
- Soares Costa da Silveira YM (2005) Montes Claros – Centro polarizador no Norte de Minas: Um estudo de sua periferização. *Communication à Anais do X encontro de Geógrafos de America Latina*. Universidade de São Paulo, São Paulo. <https://www.google.com.br/url?sa=t&rct=j&q=&esrc=s&source=web&cd=5&ved=0ahUKEwj0Im02NTMAhXKg5AKHds4AeMQFgg7MAQ&url=http%3A%2F%2Fobservatoriogeograficoamericalatina.org.mx%2Fegal10%2FGeografiasocioeconomica%2FGeografiaturistica%2F24.pdf&usq=AFQjCNERMe7E-8plZkBEHk91RVyBIK6q4Q&cad=rja>. Accessed 26 May 2019
- Soares de França I (2012) Aglomeração urbana descontínua de Montes Claros/MG: Novas configurações socioespaciais. *Uberlândia, Instituto de Geografia/UFU, Montes Claros*. <http://hdl.handle.net/123456789/1247>. Accessed 26 May 2019
- Soares de França I (2015) O processo de verticalização urbana em cidades médias e a produção do espaço em Montes Claros/MG. *Boletim Gaúcho de Geografia* 42(2):584–610. <http://www.seer.ufrgs.br/index.php/bgg/article/view/52944/34038>. Accessed 26 May 2019
- Soares de França I, Ribeiro Soares B (2007a) Expansão urbana em cidades médias: uma reflexão o partir do núcleo e da área central de Montes Claros no Norte de Minas Gerais. *Geo UERJ* 2(17):47–63. <http://www.e-publicacoes.uerj.br/index.php/geouerj/issue/view/143>. Accessed 26 May 2019
- Soares de França I, Ribeiro Soares B (2007b) O espaço intra-urbano de uma cidade média e suas centralidades: O exemplo de Montes no Norte de Minas Gerais. *Caminhos de Geografia* 8(24):75–94. <http://www.seer.ufu.br/index.php/caminhosdegeografia/article/view/15571>. Accessed 26 May 2019
- Soares de França I, Soares de Almeida MI, Trindade Queiroz CG, Ramos Meireles SC, Júnio Sampaio D (2014) *Cidade vertical: Políticas públicas e os territórios da política*. Comunicação in IV Congresso em Desenvolvimento Social Mobilidades e Desenvolvimentos. Universidade Estadual de Montes Claros, Montes Claros
- Soares de França I, Marília Pereira A, Leite Maderos D, Periera Souto IV (n.d.) A centralidade de Montes Calros enquanto cidade média no norte de Minas Gerais: Considerações sobre os fluxos populacionais nos serviços de educação e saúde. *Unimontes, Montes Claros*
- Soares de Souza VC, Soares de França I (2011) Habitação e regularização fundiária em Montes Claros. *OBSERVATORIUM: Revista Eletrônica de Geografia* 3(8):43–66. <http://www.observatorium.ig.ufu.br/dezembro2011.htm>. Accessed 26 May 2019

- Soares Gonçalves JC (2004) The tall building and the city: the discussion about urban sustainability. *Urban Des Q* 91:14–15. <http://www.udg.org.uk/publications/urban-design-journal-issue/urban-design-91-summer-2004>. Accessed 26 May 2019
- Soares Santos Brandão S, Toneli da Silva W (2016) Configuração do espaço urbano da cidade de Montes Claros-MG após 1970: novas centralidades. *Humanidades* 5(2):62–73. www.revistahumanidades.com.br/arquivos_up/artigos/a106.pdf. Accessed 26 May 2019
- Sposito MEB (2001) As cidades médias e os contextos econômicos contemporâneos. In: Sposito MEB (ed) *Urbanização e cidades: perspectivas geográficas*. Presidente Prudente. GASPERR/FCT/UNESP, Sao Paulo, pp 609–643
- Taylor P, Derudder B, Saey P, Witlox F (2007) *Cities in globalization: practices, policies and theories*. Routledge, London
- UCLG (Global Network of Cities, Local and Regional Governments) (2013) *Planning for sustainable urban development of intermediary cities*. UCLG, Barcelona. https://issuu.com/uclgclg/docs/eng_frame_document_i_cities_uclg_il. Accessed 26 May 2019
- UCLG (Global Network of Cities, Local and Regional Governments) (2016) *Intermediary cities in the new urban agenda*. UCLG, Barcelona. <http://www.uclg.org/en/media/news/intermediary-cities-new-urban-agenda>. Accessed 26 May 2019
- United Nations, (United Nations, Department of Economic and Social Affairs, Population Division) (2014) *World urbanization prospects. The 2014 revision*. United Nations, New York
- Veja (2011) *Especial Cidades*. N° 146, 2 de Novembro, 2011. Abril Comunicações S.A, Sao Paulo. <http://viverascidades.blogspot.com.br/2011/11/revista-veja-especial-cidades-8-ultimo.html>. Accessed 26 May 2019
- Wikipedia (2019) “Pampa”. Last modified 6 April 2019. http://en.wikipedia.org/wiki/Montes_Claros. Accessed 26 May 2019

Open Access This chapter is licensed under the terms of the Creative Commons Attribution 4.0 International License (<http://creativecommons.org/licenses/by/4.0/>), which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license and indicate if changes were made.

The images or other third party material in this chapter are included in the chapter’s Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the chapter’s Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder.

