Income Inequality in La Réunion 1960-2014: Long-Run Trends and International Comparison*

Yajna Govind[†] **Advisor:** Thomas Piketty **Referee:** Facundo Alvaredo

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Abstract

This paper studies the evolution of income inequality, more specifically the shares of income accruing to the richest in La Réunion, covering the period 1960 to 2014, using income tax data. The results reveal that La Réunion has experienced a strikingly high level of inequality, especially in 1960. It has witnessed a rapidly declining trend in its top income shares since the mid-1980s to the 2000s. The top 1% shares went down from around 30% in 1960 to 15% of total income in the mid-1980s and further down to 10% from 2004 onwards. Similarly, the top 10% share decreased from around 60% in 1986 to around 40% in the recent decades. I explore the possible consequences that high civil servants' wages combined with high private sector income accruing to a small elite on one hand, and low wages for the rest of the population on the other, have had on the level of inequality throughout the period. These results are put in an international perspective by conducting a thorough comparative study with Mauritius and other socially divided countries. La Réunion has had a consistently higher level of inequality compared to France and Mauritius but is comparable to the top income shares observed in South Africa and Algeria for some periods. I also explore the potential driver of high inequality in a post-colonial setting which is the presence of an elite existing since colonial times.

JEL Classification: D63, H20, N30

Keywords: Inequality, Top incomes, La Réunion, France, Mauritius, Taxation

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[†] Contact: yajna.govind@gmail.com, Paris School of Economics

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1. Introduction

1.1 Literature Review

The study of the distribution of top income has attracted much attention in the realm of economics. There has been a marked revival of interest in this topic in the recent decades, with the work of Piketty (2001, 2003) which uses tax data to estimate the long-run distribution of top incomes in France. This research strategy to analyse income inequality is not entirely contemporary and its origins can, in fact, be traced back to the pioneering work of Kuznets (1953), later adopted by Atkinson and Harrison (1978). The growing current concern over the rising income inequality in the world has given rise to a wave of country-level studies spanning across five continents covering a long period of time. Most of the literature finds a U-shaped experience of the trend in the top percentile shares, with a decline in the post-war decades followed by increases in recent decades. With a coordinated approach, Atkinson and Piketty (2007, 2010) put together a collected series of the works on top incomes from a global perspective. This collaborative research process has culminated into the consolidation of an ambitious project of a comprehensive online database, The World Wealth & Income Database (WID)³, in 2011. All these work have made use of income tax tabulations and national accounts and applied similar methodology, namely Pareto Interpolation.

The WID series has been rapidly expanding to cover both developed and developing countries despite obstacles posed by the paucity of data in the latter case. This has constrained most of the research to observe only the evolution of top incomes in those countries. As of now, the database includes over thirty countries and there is a continued effort to achieve an extensive time and geographical coverage with an attempt to include inequality series at the sub-national level⁴. In fact, while there has been extensive work on the evolution of income inequality at the national level in France, little research has focused on the regional levels and far fewer studies have been conducted on the overseas departments of France. It is in this line that the present paper examines the top incomes in La Réunion, an overseas department of France. This being said, despite being a departmental-level analysis, the study of top incomes in La Réunion is no less than analysing another country altogether, given its geographical and cultural difference from metropolitan France.

The interest in examining the trends in inequality in this specific department of France draws on various motivations. Firstly, it complements the literature on inequality in former colonies. Atkinson (2014) studies the distribution of top incomes in former British colonies in Africa and identifies different factors that led to the current evolution of inequality, namely the presence of a colonial elite and the power of the

³ See http://wid.world

⁴ This has only been achieved in the case of the U.S and China

ruling class, the evolution of the colonial income concentration, and the legacy at the time of independence. Similarly, there have been studies on the evolution of income inequality in colonial societies namely French Algeria, Cameroon, Indochina and Tunisia and more recently, British India (Alvaredo et al., 2016, 2017⁵). While this paper does not directly observe the income concentration in La Réunion before its departmentalisation, it nevertheless adopts a qualitative approach to shed light on the link between the colonial legacy and the ensuing levels of inequality.

This analysis is driven by the upsurge over the disparities between mainland France and its overseas departments. This growing concern stems from the dismal situation of the poorer section of the population in those regions and the stark levels of inequality compared to mainland France, as put forward by the French National statistical institution, Institut National de la Statistique et des Etudes Economiques (INSEE) study (Jonzo, 2009). In fact, based on the Gini Index⁶ in 2011, La Réunion notoriously ranks first (0.53) as the most unequal department of France, overtaking Paris (0.50), the most unequal department in the mainland, followed by Martinique (0,47) compared to an index of 0,31 in metropolitan France (Maurin and Bernier, 2013). Not only are the overseas department plagued by high levels of inequality but their levels of poverty are also sought to be higher than the mainland. This alarming situation naturally calls for in-depth analysis of the trends in inequality in those regions. Only recently, a nationwide strike amid mounting protests over crime, economic difficulty and the poor quality of social services, has erupted in French Guiana. France recognises the plights of these far-flung territories. In fact, the recent implementation of action plans such as the enactment of the bill on "real equality for overseas department" and "Mayotte 2025" are signs of acknowledgement of the elephant in the room.

Given these peculiarities, La Réunion is undeniably an interesting case study in itself. Nevertheless, this paper goes further by drawing a comparison in the trends in income inequality with the neighbouring island, Mauritius. Given their historical similarities, or lack thereof, it is interesting to observe the contrast in top incomes trends between what is often referred to as *les îles sœur*⁸. A thorough comparison between Mauritius and Reunion Island will require an extensive consideration of the differences in their respective colonial history. In fact, earlier research has emphasized the role of colonial, political and economic institutions in the determination of subsequent economic performance (Acemoglu et al., 2012). Additionally, Angeles (2007) argues that "colonial history is a major explanatory factor behind today's large differences in inequality", finding that the percentage of European settlers is associated with significantly higher

 $^{^{5}}$ Alvaredo, Bergeron and Cassan (2017)- Income concentration in British India

⁶ Varies between 0 (highly equal) and 1 (highly unequal)

⁷ Loi n° 2017-256 passed on the 28th February 2017 on "Egalité réelle des outre-mers"

⁸ Translated as "sister islands"

values of today's Gini coefficient.

Pertaining to the colonial history of Reunion island, Stanziani (2013) has worked on the impact of colonial rule on servants, wage earners and indentured migrants. There has been a scant literature on the comparative studies of Mauritius and La Réunion focusing on different aspects, most notably on the differences in labour rights and immigration between the two islands in the 19th century (Stanziani, 2012) and the comparative growth performance based on the differences in development pathways (Dimou, 2004). Similarly, Rivière (1999) has analysed the differences in the industrial competitiveness between Mauritius and Reunion Island, highlighting the difference in infrastructure and human capital endowments between the two. Given the sparse literature on such studies, the contribution of this paper is to provide a comparative study between both islands from an income distribution and inequality perspective. It looks at the evolution of inequality in the post-independence era for Mauritius and the post-departmentalisation French experience in La Réunion.

1.2 My contribution

The contribution of this research is to estimate the top income shares and analyse the trends in income inequality in La Réunion since the 1960s, as well as put it in comparison with both France and Mauritius. While the first is a natural comparison between an overseas department and its mainland, the second represents a comparative study of inequality between two neighbouring islands with very interesting characteristics. It aims at providing an understanding of the economic mechanisms and processes which led to the evolution of income inequality we observe in the data. This study investigates the claim that overseas departments of France, in this case La Réunion, have constantly experienced a much higher level of inequality than metropolitan France. The use of tax data at the department level from the archives have to the best of my knowledge never been exploited. Hence, this work will add to the literature on top income in areas with a colonial history. Moreover, while most studies on inequality in France looks at metropolitan France, not many have addressed this particular question for the French overseas departments, precisely where income inequality is presumed to be higher, for the paucity of data and difficulty in accessing them. Finally, it provides an interpretation of the trends in top income shares in Mauritius established in the literature and adds to the almost non-existing economic literature on comparative analyses between Mauritius and La Réunion with respect to inequality.

The rest of the paper is organised as follows: Section II gives an overview of the economic situation and the historical context of La Réunion. Section III presents the data, its sources, the methodology employed and provides the ground for using fiscal data. Section IV reports and interprets the results for the top income shares in La

Réunion with respect to France. Section V puts these results in an international perspective. It gives an introduction of the economy and the history of Mauritius and provides a comparative study between La Réunion and Mauritius, as well as other socially-divided countries. Section VI establishes the interest of future research and we conclude in Section VII.

2. Overview

2.1 Economic Situation

Located at about 800 km east of Madagascar, La Réunion is the wealthiest island in the Indian Ocean followed by Seychelles and Mauritius. It is unsurprisingly so as La Réunion is attached to and economically dependent on France. As seen in Figure 2.1, La Réunion has witnessed a steady increase in its GDP per capita since the mid-1950s.

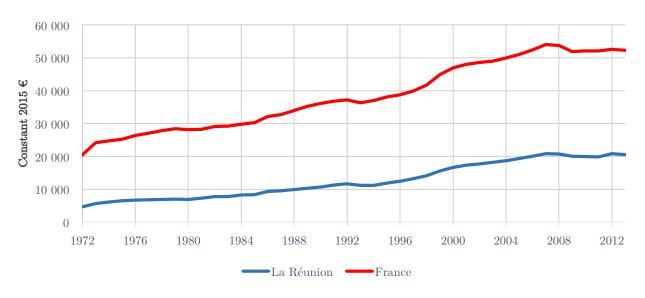


Figure 2.1: GDP per capita in La Réunion

Source: National Accounts (INSEE)

In the recent years, there has been a general consensus that La Réunion's economic growth has considerably dampened, experiencing a definite slowdown after the 2008 crisis as seen in Figure 2.2. In the face of the global financial crisis of 2008, La Réunion's economy was hit, both directly through a slowdown in its own exports and tourism sector and indirectly, through the impact of the crisis on the French economy. Thereafter, this territory has witnessed a very moderate recovery, but has faced difficulties to go back to pre-crisis levels of growth.

The economy of La Réunion has for long relied on sugar cane production and exportation and hence been sensitive to shocks in the international sugar prices. In 2011, 57% of its cultivable land was under sugar cane plantation, remaining one of the main pillars of the economy (Réunion, 2011). A second driving force of the economy is the Construction and Public Work Sector (BTP)⁹. In fact, the rapid growth in the

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⁹ Known as the Bâtiments et Travaux Publics (BTP)

years prior to 2007 had been mostly driven by investments especially in BTP, alleviating the pressure for jobs. However, as from 2007, this sector has known various challenges. The completion of major works as well as the delay and cancellation of various public work projects have had a negative impact on growth, estimated to account for at least 2% of GDP in 2009. La Réunion has thus had a relatively short-lived and unsustainable period of growth. The current ambitious project of the construction of a coastal road on the island might boost the economy for the coming years but its impact remains to be seen. Given the gloomy picture post-crisis, the other promising sectors includes fishing, aqua-culture, agro-nutrition among others.

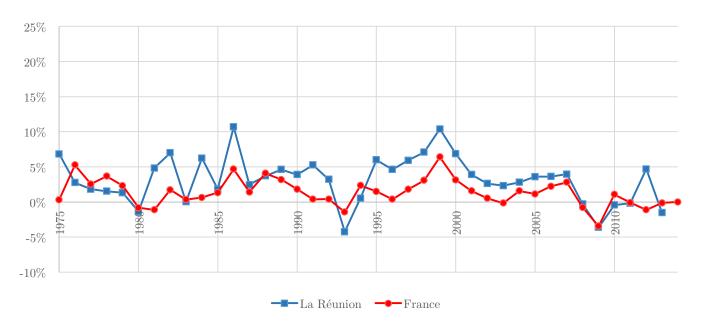


Figure 2.2: Real growth rate of GDP per capita in La Réunion and France

Source: French National Accounts (INSEE)

The economy of La Réunion, similar to other overseas departments of France, has been crippled by high levels of unemployment (at 24.6% in 2015), especially among young adults (at 52.4% in the same year). The island is also characterised by higher levels of part-time employment and twice the rate of underemployment as metropolitan France. Additionally, the high cost of living in La Réunion only adds up to the burden of households. A study by Fagnot & Paillole (2016) has estimated the price level in La Réunion at 7,1% higher than that in Metropolitan France. A high unemployment rate combined with high costs of living inevitably leads to high levels of poverty. In spite of the fact that the income per capita of La Réunion represents around 80% of that of the metropolitan France, the level of poverty in La Réunion had reached 42% in 2010

(compared to 14% in mainland). This alarming disparity comes from the underlying level of inequality that exists in La Réunion, implying that a large section of the population does not benefit from this income.

In addition, despite being part of the same country, La Réunion and France have different dynamics at play. There is even a remarkable difference between La Réunion and other overseas departments. While the French Antilles have completed their demographic transition in a much shorter span of time than mainland France, La Réunion is currently still in its phase of transition with low death rates but high birth rates and correspondingly high fertility rate. Figure 2.3 shows the rapid increase in the population of La Réunion as a proportion of the total French population over the last 60 years. This proportion has more than doubled in 60 years, from around 0,6% in 1950 to 1,3% in 2014.

The distinct demographic structure of this far-flung territory owe to the migration flows it has witnessed throughout its history. Having no native population, La Réunion has been populated by the flux of people, both inflows and outflows, mostly driven by the inadequacy or the excess of labour at different points in time. This has resulted in a complex melting pot in terms of the composition of the population, as well as a dynamic demographic profile. Recent works have predicted a major pattern of rapid ageing of the population in La Réunion and other DOMs in the coming decades (Marie and Rallu, 2012).

The common ageing pattern with mainland France does not, however, share the same underlying drivers. In fact, in the overseas departments, this trend emerges from interesting DOM-specific aspects. Firstly, in the face of the high unemployment rate, especially for young adults, many are driven to move to the mainland for their education and jobs and return later in their lives. In addition to this and perhaps to a much lesser extent, La Réunion is also seen as a coveted retirement destination, be it by metropolitan French or by "native migrants" who chose to return to their land much later in their lives (Marie and Rallu, 2004). This pendulum migration has led to a void in the middle of the age pyramid structure (between 20- 29 years old) in La Réunion, Martinique and Guadeloupe (See Appendix E)¹¹.

¹⁰ The term refers to people born in La Réunion who move out of the territory

¹¹ Refer to Breton et al., 2009 for a description of the phenomenon

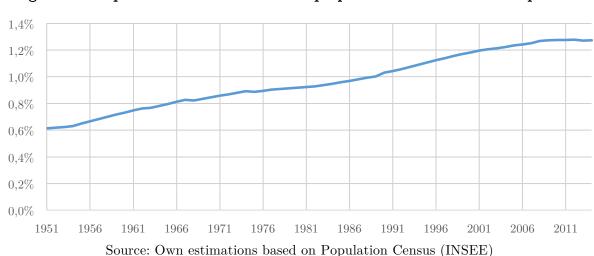


Figure 2.3: Population of La Réunion as a proportion of Total France Population

Additionally, the size of the household has traditionally been larger than that of metropolitan France, even though it has been decreasing over the years, going from 4.2 persons in 1982 to 2.7 persons per household in 2012, compared to 2.2 persons in metropolitan France. This is a logical outcome of the high fertility rate in La Réunion. This is especially the case with a fertility rate of 0.7 children per woman between the ages of 15 and 24 in contrast to 0.3 in metropolitan France in 2015. The decrease in the size of the household can be attributed to the decline in the proportion of extended families over the years as people tend to assimilate the way of life of metropolitan France.

Similarly, La Réunion demarcates itself from France, in terms of the demographic structure of its tax units. The latter refers to the fiscal household which is the unit of observation in the tax data. It refers to each single person or each married couple¹² filling a tax form as one unit. Hence, by construction, the number of tax unit need not be equal to the number of household owing to factors such as cohabitation. The different demographic mechanisms at play can be disentangled by separately looking at the number of adult per tax units and the number of tax units per household.

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¹² Including PACS partners

Figure 2.4a: Number of adults per tax unit

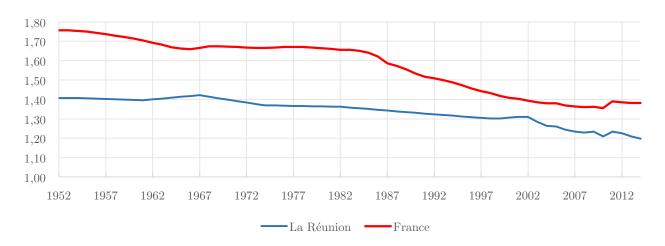
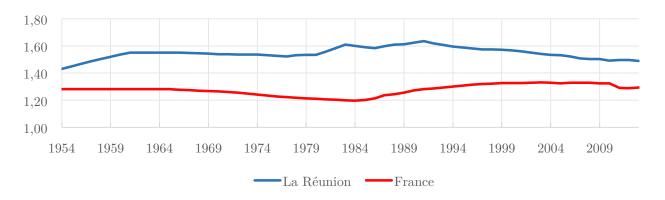


Figure 2.4b: Number of tax units per household



Source: Own estimations based on INSEE data

The number of adults per tax units is mostly affected by the number of married couples and single people. Figure 2.4a suggests that La Réunion has had a consistently lower number of adults per tax units than France since the 1950s, though this gap seems to narrow down in the recent years. The general downward trend can be associated to the lower marriage rate of 3.3% in La Réunion (compared to 3,5% in metropolitan France) and the higher incidence of 20% of single-parent households in La Réunion.

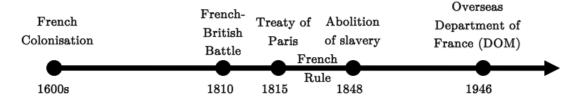
From Figure 2.4b it can be observed that the number of tax units per household is higher in La Réunion than in France, with an upward trend until the 1990s, thereafter declining. This later trend might be closely linked to the decline in intergenerational cohabitation and to the rapidly changing family structure (Ajir, 2015). In fact, only 25% of those above 60 years of age live with their children compared to 50% in 1982. Similarly, the proportion of single-parent households have increased by 5 percentage points between 1982 to 2012 in La Réunion.

2.2 Historical Context

2.2.1 History

La Réunion along with neighbouring islands, until then completely inhabited island, were formally discovered at the beginning of the 16th century by a Portuguese expedition. This group was led by Dom Pedro Mascarenhas, to whom the group of islands still owe their name- the Mascarenes Archipelagos. In those years, La Réunion was known as a popular stopover on the commercial routes of the Indian Ocean, but remained unoccupied well until the mid-17th century. Initially named Ile Bourbon, it fully became a French colony in 1665 with the first settlers sent by the French East India Company. The latter directly governed the island for a century until 1767, bringing slaves mostly from East Africa and Madagascar in a view to boost the production and export of spices and coffee. However, being prone to natural disasters, La Réunion's coffee plantations established under the French East India Company did not fare well and the ensuing bankruptcy of the latter led the island to be governed directly by the French.

Figure 2.5: Historical Timeline of La Réunion



For the most part of its colonial history, apart from a brief British domination from 1810 to 1815, La Réunion remained under the French rule and was named Ile de La Réunion in 1848. With the abolition of slavery in 1794, effectively implemented much later, on the 20th December 1848, slave compensations were paid to erstwhile slave-owners. Moreover, with the continued need for cheap labour, the French administration imported indentured labourers from Africa, India and China under labour contracts. However, in reality, they were subject to almost the same conditions as the ex-slaves. This massive migration gave the multi-ethnic and multi-cultural aspect that still prevails till today. The abolition of slavery provided a chance for the ex-slaves to flee the plantation areas and take refuge in different parts of the island, mostly inland, alongside the non-sugar barons poor whites (*Petits Blancs*).

On the economic front, La Réunion's economy was affected by the opening of the Suez Canal in 1869 which greatly diminished its importance on the trade routes, leading to

a mediocre level of economic. Given the diversity of the landscape that can be found in La Réunion, from the mountains and volcanoes to the shores, only around a third of its land has been cultivable. This disadvantage has had a continued impact on its economy. The island had to turn to alternatives to sustain its economy and thus engaged in sugar cane cultivation. Numerous sugar mills were built on the largest sugar estates, in effect leading to a mono-crop economy in La Réunion. The sugar industry played a central role in the island, largely contributing to the economic development of the island, not only in terms of export but also employment.

Well into the mid-20th century, the economy was still controlled by the small plantocracy. As illustrated in the chapter "From French slaves to French citizens: The African Diaspora in Reunion Island", the 20th century in La Réunion had been marked by a deep social class divide despite nurturing a sense of nationalism. On one side there were the poor people and on the other, a few but economically powerful elite known as the *Grand Blancs* (Hintjens, 2003). A direct challenge to this domination came in the form of a shift away from the existing colonial society to being an extended territory of France. Given the segregation between this economic elite vis-à-vis the mix of African and Asian descendants, a majority of the latter group supported a prointegration-to-France ideology driven by the idea of an end to the elite domination in the economic and political sphere and to benefit from equal legal and other social and labour rights as their metropolitan counterparts. However, the downside of departmentalisation was mainly in terms of the existing obligations which the French fiscal system entailed. More specifically, the imposition of the income tax in La Réunion has been a widely contested topic in view of the departmentalisation.

As a result, La Réunion, along with other ex-colonies, namely Guadeloupe, Martinique and Guiana was granted the status of overseas department in 1946. As opposed to being a turning point in its history, the situation which prevailed thereafter in La Réunion improved at a much slower pace than expected. This has triggered various confrontations between the two opposing forces- pro-French¹³ and pro-independence¹⁴ groups in the 1980s, leading to the creation of the Regional and General Council to facilitate the gradual decentralisation of power to a local level. Hence, contrary to similar socially-divided regions, La Réunion's divide hindered the emergence of independence rather than favouring it (Boyer, 1978).

After gaining full French identity, however, the task in terms of the construction of the society to be at par with metropolitan France has proven to be a challenging one,

 $^{^{13}}$ Mostly comprised of the lower sections of the population with a hope for a reversal of economic power from the existing elite.

¹⁴ French descendents who would benefit from the inexistence of a higher power governing the island.

be it on economic, political or cultural grounds. With the marginalisation of Creole as a legitimate language, European-level decisions and high unemployment, it was only a matter of time to witness a social tension. In fact, the outbreak of 1991 riots were clearly signs of dissatisfaction and frustration from the marginalised segment of the population, with the common slogan of "Equality with French People" (Hintjens, 1995). The next section presents an overview of the different phases of the socioeconomic policies put in place in La Réunion after its departmentalisation.

2.2.2 Socio-economic policy evolution

Despite moving away from the colonial status in 1946, it is not until the 1970s that the issue of La Réunion's economic development was truly put on the table. It experienced an average annual real growth of 6% for over two decades. Thereafter, real growth rate has been stable at around 4% until the 2008 crisis. These periods have been crucial for the socio-economic development of the island owing to the gradual catching up process with the mainland. Characterised as a "silent revolution", the rapid growth during the end of the 20th century has led to massive improvements on various grounds, ranging from sanitary, social, economic, demographic to cultural aspects (Drozin, 2001). Highly debated in the 20th century, the extension of the French social benefits is still today a matter of disagreement. The need for an alignment of the social system with metropolitan France arose not only as a legitimate right for the overseas departments, but also to avoid any social explosions.

Starting modestly in the 1950s, the first phase of the transition in La Réunion consisted in addressing the urgent sanitary and social situation, in contrast to the challenges of demographic deficit faced by metropolitan France at the same time. For almost two decades, the policies comprised of basic medical, familial and child supports, the creation of the Caisse Générale de Sécurité Sociale, basic labour rights such as insurance covering workplace risks among others, at lower levels than those prevailing in metropolitan France. Given the prevailing level of poverty, a large section of the population was dependent on the social system. This situation also led to the formal training of social workers to provide social services. Together with these, a large-scale effort in terms of social programmes are put in place to tackle the pressing sanitary conditions in La Réunion. This period has also seen the consolidation of the controversial project of the BUMIDOM leading to the mass emigration of young people to metropolitan France as an answer to the widespread unemployment but long criticized as being a form of exploitation of the less well-off. With the demographic explosion, there was also a need to provide for social housing and other measures to keep the rents affordable.

The second phase begun as from the mid-1960s onwards with the establishment of tailor-made social policies to the specificities of the overseas departments, alongside the creation of various associations. This led to the setting up of the Fonds d'Action Sanitaire et Sociale Obligatoire (FASSO) which mainly focused on education, health and fighting malnutrition in La Réunion. During this period, additional effort was put in improving the existing policies, with an ongoing emphasis on hygiene and sanitation. It was only in 1972, that the Caisses d'Allocations Familiales (CAF) was established in La Réunion. These efforts led to a 26-fold increase in the average real income between 1950 and 1970 (Coder et al., 2016). However, despite these efforts, La Réunion was still plagued by high levels of unemployment due to high levels of illiteracy and low levels of job creation. Owing to the lack of qualified people, metropolitan civil servants had to be incentivised to move and work in La Réunion. Moreover, the social benefits put in place were very restrictive and faced major challenges due to the high birth rates and rapidly growing population.

The third phase starting in the early 1980s, marked the intensified effort to bring equality in La Réunion. In 1982, the central government transferred power to the level of the regions and departments, fully effective as from 1985, in a bid to decentralise the administration of the country. This led to the restructuring of the social system in view of the major challenges faced by the Regional Council of La Réunion. Several social benefits such as the family allocations and the minimum old-age pension were extended to a greater proportion of the population alongside the implementation of other departmental-level programmes. This period was marked by the process of alignment of benefits to the same level as metropolitan France- the Revenu Minimum d'Insertion (RMI) in 1989, followed by the unemployment insurance in 1991, family allocations in 1993, the alignment of the minimum wage in 1996, previously at a lower level than metropolitan France and the facility of "Youth Employment" in 1997 among others (Drozin, 2001). The completion of the process of alignment of social benefits with metropolitan France was achieved in the early 2000. With the decentralisation and the outbreak of social tensions, there were a greater awareness about the situation prevailing in the island at the beginning of the 21st century.

2.2.3 La Réunion Income and Taxation Specificities

Given the colonial history of the island and the striking difference with metropolitan France on various grounds, La Réunion has been subject to the taxation and implemented the social benefits at different timings and on different terms than in the mainland. First, while a general income tax was enacted in France in 1914, its implementation in La Réunion was a widely debated topic as can be understood from the various passages of sessions at the *Conseil Générale* (See Appendix F). It is not

until the 1940s that an income tax was imposed in La Réunion. Moreover, in order to account for the relatively higher cost of living and their specific situations in the far-off territories, concessions on the income tax paid in the overseas department were made. The abatement stood at 30% currently capped at 5100€ in La Réunion, Guadeloupe and Martinique, and at 40% capped at 6700€ in Guiana. In addition, their VAT rates imposed are at lower rates (typically at 8,5%) compared to metropolitan France (20%) and non-existent in Guiana and Mayotte. The overseas departments are also allowed to collect dock dues locally and in fact, the latter constitutes a very important part of the fiscal revenues and allows the overseas departments to protect their local markets.

Moreover, La Réunion has various specificities in terms of income earned. Put in place in the 1950s, civil servants employed in overseas departments are paid a surplus on their salary. This over-payment known as the "prime de vie chère" or "surrénumération" refers to the multiplying factor to the salary, enjoyed by public servants in DOMs. While it is set at 40% in Guadeloupe, Martinique and Guiana, it has reached a shocking 53.6% in La Réunion. These payments were initially put in place to attract metropolitan civil servants to work in these far-off lands in face of a lack in the supply of qualified native population. Later extended to local civil servants, it was justified on the ground of the high cost of living. In addition, in the 1950s, metropolitans were also compensated for their tedious trip to the distant overseas and for "homesickness". This took the form of a premium for remoteness and setting up in the new environment. This was accompanied by other benefits such as supplementary paid leaves which still persist today, certainly with stricter conditions attached.

In the same line, there is the "over-pension" which is a premium paid on retired civil servants' pensions ranging from 35%, capped at 10 000 € in La Réunion. Discarded by many as an unnecessary burden on the government's budget, it might also encourage richer metropolitan people to invest in properties in La Réunion where they can spend some months of the year and hence, benefit from a pension premium at retirement. In addition to these, La Réunion and other overseas departments also benefit from a reduced cost of social contribution since 1994, further consolidated in 2000¹⁶, to reduce the cost of employment in order to tackle the problem of unemployment. The minimum amount of this benefit varies from 1.3 to 1.5 times the minimum wage depending on the sector of employment. According to the report of Senator Luart in 2003 on the

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¹⁵ In line with Article 299 (2) of the Treaty establishing European Community which takes into account "...the structural social and economic situation of the French overseas departments, the Azores, Madeira and the Canary Islands, which is compounded by their remoteness, insularity, small size, difficult topography and climate, economic dependence on a few products...".

 $^{^{16}}$ Loi n° 2000-1207 (LOOM) of 13^{th} of December 2000- Guidance for overseas departments

draft bill for overseas departments, these exemptions which concerns around 128 000 wage earners and 28 000 enterprises has cost the government 399.3m \in .

The benefits accruing to public servants in La Réunion has been subject to numerous debates. Judged to be costly and unfair, the "over-pension" is due to gradually fade out until 2028. However, proposals to reform the "over-payment", on the other hand, face fierce opposition from the concerned beneficiaries. This system can hardly be defended for it might be contributing to the very problem it attempts to tackle- high cost of living. It has, thus, developed into a perverse system of continued assistance by the government and led to a disincentive to create jobs in the private sector. Moreover, it mostly benefits a small segment of the population who are employed in public services and creates a discrepancy between them and the rest of the population. Its role in widening the gap between the well-off and the poor has been one of the causes of persistent social tensions.

3 Data and Methodology

3.1 Data

In order to establish the long-term evolution of income inequality in La Réunion, I will estimate the top income distribution, using income tax data published annually by the tax administration coupled with national accounts and demographic data. The main data used to construct this series is the tabulated income tax data which consists of the total number of tax filers and the total income per brackets (see Table A2 in Appendix for an example), spanning over the period of 1960 to 2014 intermittently, with some missing years from the series. Starting from the most recent series to the old ones, the data between 2000 and 2014 is obtained from the Direction Générale des Finances Publiques¹⁷ (DGFiP). For the preceding years, namely the year 1960 and the period from 1986 to 1998¹⁸, the tabulated income tax is obtained from the archives of the Centre des Archives Economiques et Financières (CAEF)¹⁹. These tables were available from the fifty-pages long pamphlets known as the Etats 1921, which was mainly published for internal use within the Ministry of Finance. These data do not violate any statistical confidentiality rule as it includes a large number of taxpayers²⁰. For the period 1951-1985 and 1988, we retrieve partial tax data from INSEE publications, under L'Economie de La Réunion, Panorama (1980-1991), thereafter called Tableau Economique de La Réunion (TER). Unfortunately, the latter are not as detailed as the previously-mentioned series as it was used for expository purposes only, to give an overview of the economy. Since these tabulations report only the number of taxable taxpayers per income brackets, we can only obtain a rough estimate of the top shares and chose not to present them in this paper.

Before 1999, the income tax data for the year n normally corresponded to the income of the same year. This changed as from 2000; the income tax data for year n is based on the income of year n-1. This mechanically led to an artificial gap in the publication in income tax data in the year 1999, since the income tax data of the year 1998 corresponds to the income of the same year while the income tax data of 2000 refers to the income of the preceding year, 1999. Moreover, since 1987 the tax administration publishes income tax data based on income perceived in year n in both the following year 31/12/(n+1) and the year after 31/12/(n+2). The latter is in principle the most up-to-date data which takes into account tax audits and tax reliefs that occur in the year after the imposition. We have thus used the latest tabulations available in all years except 1960 (see Appendix A). As of now, the latest publication available is that

¹⁷ As of today, data for 2004-2014 can be retrieved online from www.impots.gouv.fr

 $^{^{18}}$ except for 1988

¹⁹ CAEF- Savigny-Le-Temple

 $^{^{20}}$ It respects the rule that no results for a group of less than 11 persons can be disseminated

of 2015 tax tabulations which as explained above, correspond to 2014 incomes²¹. The comparability of the publications across time is generally consistent, except for changes in income definition used over the years. The only noticeable change in these compiled data has been in terms of changes in the number of thresholds, normally to provide more detail at the upper end as taxpayers reports increasingly higher taxable income over the years.

As explained in Section 2, the unit of analysis reported in the tabulation tax data refers to the tax unit which is a concept similar to the household but is not exactly the same. The latter is preferred in economic surveys such as the household budget surveys, as it allows to take intra-household economies of scale into account. In the case of taxation, the data is presented for tax units which refers to a group of person that fills in a unique tax form. There may thus be more than one tax unit in a household. In France, married or PACSed²² couples can fill a single tax form. Hence, for instance, a cohabitating unmarried couple would constitute one household but two tax units. Due to the breaks in the series owing to changes in tax laws, we attempt to create a homogenous series by making various corrections (See Appendix). Apart from tax data, this analysis also relies on demographic and income data as will be detailed in Section 3.2.2 and 3.2.3.

3.2 Methodology

Piketty (2001) has established a thorough study of top incomes at the national level in France in his book on Les Hauts Revenus en France au 20e siècle: Inégalités et Redistribution, 1901-1998. Using fiscal sources, he finds that top income shares in France rose until World War I, followed by a fall thereafter and then starts to rise again to its initial level as from the 1970s. Landais (2008) extends the work of Piketty to cover more recent years, finding an upward trend of top income shares. These works have made use of exhaustive tax tabulations published by the tax administration to construct the income distribution of the top incomes. Garbinti et al., (2017) provides a complete and updated series on France based on these papers. The methodology adopted in this paper will closely follow that of Piketty and Garbinti et al., to reproduce an analogous series for La Réunion.

3.2.1 Generalised Pareto Interpolation

Since the data is in the form of tabulations and the given thresholds do not generally coincide with the percentile of the population that is of interest (for instance the top 1%, top 0.1%...), there is a need to apply an interpolation technique to obtain the

²¹ Tax data for the year 2016 (based on 2015 income) is expected to be available in July 2017

 $^{^{22}}$ A civil solidarity pact- a contractual form of civil union

shares of top incomes. As lengthily explained in Atkinson et al. (2011) and confirmed in the literature on top incomes, the top tail of the income distribution is usually well approximated by a Pareto distribution (power law). Hence, the traditional Pareto interpolation method, introduced by Pareto (1986), has been widely used in the literature on top income. These research have assumed that the distribution of income follow a Pareto distribution. The Pareto law has the following cumulative distribution function F(y):

$$1 - F(y) = \left(\frac{k}{y}\right)^{\alpha}$$

where k>0, $\alpha>1$. The corresponding density function f(y) is given by:

$$f(y) = \frac{\alpha k^{\alpha}}{y^{(1+\alpha)}}$$

This distribution has the property that the ratio of average income y*(y) of individuals with income above a given threshold y is always proportional to y:

$$y * (y) = E(z | z \ge y) = \frac{\int_{z>y} zf(z)dz}{\int_{z>y} f(z)dz} = \frac{\int_{z>y} \frac{dz}{z^{\alpha}}}{\int_{z>y} \frac{dz}{z^{(1+\alpha)}}} = \frac{\alpha}{\alpha - 1}y$$

From the above equation, it can be concluded that the ratio $y * \frac{(y)}{y}$ does not depend on the income threshold y:

$$y * \frac{(y)}{y} = \frac{\alpha}{\alpha - 1}$$

This is referred to as the Inverted Pareto coefficient, β^{23} . This coefficient gives a sense of the shape of the distribution, whereby a higher β corresponds to a fatter upper tail of the distribution. This is equivalent to a higher top income shares and hence, more income inequality. For instance, a β of 2 would imply that the average income above $100\ 000\ \in$ would be $200\ 000\ \in$ and similarly with a β of 2.5, the average income above 1 million \in would be 2.5 million \in . The β coefficient normally varies between 1.5 and 3 as seen in the cases analysed in the WID, whereby coefficients around $1.5\ -\ 1.8$ indicating low inequality in general (for which top 1 % income shares are between 5 to 10%). Conversely, coefficients equal to or above 2.5 are normally associated to very high inequality (for which top 1% income shares are around $15\ -\ 20\ \%$) (Atkinson et

 $^{^{23}}$ And conversely, $\alpha = \frac{\beta}{\beta - 1}$ which is inversely related to inequality.

al., 2011). Evidences from the WID suggest that the Pareto coefficient varies across countries and over time. Moreover, the inverted Pareto coefficient, β , is not constant throughout the income distribution for a given country in a particular year and has an increasing trend, more so at the upper end of the distribution.

While this is a reasonable approximation, the traditional method cannot be used to interpolate the entire distribution. Hence, recent research have used the generalised Pareto interpolation technique which is a non-parametric interpolation method based on the transformation of the full Pareto curve. Comparison of the estimates using this method with the estimates obtained from exhaustive micro-files have shown that the full distribution can be precisely and smoothly estimated using the generalised Pareto interpolation method. This allows for more flexibility as in contrast to the traditional Pareto laws, β does not need to be constant and the distribution need not take any specific shape (Blanchet et al., 2017). Hence, this paper estimates the evolution of the full distribution of income using the generalised Pareto interpolation method applied to tabulated tax data, combined with population and income data. The purpose of the last two is to constitute a control total for the full population (denominator of the top shares).

There are different ways to present income inequality; using different concepts of income namely fiscal income (including or excluding capital gains), pre-tax factor income or pre-tax national income. The unit of observations may also vary from tax units, equal-split adults or individual adults. All these different measures present different aspects of income inequality. As is done in Piketty (2001, 2003), we will focus on fiscal income among tax units and their estimation is explained in the following section.

3.2.2 Control Total for Population

In estimating the top incomes shares, there is a need to obtain an external control for the entire population which refers to the total number of tax filers. The latter represents the total number of tax units which would have been observed had everyone been required to fill in a tax form. With changes in the tax system, a greater proportion of tax units is captured in the tax data in the most recent years and less so for prior years. A summary of the evolution of the adult population, the number of taxable tax units and the total number of tax units reported in the tax data is presented below:

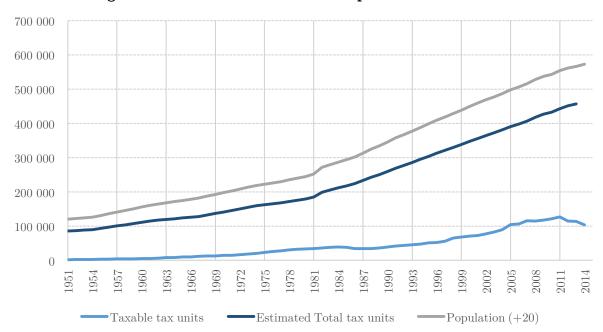


Figure 3.1: Evolution of the Adult Population and Tax Units

Source: Population census (INSEE), Etats 1921 and DGFiP

Since the French tax system requires joint filling for couples, our control total for population can be estimated using information about the population which is liable to pay taxes and data on married couples. From French population surveys 24 and the INSEE estimates of the population, we obtain the population of adults defined as people above 20 years old. Similarly, the number of married couples is obtained from INSEE estimations of FAM2 for recent years and from INSEE-Panorama publications for years 1954, 1961, 1967, 1974 and 1982, which corresponds to the years in which the population census has been conducted. To estimate an interrupted series for the number of married couples throughout the years, we have used a linear interpolated for the remaining years. This allows us to calculate a hypothetical control population as the difference between the total population above 20 years of age and the number of married couples as follows:

Control Population = Popn(+20) – Number of married couples

A detailed explanation of the steps involved in the estimation of the control total for population is given in the Appendix B.

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²⁴ Rencensement Population (RP)

As seen in Figure 3.2, the fraction of tax unit subject to positive income tax has hovered around 20-30% in La Réunion, a much lower level than in metropolitan France which stabilised around 50-60% (Garbinti et al., 2017). As expected, the proportion of tax unit subject to income declaration has increased over the years and was gradually made mandatory for all tax units. However, this shift in La Réunion comes much later than in metropolitan France, whereby all the tax unit were required to fill a tax form and declare their income as from 1985.

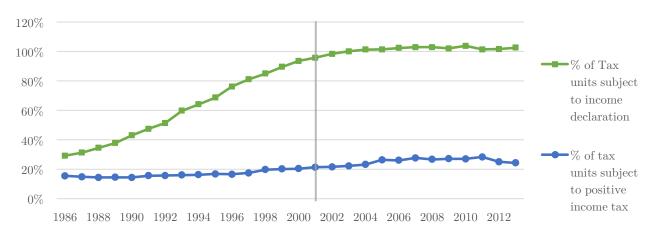


Figure 3.2: Fraction of tax unit subject to declaration and income tax

Source: Own estimation based on INSEE (RP), Etats 1921 and DGFiP

Note that the control population is not perfectly equal to the number of tax unit subject to income declaration if for instance, young adults are still dependent on their parents, hence entering as a single tax unit or due to the occurrence of marriages and divorces during the fiscal year. Following this estimation, it is assumed that all tax units are required to declare their income as from 2001 in La Réunion.

3.2.3 Control Total for Income

In order to estimate the income shares, there is a need to estimate a comparable control income for the full population which is the denominator of the measure. This control total for income would need to reflect the total income which would have been reported if all the tax units were required to fill a tax form. As assumed in the previous section, all tax units are required to declare their income as from 2001 and hence, the control income for those years corresponds to the total taxable income observed in the tax data. However, for the years prior to 2001, a control income for population needs to be estimated. Two approaches with two different starting points have been employed in the literature to make such an estimation. The first one consist of starting from the

income observed in the income tax data and adding an imputed income for the nonfilers. The second approach uses an external control, typically national accounts corrected for non-household income and other non-relevant incomes to obtain the taxable income as used by Piketty (2001). The national income relates to the taxable income in the following way:

Table 3.1: National accounts and Taxable Income

Balance of Primary Income

(-) Non-household incomes

Household sector total income

(-) Items not included in the tax base

Household Gross income

(-) Non-declared income

(-) Non-filers

Declared taxable income of filers

Source: Atkinson et al., (2011)

Fiscal income may hence diverge from national income due to production taxes and the part of income not subject to taxation and thus not declared in the tax data. The latter may include imputed rent (rental income from owner-occupied housing), employers' and employees' social security contribution, tax-exempt life insurance income and other tax-exempt income, for instance interest paid to deposits and savings accounts and non-taxable transfer payments. On the capital front, fiscal income also excludes corporate retained earnings and corporate taxes.

In this paper, we adopt the second approach of estimating a control income. However, due to the lack of detailed national accounts data at the departmental level in France, especially so for the overseas departments, we build our estimation of a control total for income based on the series established for France²⁵. The steps used in the estimation are detailed in the Appendix C.

In order to construct a series for the control income, we first need to have a series of the GDP of La Réunion over these years. For the years 2000-2014, the GDP estimates are obtained from the National Accounts at the departmental level available on the

updated version.

²⁵ For a detailed explanation of the steps involved in estimating the control total for income for France, refer to Appendix G of Piketty (2001) and the Appendix C of Garbinti et al., (2017) for an

online database of the INSEE. For the years prior to that, we are able to get an estimate of the GDP of La Réunion for the years 1973 to 1994 from various INSEE publications, mainly the Annuaire Statistique de La France, INSEE Panorama and INSEE Tableau Economique de La Réunion (TER). Naturally, we do a linear interpolation for the years 1995 to 1999. The ratio of the GDP per capita between La Réunion and France is shown in Figure 3.3. Prior to 1973, there are two possible scenarios of the situation in La Réunion. The best case scenario would be to assume that the proportion of the GDP per capita of La Réunion in the GDP per capita of France has remained constant at 30% since the 1960s. However, given the later catch-up trend, we might also expect that La Réunion was poorer in 1960s, hence the second case, whereby we assume a linear trend since the 1960s. The top income shares for the year 1960 will thus be presented under these two possible scenarios.

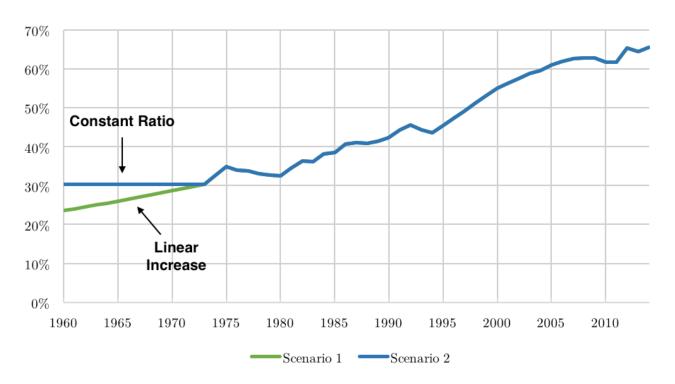


Figure 3.3: Proportion of GDP per capita of La Réunion in France GDP per capita

Source: Own estimations based on National Accounts and INSEE publications

We then estimate the ratio between the average taxable income per adult population of France to its GDP per capita. Based on the assumption that all the tax units declare their income as from 2001 in La Réunion, we estimate the ratio between the average taxable income per adult population of La Réunion to its GDP per capita for the years 2001 to 2014. We then assume that the relationship between these two ratios remains constant at 1,26 (See Appendix C for more details) and are thus able to estimate the

ratio for La Réunion and consequently, the taxable income for La Réunion for the years before 2001.

3.2.4 Definition of income and corrections

The definition of income used by the administrative tax is the net taxable income which is the fiscal income less some deductions. However, since our income definition of interest the income reported on tax declarations before any adjustments, namely the fiscal income, there is a need to correct the taxable income for these deductions to obtain the fiscal income. This is especially so since these deductions change over time and may lead to biased estimations of trends. In France, the tax law allows for various deductions which are as follows:

- i) A 10% lump-sum deduction for professional expenses of wage earners, currently capped at 12 183€ per member of the tax unit.
- ii) An additional 20% deduction for wage income, up to a ceiling. It has been repealed in 2006.

Apart from these deductions, we also correct the series for capital gains, with and without re-ranking based on the estimations made for the French series. Figure 3.4 shows the trend in taxable income based on the estimation described in section 3.2.3 and fiscal income based on the above-mentioned corrections since 1985, with a clear jump in taxable income in 2006 due to the repeal of the 20% deductions for wage income.

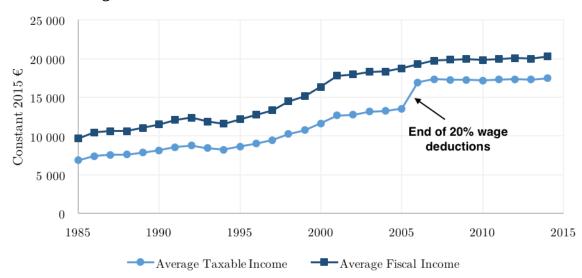


Figure 3.4: Trend in Taxable and Fiscal Income estimates

Source: Own estimations based on DGFiP data

Given these corrections, Figure 3.5 shows the average fiscal income in La Réunion and France since 1960s onwards. At its peak, the difference between the two was at 16 000 \in and this gap has narrowed down over the years but still remains at 10 000 \in in the recent years.

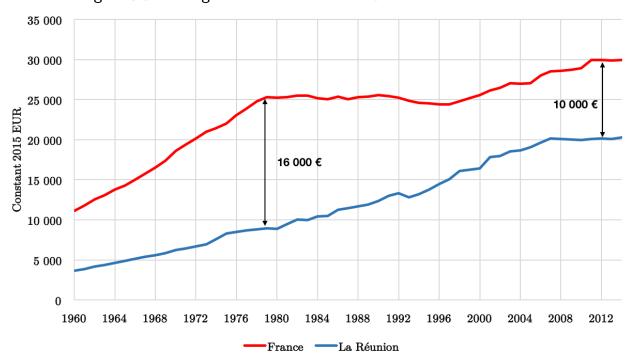


Figure 3.5: Average Fiscal Income in La Réunion and France

Source: Own estimations for La Réunion & Garbinti et al., (2017) for France

3.3 Fiscal Data

3.3.1 Advantages of fiscal data

A large part of the literature on top income shares has made use of tax data. The analysis of the top part of the distribution provides a lot of insight for political economy debates as in some cases, they concern a huge proportion of total income. However, given the various limitations of fiscal data, an alternative to this source of data would be to use household budget surveys. However, the latter has various limitations since it is subject to misreporting especially at the upper end of the distribution. This may take the form of under-reporting or top coding for confidentiality reasons and precisely to avoid the issue of misreporting. Hence fiscal data represents a more reliable source of data when looking at top incomes. Moreover, fiscal data has been collected and annual records are thus available since the onset of the imposition of income tax, which back to the 1940s in La Réunion and 1930s in Mauritius. A similar analysis using household budget survey would not have allowed for such a historical series. For

instance, the *Enquête Budget de Famille* in France was first conducted in the DOM in 1995 and are available every five years, compared to annual tax data. Perhaps an indepth, yet more tedious work would require an analysis of income inequality which combines both tax data and household budget surveys.

3.3.2 Limitations of fiscal data

While the use of tax data has been adopted by various works contributing to the WID database, some caveats should be acknowledged. In particular, fiscal income is not devoid of measurement and technical problems. First, fiscal income might diverge from national income and be biased due to tax exemptions, tax avoidance and evasion. Hence, the estimations obtained might understate the income accruing to the top to the extent that part of their income are not declared. This is especially the case since the rich have more incentive to under-declare their incomes or redirect their income to tax havens to avoid paying taxes. Moreover, there are various factors which makes analysis of income inequality estimates based on tax data in different countries and across time not perfectly comparable. In fact, since these data are primarily for administrative purposes, the income definitions and unit of analysis might differ, in which case the comparability of two series relies solely on the ability of corrections to reach a common definition. In addition, the focus on pre-tax and pre-transfer income inequality do not take into account redistributive effects of public policies may vary from country to country.

4 Results

Before looking at the top income shares, we will present the different thresholds for La Réunion and France. Figure 4.1 depicts the minimum amount required to be part of the top 1% of the distribution (P99), the top 10% (P90) and the bottom 50% (P50). We can see that La Réunion has a lower threshold in almost all the cases, except for a brief period in the mid-1990s for the top 1%.

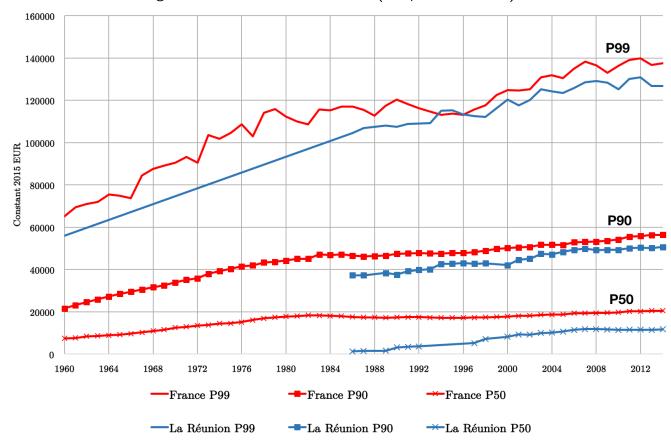
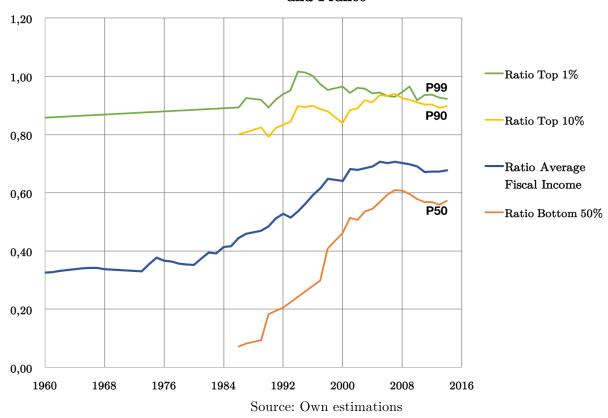


Figure 4.1: Thresholds of income (P50, P90 and P99)

Source: Own estimations for La Réunion and Garbinti et al., (2017) for France

The difference in the thresholds between La Réunion and France has narrowed down over the years and more significantly for the bottom 50%. It can more clearly be seen from Figure 4.2. The latter depicts the ratios between the threshold of income between La Réunion and France, as well as the ratio between the average fiscal income between the two. It can be seen that while the ratio of the threshold for the top 1% and top 10% between La Réunion and France has been very close to 1, the bottom 50% is significantly less than 1. Second, the most rapid catch-up has occurred at the bottom of the distribution with the ratio for P50 going from 0.1 to around 0.6 over the period. This has contributed in an increasing ratio between the average fiscal income in La Réunion and France.

Figure 4.2: Ratio between thresholds and average fiscal income between La Réunion and France



This section presents the results²⁶ obtained from the estimation of the top income shares for La Réunion. It puts this analysis in perspective by also reporting the trends in top income shares for France obtained by Garbinti et al., (2017). In order to understand the following series, one needs to grasp the concept of top income shares. As an illustration, in a perfectly egalitarian economy, the top 10% of the distribution would own 10% of total income. Similarly, the top 1% would own 1% of total income. If the share of the top 10% is estimated to be 20%, then the top 10% own twice the income they should have owned under a perfectly egalitarian economy. Evidences from the WID series suggest that the Scandinavian countries have the lowest levels of inequality with top 10% shares at around 20%.

The results presented here represents an almost complete series from 1986 to 2014, with the exception of 1988 and 1999. For the years prior to 1986, given the paucity of data, I have only been able to obtain a rough approximation of the top income shares for the year 1960. The estimate for the top 1% for the year 1960 is estimated under two scenarios as detailed in section 3.2.3. Under the first scenario, we assume that the ratio between the GDP per capita of La Réunion to the GDP per capita of France has

²⁶ The results may change slightly due to revisions in the future

evolved linearly between 1960 and 1973, implicitly assuming that La Réunion was poorer in 1960 than in 1973. Under the second scenario, it is assumed that this ratio has evolved constantly from 1960 to 1973 since 1973 is the year for which we have an estimate of GDP per capita for La Réunion. A more precise estimate of the GDP of La Réunion in 1960 might alter the estimates of the top income shares. However, we expect it to remain much higher than the ones in mid 1980s.

$4.1 \quad \text{Top } 10\%$

It is clear from the results presented in Figure 4.3 that La Réunion has higher levels of inequality than France as captured by the share of income accruing to the top 10% of the distribution. Two main facts seem to stand out from the top 10% shares of La Réunion from 1986 to 2014. Firstly, inequality in La Réunion was very high in the mid-1980s, with the top 10% having around 63% of total income (6.3 times more than their proportionate share). Second, there is a clear downward trend in the top 10% income shares as from 1986 to 2007, going from 63% to 43% in almost 20 years.

Putting these results into perspective with France, it can clearly be seen that the declining trend in the top 10% share since the mid-1980s until the 2000s has been a trend specific to La Réunion and not driven by a general similar national trend. It is also striking to see that despite being a single country, the top 10% share is consistently higher in La Réunion than the general level in France. This gap still prevails even after the completion of the catch-up process in la Réunion in the year 2000s, stabilising at around 43% in La Réunion compared to 34% in France in recent years.

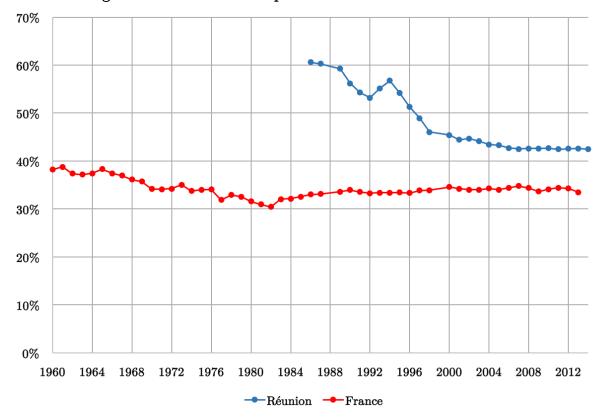


Figure 4.3: Evolution of top 10% share in La Réunion & France

Source: Own estimations for La Réunion (See Appendix) and Garbinti et al., (2017) for France

$4.2 \quad \text{Top } 1\%$

Looking at the top of the distribution, namely the top 1% as depicted in Figure 4.4, we can see a similar downward trend from 1986 to 2000. The estimated top 1% share in the year 1960 is extremely high at 41% under scenario 1 and 32% under scenario 2. This share goes down significantly to 15% in 1986 (15 times their proportionate share). This downward trend has continued throughout the period until 2000, reaching 10%. Except for a slight increase in the next 3 years, the top 1% share in La Réunion has been remained at around 10% until 2014.

Comparing the top 1% share in La Réunion to the series in France from 1986 to 2014, it can be seen that the difference between the two since 2004 is not clear-cut anymore, with France's top 1% share fluctuating between 9 -10% between 2004 and 2014. However, focusing on the period prior to 2004, there is a clear gap between top 1% shares in La Réunion.

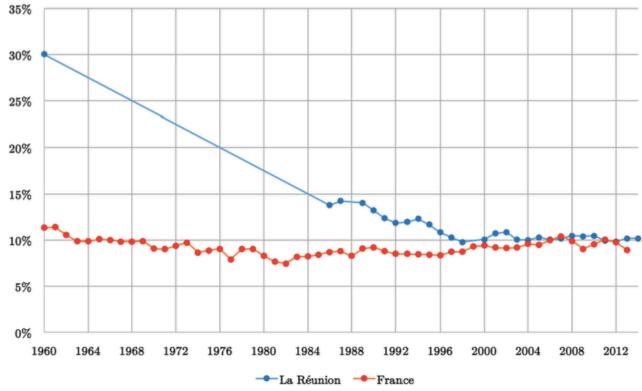


Figure 4.4: Top 1% share in La Réunion and France

Source: Author's computation for La Réunion (see Appendix) and Garbinti et al., (2017) for France

Figure 4.5 presents the results for La Réunion as well as the top income shares of France and the US for the period 1960 to 2015. It can be seen that the top 1% share in La Réunion in 1960 is much higher than the estimates for France and the US. However, in the mid-1980s, it is not the case anymore. La Réunion's top 1% share is at the same level of the US and it is much lower than the latter as from 1995. As for the top 10%, it is interesting to see that in the mid-1980s, La Réunion had a higher share compared to the US which is considered as one of the most unequal countries. However, since the mid-1980s, La Réunion's top 1% share witnesses a rapid decline. At the beginning of the 21st century, this share is still higher than the one of France but is lower than US' top 1% share. Hence, Figure 4.3 gives an idea of the extent to which La Réunion was unequal since 1960 to the early 2000s.

While, there is extreme inequality in La Réunion in the year 1960, the top 1% in France at the same time has around 11%. In fact, at its peak in 1923, the top 1% share in France reaches 23%. It is also interesting to note that despite this sizeable distance between the top 1% shares of La Réunion and France in 1960, the two reaches an almost comparable level in the recent years. This being said, the absolute level of income required to be in the top 10% (P90) and top 1% (P99) is lower in La Réunion

than in France. For instance, in 2013, the P90 for La Réunion is 50 770 € compared to 56 413 € in France. Similarly, the P99 for La Réunion is 126 955 € compared to 136 792 € in France.

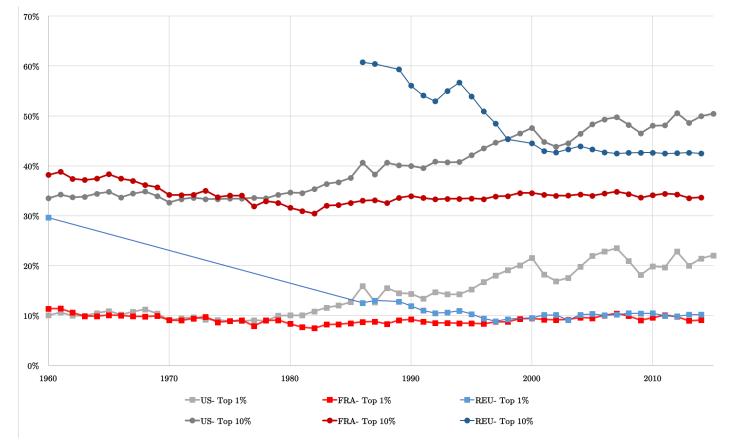


Figure 4.5: Top 1% and Top 10% Shares in La Réunion, France and USA

Source: Own estimations for La Réunion and WID

4.3 $\,$ Top 0.1% and Top 0.01%

Figure 4.6 shows the evolution in the income concentration at the very top of the distribution, namely the top 0.1% and the top 0.01% for La Réunion and France from 1960 to 2014. For the top 0.1%, we again find that the share is relatively much higher in 1960 at 9.8%, which goes down significantly to 3.4% in the mid-1980s with a declining trend thereafter until the 2000s. After 2000, it hovers around 2.5%, with a low of 1.7% in 2012. When compared to France, we can see that the estimate for La Réunion is 1960²⁷ is higher than France during the same period. In fact, France had comparable shares of 9-10% in the early 20th century, more precisely during the period

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 $^{^{27}}$ We have kept scenario 2 as the reference for the year 1960. Please refer to section 3.2.3 for more details

1915 to 1923. With the catch-up phase in La Réunion since the mid-1980s, La Réunion reached a lower level of top 0.1% shares as from 1996.

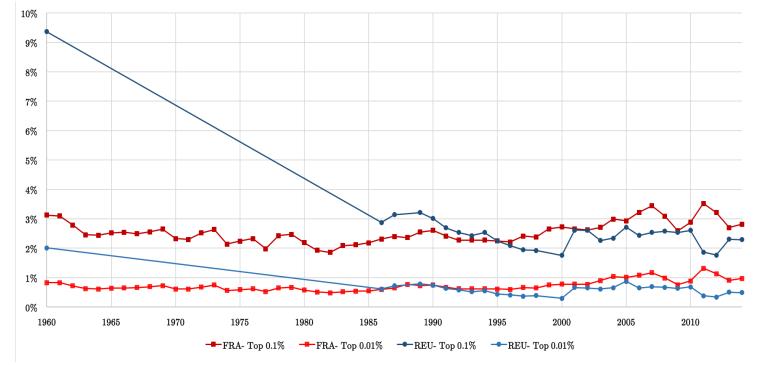


Figure 4.6: Top 0.1% and Top 0.01% share in La Réunion and France

Source: Own estimations (See Appendix)

The top 0.01% also follows the same pattern with a very high top 0.01% share of 2.1% for La Réunion in 1960 thereafter falling to around 0.8% in the mid 1980s. However, the top 0.01% share goes back to its previous level after a declining trend from the end of the 1980s to 2000. In comparison to France, we can see that the series from 1896 to 1994, the top 0.01% have the same share of income in La Réunion and in France. Since 1995, the series for La Réunion tends to be lower than that of France. As for the estimate of 1960, France has a lower top 0.01% than La Réunion during the same period. However, from a longer historical perspective, France has witnessed a top 0.01% in the range of 2-5% during the period from 1910 to 1930.

4.4 Bottom 50%

The generalised Pareto interpolation technique also allows us to estimate the share of income going to the bottom 50% of the tax units. Figure 4.7 depicts this share since the 1990s. It can be seen that in general, the share accruing to the bottom 50% is very low over the whole period. This is especially so in the 1990s whereby the bottom 50%

had only around 5% of total income. This implies that the average income of the bottom 50% of the population was approximately 10% of the average income in those years. The bottom 50% has since then increased to 8-10% in the recent years. A likely explanation for these low level of income accruing to the bottom of the distribution could be that the GDP series for La Réunion has been under-estimated. This might be due to the existence of an informal sector not captured in the GDP estimates. Hence, there will be a need to obtain an estimate of the informal sector to have a better picture of the bottom of the distribution.



Figure 4.7: Bottom 50% in La Réunion & France

Source: Own estimations for La Réunion and Garbinti et al., (2017) for France

4.5 Interpretations

A likely explanation for the extremely high level of inequality from 1960 to 1990s could be in terms of the relative wages paid in La Réunion, especially that of civil servants with respect to the rest of the population. La Réunion in 1960 was characterised by a low level of literacy and low proportion of qualified people as seen in Figure 4.8, an increase in its public sector employment and the onset of mass unemployment and under-employment. This is partly due to an abrupt shift of the economy away from the agricultural sector to the tertiary sector. In fact, the share of the agricultural employment in total employment dropped from 43.6% in 1961 to 22% in 1974 and further down to merely 7% in 1990. The unemployment rate, first estimated in 1967

stood at 23% (Roinsard, 2013). Thereafter, the unemployment rate has fluctuated between 30% to 40%. Given the qualification requirements to get a public job, the public sector employment has for long penalised the native unemployed who are mostly under-qualified or not qualified at all. In fact, the number of people from metropolitan France living in La Réunion, the vast majority occupying high-ranks civil service jobs, went from 3 200 individuals in 1961 to 37 400 in 1990 (Roinsard, 2013).

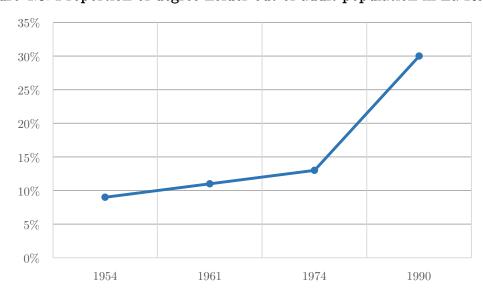


Figure 4.8: Proportion of degree-holder out of adult population in La Réunion

Source: Roinsard (2013)

Moreover, the level of the minimum wage in La Réunion, set at a lower rate than mainland, has been aligned to the rate prevailing in metropolitan France only since mid-1990s as seen in Figure 4.9. On the other hand, the level of the wage of civil servants in La Réunion, being at par with the metropolis, was in itself very high relative to the wage level prevailing in La Réunion. In addition to this, public employees were also paid a salary premium of 25%²⁸ on top of the standard wage. As pointed by Cogneau and Dumont (2000), the premium wage of public servants has a regressive effect on the income distribution in La Réunion. All of these factors combined implies that in the 1960s, the labour market was marked by a polarisation; on one hand there were highly qualified and well-paid public servants and on the other hand, a large segment of low-income earners as well as unemployed people. While the public jobs provided for a stability and job security, the rest of the population were mostly employed in seasonal employment characterised by large uncertainties.

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 $^{^{28}}$ Later revised in 1957, 1971 and 1979 to a rate of 53,6% today

In Francs La Réunion Metropolitan France

Figure 4.9: Hourly Minimum Wage²⁹

Source: INSEE publications (TER)

Based on Figures 4.3, 4.4 and 4.5, we notice that while the concentration of income in the top 1% in La Réunion is not so different than the one in France, the top 10% share is indisputably higher in La Réunion. This implies that the P90-99³⁰ has a higher share of income in La Réunion than in France throughout the period from 1960 - 2014. Hence, it seems that in La Réunion, it is not the extremely rich individuals who primarily explain the high top income shares, but those earning a slightly lower but still adequately high earning. Civil servants' wages could fit in this category. In 2010, for instance, the P87³¹ and P90 in La Réunion were around 40 000 EUR and 47 000 EUR respectively. According to INSEE data, the average salary in the public sector in La Réunion in the same year was around 40 000 EUR and that of a regularised public servant is 57 000 €. This is compared to an average salary of 33 000 EUR for the public sector in metropolitan France, hence a 20% higher average public wage in La Réunion. The public sector employs 30% of the active population and 56% of them are regularised (permanent) workers earning the public wage premium. This benefit concerns 44 000 employees in recent years.

²⁹ As at 1st of July

 $^{^{30}}$ The bottom 9% of the top 10%

 $^{^{31}}$ The threshold of income above which the individual is in the top 15% of the income distribution

Hence, even after the completion of the catch-up phase in La Réunion, we observe an average public servant's salary that is close to the top 10% of income. In the private sector, the average wage earned by an executive is around 50 520 €, well above the P90 threshold. On the other hand, the average wage earned in the whole private sector was 12% lower than that of metropolitan France in the same year, with a higher proportion of low-skilled workers in La Réunion than in metropolitan France. With a lower average income in previous years, we expect the civil servant's wages to have crossed the P90 threshold, especially from 1960 to the end of the 20th century. Hence, while a part of the population earns relatively high wages on average, the rest of population earns very low wages. In fact, according to the INSEE, the ratio between the minimum wage and the minimum public servant wage was at around 0.40 in the 1980s and has increased to 0.50 in the 1990s, compared to 0.94 in metropolitan France.

Moreover, the declining trend in the top income shares observed in La Réunion from 1960 to 2014 can be explained by the following factors. First, with the devolution of power from the central government to a local departmental-level administration in 1985, the latter could implement more context specific policies in La Réunion. As detailed in section 2.2.2, there has been an explicit effort by the local-level government to bring more equality since its departmentalisation in 1946 and even more so since the creation of the Regional Council in La Réunion in 1985. Several policies were implemented over the course of this period. The ones which are the most relevant in this setting of pre-tax and transfer level of inequality are mainly the alignment of the minimum wage (SMIC) to the level of metropolitan France, as well as the reduced cost of social contribution implemented since 1994. Second, the catching-up process has not only been in terms of the alignment of social policies with metropolitan France, but also in terms of rapid growth. As seen in Figure 3.3, the GDP per capita of La Réunion as a proportion of the GDP per capita of France has increased from 30% in 1973 to 65% in 2014. In effect, our results point to the fact that from 1960 to 2000, the growth in the economy of La Réunion has mostly benefited the bottom 50%. As a result, since real wages of civil servants being roughly constant, it has led to a decrease in the level of top income shares.

The trends in income shares observed here are confirmed by the existing literature on income concentration in La Réunion. In fact, based on a review of the literature, Temporal (2006) categorises the period 1977 to 1994 into 3 distinct phases. First, the period 1977 – 1987 has seen a decline in the income of the well-off households leading to a higher concentration of income at intermediary levels. The period 1987 – 89 has witnessed an increase in the income of modest households followed by the last phase 1989 – 1994 of catch-up with metropolitan France as described above. In fact, the relative poverty rate in La Réunion went from 20-25% in 1977 to 15-20% in 1989 and further down to 10-15% in 1994 (Temporal, 2006). The poverty level is closely related

to the high unemployment rate prevailing in La Réunion biased towards the bottom end of the distribution, affecting mostly the illiterate, the unqualified and the low-skilled workers. There is a consensus in the literature that there is a greater disparity between La Réunion and France at the bottom of the distribution and less at the top. It is moreover interesting to understand the evolution of the top income shares in La Réunion from an international perspective. The next section lays down a comparative study with Mauritius and other socially-divided countries.

5 International Comparisons

5.1 La Réunion & Mauritius

5.1.1 Economic Situation of Mauritius

Separated by a few hundreds of kilometres of ocean from La Réunion, Mauritius is located on the east of La Réunion. Mauritius is best known for its economic success in the area as it ranks favourably high on many economic scores. It demarcates itself from other African countries by having a stable political environment, a rapid economic growth and a competitive and diversified economy. What is even more remarkable is that it has been able to achieved this in a span of 40 years after its independence in 1968, defying the gloomy predictions of the Nobel prize economist, James Meade. Against all odds, Mauritius has witnessed a rapidly rising GDP per capita since the 1980s as seen in Figure 5.1. In fact, real GDP growth has averaged around 4% over the three decades. Various factors can be pinned down to explain this relative success and resilience to external shocks, despite being a small insular state.

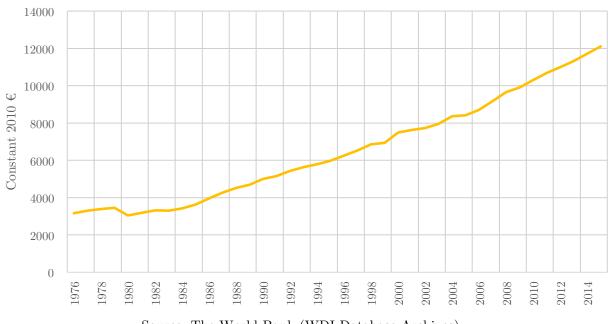


Figure 5.1: GDP per capita in Mauritius

Source: The World Bank (WDI Database Archives)

Mauritius has, since its independence, capitalised on international trade. It has struck deals in terms of preferential trade agreements, especially with the European Union, for the export of sugar, textile and clothing. These agreements have helped to boosted the production and export for more than two decades since the 1970s. Additionally, the setting up of an Export Processing Zones (EPZs) in the 1980s is deemed to have been one of the keys behind the success of the economy.

Given its financial and political stability, the country has also been able to attract high levels of FDI, holding Double Taxation Avoidance Agreements with several countries. It has also developed a well-regulated offshore financial sector which has grown over the years. It currently ranks first in The World Bank's "Ease of Doing Business" in Sub-Saharan countries and 49th in the world. Mauritius is also at the top of the Ibrahim Index of African Governance (IIAG) 2015, an index aimed at measuring governance progress in Africa based on 14 categories, among which there is rule of law, accountability, education, health and welfare. In fact, the Mauritian government has made laudable efforts in improving its human capital. In this respect, it has, since its independence, massively invested in its social welfare system, providing for universal access to free education and healthcare system. These factors have largely contributed in transforming the economy from one which was doomed to fail to an upper middle-income one.

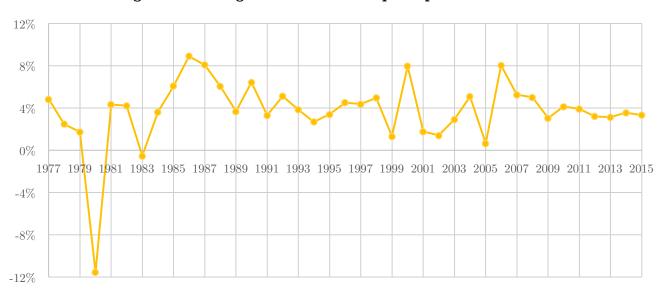


Figure 5.2: Real growth rate of GDP per capita in Mauritius

Source: The World Bank (WDI Database Archives)

For long, the Mauritian economy has been dependent on sugar production and oil imports. Hence growth rates have been highly sensitive to changes in world sugar prices and shocks in the oil market. In fact, the impact of the 1979 oil crisis on the Mauritian economy can be seen in Figure 5.2. Apart from this, benefiting from the Sugar Protocol which provided a guaranteed access to the European market for a given quantity of sugar at a preferential price since 1975 has enabled Mauritius to maintain a high growth rate throughout the years. However, this agreement has been dismantled on a phased-out basis since 2009.

Despite the slight volatility that can be witnessed in the income per capita growth rate, Mauritius has remained very resilient to shocks, especially in the aftermath of the 2008 financial crisis. This can be attributed to the extensively diversified economy that has been developed throughout the years. Despite starting as a mono-crop economy, Mauritius has been able to exploit its resources by developing its tourism sector and the financial sector. Similar to the experience in La Réunion, there has been a gradual shift of the economy away from agriculture can be observed in Figure 2.7, whereby the share of the primary sector in overall GDP has steadily decreased since the 1980s, reaching almost 3% in the recent years. The tertiary sector, on the other hand, has gained ground and its share in GDP has been increasing rapidly, especially after the 2000s.

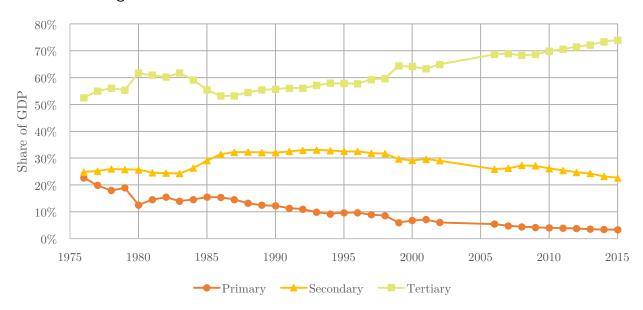


Figure 5.3: Evolution of the share of each sector in the GDP

Source: Statistics Mauritius

However, despite the steady growth rate, The World Bank Group (2015) points to the disproportionate benefit from growth accruing to the middle and top part of the distribution, leading to an increase in income inequality in the recent decade. According to the report, this trend can largely be explained by variations in employment income, coupled with the ineffectiveness of the progressive tax and redistribution system to impact the overall distribution. To understand how Mauritius fares vis-à-vis its neighbour, this paper construct a completed series of top income shares in Mauritius. It builds on the extensive work of Atkinson (2011) which looks at the income distribution and taxation in Mauritius over a period of 75 years, starting from 1933. This period is of particular interest as it spans over both the British colonial era and the post-independence period until 2008. In his paper, Atkinson presents the evolution of top incomes in Mauritius with the aim to contribute to the historical record and

make the data accessible through the WID. As acknowledged in his paper, it remains a preliminary work and a more in-depth analysis of the evolution of top incomes in Mauritius would require a deeper understanding of its society and its economy. The present paper seeks to bridge the gap by shedding light on the historical trajectories which could explain the evolution of the income inequality observed in Atkinson (2011), putting it in perspective with respect to its neighbouring island, La Réunion.

5.1.2 Mauritian History

The history of Mauritius is similar to that of its neighbouring French island in various respects. Having been discovered by the Portuguese and Dutch in the 16th centuries, the then uninhabited Mauritius saw its first small settlement until 1710. Since 1715, the French who had already settled in La Réunion took possession of Mauritius naming it "Isle de France". Having more land suited for cultivation in Mauritius, the French developed a sugar cane plantation and built a port to boost its exports and trade. During the Napoleonic war, the British declared a battle on the French settlement in Mauritius, which they won at the second attempt in 1810. It is at this point in time that both Mauritius and La Réunion were surrendered to the British. Judged of lower strategic importance, however, La Réunion was handed back to the French under the Treaty of Paris in 1814. Until then, Mauritius was inhabited mostly by French settlers and African-origins slaves.

French-Abolition French Independence British of slavery **Dutch Settlers** Colonisation from Britain Battle British Rule 1968 1715 1810 1835 1600s

Figure 5.4: Historical Timeline of Mauritius

Thereafter, the island has remained under the British rule for more than a century until its independence in 1968. This period has witnessed the co-existence of the existing French settlers and the British administration together with other ethnicities at the lower ranks of the society. The overall hierarchical structure of the society has remained roughly similar to the ones in the mid-20th century and various historical factors can explain this structure. Land ownership and ethnic fractionalisation are identified as the main ones. The post-independence period has witnessed a continued existence of a few powerful economic elite and the existing pattern of land ownership is undeniably skewed in favour of the latter. As put forward by Barrett et al., (2016), land ownership has played a major role in shaping the level of inequality present in post-colonial Africa. Mauritius has also been marked by a more distinct ethnic fractionalisation than in La

Réunion. Finally, the recent years have seen the emergence of numerous projects that may have widened the gap between the rich and the poor on the island.

Land ownership and ethnic fractionalisation

The roots of the land ownership in Mauritius can be traced back to the French settlement in the 18th century. French settlers were promised land concessions, easily provided due to the absence of a native population. When Mauritius was ceded to the British in 1815, the latter inherited an island with an already-established and functioning economic group. Since the interest of the British was merely to control the island, they allowed the existing French population to retain their property and economic activities as well as conserve their language, religion and culture. Over the century, under the British rule, the island remained mostly a mono-crop economy monopolised by the Franco-Mauritian elite forming a sugar oligarchy. With the abolition of slavery in Mauritius in 1835, the slave-owners were given adequate compensations for the loss of their valuable "property". Since ex-slaves fled to the coastal areas to fend for themselves, it was crucial for the elite to obtain another source of supply of cheap labour to sustain their plantation activities. As a result, the British, being largely dependent on the revenue from taxation generated by the sugar plantation, provided support to the Franco-Mauritian elite by bringing indentured labourers from India. Hence, the shared interest of the Franco-Mauritian elite and British colonial power served to establish a strong strategic relationship between the two.

Given the unfavourable world prices for sugar, the Franco-Mauritian sugar barons resorted to the sale of less productive and fragmented land³², mostly to Indo-Mauritians. This turn in the economic situation has allowed the latter to own and cultivate small plots of lands and thus acquire some economic and eventually political power. They were, however, not of serious threat to the hegemony of the elite until much later. In the 1930s, the rippling effect of the Great Depression on the Mauritian economy coupled with the dissatisfaction of the state of affairs on the island led to severe riots in 1937 and 1943. These came from the lower ranks of the society, in protest of their lack of access to the economic and political sphere. The latter, mostly small planters and labourers of Indian origins, set up against the big economic players- the sugar estate patrons. As a result, the British government could no longer turn a deaf ear to the plight of these groups and enacted a new Constitution giving more political rights to the erstwhile sidelined section of the population.

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³² Morcellement de terres

The period from 1940s up to its independence has been a very crucial one in shaping the political sphere for the decades to come, due to the formation of different political groups and the establishment of universal suffrage. The empowerment of a larger part of the society led to rising movements which fought for the rights of workers and the non-whites and later, for independence. The divide among the non-white were not clear-cut to say the least; with a large majority of Indo-Mauritians fighting for independence and a large majority of other ethnicities going against this movement in fear of a post-independence Hindu domination. For the most part, political party formations and elections have thereafter been played on ethnic grounds.

Losing on political grounds, the Franco-Mauritian elite has nevertheless been able to apply defensive power to maintain a status quo and hence retain their economic relevance over the years (Salverda, 2010). With the quasi-clear division between the political elite and the economic one, the power of the two groups has varied depending on the state of their relationship. It can basically be boiled down to two distinct phases, wherein during electoral campaigns, there is a period of "white-bashing" by politicians opposed to a strategy of political neutrality from the side of the Franco-Mauritian community and a second phase of mutual support and collaboration after elections. In order to appease the masses, the richest groups occasionally supported government projects or associations of other communities. In recent years, the minority of Franco-Mauritians has been joined by an even smaller minority of Sino-Mauritians (representing around 1,5% of the population) who have fared well economically throughout the years.

The strategy of "playing safe" by the elite has meant that they have kept a low profile and avoided to engage in political competition with the other ethnicities of the island, leaving the political sphere to be dominated by a majority of Indo-Mauritians and a minority of other ethnicities. With the wave of movements engaged in the fight for their rights, the Indo-Mauritius, being the majority ethnic group on the island dominated the public sphere, taking up most of the civil service jobs. If there is one group which has been at a clear disadvantage throughout the Mauritian history having been debarred from both the economic and political arenas, it would undoubtedly be the Creole population who are mostly of African and Malagasy descents. The 'malaise Creole' is a term that was coined in 1993 to describe the deplorable conditions in which working-class Mauritians of African descent live in.

The very fact that Mauritius does not include ethnicity as a variable in its census on the pretext of it being an obstacle to a unified national identity, rings an alarm bell on the prevailing division along ethnic lines on the island. It might reflect the reality that some ugly truths are being swept under the carpet. In fact, the Truth and Justice Commission Mauritius 2012 Report, established with the aim of analysing the

situations of African descents in Mauritius has pointed towards the ongoing discrimination that this group faces. Gill (2012) As depicted in Figure 5.5, the last ethnic census dating back to the 70s, grouped the population in four main groups as in the Constitution, namely the Hindus (52%) and Muslims (16%) forming the Indo-Mauritians, the Sino-Mauritians (3%) and the General Population (29%). Quite ironically, the last group roughly comprised of people who did not clearly fit into the first three categories, hence grouping together both Creoles (estimations to account for 27% of the whole population), mostly slave-descendants and Franco-Mauritians (estimated at 2%), for the majority slave-owners descendants.

Indo-Mauritian

Creole
Sino-Mauritian
Franco-Mauritian

68%

Figure 5.5: Ethnic composition in Mauritius

Source: Mauritius Population Census 1972

Given the ethnic divide in the island, the unwillingness of the successive governments to engage in a process of land-redistribution since colonial times has led to the perpetuating unequal distribution of land across the different ethnic groups on the island. This is not to say that every single person from the Franco-Mauritian elite does not face financial hardship but they are still relatively in better situations than those at the lower end of the distribution in the other communities. Hence, while the start at unequal footing may be pinned down as one of the factors of the formation of an elite group, its perpetuity lies in the status quo that has prevailed over the years, failing to bridge the gap between the different socio-economic and ethnic group in the island.

Integrated Resort Scheme (IRS) in 2001

To boost foreign investment, the IRS was put in place by the Mauritian government to attract wealthy foreigners to invest in real estate and buy residential properties, mostly in the form of luxurious villas with outstanding natural landscape and golf courses. It has allowed the Franco-Mauritian elite to retain their economic power by converting their agricultural land into luxurious resort under the IRS. While being open to the population at large, the IRS benefitted mostly the large landowners, namely the large sugarcane companies. Following protests from other groups of the society, the Real Estate Scheme (RES), which is similar to the IRS without a minimum sales price, was put in place in 2007. It allows smaller landowners also to convert their lands. The combined scheme is known as the Property Development Scheme (PDS).

Fiscal Paradise

For long, Mauritius has put a lot of effort in attracting foreign investment to boost its economy. It has attempted to achieve so through the implementation of various fiscal reforms. Given its good diplomatic ties to various countries, Mauritius has been able to conclude 43 tax treaties, with 30 additional ones in line for approval. Combined with this, the government has extensively simplified its taxation system to incorporate a flat income tax rate as well as corporate tax rate at 15%. In addition to this, the government does not impose any inheritance or capital gains tax as is usually the case in similar upper-middle and upper income countries. This fiscal framework has often earned Mauritius the name of a fiscal paradise and has been subject to various debates. The Double Taxation Avoidance Agreement (DTAA) with India in effect since 1982 has been particularly met with major opposition since a third of India's foreign investment were coming from Mauritius, a country having a population equal to 0.1% of that of India. This has led to a repeal of this agreement in 2016. Despite the effort to shrug off the fiscal paradise tag, Mauritius is repeatedly associated to this category due to its low level of taxation. It has for long been criticized by the international community on this ground.

5.1.3 Comparative Analysis: La Réunion & Mauritius

Given their historical and economic background, we attempt to analyse the differences between the trends in inequality observed in these two neighbouring islands³³. Looking at Figure 5.6 (a), we realise that the top 10% shares are substantially higher in La Réunion compared to Mauritius. In Mauritius, this share is stable at around 14- 15% from 1987 to 2000 and thereafter jumps to 19% in 2008. It is to be noted that level of the top 10% share in Mauritius is very low according to the WID standard and is comparable to the levels in Scandinavian countries. Given this low level of top income shares in Mauritius, even the steady decrease in the top 10% shares from the mid-1980s to 2000 in La Réunion has not been able to bridge the gap between the two. In fact, at its smallest point, the difference between the two is around 20 percentage points.

³³ Differences in taxation system may make the two series not perfectly comparable. Nevertheless, it provides an approximation of the relationship in inequality in La Réunion and Mauritius.

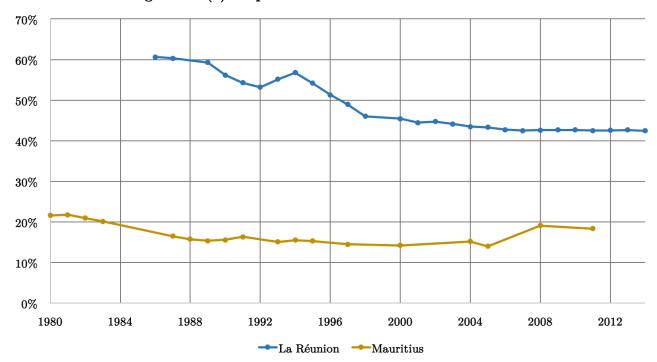


Figure 5.6 (a): Top 10% share in La Réunion and Mauritius

Source: Author's computation for La Réunion (see Appendix) and Atkinson (2011) for Mauritius

However, at the very top of the distribution, the gap between the two is less pronounced. Figure 5.6 (b) shows the top 1% shares in La Réunion compared to Mauritius. From 1986 to 2005, there is a major difference between the two, with top 1% having around 15% in La Réunion compared to a low level of 5% in Mauritius. However, due to an almost stable and later increasing trend in Mauritius, the decreasing trend in the top 1% shares in La Réunion has helped in narrowing down this gap. This is especially so after 2000, when Mauritius witnesses an increase in its top 1% share.

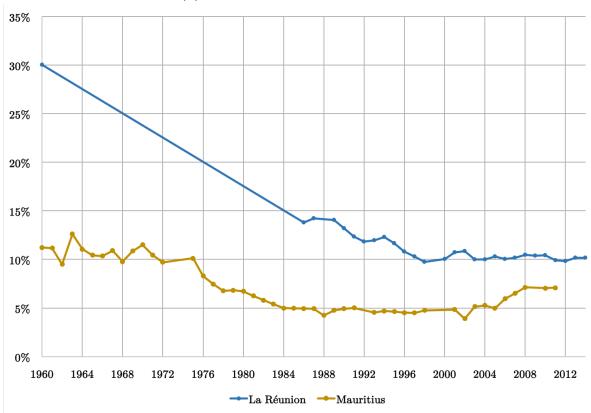


Figure 5.6 (b): Top 1% share in La Réunion and Mauritius

Source: Author's computation for La Réunion (see Appendix) and Atkinson (2011) for Mauritius

The changes in the inequality level in the recent years in Mauritius is quite alarming and if this trend is sustained, it might lead to a substantial deterioration of the economic divide in the island. This increasing trend can be possibly attributed to various factors. First, in a bid to facilitate business, attract foreign investment and respond to the general global tax competition, the Mauritian government has largely simplified its tax system, adopting a flat income tax rate in 2007. The purpose of this shift in the tax system has been claimed to be a way to broaden the tax base, improve compliance and facilitate administration.

Moreover, as explained in section 5.1.2, the implementation of the IRS might have contributed in attracting richer foreigners to invest in real estate driven by the possibility of earning the Mauritian citizenship. This framework does not only lead to a segregated society with an elite on one side and the rest of the population on the other, but it also mechanically increases the gap between the rich and the poor. In fact, Afrasia (2017) in the Africa Wealth Report has estimated a growth of 230% in the number of millionaires³⁴ between 2006 and 2016 due to various factors. Migration of a large number of wealthy individuals, particularly from France and South Africa is deemed to be one of the major factors. They estimate that around 280 millionaires

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 $^{^{34}}$ These are individuals with net assets of US\$1 million or more

have moved from South Africa to Mauritius since 2006, attributing it to the IRS which offers an automatic permanent residence, the low income and corporate tax rates. This might also be driven by the absence of inheritance and capital gains tax which is particularly appealing to businessmen and retirees.

A possible explanation for the difference observed between Mauritius and La Réunion could be in terms of differences in the elite formation and prevalence. Previous slaveowners and sugar barons in La Réunion have not faced major counter-powers throughout its history compared to the ones in Mauritius. The Franco-Mauritian elite's power have been kept in check first under the British rule and later by the opposing political power, explaining the discrepancy between the two. In fact, based on Figures 5.6 (a) and 5.6 (b), there seems to be a higher concentration of income in the top 1\% rather than the top 10% in Mauritius and the contrary in La Réunion suggesting that there are a few very rich individuals in Mauritius. It is in line with the hypothesis of the presence of an elite in Mauritius, which earn a much higher income than average but are so few in absolute numbers that they are not clearly seen in the data and hence, might not substantially drive the results. On the contrary, in La Réunion, there might be the co-existence of a small elite and well-paid civil servants earning much more that the rest of the population. Moreover, the difference in unemployment rate in the two islands is very significant, with an average unemployment rates of 35% in La Réunion compared to an average of 6% in Mauritius since the 1990s. This is an explanation for the very low share of the bottom 50% in La Réunion as seen in Figure 4.7.

5.2 La Réunion & Other socially divided societies

An interesting feature of the island is in terms of the mix of its population. While this ethnically diverse society does exist in Mauritius as well, it seems that it has been particularly detrimental to only part of the society. The African descendants remained at a disadvantage while the rest of the population- more specifically the Franco, Sino and Indo-Mauritians fared relatively well, each group through a different channel, hence leading to low levels of inequality. On the contrary, the ethnic diversity in La Réunion seems to be more pronounced with a line broadly drawn between the exsettlers' descendants together with the civil servants (mostly from metropolitan France) and the rest of the population, perhaps explaining the extremely high level of top income shares, especially in 1960. Hence, the level of inequality in La Réunion seems to reflect the situations that normally prevail in highly ethnically-divided societies. We hence compare La Réunion to the South African case. Exploiting tax data reported by ethnic groups in South Africa, Alvaredo and Atkinson (2010) find that there is high concentration of Whites in the top income shares with 97.5% White in the top 0.1% in 1987. However, such an analysis cannot be replicated in the context of La Réunion given that it is subject to the colour-blind policy that exists in France.

Despite the divide during the apartheid period in South Africa, the dominating group were ruling a relatively poor country explaining why they could not extract a much higher share of income. However, in recent years, the growth in the South African economy has enabled the economically-powerful few to obtain a higher share of total income. In fact, the top income shares we observe in La Réunion in the mid-1980s is comparable to the current levels prevailing in South Africa. Hence, while growth has benefited more the middle and bottom group in La Réunion, leading to a decline in its top income shares, it had the reverse effect in South Africa. It is interesting to note that the top 1% shares in La Réunion in 1960 is even higher than what we observe for South Africa throughout the period.

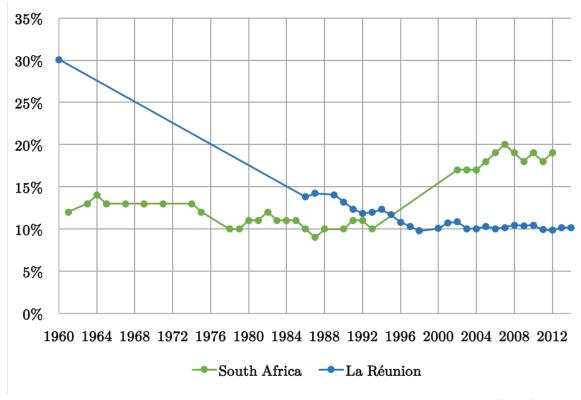


Figure 5.7: Top income shares in La Réunion and South Africa

Source: Own estimations for La Réunion and Alvaredo and Atkinson (2010)

It is even more interesting to compare La Réunion with other former French colonies which exhibit similar ethnic divides. Alvaredo et al. (2016) observes the top income shares in French Algeria, Cameroon, Indochina and Tunisia during the period of 1920 – 1960. Much emphasis is laid on the racial and economic divide between the settlers of metropolitan descendants making the bulk of the top-income earners and the autochthon and slave population at the bottom of the distribution. In fact, comparable to La Réunion in 1960, Algeria had a top 1% share of 30% in the 1930s, during its colonial period. This implies that more than a decade after its departmentalisation, La Réunion was witnessing an inequality level comparable to colonial times in Algeria. It

also lays down an interesting comparison whereby in South Africa, the economically powerful group were integrated in South Africa for a much longer period of time while in Algeria, there was a colonial relationship between the top and bottom groups. The situation in La Réunion in 1960 can be placed in between the two extremes. It certainly had the colonial aspect of extraction, even after its departmentalisation but nevertheless it had a powerful economic elite which was present on the island for generations.

6 Way Forward

The results presented in this analysis are subject to changes, especially after refining the corrections made and with the availability of more precise long-term estimates of total income for La Réunion. Nevertheless, they provide insights on the level of inequality prevailing in La Réunion. Assessing the role of civil servants' wages in explaining top income shares will require more detailed data on the wages paid to different categories of workers in La Réunion since the mid-20th century.

Going further, this analysis could explore the link between inequality and demography. Despite being part of France, La Réunion has very interesting demographic specificities on various fronts. Hence, linking the demographic factors of La Réunion to its observed level of inequality may allow us to better understand the mechanism underlying the trends in the top income shares. First, looking at the geographical concentration of different income groups could be an interesting extension of this paper. The island is characterised by pockets of poverty in specific areas based on its historical and colonial legacy. Second, in exploring the channel of public wages, it would be interesting to analyse the group of people who benefit the most from it. Cogneau and Dumont (2000) argues that the demographic structure of public employment in La Réunion might play a role in widening the gap between the expatriate households, the local qualified ones and the local non-qualified households.

These results also bring forward the discussion about the prevalence of an ethnic divide in La Réunion and its role in driving income inequality. Further research could look into the case of Mauritius and La Réunion since the ethnic fractionalisation is expected to map a pattern of income inequality. It has been established in related sociological and anthropological literature than African descendants are still today at the bottom of the distribution and the colonisers' descendants at the very top of the distribution in these islands. The perpetuity of inequality that this divide entails may shed more light on the difference between the top income shares in Mauritius and La Réunion.

While we have spoken lengthily about income inequality, it should be reminded that a study of wealth inequality is in order to better grasp the situation prevailing in the island. This is especially the case for Mauritius due to the implementation of various asset and investment schemes and taxation reforms to attract wealthy foreigners, some of whom relocate in Mauritius. Hence, a comparative analysis in terms of wealth inequality could allow us to complement the current analysis and capture a more complete picture.

The dynamics of wealth inequality might also shed more light on the colonial legacy in the two islands since there has been little or no land redistribution and hence properties acquired during colonial times have been passed over from one generation to the next, often creating dynasties. This raises the question of inter-generational income and wealth mobility. In addition to this, both being considered to be prized retirement destinations for its sandy beaches and fiscal advantages, La Réunion and Mauritius is increasingly receiving rich foreigners who invest and settle on the island in their old age.

Furthermore, in this paper, we have focused on La Réunion, one of the five overseas departments (DOM) of France. It would be particularly interesting to extend this analysis to the other overseas departments, namely Guadeloupe, Martinique, Guiana and Mayotte to see the different impact of the same colonial power in different settings. In fact, Martinique ranks third in terms of the departments with the highest inequality based on the Gini coefficient. A second equally interesting extension could be to explore demographic structures that are at play in these different territories and understand their links to inequality. With the high rates of internal migration between the overseas departments and metropolitan France, the former witness a highly dynamic demographic profile.

In fact, the high unemployment rates that prevails on these territories might be a driving factor for this movement. As a result, the poorer section would migrate in an attempt to improve their economic conditions, very often ending up in low-paid jobs in metropolitan France. On the other hand, the relatively well-off and more qualified who move to the mainland aim to acquire higher qualifications and better professional experiences. Hence, upon their return to their native overseas department, if they do return, they have higher chances of being employed in better positions compared to their counterparts who never left (Temporal, 2011). This puts the latter, who are often from the worse socioeconomic background, at a significant disadvantage, perpetuating the cycle of inequality. Moreover, as is known in the literature on migration, cost of migration imply that richer and more skilled people are more likely to migrate than their poorer and low-skilled counterparts. However, the income threshold to migrate might be lower in the case of La Réunion due to the deep link with metropolitan France.

7 Conclusion

Despite being part of the same country, La Réunion has few in common with metropolitan France, except for the language and the administration. Marked by decades of high unemployment rate and low proportion of qualified people, La Réunion has faced a challenging task in bridging the gap between the richest and poorest. Using tabulated income tax data published since the 1960s, I have estimated the distribution of income in La Réunion and computed the shares of income accruing to the richest. The results show that income inequality has been extremely high since 1960. Thereafter, the top income shares have witnessed a significant drop throughout the end of the 20th century, stabilising as from the 2000s. However, despite this declining trend in inequality, it has for the most part been higher than in metropolitan France.

In an attempt to explain the discrepancy between the trends observed in La Réunion and France, we explore the possible explanation that high wages of civil servants topped up with a premium might be a driving factor of the top income shares. This is coupled with a high level of unemployment rate and a minimum wage standing at lower rates than in metropolitan France, explaining the high level of top income shares in La Réunion. It seems that over the years, this factor has played a less important role given the rapid growth of the economy and the implementation of social policies targeted to reduce inequality in La Réunion. The catch-up process with metropolitan France has allowed for a reduction in the perceived level of inequality which is even more crucial in an ethnically diverse society to preserve its social cohesion. Yet, despite the effort for more equality, we still observe a persistently higher level of income inequality in La Réunion than in France in the recent decade.

We also put these results in an international perspective. We provide an extensive analysis of the Mauritian history and economy and conduct a comparison with La Réunion in terms of their top income shares given their geographical, cultural and historical proximity. While Mauritius has a much lower level of top income shares throughout the period, the gap between the two islands seems to narrow down in the recent years. Since both series do not go back to the colonial period, the period of analysis only provides an insight into the situation prevailing in the two islands post-departmentalisation in one case and post-independence in the other. Based on this, we explore the hypothesis of a different colonial legacy between the two, with the elite in La Réunion not facing major opposition compared to the one in Mauritius which dealt with a British administration and an Indo-Mauritian political power. We speculate that this historical turn could explain part of the fact that there is a higher concentration of income at the top in La Réunion than in Mauritius. To obtain more insight, we also compare the results with other ethnically divided societies and find

that our results are comparable to the South African experience during the apartheid period and in recent years. It is also true for Algeria during its colonial period.

Further research should delve deeper in the channels that could lead to the observed levels of inequality, without sidelining the demographic aspect of it. First, we will focus on an individualised unit of observation rather than the tax unit to disentangle the effect of differences in demographic characteristics when comparing the level of top income shares between La Réunion and other territories. Second, we hope to further investigate the role of the public-private employment structure in La Réunion in explaining the top income shares. Third, this project has laid ground for future work analysing the link between inequality and demographic phenomena specific to La Réunion, such as migration to metropolitan France and the ethnic-divide.

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Appendix

A. Tabulated Income Tax Data

The income tax data at the departmental level for La Réunion from 1960 to 2014 has been obtained from various sources, namely the *Direction Générale des Impôts* (DGI), the *Etats 1921* obtained from the *Centre des Archives d'Economiques et Financières* (CAEF), the *Archives des Données Issues de La Statistique Publique* (ADISP), the Réseau Quêtelet and the *Direction Générals des Finances Publiques* (DGFIP).

Table A1: Sources of Income Tax Data for La Réunion (1960 – 2014)

| Year | Sources |
|------|---|
| | Rendu Des Lois Relatives Aux Impots Sur Le Revenus (No 2371)- DGI |
| | Situation au 31/12/n+1 |
| 1960 | INSEE- L'Economie de La Réunion- Panorama |
| | Situation au $31/12/n+2$ |
| 1986 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 1987 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 1989 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 1990 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 1991 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 1992 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 1993 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 1994 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 1995 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 1996 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 1997 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 1998 | Etats 1921, situation au 31/12/n+2, Tableau IIA |
| 2000 | ADISP- Bureau GF-3C, Réseau Quêtelet |
| 2001 | ADISP- Bureau GF-3C, Réseau Quêtelet |
| 2002 | ADISP- Bureau GF-3C, Réseau Quêtelet |
| 2003 | DGFiP, impots.gouv.fr |
| 2004 | DGFiP, impots.gouv.fr |
| 2005 | DGFiP, impots.gouv.fr |
| 2006 | DGFiP, impots.gouv.fr |
| 2007 | DGFiP, impots.gouv.fr |
| 2008 | DGFiP, impots.gouv.fr |
| 2009 | DGFiP, impots.gouv.fr |
| 2010 | DGFiP, impots.gouv.fr |
| 2011 | DGFiP, impots.gouv.fr |
| 2012 | DGFiP, impots.gouv.fr |
| 2013 | DGFiP, impots.gouv.fr |
| 2014 | DGFiP, impots.gouv.fr |

The publication of the income tax data normally happens at two points in time, namely at 31/12/n+1 and 31/12/n+2. In the second case, the administration takes into account any payments or mistakes that has not been accounted for in the first version. Hence, the data at 31/12/n+2 represents the most updated form of the tax data and we attempt to use this whenever it is possible. For the year 1960, we have been able to obtain the complete tabulated income tax data for the situation at 31/12/n+1. Moreover, we have retrieved a partial tabulation data for 1960 at 31/12/n+2 from INSEE publications. However, the latter only reports the number of taxable tax units per income range. In order for the estimates of 1960 to reflect the actuall situation, there is a need to account for 394 additional individuals who appear in n+2 but not in n+1. 85% of these individuals belong to the lowest thresholds. However, in the results presented in this paper, we did not attempt to correct for this and hence the top 1% for 1960 is subject to change.

As for the data available online on the website of the DGFiP, the revenue for the year n is published under the name "L'impôt sur le revenus n+1" as from 1999. This has in effect led to a missing year L'impôts sur le revenu 1999 which was instead called L'impôts sur le revenue 2000. For instance, L'impôts sur le revenu 2004 is indeed the situation at 31/12/n+2 but refers to revenue earned in 2003. The last publication by the DGFiP at the time of writing of this paper concerned the revenue earned in 2014. The data for 2015 should be available in the near future.

The tabulated income tax data consists of the number of taxable tax units and their income by income ranges. Table A2 provides an example of the raw tax data for the year 2002

Table A2: Tabulated Income Tax for the year 2002

| Income Range (€) | Number of tax units | Taxable Income | |
|------------------|------------------------|----------------|--|
| | | | |
| Less than 9 000 | $236\ 565$ | 708 162 206 | |
| 9 000 - 12 000 | 30 833 | 317 536 853 | |
| 12 000 - 19 000 | 33 692 | 509 106 078 | |
| 19 000 - 31 000 | 29 192 | 705 364 890 | |
| 31 000 - 78 000 | 24 286 | 1 102 505 958 | |
| More than 78 000 | 3 336 | 453 625 000 | |
| Total | 357 904 | 3 796 300 985 | |

Source: DGFiP

The number of tax units presented in this table represents both the taxable and non-taxable tax units. The tax administration has starting reporting data for both taxable

and non-taxable tax units from 1985 onwards. Prior to that, only the number of taxable tax units and their corresponding income were reported in the tax data. Moreover, based on Figure 3.2, it is assumed that it became mandatory for all tax units to fill a tax form, thereby declaring their income as from 2001. There is thus a need to estimate the total number of tax units for the years prior to 2001.

B. Control Total for Population

The data for population is obtained from various INSEE publications, namely L'économie de La Réunion-Panorama (1985 – 1991) and Tableau Economique de La Réunion (1992 – 2014). These INSEE data are based on the various rounds of the population censuses. The years for which each of the variable of interest is observed is detailed in Table B.1.

| | Table Bill Scarces for . | - F |
|---------------------|--|--|
| Variable | Years | Source |
| Total Population | 1954, 1961, 1967, 1974, | INSEE- based on various |
| Adult Population | 1977-1982, 1986-2014 | Population Census |
| Number of | 1954, 1961, 1967, 1974, | INSEE- based on various |
| married couples | 1982, 2006-2014 | Population Census |
| Number of household | 1954, 1961, 1967, 1974, 1982, 1994, 1997, 1999, 2006, 2008, 2010, 2013 | INSEE- based on various Population Census |

Table B.1: Sources for Population Data

In order to obtain an uninterrupted total and adult population series from 1954 to 2014, the data is linearly interpolated for the years in between. The ratio between the number of married couples and the adult population is then estimated for the years for which we have the data for the number of married couples. This is then linearly interpolated to fill in the years in between and multiplied by the adult population to obtain a complete series for the number of married couples. In effect, from table B.2, column (2)=(3)*(1).

These data are then used to estimate a control total for population for the years 1986 – 2014, which is the total number of tax units which would have been observed if all the tax units were required to fill a form. Since in the French tax system, married or PACsed couples fill a unique form, an estimation of the number of tax units is constructed as the difference between the adult population, defined as individuals above 20 years old and the number of couples. From table B.2, column (4) which is the estimated control total for population is equal to (1) - (2). Column (5) gives the total number of tax units (taxable and non-taxable) declared in the tax data. Column (6) is the estimated proportion of declared tax units which (5)/(4). It can be seen that as

from 2001, this proportion is close to 100%, hence leading to our assumption that all tax units were required to declare their income as from 2001 in La Réunion. Column (7) reports the total number of tax units that is assumed in this paper. From 1954 to 1998, it is equal to the estimated control total for population (col 4). From 2001 to 2014, it is the total number of tax units obtained from the tax data. The years 1999 and 2000 are interpolated to smooth out the estimation from one source to another.

Table B.2: Population data and Estimation of total number of tax units

| Year | Adult Population (1) | Number of married Couples (2) | Ratio (No of married couple/ Adult Population) (3) | Estimated Total number of Tax Units (4) | Number of declared tax units (5) | Estimated proportion of declared tax units (6)=(5)/(4) | Total Number of Tax Units (7) |
|------|----------------------------|--|--|---|---|--|-------------------------------|
| 1954 | 126 210 | 36 500 | 0,29 | 89 710 | | | 89 710 |
| 1955 | 131 127 | 37 822 | 0,29 | 93 304 | | | 93 304 |
| 1956 | 136 044 | 39 137 | 0,29 | 96 906 | | | 96 906 |
| 1957 | 140 960 | 40 445 | 0,29 | 100 515 | | | 100 515 |
| 1958 | 145 877 | 41 745 | 0,29 | 104 132 | | | 104 132 |
| 1959 | 150 794 | 43 037 | 0,29 | 107 756 | | | 107 756 |
| 1960 | 155 710 | 44 322 | 0,28 | 111 388 | | | 111 388 |
| 1961 | 160 627 | 45 600 | 0,28 | 115 027 | | | 115 027 |
| 1962 | 164 248 | 46 978 | 0,29 | 117 270 | | | 117 270 |
| 1963 | 167 869 | 48 372 | 0,29 | 119 497 | | | 119 497 |
| 1964 | 171 490 | 49 781 | 0,29 | 121 709 | | | 121 709 |
| 1965 | 175 110 | 51 205 | 0,29 | 123 905 | | | 123 905 |
| 1966 | 178 731 | 52 645 | 0,29 | 126 086 | | | 126 086 |
| 1967 | 182 352 | 54 100 | 0,30 | 128 252 | | | 128 252 |
| 1968 | 187 537 | 54 919 | 0,29 | 132 618 | | | 132 618 |
| 1969 | 192 723 | 55 699 | 0,29 | 137 024 | | | 137 024 |
| 1970 | 197 908 | 56 439 | 0,29 | 141 469 | | | 141 469 |
| 1971 | 203 093 | 57 139 | 0,28 | 145 955 | | | 145 955 |
| 1972 | 208 278 | 57 799 | 0,28 | 150 480 | | | 150 480 |
| 1973 | 213 464 | 58 419 | 0,27 | 155 044 | | | 155 044 |
| 1974 | 218 649 | 59 000 | 0,27 | 159 649 | | | 159 649 |
| 1975 | 222 286 | 59 878 | 0,27 | 162 408 | | | 162 408 |
| 1976 | 225 923 | 60 752 | 0,27 | 165 171 | | | 165 171 |
| 1977 | 229 560 | 61 623 | 0,27 | 167 937 | | | 167 937 |
| 1978 | 235 243 | 63 038 | 0,27 | 172 205 | | | 172 205 |
| 1979 | 240 114 | 64 232 | 0,27 | 175 882 | | | 175 882 |
| 1980 | 244 352 | 65 251 | 0,27 | 179 101 | | | 179 101 |
| 1981 | 252 202 | 67 230 | 0,27 | 184 972 | | | 184 972 |

| 1982 | 271 698 | 72 300 | 0,27 | 199398 | | | 199 398 |
|------|---------|---------|------|---------|---------|-------------|---------|
| 1983 | 279 206 | 73 691 | 0,26 | 205 515 | | | 205 515 |
| 1984 | 286 714 | 75 050 | 0,26 | 211 664 | | | 211 664 |
| 1985 | 294 222 | 76 376 | 0,26 | 217 846 | | | 217 846 |
| 1986 | 301 730 | 77 669 | 0,26 | 224 061 | 65 470 | 29,2% | 224 061 |
| 1987 | 313 240 | 79 951 | 0,26 | 233 289 | 72 942 | 31,3% | 233 289 |
| 1988 | 324 750 | 82 183 | 0,25 | 242 567 | 83 772 | 34,5% | 242 567 |
| 1989 | 334 250 | 83 861 | 0,25 | 250 389 | 94 601 | 37,8% | 250 389 |
| 1990 | 345 767 | 85 999 | 0,25 | 259 768 | 115 877 | 42,9% | 259 768 |
| 1991 | 357 284 | 88 087 | 0,25 | 269 197 | 127 758 | $47,\!5\%$ | 269 197 |
| 1992 | 367 277 | 89 753 | 0,24 | 277 524 | 142 486 | $51,\!3\%$ | 277 524 |
| 1993 | 377 659 | 91 469 | 0,24 | 286 190 | 170 839 | 59,7% | 286 190 |
| 1994 | 387 896 | 93 106 | 0,24 | 294 790 | 189 019 | 64,1% | 294 790 |
| 1995 | 398 475 | 94 779 | 0,24 | 303 696 | 208 289 | $68,\!6\%$ | 303 696 |
| 1996 | 409 080 | 96 413 | 0,24 | 312 667 | 237 884 | 76,1% | 312 667 |
| 1997 | 418 887 | 97 814 | 0,23 | 321 073 | 260 121 | 81,0% | 321 073 |
| 1998 | 429 001 | 99 243 | 0,23 | 329 758 | 280 034 | 84,9% | 329 758 |
| 1999 | 438 450 | 100 477 | 0,23 | 337 973 | 302 391 | $89,\!5\%$ | 333 385 |
| 2000 | 449 215 | 101 967 | 0,23 | 347 248 | 324 748 | 93,5% | 337 013 |
| 2001 | 459 401 | 103 281 | 0,22 | 356 120 | 340 641 | 95,7% | 340 641 |
| 2002 | 468 652 | 104 343 | 0,22 | 364 309 | 357 904 | $98,\!2\%$ | 357 904 |
| 2003 | 477 735 | 105 327 | 0,22 | 372 408 | 372 409 | 100,0% | 372 409 |
| 2004 | 487 041 | 106 320 | 0,22 | 380 721 | 385 233 | $101,\!2\%$ | 385 233 |
| 2005 | 497 497 | 107 521 | 0,22 | 389 976 | 394 963 | $101,\!3\%$ | 394 963 |
| 2006 | 505 997 | 108 259 | 0,21 | 397 738 | 406 899 | $102,\!3\%$ | 406 899 |
| 2007 | 515 917 | 109 288 | 0,21 | 406 629 | 418 180 | 102,8% | 418 180 |
| 2008 | 528 186 | 110 481 | 0,21 | 417 705 | 429 514 | 102,8% | 429 514 |
| 2009 | 536 779 | 110 150 | 0,21 | 426 629 | 435 180 | 102,0% | 435 180 |
| 2010 | 542 938 | 110 130 | 0,20 | 432 808 | 449 071 | 103,8% | 449 071 |
| 2011 | 553 642 | 110 807 | 0,20 | 442 835 | 448 755 | $101,\!3\%$ | 448 755 |
| 2012 | 561 808 | 110 902 | 0,20 | 450 906 | 458 078 | $101,\!6\%$ | 458 078 |
| 2013 | 566 375 | 109 595 | 0,19 | 456 780 | 468 201 | $102,\!5\%$ | 468 201 |
| 2014 | 572 962 | | | | 478 291 | | 478 291 |

In order to grasp the demographic aspect of La Réunion and the evolution of proportion of taxable tax units over time, we may refer to Table B.3. Column 1 provides the number of taxable units as reported in the tabulated tax data. For the years prior to 1986, this data is obtained from various INSEE publications, namely *l'Economie de La Réunion-Panorama* and *Tableau Economique de La Réunion* for which only the total number of taxable tax unit per income ranges are available. Column (2) of Table B.2 provides an estimate of the proportion of taxable tax units by dividing the number of taxable tax units by the total number of tax units (Col. 7 of Table B.2). Column (3)

is the number of household as obtained from INSEE publications for the years mentioned in Table B.1. The data is linearly interpolated for the years in between to obtain an uninterrupted series for the number of household. The ratio of tax units per household is estimated in column (4)=(col 7 of Table B.2)/col(3). Column (5) is taken from the estimations of Garbinti et al., (2017). Column (6) and (7) reports the total population of La Réunion and France respectively. The last column estimates La Réunion's population as a proportion of France's population.

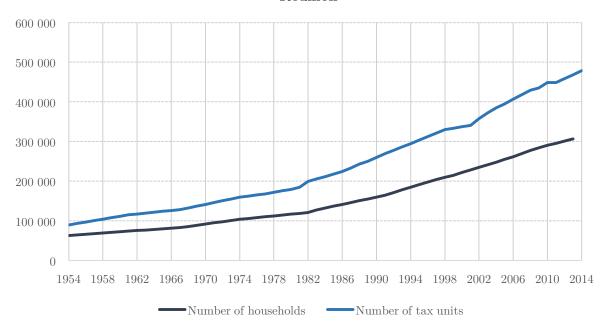
Table B.3: Evolution of proportion of taxable units and demographic dynamics

| Number of taxable tax units (1) | Estimated proportion of taxable tax units (2) | Number of household (3) | Ratio Tax Units per household (Réunion) (4) | Ratio Tax unit per household (France) (5) | Total Population La Réunion (6) | Total Population France (7) | Réunion Population as % Total Population of France (8) |
|---------------------------------------|---|-------------------------------|---|--|--|-----------------------------------|--|
| 2 124 | 2,5% | | | 1,28 | 262 122 | 42 661 | 0,61% |
| 2 641 | 3,0% | | | 1,28 | 266 205 | 42 967 | $0,\!62\%$ |
| 2 811 | $3,\!2\%$ | | | 1,28 | 270 287 | 43 300 | $0,\!62\%$ |
| 2 836 | $3,\!2\%$ | 62 764 | 1,43 | 1,28 | 274 370 | 43 582 | $0,\!63\%$ |
| 3 381 | 3,6% | 64 387 | 1,45 | 1,28 | 285 072 | 43 942 | $0,\!65\%$ |
| 3 874 | 4,0% | 66 011 | 1,47 | 1,28 | 295 773 | 44 359 | $0,\!67\%$ |
| 4 341 | $4,\!3\%$ | 67 634 | 1,49 | 1,28 | 306 475 | 44 809 | $0,\!68\%$ |
| 4 619 | 4,4% | 69 258 | 1,50 | 1,28 | 317 177 | 45 334 | 0,70% |
| 4 588 | $4,\!3\%$ | 70 881 | 1,52 | 1,28 | 327 879 | 45 805 | 0,72% |
| 5 412 | 4,9% | 72 505 | 1,54 | 1,28 | 338 580 | 46 275 | 0,73% |
| 5 884 | 5,1% | 74 128 | 1,55 | 1,28 | 349 282 | 46 733 | 0,75% |
| 6 824 | $5,\!8\%$ | 75 566 | 1,55 | 1,28 | 360 489 | 47 273 | 0,76% |
| 8 540 | 7,1% | 77 004 | 1,55 | 1,28 | 371 696 | 48 458 | 0,77% |
| 8 842 | $7,\!3\%$ | 78 442 | 1,55 | 1,28 | 382 904 | 48 965 | 0,78% |
| 9 803 | 7,9% | 79 879 | 1,55 | 1,28 | 394 111 | 49 490 | $0,\!80\%$ |
| 10 483 | $8,\!3\%$ | 81 317 | 1,55 | 1,28 | 405 318 | 49 902 | 0,81% |
| 11 798 | $9,\!2\%$ | 82 755 | 1,55 | 1,27 | 416 525 | 50 343 | 0,83% |
| 12 859 | 9,7% | 85 785 | 1,55 | 1,27 | 416 525 | 50 712 | 0.82% |
| $13\ 372$ | 9,8% | 88 814 | 1,54 | 1,27 | 426 550 | 51 117 | 0,83% |
| $14\ 576$ | $10,\!3\%$ | 91 844 | 1,54 | 1,26 | 436 575 | 51 559 | 0.85% |
| 15 193 | $10,\!4\%$ | 94 873 | 1,54 | 1,26 | 446 600 | 52 071 | 0.86% |
| 16 824 | $11,\!2\%$ | 97 903 | 1,54 | 1,26 | 456 625 | 52 564 | 0.87% |
| 18 907 | $12,\!2\%$ | 100 932 | 1,54 | 1,25 | 466 650 | 53 017 | 0,88% |
| 20 989 | 13,1% | 103 962 | 1,54 | 1,24 | 476 675 | 53 444 | 0,89% |
| $23\ 072$ | $14,\!2\%$ | 106 077 | 1,53 | 1,24 | 476 675 | 53 744 | 0,89% |
| 26 203 | 15,9% | 108 192 | 1,53 | 1,23 | 483 206 | 53 961 | 0,90% |
| 27 741 | $16,\!5\%$ | 110 307 | 1,52 | 1,22 | 489 737 | 54 200 | 0,90% |
| 31 039 | 18,0% | 112 423 | 1,53 | 1,22 | 495 122 | 54 473 | 0,91% |

| 32 903 | • | 1 | | • | ı | | | |
|--|-----------|------------|---------|------|------|---------|-----------|------------|
| 34 503 18,7% 118 768 1,56 1,21 510 316 55 290 0,92% 36 392 18,3% 120 883 1,58 1,20 515 814 55 619 0,93% 38 153 18,6% 127 579 1,61 1,20 524 486 55 956 0,94% 38 775 18,3% 132 200 1,60 1,20 533 157 56 221 0,95% 34 91 17,7% 136 821 1,59 1,20 544 829 56 505 0,96% 34 671 15,5% 141 442 1,58 1,21 550 500 56 780 0,97% 34 666 14,9% 146 064 1,60 1,24 560 000 57 072 0,98% 35 009 14,4% 150 685 1,61 1,24 560 000 57 705 1,00% 36 483 14,6% 155 9927 1,62 1,27 597 828 58 035 1,03% 41 944 15,6% 164 549 1,64 1,28 607 837 58 321 | 32 903 | 18,7% | 114 538 | 1,54 | 1,21 | 499 930 | 54 701 | 0,91% |
| 36 392 18,3% 120 883 1,58 1,20 515 814 55 619 0,93% 38 153 18,6% 127 579 1,61 1,20 524 486 55 956 0,94% 38 775 18,3% 132 200 1,60 1,20 533 157 56 221 0,95% 38 491 17,7% 136 821 1,59 1,20 541 829 56 505 0,96% 34 661 15,5% 141 442 1,58 1,21 550 500 56 780 0,97% 34 666 14,9% 146 064 1,60 1,24 560 600 57 072 0,98% 35 009 14,4% 150 685 1,61 1,24 569 600 57 379 0,99% 36 483 14,6% 155 306 1,61 1,26 578 500 57 705 1,00% 38 904 15,0% 159 927 1,62 1,27 597 828 58 035 1,00% 43 714 15,8% 171 244 1,62 1,29 620 333 58 613 | 33 409 | 18,7% | 116 653 | 1,54 | 1,21 | 505 321 | 54 972 | 0,92% |
| 38 153 18,6% 127 579 1,61 1,20 524 486 55 956 0,94% 38 775 18,3% 132 200 1,60 1,20 533 157 56 221 0,95% 38 491 17,7% 136 821 1,59 1,20 541 829 56 505 0,96% 34 671 15,5% 141 442 1,58 1,21 550 500 56 780 0,97% 34 666 14,9% 146 064 1,60 1,24 560 000 57 072 0,99% 35 009 14,4% 150 685 1,61 1,24 560 600 57 379 0,99% 36 483 14,6% 155 306 1,61 1,26 578 500 57 705 1,00% 38 904 15,0% 159 927 1,62 1,27 597 828 58 035 1,03% 41 944 15,6% 164 549 1,64 1,28 607 837 58 321 1,04% 43 714 15,8% 177 240 1,61 1,29 633 030 58 895 | $34\ 503$ | 18,7% | 118 768 | 1,56 | 1,21 | 510 316 | $55\ 290$ | 0,92% |
| 38 775 18,3% 132 200 1,60 1,20 533 157 56 221 0,95% 38 491 17,7% 136 821 1,59 1,20 541 829 56 505 0,96% 34 671 15,5% 141 442 1,58 1,21 550 500 56 780 0,97% 34 666 14,9% 146 064 1,60 1,24 560 000 57 072 0,98% 35 009 14,4% 150 685 1,61 1,24 569 600 57 379 0,999% 36 483 14,6% 155 306 1,61 1,26 578 500 57 705 1,00% 41 944 15,6% 164 549 1,62 1,27 597 828 58 035 1,03% 41 944 15,6% 164 549 1,64 1,28 607 837 58 321 1,04% 43 714 15,8% 171 940 1,61 1,29 620 333 58 613 1,06% 45 882 16,0% 177 940 1,61 1,29 633 030 58 895 | 36 392 | 18,3% | 120 883 | 1,58 | 1,20 | 515 814 | 55 619 | 0.93% |
| 38 491 17,7% 136 821 1,59 1,20 541 829 56 505 0,96% 34 671 15,5% 141 442 1,58 1,21 550 500 56 780 0,97% 34 666 14,9% 146 064 1,60 1,24 560 000 57 072 0,98% 35 009 14,4% 150 685 1,61 1,24 569 600 57 379 0,99% 36 483 14,6% 155 306 1,61 1,26 578 500 57 705 1,00% 38 904 15,0% 159 927 1,62 1,27 597 828 58 035 1,03% 41 944 15,6% 164 549 1,64 1,28 607 837 58 321 1,04% 45 882 16,0% 177 940 1,61 1,29 623 33 58 613 1,06% 45 882 16,0% 177 940 1,51 1,29 633 030 58 895 1,07% 48 024 16,3% 184 635 1,60 1,30 645 093 59 113 | 38 153 | 18,6% | 127 579 | 1,61 | 1,20 | 524 486 | 55 956 | 0.94% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 38 775 | 18,3% | 132 200 | 1,60 | 1,20 | 533 157 | 56 221 | 0.95% |
| $\begin{array}{c} 34\ 666 \\ 35\ 009 \\ 14.4\% \\ 150\ 685 \\ 1.61 \\ 1.24 \\ 569\ 600 \\ 57\ 379 \\ 0.99\% \\ 36\ 483 \\ 14.6\% \\ 155\ 306 \\ 1.61 \\ 1.24 \\ 569\ 600 \\ 57\ 379 \\ 0.99\% \\ 36\ 483 \\ 14.6\% \\ 155\ 306 \\ 1.61 \\ 1.26 \\ 578\ 500 \\ 57\ 705 \\ 1.00\% \\ 38\ 904 \\ 15.0\% \\ 159\ 927 \\ 1.62 \\ 1.27 \\ 597\ 828 \\ 58\ 035 \\ 1.03\% \\ 41\ 944 \\ 15.6\% \\ 164\ 549 \\ 1.64 \\ 1.28 \\ 607\ 837 \\ 58\ 321 \\ 1.04\% \\ 43\ 714 \\ 15.8\% \\ 171\ 244 \\ 1.62 \\ 1.29 \\ 620\ 333 \\ 58\ 613 \\ 1.06\% \\ 45\ 882 \\ 16.0\% \\ 177\ 940 \\ 1.61 \\ 1.29 \\ 633\ 030 \\ 58\ 895 \\ 1.07\% \\ 48\ 024 \\ 16.3\% \\ 184\ 635 \\ 1.60 \\ 1.30 \\ 645\ 093 \\ 59\ 113 \\ 1.09\% \\ 51\ 119 \\ 16.8\% \\ 191\ 090 \\ 1.59 \\ 1.31 \\ 657\ 162 \\ 59\ 324 \\ 1.11\% \\ 51\ 978 \\ 16.6\% \\ 197\ 545 \\ 1.58 \\ 1.31 \\ 668\ 915 \\ 59\ 532 \\ 1.12\% \\ 56\ 159 \\ 17.5\% \\ 204\ 000 \\ 1.57 \\ 1.32 \\ 680\ 185 \\ 59\ 737 \\ 1.14\% \\ 65\ 292 \\ 19.8\% \\ 209\ 522 \\ 1.57 \\ 1.32 \\ 680\ 185 \\ 59\ 737 \\ 1.14\% \\ 65\ 292 \\ 19.8\% \\ 209\ 522 \\ 1.57 \\ 1.32 \\ 692\ 184 \\ 59\ 945 \\ 1.15\% \\ 68\ 114 \\ 20.4\% \\ 215\ 044 \\ 1.57 \\ 1.33 \\ 703\ 820 \\ 60\ 167 \\ 1.17\% \\ 70\ 935 \\ 21.0\% \\ 221\ 651 \\ 1.57 \\ 1.33 \\ 703\ 820 \\ 60\ 167 \\ 1.17\% \\ 70\ 935 \\ 21.0\% \\ 221\ 651 \\ 1.57 \\ 1.33 \\ 716\ 314 \\ 60\ 545 \\ 1.18\% \\ 72\ 698 \\ 21.3\% \\ 228\ 258 \\ 1.56 \\ 1.33 \\ 729\ 010 \\ 60\ 970 \\ 1.20\% \\ 77\ 475 \\ 21.6\% \\ 234\ 865 \\ 1.55 \\ 1.33 \\ 740\ 207 \\ 61\ 406 \\ 1.21\% \\ 89\ 662 \\ 23.3\% \\ 248\ 080 \\ 1.53 \\ 1.33 \\ 761\ 630 \\ 62\ 258 \\ 1.22\% \\ 104\ 398 \\ 26.4\% \\ 254\ 687 \\ 1.53 \\ 1.33 \\ 761\ 630 \\ 62\ 258 \\ 1.22\% \\ 104\ 398 \\ 26.4\% \\ 254\ 687 \\ 1.55 \\ 1.33 \\ 781\ 962 \\ 62\ 995 \\ 1.22\% \\ 104\ 398 \\ 26.4\% \\ 254\ 687 \\ 1.55 \\ 1.33 \\ 791\ 070 \\ 63\ 387 \\ 1.25\% \\ 115\ 697 \\ 27.7\% \\ 269\ 477 \\ 1.51 \\ 1.33 \\ 791\ 070 \\ 63\ 387 \\ 1.25\% \\ 115\ 697 \\ 27.7\% \\ 269\ 477 \\ 1.51 \\ 1.33 \\ 791\ 070 \\ 63\ 387 \\ 1.25\% \\ 115\ 697 \\ 27.7\% \\ 290\ 200 \\ 1.49 \\ 1.32 \\ 815\ 30\ 40\ 65\ 294 \\ 1.28\% \\ 115\ 023 \\ 25.1\% \\ 301\ 203 \\ 1.50 \\ 1.29 \\ 828\ 581 \\ 64\ 986 \\ 1.28\% \\ 115\ 023 \\ 25.1\% \\ 301\ 203 \\ 1.50 \\ 1.29 \\ 83\ 944 \\ 65\ 294 \\ 1.28\% \\ 115\ 023 \\ 25.1\% \\ 10.28\% $ | 38 491 | 17,7% | 136 821 | 1,59 | 1,20 | 541 829 | 56505 | 0.96% |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 34 671 | 15,5% | 141 442 | 1,58 | 1,21 | 550 500 | 56 780 | 0,97% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 34 666 | 14,9% | 146 064 | 1,60 | 1,24 | 560 000 | 57 072 | 0,98% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 35 009 | $14,\!4\%$ | 150 685 | 1,61 | 1,24 | 569 600 | 57 379 | 0,99% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 36 483 | 14,6% | 155 306 | 1,61 | 1,26 | 578 500 | 57 705 | 1,00% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 38 904 | 15,0% | 159 927 | 1,62 | 1,27 | 597 828 | 58 035 | 1,03% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 41 944 | 15,6% | 164 549 | 1,64 | 1,28 | 607 837 | 58 321 | 1,04% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 43 714 | 15,8% | 171 244 | 1,62 | 1,29 | 620 333 | 58 613 | 1,06% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 45 882 | 16,0% | 177 940 | 1,61 | 1,29 | 633 030 | 58 895 | 1,07% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 48 024 | 16,3% | 184 635 | 1,60 | 1,30 | 645 093 | 59 113 | 1,09% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 51 119 | 16,8% | 191 090 | 1,59 | 1,31 | 657 162 | 59 324 | 1,11% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 51 978 | 16,6% | 197 545 | 1,58 | 1,31 | 668 915 | 59 532 | $1{,}12\%$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 56 159 | 17,5% | 204 000 | 1,57 | 1,32 | 680 185 | 59 737 | $1{,}14\%$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 65 292 | 19,8% | 209 522 | 1,57 | 1,32 | 692 184 | 59 945 | 1,15% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 68 114 | $20,\!4\%$ | 215 044 | 1,57 | 1,33 | 703 820 | 60 167 | $1,\!17\%$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 70 935 | 21,0% | 221 651 | 1,57 | 1,33 | 716 314 | 60 545 | 1,18% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 72 698 | 21,3% | 228 258 | 1,56 | 1,33 | 729 010 | 60 970 | 1,20% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 77 475 | 21,6% | 234 865 | 1,55 | 1,33 | 740 207 | 61 406 | 1,21% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 82 940 | $22,\!3\%$ | 241 473 | 1,54 | 1,33 | 750 840 | 61 838 | 1,21% |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 89 662 | $23,\!3\%$ | 248 080 | 1,53 | 1,33 | 761 630 | $62\ 258$ | 1,22% |
| 115 697 27,7% 269 477 1,51 1,33 794 107 63 387 1,25% 114 541 26,7% 277 659 1,50 1,33 808 250 63 723 1,27% 117 877 27,1% 283 930 1,50 1,32 816 364 64 049 1,27% 121 154 27,0% 290 200 1,49 1,32 821 136 64 325 1,28% 127 275 28,4% 295 701 1,50 1,29 828 581 64 986 1,28% 115 023 25,1% 301 203 1,50 1,29 833 944 65 294 1,28% | 104 398 | $26,\!4\%$ | 254 687 | 1,53 | 1,32 | 772 907 | 62 634 | 1,23% |
| 114 541 26,7% 277 659 1,50 1,33 808 250 63 723 1,27% 117 877 27,1% 283 930 1,50 1,32 816 364 64 049 1,27% 121 154 27,0% 290 200 1,49 1,32 821 136 64 325 1,28% 127 275 28,4% 295 701 1,50 1,29 828 581 64 986 1,28% 115 023 25,1% 301 203 1,50 1,29 833 944 65 294 1,28% | 106 214 | 26,1% | 261 294 | 1,52 | 1,33 | 781 962 | $62\ 995$ | 1,24% |
| 117 877 27,1% 283 930 1,50 1,32 816 364 64 049 1,27% 121 154 27,0% 290 200 1,49 1,32 821 136 64 325 1,28% 127 275 28,4% 295 701 1,50 1,29 828 581 64 986 1,28% 115 023 25,1% 301 203 1,50 1,29 833 944 65 294 1,28% | 115 697 | 27,7% | 269 477 | 1,51 | 1,33 | 794 107 | 63 387 | 1,25% |
| 121 154 27,0% 290 200 1,49 1,32 821 136 64 325 1,28% 127 275 28,4% 295 701 1,50 1,29 828 581 64 986 1,28% 115 023 25,1% 301 203 1,50 1,29 833 944 65 294 1,28% | 114 541 | 26,7% | 277 659 | 1,50 | 1,33 | 808 250 | 63 723 | 1,27% |
| 127 275 28,4% 295 701 1,50 1,29 828 581 64 986 1,28% 115 023 25,1% 301 203 1,50 1,29 833 944 65 294 1,28% | 117 877 | 27,1% | 283 930 | 1,50 | 1,32 | 816 364 | 64 049 | 1,27% |
| 115 023 25,1% 301 203 1,50 1,29 833 944 65 294 1,28% | 121 154 | 27,0% | 290 200 | 1,49 | 1,32 | 821 136 | $64\ 325$ | 1,28% |
| | 127 275 | 28,4% | 295 701 | 1,50 | 1,29 | 828 581 | 64 986 | 1,28% |
| 113 960 24,3% 306 704 1,49 1,29 835 103 65 736 1,27% | 115 023 | 25,1% | 301 203 | 1,50 | 1,29 | 833 944 | 65 294 | 1,28% |
| | 113 960 | 24,3% | 306 704 | 1,49 | 1,29 | 835 103 | 65 736 | 1,27% |
| 103 287 21,6% 1,30 842 767 66 146 1,27% | 103 287 | 21,6% | | | 1,30 | 842 767 | 66 146 | 1,27% |

Figure B.1 shows the evolution of the number of households and the number of tax units in La Réunion from 1954 to 2014.

Figure B.1: Demographic Evolution of number of households and tax units in La Réunion



Source: INSEE (Population Census) and DGFiP

C. Control Total for Income

The first step is to estimate a long term series of GDP for La Réunion. While for the recent years (2000 – 2014) the National Accounts disaggregated at the overseas departmental level is available from INSEE, the series for the years prior to that is less straight forward. We are able to obtain this data for the years 1973 to 1994 from various INSEE publications (See Table C.1) and we take the most updated series to obtain the most homogenous series as possible. The challenge lies in estimating the GDP for the years prior to 1973. Since there is no source of data at the level of La Réunion, as a first approximation, we are forced to rely on the national GDP series of France to be able to deduce the level of GDP of La Réunion. It is known that the two territories have different demographic dynamics at the same given point in time. Hence, in order for our GDP estimates not to have the spurious effect of differences in growth rate, we look only at GDP per capita.

Table C.1: Sources of GDP for La Réunion

| Year | Sources |
|-------------|--|
| 1973 - 1985 | INSEE - Annuaire Statistique de La France |
| 1986 - 1992 | INSEE - L'économie de La Réunion- Panorama |
| 1993 - 2000 | INSEE - Tableau Economique de La Réunion |
| 2001 - 2014 | INSEE - www.insee.fr |

We thus proceed to compare the GDP per capita for France series obtained from Garbinti et al., (2017) to the GDP per capita for La Réunion computed before. This proportion has steadily increased from around 30% in 1973 to around 65% in 2014 (column 5 of Table C.2). Given the trends that we observe, it is very likely that a linearly interpolation of this proportion between the years 1995 to 1999 gives a good approximation. For the years prior to 1973, we assume two scenarios. In column 5a, we assume that this proportion has grown at a constant rate of 1,96%, which is its average growth rate for the years 1973-1980. This yields an estimate for the GDP per capita of La Réunion at 23.6% of that of France in 1960, painting a very gloomy picture of the island in that period compared to its mainland. We choose to look at a more optimistic scenario, in column 5b, which would be that the proportion between the GDP per capita of La Réunion and the GDP per capita of France has remained constant between 1960 and 1973, thus keeping a constant of 30.3% during those years.

Based on these estimates, the GDP per capita of La Réunion is estimated by multiplying this ratio by the GDP per capita of France which is then multiplied by the population of La Réunion to obtain the GDP series for La Réunion. In other words, column 2(a) = 5(a)*(4), 2(b) = 5(b)*(4) and column 1(a) = 2(a)*total population of La Réunion and conversely column 1(b) = 2(b)*total population of La Réunion. Future work will need to have a more precise estimate of GDP for La Réunion as this is merely an approximation.

Table C.2: GDP estimates for La Réunion and France

| Year | GDP_REU (in billion) (1a) | GDP_REU (in billion) (1b) | GDP per capita REU (2a) | GDP per capita REU (2b) | GDP_FRA (in billion) (3) | GDP per capita FRA (4) | Option1: Ratio GDP per capita REU/GDP per capita FRA (5a) | Option2: Ratio GDP per capita REU/GDP per capita FRA (5b) |
|------|---------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|------------------------------|---|---|
| 1960 | 0,5 | 0,7 | 1 511 | 1 944 | 297 | 6 408 | 0,24 | 0,30 |
| 1961 | 0,6 | 0,7 | 1 664 | 2 100 | 323 | 6 921 | 0,24 | 0,30 |
| 1962 | 0,7 | 0,8 | 1 872 | 2 318 | 361 | 7 640 | $0,\!25$ | 0,30 |
| 1963 | 0,8 | 0,9 | 2 088 | 2 535 | 405 | 8 355 | 0,25 | 0,30 |
| 1964 | 0,9 | 1,1 | 2 337 | 2 784 | 449 | 9 173 | 0,25 | 0,30 |
| 1965 | 1,0 | 1,2 | 2 538 | 2 965 | 483 | 9 769 | 0,26 | 0,30 |
| 1966 | 1,1 | 1,3 | 2 778 | 3 183 | 523 | 10 489 | 0,26 | 0,30 |
| 1967 | 1,3 | 1,4 | 3 033 | 3 408 | 565 | 11 231 | $0,\!27$ | 0,30 |
| 1968 | 1,4 | 1,5 | 3 337 | 3 677 | 615 | 12 118 | 0,28 | 0,30 |
| 1969 | 1,6 | 1,8 | 3 849 | 4 160 | 701 | 13 707 | 0,28 | 0,30 |
| 1970 | 1,9 | 2,0 | 4 345 | 4 606 | 783 | 15 178 | 0,29 | 0,30 |
| 1971 | 2,0 | 2,1 | 4 448 | 4 624 | 794 | 15 239 | 0,29 | 0,30 |

| _ | | | | | | | | |
|------|------|------|--------|--------|-------|---------|------|------|
| 1972 | 2,3 | 2,3 | 5 006 | 5 104 | 884 | 16 821 | 0,30 | 0,30 |
| 1973 | 3,0 | 3,0 | 6 467 | 6 467 | 1 130 | 21 311 | 0,30 | 0,30 |
| 1974 | 3,8 | 3,8 | 7 981 | 7 981 | 1 303 | 24 380 | 0,33 | 0,33 |
| 1975 | 4,5 | 4,5 | 9 522 | 9 522 | 1 468 | 27 313 | 0,35 | 0,35 |
| 1976 | 5,2 | 5,2 | 10 725 | 10 725 | 1 701 | 31 515 | 0,34 | 0,34 |
| 1977 | 5,9 | 5,9 | 11 957 | 11 957 | 1 918 | 35 384 | 0,34 | 0,34 |
| 1978 | 6,6 | 6,6 | 13 261 | 13 261 | 2 183 | 40 067 | 0,33 | 0,33 |
| 1979 | 7,4 | 7,4 | 14 867 | 14 867 | 2 481 | 45 357 | 0,33 | 0,33 |
| 1980 | 8,4 | 8,4 | 16 651 | 16 651 | 2 808 | 51 086 | 0,33 | 0,33 |
| 1981 | 10,1 | 10,1 | 19 780 | 19 780 | 3 165 | 57 240 | 0,35 | 0,35 |
| 1982 | 12,2 | 12,2 | 23 696 | 23 696 | 3 626 | 65 194 | 0,36 | 0,36 |
| 1983 | 13,6 | 13,6 | 25 938 | 25 938 | 4 006 | 71 601 | 0,36 | 0,36 |
| 1984 | 15,8 | 15,8 | 29 668 | 29 668 | 4 362 | 77 585 | 0,38 | 0,38 |
| 1985 | 17,3 | 17,3 | 31 964 | 31 964 | 4 700 | 83 181 | 0,38 | 0,38 |
| 1986 | 20,0 | 20,0 | 36 274 | 36 274 | 5 069 | 89 280 | 0,41 | 0,41 |
| 1987 | 21,5 | 21,5 | 38 385 | 38 385 | 5 337 | 93 507 | 0,41 | 0,41 |
| 1988 | 23,3 | 23,3 | 40 886 | 40 886 | 5 735 | 99 952 | 0,41 | 0,41 |
| 1989 | 25,6 | 25,6 | 44 275 | 44 275 | 6 160 | 106 744 | 0,41 | 0,41 |
| 1990 | 28,4 | 28,4 | 47 462 | 47 462 | 6 509 | 112 164 | 0,42 | 0,42 |
| 1991 | 31,3 | 31,3 | 51 558 | 51 558 | 6 776 | 116 192 | 0,44 | 0,44 |
| 1992 | 33,8 | 33,8 | 54 466 | 54 466 | 7 000 | 119 420 | 0,46 | 0,46 |
| 1993 | 33,7 | 33,7 | 53 253 | 53 253 | 7 077 | 120 165 | 0,44 | 0,44 |
| 1994 | 35,1 | 35,1 | 54 431 | 54 431 | 7 390 | 125 008 | 0,44 | 0,44 |
| 1995 | 38,6 | 38,6 | 58 719 | 58 719 | 7 662 | 129 161 | 0,45 | 0,45 |
| 1996 | 41,9 | 41,9 | 62 652 | 62 652 | 7 872 | 132 227 | 0,47 | 0,47 |
| 1997 | 45,7 | 45,7 | 67 158 | 67 158 | 8 137 | 136 216 | 0,49 | 0,49 |
| 1998 | 50,1 | 50,1 | 72 382 | 72 382 | 8 471 | 141 308 | 0,51 | 0,51 |
| 1999 | 8,6 | 8,6 | 12 245 | 12 245 | 1 386 | 23 042 | 0,53 | 0,53 |
| 2000 | 9,5 | 9,5 | 13 304 | 13 304 | 1 463 | 24 161 | 0,55 | 0,55 |
| 2001 | 10,2 | 10,2 | 14 046 | 14 046 | 1 520 | 24 937 | 0,56 | 0,56 |
| 2002 | 10,9 | 10,9 | 14 689 | 14 689 | 1 569 | 25 547 | 0,57 | 0,57 |
| 2003 | 11,5 | 11,5 | 15 345 | 15 345 | 1 610 | 26 041 | 0,59 | 0,59 |
| 2004 | 12,3 | 12,3 | 16 110 | 16 110 | 1 682 | 27 017 | 0,60 | 0,60 |
| 2005 | 13,1 | 13,1 | 16 980 | 16 980 | 1 741 | 27 802 | 0,61 | 0,61 |
| 2006 | 14,0 | 14,0 | 17 889 | 17 889 | 1 821 | 28 899 | 0,62 | 0,62 |
| 2007 | 15,0 | 15,0 | 18 871 | 18 871 | 1 911 | 30 149 | 0,63 | 0,63 |
| 2008 | 15,6 | 15,6 | 19 343 | 19 343 | 1 960 | 30 757 | 0,63 | 0,63 |
| 2009 | 15,2 | 15,2 | 18 658 | 18 658 | 1 904 | 29 721 | 0,63 | 0,63 |
| 2010 | 15,5 | 15,5 | 18 861 | 18 861 | 1 962 | 30 497 | 0,62 | 0,62 |
| 2011 | 15,9 | 15,9 | 19 221 | 19 221 | 2 022 | 31 108 | 0,62 | 0,62 |
| 2012 | 17,1 | 17,1 | 20 515 | 20 515 | 2 047 | 31 358 | 0,65 | 0,65 |
| 2013 | 17,0 | 17,0 | 20 373 | 20 373 | 2 076 | 31 579 | 0,65 | 0,65 |
| 2014 | 17,5 | 17,5 | 20 805 | 20 805 | 2 099 | 31 739 | 0,66 | 0,66 |

Given this long-term series of GDP for La Réunion, we then proceed to estimate our control total for income (Table C.3), which is an estimate of total taxable income in La Réunion. Following the assumption that all tax units declare their income as from 2001, we assume that the total income observe in the tax declaration as from that year in La Réunion corresponds to the total taxable income.

We first estimate the ratio between Average Taxable income per adult population in France to its GDP per capita for the period 1960 – 2014 (Column 3 in Table C3). The former is again expressed in terms of adult population rather than tax units to avoid capturing any ambiguous effects of demographic changes within the tax units. We then estimate the same ratio for the recent years (2001 – 2014) for La Réunion. While this ratio for France hovers around 0.43 to 0.59, the ratio for La Réunion ranges between 0.54 to 0.7 over the same period. The ratio between the ratio for La Réunion to that of France is 1,26 in 2001. In order to estimate the total taxable income for La Réunion for the years prior to 2001, we assume that the relationship between the two ratios remains constant at 1,26. Given the trends in the two ratios after 2001 as seen in Figure C.1, this assumption seems reasonable.

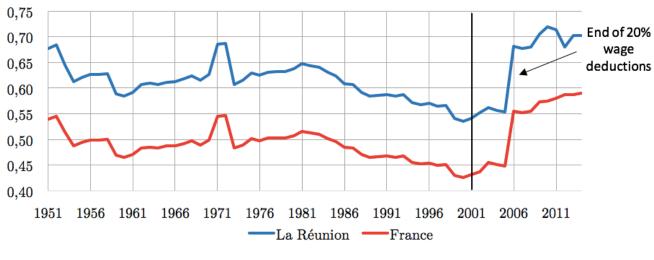


Figure C.1: Ratio between Average Taxable Income to GDP per capita in La

Réunion and France

This ratio is then used to estimate the average taxable income per adult population under the two aforementioned scenarios (column 4a and 4b). We then multiply these

columns by the number of adult population to obtain our total control for income under the two scenarios (column 7a and 7b).

Table C.3: Estimation of Control Total for Income

| | | Table | Ratio | | | | | Ratio | | |
|------|---------|------------|----------------------|----------------|-------------------|------------|----------------|----------|----------|----------|
| | Average | GDP | Average | Average | | GDP | GDP | Average | Control | Control |
| | Taxable | per | Taxable: | Taxable | Average | per | per | Taxable: | Income | Income_2 |
| Year | Income | capita | GDP | Income | Taxable Income | capita | capita | GDP | (In | (In |
| | FRA | FRA | per | \mathbf{REU} | REU(4b) | REU | \mathbf{REU} | per | million) | million) |
| | (1) | (2) | capita | (4a) | 1020(10) | (5) | (5b) | capita | (7a) | (7b) |
| | | | FRA (3) | | | | | REU (6) | | |
| 1960 | 2 983 | 6 408 | $0,\!47$ | 884 | 1 137 | 1 511 | 1 944 | 0,58 | 138 | 177 |
| 1961 | 3 258 | 6 921 | $0,\!47$ | 984 | 1 242 | 1 664 | 2 100 | 0,59 | 158 | 200 |
| 1962 | 3 691 | 7 640 | 0,48 | 1 136 | 1 407 | 1 872 | 2 318 | 0,61 | 187 | 231 |
| 1963 | 4 054 | 8 355 | 0,49 | 1 273 | 1 545 | 2 088 | 2 535 | 0,61 | 214 | 259 |
| 1964 | 4 430 | 9 173 | 0,48 | 1 418 | 1 689 | 2 337 | 2 784 | 0,61 | 243 | 290 |
| 1965 | 4 758 | 9 769 | 0,49 | 1 553 | 1 814 | 2 538 | 2 965 | 0,61 | 272 | 318 |
| 1966 | 5 119 | 10 489 | 0,49 | 1 703 | 1 952 | 2 778 | 3 183 | 0,61 | 304 | 349 |
| 1967 | 5 520 | 11 231 | 0,49 | 1 873 | 2 104 | 3 033 | 3 408 | 0,62 | 342 | 384 |
| 1968 | 6 022 | 12 118 | 0,50 | 2 083 | 2 296 | 3 337 | 3 677 | 0,62 | 391 | 430 |
| 1969 | 6 708 | 13 707 | 0,49 | 2 366 | 2 557 | 3 849 | 4 160 | 0,61 | 456 | 493 |
| 1970 | 7 578 | 15 178 | 0,50 | 2 725 | 2 889 | 4 345 | 4 606 | 0,63 | 539 | 572 |
| 1971 | 8 310 | 15 239 | 0,55 | 3 047 | 3 168 | 4 448 | $4\ 624$ | 0,69 | 619 | 643 |
| 1972 | 9 194 | 16 821 | $0,\!55$ | 3 437 | 3 505 | 5 006 | 5 104 | 0,69 | 716 | 730 |
| 1973 | 10 296 | 21 311 | 0,48 | 3 925 | 3 925 | 6 467 | 6 467 | 0,61 | 838 | 838 |
| 1974 | 11 934 | $24 \ 380$ | 0,49 | 4 908 | 4 908 | 7 981 | 7 981 | 0,61 | 1 073 | 1 073 |
| 1975 | 13 692 | 27 313 | 0,50 | 5 997 | 5 997 | 9 522 | 9 522 | 0,63 | 1 333 | 1 333 |
| 1976 | 15 677 | 31 515 | 0,50 | 6 702 | 6 702 | 10 725 | 10 725 | 0,62 | 1 514 | 1 514 |
| 1977 | 17 773 | $35 \ 384$ | 0,50 | 7 545 | 7 545 | $11 \ 957$ | 11 957 | 0,63 | 1 732 | 1 732 |
| 1978 | 20 157 | $40\ 067$ | 0,50 | 8 381 | 8 381 | 13 261 | 13 261 | 0,63 | 1 972 | 1 972 |
| 1979 | 22 815 | $45 \ 357$ | 0,50 | 9 394 | 9 394 | $14\ 867$ | $14\ 867$ | 0,63 | 2 256 | 2 256 |
| 1980 | 25 924 | 51 086 | 0,51 | 10 615 | 10 615 | 16 651 | 16 651 | 0,64 | 2 594 | 2 594 |
| 1981 | 29 498 | 57 240 | $0,\!52$ | $12\ 805$ | $12\ 805$ | 19 780 | 19 780 | 0,65 | 3 230 | 3 230 |
| 1982 | 33 395 | $65\ 194$ | 0,51 | $15\ 248$ | 15 248 | $23\ 696$ | $23\ 696$ | 0,64 | 4 143 | 4 143 |
| 1983 | 36 540 | 71 601 | 0,51 | 16 628 | 16 628 | 25 938 | 25 938 | 0,64 | 4 643 | 4 643 |
| 1984 | 38 922 | $77\ 585$ | 0,50 | 18 697 | 18 697 | $29\ 668$ | $29\ 668$ | 0,63 | 5 361 | 5 361 |
| 1985 | 41 286 | 83 181 | 0,50 | 19 930 | 19 930 | $31\ 964$ | 31 964 | 0,62 | 5 864 | 5 864 |
| 1986 | 43 244 | 89 280 | 0,48 | $22\ 072$ | $22\ 072$ | $36\ 274$ | $36\ 274$ | 0,61 | 6 660 | 6 660 |
| 1987 | 45 202 | $93\ 507$ | 0,48 | 23 310 | 23 310 | 38 385 | $38 \ 385$ | 0,61 | 7 302 | 7 302 |
| 1988 | 47 083 | 99 952 | $0,\!47$ | $24\ 194$ | $24\ 194$ | 40 886 | 40 886 | 0,59 | 7 857 | 7 857 |
| 1989 | 49 602 | 106 744 | 0,46 | 25 845 | 25 845 | $44\ 275$ | $44\ 275$ | 0,58 | 8 639 | 8 639 |
| 1990 | 52 356 | 112 164 | $0,\!47$ | 27 831 | 27 831 | $47\ 462$ | $47\ 462$ | 0,59 | 9 994 | 9 994 |
| 1991 | 54 330 | 116 192 | $0,\!47$ | $30\ 285$ | $30\ 285$ | 51 558 | 51 558 | 0,59 | 10 820 | 10 820 |
| 1992 | 55 519 | 119 420 | 0,46 | 31 810 | 31 810 | 54 466 | $54\ 466$ | 0,58 | 11 683 | 11 683 |

| | 1 | 1 | i I | 1 | i I | 1 | | | 1 | |
|------|--------|---------|----------|-----------|-----------|--------|--------|----------|--------|-----------|
| 1993 | 56 180 | 120 165 | 0,47 | 31 276 | $31\ 276$ | 53 253 | 53 253 | $0,\!59$ | 11 812 | 11 812 |
| 1994 | 56 924 | 125 008 | 0,46 | 31 137 | 31 137 | 54 431 | 54 431 | $0,\!57$ | 12 078 | $12\ 078$ |
| 1995 | 58 360 | 129 161 | 0,45 | 33 330 | 33 330 | 58 719 | 58 719 | $0,\!57$ | 13 281 | 13 281 |
| 1996 | 59 966 | 132 227 | 0,45 | 35 693 | $35\ 693$ | 62 652 | 62 652 | $0,\!57$ | 14 601 | 14 601 |
| 1997 | 61 235 | 136 216 | 0,45 | 37 926 | $37\ 926$ | 67 158 | 67 158 | 0,56 | 15 887 | 15 887 |
| 1998 | 63 697 | 141 308 | 0,45 | 40 987 | 40 987 | 72 382 | 72 382 | $0,\!57$ | 17 584 | 17584 |
| 1999 | 9 910 | 23 042 | 0,43 | 6 616 | 6 616 | 12 245 | 12 245 | $0,\!54$ | 2 901 | 2 901 |
| 2000 | 10 304 | 24 161 | 0,43 | 7 128 | 7 128 | 13 304 | 13 304 | $0,\!54$ | 3 202 | 3 202 |
| 2001 | 10 745 | 24 937 | 0,43 | 7 603 | 7 603 | 14 046 | 14 046 | $0,\!54$ | 3 493 | 3 493 |
| 2002 | 11 153 | 25 547 | 0,44 | 8 100 | 8 100 | 14 689 | 14 689 | $0,\!55$ | 3 796 | 3 796 |
| 2003 | 11 866 | 26 041 | 0,46 | 8 634 | 8 634 | 15 345 | 15 345 | $0,\!56$ | 4 125 | $4\ 125$ |
| 2004 | 12 187 | 27 017 | 0,45 | 8 962 | 8 962 | 16 110 | 16 110 | $0,\!56$ | 4 365 | $4\ 365$ |
| 2005 | 12 442 | 27 802 | 0,45 | 9 406 | 9 406 | 16 980 | 16 980 | $0,\!55$ | 4 680 | 4 680 |
| 2006 | 16 019 | 28 899 | $0,\!55$ | 12 197 | $12\ 197$ | 17 889 | 17 889 | 0,68 | 6 172 | 6 172 |
| 2007 | 16 645 | 30 149 | 0,55 | 12 770 | 12 770 | 18 871 | 18 871 | 0,68 | 6 588 | 6588 |
| 2008 | 17 051 | 30 757 | 0,55 | 13 146 | 13 146 | 19 343 | 19 343 | 0,68 | 6 943 | 6 943 |
| 2009 | 17 018 | 29 721 | 0,57 | 13 156 | 13 156 | 18 658 | 18 658 | 0,71 | 7 062 | 7 062 |
| 2010 | 17 506 | 30 497 | 0,57 | $13\ 572$ | $13\ 572$ | 18 861 | 18 861 | 0,72 | 7 369 | 7 369 |
| 2011 | 18 057 | 31 108 | 0,58 | 13 706 | 13 706 | 19 221 | 19 221 | 0,71 | 7 588 | 7 588 |
| 2012 | 18 419 | 31 358 | 0,59 | 13 947 | 13 947 | 20 515 | 20 515 | 0,68 | 7 836 | 7 836 |
| 2013 | 18 555 | 31 579 | 0,59 | 14 300 | 14 300 | 20 373 | 20 373 | 0,70 | 8 099 | 8 099 |
| 2014 | 18 724 | 31 739 | 0,59 | 14 606 | 14 606 | 20 805 | 20 805 | 0,70 | 8 369 | 8 369 |

To go from taxable income to fiscal income, which is the definition of income of interest, various corrections have to be made to the series. The corrections made here follow the ones in Garbinti et al., (2017). For a more detailed explanation of these corrections please refer to DINA Appendix D.2 of that paper and Piketty (2001, 2003). We apply the same correction factors as used in the series for France. Note that this might have to be updated to better reflect the situation in La Réunion. Nevertheless, we believe that it should not significantly change our estimates. These include an upgrade rate due to previous-year-tax deductions and other types of deductions such as the lump-sum deductions for wage earners. In 2006, the 20% deductions for additional professional expenses was repealed and is accounted for in the corrections factors. Similarly, we assume the same approximate aggregate taxable income to fiscal income ratio as in Garbinti et al., (2017). These are reported in column 7 and 8 of Table C.4, respectively excluding and including capital gains.

Table C.4: Taxable and Fiscal Income in La Réunion

| | | | Total | Total | A | A | Ratio | |
|--------------|-----------|-----------|------------------|---|--------------------|--------------------|-------------------|---------------|
| | Taxable | Average | fiscal | fiscal | Average fiscal | Average fiscal | taxable | Ratio |
| | Income | Taxable | income | income | income | income | income/ | taxable |
| Year | (in | Income | (excl. cg) | (incl. cg) | (excl. cg) | (incl. cg) | fiscal | income/fiscal |
| | millions) | per Tax | (in | (in | (per tax | (per tax | income | income (incl. |
| | (1) | units (2) | millions) (3) | $egin{array}{c} 	ext{millions} \ (4) \end{array}$ | unit) (5) | unit) (6) | (excl. cg) (7) | cg) (8) |
| 1951 | 4 407 | 65 595 | 5 155 | 5 155 | 76 719 | 76 719 | 0,86 | 0,86 |
| 1951 | 5 484 | 65 641 | 6 414 | 6 414 | 76 773 | 76 773 | 0,86 | 0,86 |
| 1952 | 5 632 | 63 338 | 6 953 | 6 953 | 78 195 | 78 195 | 0,80 | 0,80 |
| 1953 | 5 949 | 66 317 | 7 828 | 7 828 | 87 259 | 87 259 | 0,76 | 0,76 |
| 1954 | 6 794 | 72 819 | 8 940 | 8 940 | 95 815 | 95 815 | 0,76 | 0,76 |
| 1956 | 7 911 | 81 636 | 10 409 | 10 409 | 107 415 | 107 415 | 0,76 | • |
| | 9 335 | 92 868 | | | | | 0,76 | 0,76 |
| 1957 1958 | 9 333 | 108 137 | 12 282 14 817 | 12 282 14 817 | 122 195 142 286 | 122 195 142 286 | 0,76 | 0,76 $0,76$ |
| 1958 | 11 201 | | 16 634 | 16 634 | | 154 369 | 0,70 | • |
| | | 111 145 | | | 154 369 | | · · | 0,72 |
| 1960 | 138 | 1 235 | 194 | 194 | 1 740 | 1 740 | 0,71 | 0,71 |
| 1961 | 158 | 1 374 | 223 | 223 | 1 935 | 1 935 | 0,71 | 0,71 |
| 1962 | 187 | 1 592 | 263 | 263 | 2 242 | 2 242 | 0,71 | 0,71 |
| 1963 | 214 | 1 788 | 301 | 301 | 2 518 | 2 518 | 0,71 | 0,71 |
| 1964 | 243 | 1 998 | 343 | 343 | 2 814 | 2 814 | 0,71 | 0,71 |
| 1965 | 272 | 2 194 | 383 | 383 | 3 091 | 3 091 | 0,71 | 0,71 |
| 1966 | 304 | 2 415 | 429 | 429 | 3 401 | 3 401 | 0,71 | 0,71 |
| 1967 | 342 | 2 663 | 481 | 481 | 3 751 | 3 751 | 0,71 | 0,71 |
| 1968 | 391 | 2 946 | 550 | 550 | 4 149 | 4 149 | 0,71 | 0,71 |
| 1969 | 456 | 3 328 | 642 | 642 | 4 687 | 4 687 | 0,71 | 0,71 |
| 1970 | 539 | 3 813 | 760 | 760 | 5 370 | 5 370 | 0,71 | 0,71 |
| 1971 | 619 | 4 240 | 872 | 872 | 5 972 | 5 972 | 0,71 | 0,71 |
| 1972 | 716 | 4 758 | 1 008 | 1 008 | 6 701 | 6 701 | 0,71 | 0,71 |
| 1973 | 838 | 5 404 | 1 180 | 1 180 | 7 611 | 7 611 | 0,71 | 0,71 |
| 1974 | 1 073 | 6 721 | 1 511 | 1 511 | 9 466 | 9 466 | 0,71 | 0,71 |
| 1975 | 1 333 | 8 208 | 1 877 | 1 877 | 11 560 | 11 560 | 0,71 | 0,71 |
| 1976 | 1 514 | 9 167 | 2 133 | 2 133 | 12 911 | 12 911 | 0,71 | 0,71 |
| 1977 | 1 732 | 10 313 | 2 439 | 2 439 | 14 526 | 14 526 | 0,71 | 0,71 |
| 1978 | 1 972 | 11 449 | 2 777 | 2 777 | 16 125 | 16 125 | 0,71 | 0,71 |
| 1979 | 2 256 | 12 825 | 3 177 | 3 177 | 18 064 | 18 064 | 0,71 | 0,71 |
| 1980 | 2 594 | 14 482 | 3 653 | 3 653 | 20 397 | 20 397 | 0,71 | 0,71 |
| 1981 | 3 230 | 17 460 | 4 549 | 4 549 | 24 591 | 24 591 | 0,71 | 0,71 |
| 1982 | 4 143 | 20 777 | 5 835 | 5 835 | 29 263 | 29 263 | 0,71 | 0,71 |
| 1983 | 4 643 | 22 591 | 6 539 | 6 539 | 31 818 | 31 818 | 0,71 | 0,71 |
| 1984 | 5 361 | 25 326 | 7 550 | 7 550 | 35 671 | 35 671 | 0,71 | 0,71 |
| 1985 | 5 864 | 26 917 | 8 259 | 8 259 | 37 912 | 37 912 | 0,71 | 0,71 |
| 1986 | 6 660 | 29 723 | 9 380 | 9 380 | 41 863 | 41 863 | 0,71 | 0,71 |

| 1 | ı | ı | ı | ı | ı | ı | | |
|------|--------|-----------|-----------|-----------|--------|-----------|------|------|
| 1987 | 7 302 | 31 299 | 10 284 | 10 284 | 44 083 | 44 083 | 0,71 | 0,71 |
| 1988 | 7 857 | 32 391 | 10 948 | 11 066 | 45 135 | $45\ 622$ | 0,72 | 0,71 |
| 1989 | 8 639 | $34\ 501$ | 12 167 | $12\ 167$ | 48594 | 48 594 | 0,71 | 0,71 |
| 1990 | 9 994 | 37 045 | $14\ 077$ | 14 077 | 52 175 | 52 175 | 0,71 | 0,71 |
| 1991 | 10 820 | 40 195 | 15 240 | 15 240 | 56 613 | 56 613 | 0,71 | 0,71 |
| 1992 | 11 683 | 42 097 | $16\ 455$ | $16\ 455$ | 59 291 | 59 291 | 0,71 | 0,71 |
| 1993 | 11 812 | 41 272 | 16 636 | 16 636 | 58 130 | 58 130 | 0,71 | 0,71 |
| 1994 | 12 078 | 40 971 | 17 011 | 17 011 | 57 706 | 57 706 | 0,71 | 0,71 |
| 1995 | 13 281 | 43 731 | 18 706 | 18 706 | 61 594 | 61 594 | 0,71 | 0,71 |
| 1996 | 14 601 | 46 700 | 20 565 | 20 565 | 65 774 | 65 774 | 0,71 | 0,71 |
| 1997 | 15 887 | 49 480 | 22 376 | 22 376 | 69 690 | 69 690 | 0,71 | 0,71 |
| 1998 | 17 584 | 53 323 | 24 766 | 24 766 | 75 103 | 75 103 | 0,71 | 0,71 |
| 1999 | 2 901 | 8 583 | 4 086 | 4 086 | 12 088 | 12 088 | 0,71 | 0,71 |
| 2000 | 3 202 | 9 436 | 4 510 | 4 510 | 13 291 | 13 291 | 0,71 | 0,71 |
| 2001 | 3 493 | 10 254 | 4 919 | 4 919 | 14 442 | 14 442 | 0,71 | 0,71 |
| 2002 | 3 796 | 10 607 | 5 347 | 5 347 | 14 939 | 14 939 | 0,71 | 0,71 |
| 2003 | 4 125 | 11 076 | 5 736 | 5 809 | 15 402 | 15 599 | 0,72 | 0,71 |
| 2004 | 4 365 | 11 330 | 6 048 | 6 148 | 15 699 | 15 958 | 0,72 | 0,71 |
| 2005 | 4 680 | 11 848 | 6 472 | 6 591 | 16 386 | 16 688 | 0,72 | 0,71 |
| 2006 | 6 172 | 15 168 | 7 037 | 7 176 | 17 294 | 17 637 | 0,88 | 0,86 |
| 2007 | 6 588 | 15 755 | 7 506 | 7 661 | 17 950 | 18 320 | 0,88 | 0,86 |
| 2008 | 6 943 | 16 166 | 7 979 | 8 074 | 18 577 | 18 797 | 0,87 | 0,86 |
| 2009 | 7 062 | 16 228 | 8 160 | 8 212 | 18 751 | 18 870 | 0,87 | 0,86 |
| 2010 | 7 369 | 16 409 | 8 505 | 8 569 | 18 939 | 19 081 | 0,87 | 0,86 |
| 2011 | 7 588 | 16 910 | 8 752 | 8 824 | 19 504 | 19 663 | 0,87 | 0,86 |
| 2012 | 7 836 | 17 106 | 9 070 | 9 111 | 19 801 | 19 890 | 0,86 | 0,86 |
| 2013 | 8 099 | 17 299 | 9 375 | 9 418 | 20 024 | 20 115 | 0,86 | 0,86 |
| 2014 | 8 369 | 17 497 | 9 731 | 9 731 | 20 346 | 20 346 | 0,86 | 0,86 |

D. Top Income Estimations

In this section we report the top income shares, the corresponding income thresholds and average income.

Table D.1: Top income shares in La Réunion

| Year | Top 10% | Top 1% | $\mathrm{Top}~0.1\%$ | Top 0.01% |
|-------|------------|------------|----------------------|-----------|
| 1960a | | $41,\!1\%$ | $12,\!8\%$ | 2,7% |
| 1960b | | $31{,}6\%$ | 9,8% | 2,1% |
| 1986 | $63,\!8\%$ | $14{,}5\%$ | $3{,}0\%$ | $0,\!6\%$ |
| 1987 | $63,\!4\%$ | $15{,}0\%$ | 3,3% | 0.8% |
| 1989 | $62,\!3\%$ | $14,\!8\%$ | $3,\!4\%$ | 0.8% |
| 1990 | 59,1% | $13{,}9\%$ | $3,\!2\%$ | 0.8% |
| 1991 | 57,1% | 13,0% | 2,8% | $0,\!7\%$ |
| 1992 | $55{,}9\%$ | $12{,}5\%$ | 2,7% | $0,\!6\%$ |
| 1993 | 58,0% | $12,\!6\%$ | $2,\!6\%$ | $0,\!5\%$ |
| 1994 | 59,7% | $12{,}9\%$ | 2,7% | $0,\!6\%$ |
| 1995 | 56,9% | $12,\!3\%$ | 2,4% | $0,\!5\%$ |
| 1996 | 53,9% | $11,\!4\%$ | $2,\!2\%$ | $0,\!4\%$ |
| 1997 | $51,\!4\%$ | 10,8% | $2{,}0\%$ | $0,\!4\%$ |
| 1998 | $48,\!3\%$ | $10,\!2\%$ | $2{,}0\%$ | $0,\!4\%$ |
| 2000 | $47{,}5\%$ | $10,\!5\%$ | 1,8% | $0,\!3\%$ |
| 2001 | 46,0% | $11,\!1\%$ | $2{,}7\%$ | 0,7% |
| 2002 | 45,7% | $11,\!1\%$ | $2{,}7\%$ | 0,7% |
| 2003 | 44,3% | $10,\!1\%$ | $2,\!3\%$ | $0,\!6\%$ |
| 2004 | $43{,}9\%$ | $10,\!1\%$ | $2,\!4\%$ | 0,7% |
| 2005 | 43,3% | $10,\!3\%$ | 2,7% | 0,9% |
| 2006 | $42{,}7\%$ | 10,0% | $2,\!4\%$ | 0,7% |
| 2007 | $42{,}5\%$ | $10,\!2\%$ | $2,\!5\%$ | 0,7% |
| 2008 | $42,\!6\%$ | $10,\!5\%$ | $2,\!6\%$ | $0,\!7\%$ |
| 2009 | $42,\!6\%$ | $10,\!4\%$ | $2,\!5\%$ | $0,\!6\%$ |
| 2010 | $42,\!6\%$ | $10,\!4\%$ | $2{,}6\%$ | 0,7% |
| 2011 | $42{,}5\%$ | 9,9% | 1,9% | $0,\!4\%$ |
| 2012 | $42{,}5\%$ | 9,8% | 1,8% | $0,\!3\%$ |
| 2013 | $42,\!6\%$ | $10,\!2\%$ | $2,\!3\%$ | $0,\!5\%$ |
| 2014 | $42,\!5\%$ | $10,\!2\%$ | $2,\!3\%$ | $0,\!5\%$ |

Table D.1 is read as follows: In 2014, the top 10% richest had 42.5% of total income, top 1% had 10.2%, top 0.1% has 2.3% and similarly the top 0.01% had 0.5% of total income.

Table D.2: Shares within shares (P90-99, P99-99.9, P99.9-99.99, P99.99-100)

| Year | P90-99 | P99-99.9 | P99.9-99.99 | P99.99-100 |
|-------|------------|------------|-------------|------------|
| 1960a | | 28,3% | 10,1% | 2,7% |
| 1960b | | 21,7% | 7,7% | 2,1% |
| 1986 | $49,\!3\%$ | 11,5% | $2,\!4\%$ | 0.6% |
| 1987 | $48,\!5\%$ | 11,7% | $2,\!5\%$ | 0.8% |
| 1989 | $47{,}6\%$ | 11,4% | 2,6% | 0.8% |
| 1990 | $45,\!2\%$ | 10,7% | $2,\!4\%$ | 0.8% |
| 1991 | $44,\!1\%$ | 10,1% | $2,\!2\%$ | 0.7% |
| 1992 | $43{,}5\%$ | 9,8% | 2,1% | 0,6% |
| 1993 | $45{,}4\%$ | 10,0% | 2,0% | 0.5% |
| 1994 | $46,\!8\%$ | $10,\!3\%$ | 2,1% | 0,6% |
| 1995 | 44,7% | 9,9% | 1,9% | 0.5% |
| 1996 | $42,\!6\%$ | $9,\!2\%$ | 1,8% | 0,4% |
| 1997 | $40,\!6\%$ | 8,8% | 1,7% | 0,4% |
| 1998 | $38,\!1\%$ | $8,\!2\%$ | 1,6% | $0,\!4\%$ |
| 2000 | 37,0% | 8,7% | 1,5% | 0.3% |
| 2001 | 34,9% | $8,\!4\%$ | $2,\!0\%$ | 0.7% |
| 2002 | $34{,}6\%$ | $8,\!4\%$ | $2,\!0\%$ | 0.7% |
| 2003 | 34,3% | 7,8% | 1,7% | $0,\!6\%$ |
| 2004 | $33{,}8\%$ | 7,8% | 1,7% | 0,7% |
| 2005 | $33{,}0\%$ | 7,6% | 1,8% | 0.9% |
| 2006 | 32,7% | 7,6% | 1,8% | 0,7% |
| 2007 | $32,\!3\%$ | $7{,}6\%$ | 1,8% | 0.7% |
| 2008 | $32,\!2\%$ | 7,9% | 1,9% | 0.7% |
| 2009 | $32,\!2\%$ | 7,9% | 1,9% | $0,\!6\%$ |
| 2010 | $32,\!2\%$ | 7,8% | 1,9% | 0.7% |
| 2011 | $32,\!6\%$ | 8,0% | 1,5% | $0,\!4\%$ |
| 2012 | 32,7% | 8,1% | 1,4% | 0,3% |
| 2013 | $32{,}5\%$ | 7,9% | 1,8% | 0.5% |
| 2014 | $32,\!3\%$ | 7,9% | 1,8% | $0,\!5\%$ |

From here onwards, the year 1960 refers to estimates under Scenario 2. $\,$

Table D.3: Thresholds for P90, P95, P99, P99.9 and P99.99

| Year | P90 | P95 | P99 | P99.9 | P99.99 |
|------|--------|-----------|------------|-------------|------------|
| 1960 | | | 5 533 | 19 637 | 53 993 |
| 1986 | 22 220 | $34\ 028$ | $62\ 351$ | 131 992 | 272 213 |
| 1987 | 22 956 | 35 184 | 65 755 | 144 990 | 320 100 |
| 1989 | 25 093 | 37 901 | 70 681 | $157 \ 342$ | 366 692 |
| 1990 | 25 369 | 38594 | 72566 | 157 666 | $368\ 959$ |
| 1991 | 27 322 | $41\ 056$ | 75 812 | $158 \ 315$ | $354\ 045$ |
| 1992 | 28 382 | 42 306 | 77 787 | 158 018 | 346 839 |
| 1993 | 29 214 | $43\ 249$ | 79 515 | $154\ 474$ | 319 201 |
| 1994 | 29 869 | $44\ 083$ | 80 611 | $158\ 484$ | $333\ 437$ |
| 1995 | 30 642 | 44 949 | 82 564 | $159 \ 290$ | 304 292 |
| 1996 | 31 355 | $45\ 675$ | $82\ 574$ | 156 894 | 303 192 |
| 1997 | 31 757 | $46\ 195$ | 83 665 | 157 925 | 295 680 |
| 1998 | 32 143 | 46 703 | 83 819 | 162558 | $321\ 777$ |
| 2000 | 34 851 | 50 599 | 99 680 | 184 737 | 311 618 |
| 2001 | 37 436 | $54\ 194$ | 98 623 | $237\ 266$ | $582\ 365$ |
| 2002 | 38 345 | 55 588 | 102 209 | 245 366 | 590 867 |
| 2003 | 40 168 | 57 208 | 105 993 | $215 \ 146$ | 521 194 |
| 2004 | 40 842 | 57 763 | 107 497 | $223\ 461$ | 558 169 |
| 2005 | 42 235 | 59 005 | 107 939 | 241 962 | 677 884 |
| 2006 | 44 233 | $61\ 924$ | $112\ 796$ | 255 959 | 638 816 |
| 2007 | 45 340 | 63 650 | 116 772 | 273 696 | 694 968 |
| 2008 | 46 046 | 64 902 | 120 890 | $292\ 466$ | 723 336 |
| 2009 | 46 386 | $65\ 419$ | 120 770 | $292\ 312$ | $713\ 472$ |
| 2010 | 47 087 | 66 272 | 119 641 | 288 304 | 759 892 |
| 2011 | 48 991 | 68 812 | $127\ 164$ | 315 968 | 451 279 |
| 2012 | 49 708 | 69 981 | 129 174 | 316 125 | 422 082 |
| 2013 | 50 202 | 70 603 | 126 955 | 315 131 | 655 802 |
| 2014 | 50 770 | 71 123 | 127 133 | 323 696 | 652 867 |

Table D.2 is reported in current euros and is read as follows: In 2014, the minimum income required to be in the top 10% was 50 770 €, to be in the top 5% it was 71 123 €, to be in the top 1% it was 127 133 € and to be part of the top 0.1% and top 0.01%, it was 323 696 € and 652 867 € respectively.

Table D.4: Top average income

| Year | P90-100 | P95-100 | P99-100 | P99.9-100 | P99.99-100 |
|------|---------|-------------|-------------|-------------|---------------|
| 1960 | | | 10 786 | 33 622 | 72 156 |
| 1986 | 40 687 | $54\ 019$ | 92 500 | $192\ 876$ | 409 248 |
| 1987 | 42 627 | 56 993 | 100 602 | 221 789 | 507 658 |
| 1989 | 46 184 | 61 739 | 109 393 | 250 330 | 613 399 |
| 1990 | 46 992 | 62 804 | $110 \ 435$ | $251\ 674$ | 620 864 |
| 1991 | 49 279 | $65\ 307$ | 112 026 | $244\ 614$ | $573\ 264$ |
| 1992 | 50 570 | 66 660 | 112 614 | 241 003 | 553 270 |
| 1993 | 51 412 | 67 499 | 111 423 | 226 140 | 484 094 |
| 1994 | 52 518 | 68 984 | 113 892 | $234\ 825$ | $513\ 561$ |
| 1995 | 53 463 | 70 126 | 115 238 | $221\ 714$ | 432 149 |
| 1996 | 54 072 | 70534 | 113 976 | $219\ 982$ | 435 613 |
| 1997 | 54 653 | $71\ 227$ | 115044 | $217\ 129$ | 414 144 |
| 1998 | 55 312 | 72 109 | $117 \ 331$ | $231\ 406$ | 470 926 |
| 2000 | 61 679 | 81 555 | 136544 | $238\ 921$ | 404 298 |
| 2001 | 66 379 | 88 092 | $160\ 125$ | $391\ 058$ | 995 723 |
| 2002 | 68 243 | 90 705 | $165\ 625$ | 398 638 | 992 164 |
| 2003 | 69 148 | 90 738 | $157 \ 101$ | $355\ 168$ | 957 876 |
| 2004 | 70 121 | 92 045 | 161 606 | 378 379 | $1\ 062\ 054$ |
| 2005 | 72 238 | 94 990 | 171 865 | $452\ 774$ | $1\ 453\ 706$ |
| 2006 | 75 347 | 98 780 | 176 817 | 429 140 | $1\ 150\ 674$ |
| 2007 | 77 826 | 102 344 | 186 401 | $465 \ 165$ | 1 272 194 |
| 2008 | 80 105 | 106 086 | $196\ 445$ | $485\ 462$ | 1 263 949 |
| 2009 | 80 447 | 106 336 | 196 067 | 479 018 | 1 203 457 |
| 2010 | 81 350 | $107 \ 357$ | 199 308 | $497\ 877$ | 1 312 801 |
| 2011 | 83 520 | 109 478 | 194 881 | $366\ 695$ | 758 213 |
| 2012 | 84 625 | 110 806 | 195 486 | $351\ 721$ | 675 909 |
| 2013 | 85 736 | 112 441 | $204\ 530$ | 463 400 | 1 011 798 |
| 2014 | 86 382 | 113 242 | 206 753 | 466 641 | 998 991 |

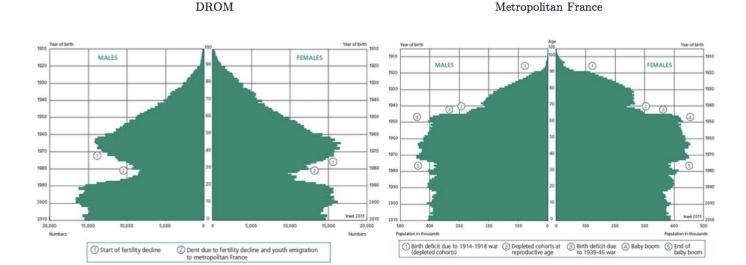
The corresponding inverted Pareto Coefficients are reported in Table D.5.

Table D.5: Inverted Pareto Coefficients

| Year | b90 | b99 | b99,9 | b99,99 | b99,999 |
|------|------|------|-------|--------|---------|
| 1960 | | 1,95 | 1,71 | 1,34 | 1,17 |
| 1986 | 1,83 | 1,48 | 1,46 | 1,50 | 1,49 |
| 1987 | 1,86 | 1,53 | 1,53 | 1,59 | 1,58 |
| 1989 | 1,84 | 1,55 | 1,59 | 1,67 | 1,68 |
| 1990 | 1,85 | 1,52 | 1,60 | 1,68 | 1,69 |
| 1991 | 1,80 | 1,48 | 1,55 | 1,62 | 1,62 |
| 1992 | 1,78 | 1,45 | 1,53 | 1,60 | 1,60 |
| 1993 | 1,76 | 1,40 | 1,46 | 1,52 | 1,51 |
| 1994 | 1,76 | 1,41 | 1,48 | 1,54 | 1,54 |
| 1995 | 1,74 | 1,40 | 1,39 | 1,42 | 1,41 |
| 1996 | 1,72 | 1,38 | 1,40 | 1,44 | 1,43 |
| 1997 | 1,72 | 1,38 | 1,37 | 1,40 | 1,39 |
| 1998 | 1,72 | 1,40 | 1,42 | 1,46 | 1,45 |
| 2000 | 1,77 | 1,37 | 1,29 | 1,30 | 1,27 |
| 2001 | 1,77 | 1,62 | 1,65 | 1,71 | 1,71 |
| 2002 | 1,78 | 1,62 | 1,62 | 1,68 | 1,67 |
| 2003 | 1,72 | 1,48 | 1,65 | 1,84 | 1,84 |
| 2004 | 1,72 | 1,50 | 1,69 | 1,90 | 1,91 |
| 2005 | 1,71 | 1,59 | 1,87 | 2,14 | 2,16 |
| 2006 | 1,70 | 1,57 | 1,68 | 1,80 | 1,80 |
| 2007 | 1,72 | 1,60 | 1,70 | 1,83 | 1,83 |
| 2008 | 1,74 | 1,62 | 1,66 | 1,75 | 1,75 |
| 2009 | 1,73 | 1,62 | 1,64 | 1,69 | 1,68 |
| 2010 | 1,73 | 1,67 | 1,73 | 1,73 | 1,73 |
| 2011 | 1,70 | 1,53 | 1,16 | 1,68 | 1,68 |
| 2012 | 1,70 | 1,51 | 1,11 | 1,60 | 1,59 |
| 2013 | 1,71 | 1,61 | 1,47 | 1,54 | 1,53 |
| 2014 | 1,70 | 1,63 | 1,44 | 1,53 | 1,52 |

E. Demography

Figure E.1: Population Pyramid in DROM compared to Metropolitan France



Source: Mazuy et al., (2011)

F. Archives

Extract:

M. J. B. Hoareau. — Nombre d'entre vous mes collègues étaient absents lorsqu'il s'est agi de voter l'impôt sur le Revenu, beaucoup d'entre vous également ignorent ce qui a été fait et ce qui a été dit à la Commission qui a été chargée d'étudier préalablement la question. Je ne plaide pas ici ma cause je ne suis qu'un simple employé vivant d'appointements modestes, mais franchement laissez moi vous dire que j'ai peur de l'impôt sur le Revenu.

M'adressant au Chef du Service des Domaines je lui ai posé cette question : si le confribuable, en déclarant sont revenu le fait honnêtement, de bonne foi et qu'il dise qu'il possède par exemple 10. mille francs. Que se passera-t-il si, à ce moment il y a doute de la part du fonctionnaire?

Il m'a été répondu : Si le fonctionnaire doute de votre déclaration on va vous imposer non pas à 10. mille mais 20. mille francs J'ai alors demandé à ce que le contribúable puisse avoir un Conseil c'est à dire quelqu'un qui puisse décider entre lui et le fonctionnaire. On a fort bien compris la chose et tour à tour il sut question du Maire et du juge de Paix. Mais des ce moment je m'élevait contre l'impôt sur le Revenu parceque le contribuable n'y trouvait pas de garantie. suffisante Nous voyons cet impôt aujourd'hui à 5 ./' demain il sera à 10 °/. puis à 20 °/. etc... Nous traversons un moment très pénible, il seut de l'argent et encore de l'argent. Puisque le Conseil d'Etat n'a pas accepté la garantie indispensable sur laquelle vous compliez. Je vous demanderai purement et simplement de repousser cet impôt.

M. Houreau. — Je persiste à penser que notre pays n'est pas mur pour cet impôt. Nous savons que beaucoup trop de fonctionnaires s'occupent de politique, que c'est en quelque sorte un brevet de capacité pour cux.

Source: Rapport et procès-verbaux des deliberations, Ile de La Réunion, Conseil Générale (3eme session extraordinaire de 1921, 16 Avril 1921)

The above extract is taken from the minutes of the session of the Conseil Générale in 1921. It gives an insight on the debate surrounding the introduction of the income tax in La Réunion under the colonial rule. It was implemented around 20 years later.