

Sectoral Origins of Income Taxation: Industrial Development in Latin America and The Case of Chile (1900-2010)

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Abstract

Building on the fiscal sociology paradigm, and the importance of the income tax for state-building, this paper outlines the conditions under which endogenous investments in fiscal institutions were most likely to occur in Chile and more generally in Latin America, starting in 1900. The paper contributes to the literature on state and fiscal development by presenting a historical comparative macro-structural argument centered on inter-elite conflicts. I use the case of Chile to sketch the theory, and several analyses of panel-data to suggest a possible generalization of the argument. My analyses and case study strongly suggest that strong states saw the emergence of a strong industrial sector with enough economic and political leverage to interrupt the political monopoly held by the landed elite which had inherited its privileges since colonial times, leading to subsequent sectoral compromises.

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I. INTRODUCTION

*The only important coercion which is
crucial to development is taxation*

Arthur Lewis, 1965

*The budget is the skeleton of the state
stripped of all misleading ideologies*

Schumpeter, 1991

According to most political economists, fiscal sociologists, development economist and economic historians, fiscal capacities are a prerequisite for state-building. Unfortunately, there have not been many attempts to explain *why* and *how* state and fiscal capacities in the developing world emerged.¹ With a few exceptions, most efforts have been devoted to understanding the relationship between the politics of taxation and state capacities only in a limited number of European cases. In a recently edited volume, [Monson and Scheidel \[2015, 3\]](#) explain that the “New Fiscal History has furnished a valuable set of concepts and questions but so far its scope has been limited to post-classical Europe.”² In fact, the bulk of research on Latin America has mostly focused on *recent* tax reforms.³ However, the *origins* of the Latin American *fiscal* state remain relatively unclear. Additionally, since wars in Latin America have been rare,⁴ it is difficult to extend models based on external threats originally developed to understanding the medieval European case.⁵ Importantly, domestic explanations such as the role of sectoral conflicts within a context of economic structural transformation, taxation and state-building has been overlooked.⁶ A few exceptions are [Gallo \[1991, 7-8\]](#), [Beramendi et al. \[2016\]](#) and [Saylor \[2014, 8\]](#) who consider elite conflicts to study state-making and fiscal development in the developing world.⁷ Building on the fiscal sociology paradigm, I propose that the development of the modern fiscal apparatus in Chile was product of sectoral conflicts and compromises that took place around in the 1920's between the industrial and agricultural political elites. The paper presents

¹Di John [2006, 5].

²Some important exceptions are [Yun-Casalilla et al. \[2015\]](#) and [Monson and Scheidel \[2015\]](#) who study a number of premodern states.

³[Fairfield \[2013\]](#) studies different strategies policymakers pursue to tax elites starting in 1990. [Mahon \[2004\]](#) and [Focanti et al. \[2013\]](#) study the causes of tax reform in Latin America starting in the 1980s and 1990, respectively. Similarly, [Ross \[2004\]](#) studies the relationship between taxation and representation between 1971 and 1997, whereas [Sokoloff and Zolt \[2007\]](#) study the evolution of tax institutions comparing the U.S. with Latin America. See also [Sanchez \[2011\]](#) and [Bergman \[2003\]](#).

⁴[Centeno \[2002\]](#).

⁵[Tilly \[1992\]](#). See also [Besley and Persson \[2009\]](#).

⁶For example, [Schneider \[2012, 2\]](#) argues that even when “[t]here has been significant attention given to the role of revenues in building early Western European states, and even some attention given to formative moments of state-building in developing countries [but] we have limited insight into what happens when economies change significantly, with new leading sectors, new patterns of social organization, and new requirements of state authorities.”

⁷[Wheeler \[2011\]](#) studies how inter-elite cooperation and agreements positively impacted state-making in Europe.

several panel-data analyses covering almost 100 years of sectoral outputs for a number of Latin American countries in an effort to generalize the theory. Using Cox proportional hazard regressions I model the *contribution* of each sector on the ‘hazard’ of implementing the income tax law. I find that the emergence of the industrial sector *accelerated* the implementation of the income tax while the expansion of the agricultural sector *retarded* or even *precluded* fiscal development.

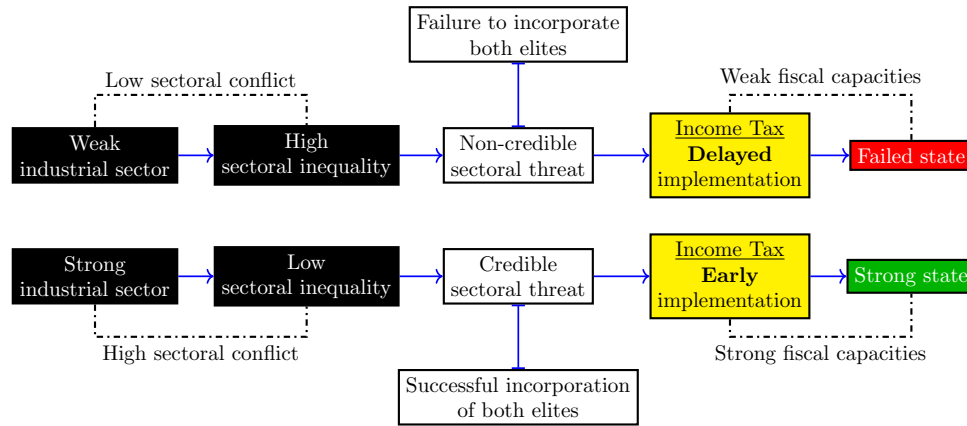


Figure 1: *Causal Mechanism*

I argue that the early implementation of the income tax in Latin America was product of an inter-sectoral conflict that took place around in the early 1900's between the agricultural and industrial sectors. Initially, Latin American political institutions and social norms largely inherited from the colonial period were designed to serve the interests of the landowning elites. However, the economic structural transformation characterized by “a secular decline of agriculture and substantial expansion of manufacturing”⁸ imposed tight constraints on the way politics was run by the incumbent agricultural class. Given the initial advantage of the landed elites, the emergence of the industrial sector meant the reduction of inter-sectoral inequality. Lower levels of inter-sectoral inequality posed credible political, economic and military threats to agricultural incumbents, increasing the opportunity costs of conflict, generating pressures for inter-elite compromises. Analytically, the emergence of the industrial sector not only altered the structure of the economy but also the inter-sectoral balance of *political* power, triggering a series of inter-sectoral compromises. Here I identify one such compromise, the implementation of the income tax law.

In this paper I leverage a number of Cox regressions using comparative data on a number of Latin American countries to suggest that a rapid expanding industrial sector accelerated the implementation of the income tax. To explore the causal mechanisms at work more deeply, I present the Chilean case to show that industrial elites accepted to be income taxed by agriculturalist incumbents in exchange of having a more open political system and more state services. I explain

⁸Johnston and Mellor [1961, 567].

that when the income tax was implemented under politically contested circumstances (as it happened in Chile), this institution expanded the overall state capacities by crystallizing a series of reforms that replaced the old institutional order inherited since colonial times. However, when the income tax was imposed late in history, its implementation did not reflect the *early foundational sectoral cleavage*, an important feature according to the fiscal sociology, truncating the development of state institutions. For example, Chile imposed the income tax law in 1924, and the *Servicio de Impuestos Internos* is among the finest tax institutions in Latin America. However, Guatemala imposed the income tax law very late, in 1963, and by 1967 the national income tax office employed 194 people, and only 9 of whom had graduated from college.⁹ While Guatemala implemented the tax, the institution did not reflect the preferences of both sectors. In fact, the law responded more to exogenous forces. Particularly, the law was implemented by the US-backed dictator Colonel Enrique Peralta Azurdia, not necessarily reflecting the inter-sectoral domestic dynamics. In these kinds of scenarios, landowners were never challenged and there were less pressures to centralize the state, making further institutional investments less likely. These results go in line with Beramendi et al. [2016, 7] in that ‘so long as agricultural elites are the dominant political power-holders in society, then fiscal capacity should remain relatively small, because such elites will prefer *not* to invest in greater fiscal capacity.’¹⁰ Consequently, the tax was not important because of the new revenue it collected,¹¹ but because its implementation required a series of sectoral compromises, triggering a series of other institutional investments, such as the implementation of checks-and-balances (to monitor tax spending) and the development of skilled bureaucracies. Crucially, the knowledge and expertise the state accumulated were transferred to other state institutions via spillovers, augmenting the overall levels of *stateness*. For example, leveraging historical earthquake data, Bahamonde [2017b] finds that the income tax increased the overall state capacities to reduce the death-toll of the average earthquake in Chile.

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⁹Di John [2006, 5].

¹⁰Emphasis in original. See also for a similar approach Ansell and Samuels [2014] and Collier and Collier [2002].

¹¹Public economists usually focus on tax revenues. However, higher revenues do not mean higher *stateness* levels. For example, since American institutions were deliberately designed to limit the exercise of state power, the U.S. taxes very little (Fukuyama [2004, 6]). However, it is not reasonable to say that the U.S. has a “weak state.” Moreover, high taxation levels do not necessarily imply higher levels of state capacities either. Kiser and Tong [1992, 301] explain that in the Ming (1368-1644) and Qing (1644-1911) China, higher taxes were in fact “the result of rulers’ lack of power. Chinese rulers consistently attempted to limit official’s excessive extractions from the masses, but were unable to do so.”

and reforms that replaced the old institutional order inherited since colonial times. However, when the income tax was imposed late in history, its implementation did not reflect the *early foundational sectoral cleavage*, an important feature according to the fiscal sociology, truncating the development of state institutions. For example, Chile imposed the income tax law in 1924, and the *Servicio de Impuestos Internos* is among the finest tax institutions in Latin America. However, Guatemala imposed the income tax law very late, in 1963, and by 1967 the national income tax office employed 194 people, and only 9 of whom had graduated from college.¹² While eventually Guatemala did implement the tax, the institution was not product of a domestic endogenous inter-sectoral agreement. In fact, the law responded more to exogenous forces. Particularly, the law was implemented by the US-backed dictator Colonel Enrique Peralta Azurdia, not necessarily reflecting the inter-sectoral domestic dynamics. In these kinds of scenarios, landowners were never challenged and there were less pressures to centralize the state, making further institutional investments less likely. These results go in line with Beramendi et al. [2016, 7] in that ‘so long as agricultural elites are the dominant political power-holders in society, then fiscal capacity should remain relatively small, because such elites will prefer *not* to invest in greater fiscal capacity.’¹³ Consequently, the tax was not necessarily important because of the new revenue it collected,¹⁴ but because its implementation required a series of sectoral compromises, triggering a series of other institutional investments, such as the implementation of checks-and-balances (to monitor tax spending) and the development of skilled bureaucracies. Crucially, the knowledge and expertise the state accumulated were transferred to other state institutions via spillovers, augmenting the overall levels of *stateness*. For example, leveraging historical earthquake data, Bahamonde [2017b] finds that the income tax increased the overall state capacities to reduce the death-toll of the average earthquake in Chile.

This argument is situated within the broader literature on political and economic development. Particularly, the argument is situated within the broader fiscal sociology paradigm, emphasizing how fiscal development was important for state-making. And while some scholars situate the relevant state-building critical juncture at the end of the colonial period, before the class compromises I identify in this paper. For example Kurtz [2009, 2013] explains that the first critical juncture corresponded to the post independence political economy, stressing whether local rural elites recruited their workers through servile means. In turn, Soifer [2015, 6] argues that the critical tipping point was whether “local administrators were outsiders in the communities in which they served.” Both critical junctures happened *before* 1900. While the process of state-building started before 1900, the

¹²Di John [2006, 5].

¹³Emphasis in original. See also for a similar approach Ansell and Samuels [2014] and Collier and Collier [2002].

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paper identifies the income tax as an important *additional* building block in that process.

II. TAXATION AND STATE FORMATION

According to the fiscal sociology approach, the great modern innovation was not the rise of capitalism (Marx) nor the rise of modern bureaucracy (Weber), but the rise of the “tax state,” which developed institutions to penetrate individual economies.¹⁵ It was Schumpeter who called for a systematic study of public finances, and to treat taxation both as cause and consequence of large-scale changes in the structure of the economy and the state.¹⁶ I use this framework to contend that the expansion of the fiscal system embodied especially in the implementation of the income tax was the spring of the political structural transformation that took place around in the 1900's. Faster industrial output nurtured a new demanding political elite, leading to a string of institutional investments, setting countries in a long-term path of institutional development. I agree with Musgrave [1992, 99]: since taxation (especially on incomes) requires such a high degree of state penetration, public finances offer the key for a theory of state development.

The fiscal sociology paradigm is vast.¹⁷ Without trying to survey all of it, this paper follows the classical approach famously suggested by Schumpeter in that it sees “taxation in terms of group conflicts [and] class interests.”¹⁸ Similarly, Seligman in 1895 argued that “[f]iscal conditions are always an outcome of economic relations,”¹⁹ while Goldscheid in 1925 famously argued that “tax struggles are among the oldest forms of class struggle.”²⁰ This paper is situated within this classic tradition, emphasizing the sectoral conflicts between agricultural and industrial elites in Latin America. As others have argued, political development and particularly “state formation will be more likely to the degree that powerful individual actors form two groups on the basis of *divergent* economic and political interests.”²¹ Since state centralization affects landowners and industrialists in different ways,²² this approach is especially relevant for the Latin American case. Agriculturalists systematically resisted taxation as land fixity increased the risk premium of their main asset,²³ while industrialists' preferences toward taxation were more elastic as capital could be reinvested in nontaxable sectors.²⁴ Taxation has always been conflictual since it has an important coercive

¹⁵Moore [2004b, 298]. See epigraphs (Schumpeter [1991, 100] and Lewis [1965, 42]). This argument has been famously developed by Levi [1989] as well.

¹⁶Martin et al. (in Martin et al. [2009, 2]). See also Schneider [2012, 35] who argues that “[p]ublic finances are causal and symptomatic. Revenues are necessary to build states; the act of gathering revenues structures societies; productive societies and capable states generate revenues.”

¹⁷For an excellent overview of both classic and new fiscal sociology refer to Martin et al. [2009, Ch. 1].

¹⁸Monson and Scheidel [2015, 14].

¹⁹In Martin et al. [2009, 7].

²⁰In Campbell [1993, 168].

²¹Hechter and Brustein [1980, 1085]. Emphasis is mine

²²Acemoglu and Robinson [2009, 289].

²³Robinson [2006, 512].

²⁴Hirschman [1970] and Ronald Rogowski in Drake and McCubbins [1998, ch. 4]. However, see Bates and Lien [1985, 15].

element. As Martin et al. argue “a tax is not a fee paid in direct exchange for a service, but rather an obligation to contribute.”²⁵ What makes taxation relevant, conflictual and coercive is not the tribute itself (and the potential promise of provision of public goods), but its compulsoriness. Regardless of an individual's race, religion, culture or any other kind of status, the state classifies its subjects according to their incomes and oblige them to pay, punishing whoever refuses to do so. From a sociological standpoint, this “generality makes taxation a crucial element in the development of the ‘imagined community’ (Anderson [2006]) [...] Taxation enmeshes us in the web of generalized reciprocity that constitutes modern society.”²⁶

Not all kinds of taxes have the same level of positive impact on state-building. Indirect taxes do not need to develop a strong fiscal apparatus.²⁷ According to Best [1976, 53], “indirect taxes are but substitutes for direct taxes,”²⁸ and hence they are typically administered by weak states.²⁹ Since indirect taxes are, *ceteris paribus*, easier to levy,³⁰ this kind of revenue is generally considered “unearned income”³¹ or “easy-to-collect source of revenues.”³² Given the relatively lower costs states have to incur to collect them, indirect taxes have a very low impact on state-building. In fact, when early Latin American states depended heavily on international trade taxes, the state apparatus tended to be less developed.³³ Since customs administrations in the region have always been concentrated in a few critical locations, especially ports, tariffs and customs duties did not require an elaborate fiscal structure.³⁴

Direct taxes are more likely to produce long-lasting positive effects on state-building. Since direct taxation involves a compulsory transfer from private hands to the government sector for public purposes,³⁵ it is harder to collect,³⁶ requiring stronger domestic alliances to sustain these kinds of policies. Following the fiscal sociology paradigm, in this paper I focus on the income tax. From a historical standpoint, its introduction “was one of the major events in fiscal history that contributed to the growth in *government* observed during the past 150 years.”³⁷ Since taxing incomes involves transforming private income into public property,³⁸ this form of taxation demands the

²⁵in Martin et al. [2009, 3].

²⁶Martin et al. (in Martin et al. [2009, 3]).

²⁷However, see Brewer [1990, 56]. The English state made extensive use of its navy to prevent smuggling and enforce the excise, an indirect tax. The excise employed an important number of state agents and helped to develop skilled state bureaucracies and an efficient fiscal system.

²⁸However, under certain circumstances, indirect taxes are more efficient. Kiser [1994, 291] explains that when the levels of tax variability are high, direct taxation can actually have negative effects, especially when overtaxation is a possibility.

²⁹This view is also supported by Moore [2004a, 14].

³⁰Krasner [1985, 46] explains that “tariffs and export taxes are easier to obtain than direct taxes, which require high levels of bureaucratic skill and voluntary compliance.”

³¹Moore [2004b, 304].

³²Coatsworth and Williamson [2002, 10].

³³Campbell [1993, 177].

³⁴Bertola and Ocampo [2012, 132].

³⁵*Cfr.* Raja Chellia, “Trends in Taxation in Developing Countries,” in Migdal [1988, 282].

³⁶Kurtz [2013, 62].

³⁷Aidt and Jensen [2009, 171]. Emphasis is mine.

³⁸Musgrave [1992, 98].

endogenous development of both stronger state institutions and efficient monitoring and enforcement technologies.³⁹ As others have pointed out, “administrative constraints are identified as the main constraint to the ability of states to collect [the] income tax.”⁴⁰ Political alliances should exist to overcome these logistic, institutional and political domestic challenges. Critically, economic elites, should agree to comply with the income tax.⁴¹ Beramendi et al. [2016] argue that in fact Latin American “capitalist elites [*preferred*] to shoulder a higher tax burden through progressive direct taxation, which they [viewed] as the least-worst economic option,” fostering fiscal expansion.⁴² Firstly, I contend that an elite divided on an *economic* cleavage should be at the same time divided on their *political* preferences, particularly regarding their attitude towards state centralization.⁴³ Elites split along economic interests should then use state power to influence the institutional order in different ways. Secondly, I contend that since tax revenues depend upon the interests of different classes as they attempt to use state power for their own purposes,⁴⁴ class conflicts are more likely to resolve in favor of direct taxation where income inequality *among the elite* is low.⁴⁵

As depicted in Figure 1, here I focus on how the emergence of the industrial sector lowered the levels of inter-sectoral inequality making possible higher levels of inter-sectoral contestation, forcing industrial and agricultural political elites to make institutional agreements. Given that similar degrees of sectoral economic development can be converted into armies of similar capabilities,⁴⁶ elites will have incentives to make agreements rather than engaging in conflict when their economic/military capacities are similar. For instance, in the next section I explain how equally powerful elites managed to seek and get support of different branches of the military. Analytically, lower levels of inequality forced cooperation by generating credible military threats to the incumbent elites. Furthermore, when levels of inter-elite inequality were low (and military resources were more accessible for both elites), war was more likely to exhaust all existent assets without producing positive outcomes for either sector,⁴⁷ increasing the opportunity costs of conflict.

III. UNPACKING THE MECHANISMS: CHILE 1850-1950

To provide some historical context, in this section I present the Chilean case. As an economically and socially developed example,⁴⁸ this case should be able to show the inter-sectoral dynamics

³⁹Lieberman [2002, 99].

⁴⁰Di John [2006, 5].

⁴¹Best [1976, 71] argues that the “actual composition of taxes can be viewed as dependent upon the distribution of power rather than as an expression of the free choice of the majority of the people.”

⁴²They particularly argue that progressive taxation is better relative to “trade taxation, which can negatively impact the industrial sector” (p. 18).

⁴³See for example Llavador and Oxoby [2005].

⁴⁴Best [1976, 50].

⁴⁵Tani [1966, 157] explains that the absence of “wealth groups” makes passing an income tax law easier.

⁴⁶Boix [2015].

⁴⁷Richard Salvucci in Uribe-Uran [2001, 48].

⁴⁸Mahoney [2010, 5].

that fostered institutional development. Particularly, this section shows how the emergence of the industrial sector reduced inter-elite inequality, generating credible threats to the agricultural landowners and promoting sectoral agreements. I pay special attention to the conditions that led to the implementation of the income tax law.

Historians still debate whether agriculturalists and industrialists comprised two *different* elites. Some claim that this dualism is incorrect.⁴⁹ They argue that since landowners also invested in industry,⁵⁰ there was a blurry class division between the mining, banking and agricultural sectors.⁵¹ I contend that there are a series of facts that suggest that there was indeed a structural fracture between the two sectors. Here I explain how there were certain practices that mask the sectoral dualism. For example, it was common that industrialists invested in real state. However, in many instances they did so *just* to obtain credit. Kirsch [1977, 59] explains that “in a *rural society* land offered one of the best guarantees for loans [since] loans could not be secured by equipment, machinery, or inventory. Only real estate was acceptable collateral.”⁵² In fact, this practice shows how the credit system was oriented to give unfair advantage to the landed elites. Similarly, Zeitlin [1984, 174] finds that while there were some instances where there were mixed investments, ‘the combined ownership of capital and landed property was a distinctive quality of *certain* of [the elites] actors.’⁵³ There were also other instances where miners invested in banking. However, Segall [1953] argues that Chilean bankers, after the crisis of the mining sector around the 1870s, acquired a number of mineral deposits given as collateral years before, again suggesting that the lack of economic dualism is rather apparent. Similarly, but for the Argentinean case, Hora [2002, 609] explains that ‘the image of an entrepreneurial elite with assets *scattered throughout several spheres of investment* does not appear entirely correct.’⁵⁴ And finally, Bahamonde [2017a] explains how the dual *structure* of the economy was *incompatible* with a fully diversified investment portfolio. Concretely, he shows how in some developed Latin American cases the structure of the economy was designed to allocate resources *from* the land *to* the industries, suggesting a situation of sectoral distinctiveness.

In all Latin American economies during and right after the colonial period, agriculture was the most important sector.⁵⁵ And by extension, the economic interests of the agricultural elite were the only economic interests represented in politics.⁵⁶ For example, Collier and Collier [2002, 106]

⁴⁹See for example Mamalakis [1976, 125].

⁵⁰Kirsch [1977, 57, 95] who cites Bauer [2008]. See also Coatsworth and Williamson [2002, 23] argue that “[t]he only landowners that mattered in 19th century Latin American politics were those for whom land represented but one asset in a much broader portfolio.” In the same vein, Bauer [2008, 180] argues that “[m]iners and merchants bought haciendas but landowners in turn invested in banks, insurance companies, commercial firms and the incipient industrial sector.”

⁵¹Bauer [2008, 30, 44, 94, 108].

⁵²Emphases are mine.

⁵³Emphasis is mine.

⁵⁴Emphasis is mine.

⁵⁵Keller [1931, 13].

⁵⁶Wright [1975, 45-46].

argue that initially the “national government was dominated by the central part of the country, with owners of large agricultural holdings playing a predominant role.”⁵⁷ Moreover, political institutions and social norms inherited from the colonial period were designed to allocate economic inputs (and hence *growth*) in a way that benefited the landowning class only.⁵⁸

There existed an important asymmetry. While the industrial sector was growing, they were kept from participating in politics with the same privileges and conditions landowners had. Consequently, it was easy for the agricultural elite to produce policies that were designed to enhance their sector. Zeitlin [1984, 13] argues that “landowners controlled both the vote and the labor power of the agrarian tenants (*inquilinos*) and dependent peasants (*minifundistas*), and this was the *sine qua non* of their continuing political hegemony.” In Congress, and the presidency itself, landowners were the single most important group,⁵⁹ leaving the modern sector heavily under-represented.⁶⁰ Consequently, fiscal pressures in favor of agricultural taxes were minimal compared with mining taxes,⁶¹ leaving the agricultural sector systematically - and substantially - undertaxed relative to other sectors.⁶² Historians explain that “[i]n those areas where the government did interfere in the countryside, the effect was to strengthen the position of the landowning class.”⁶³ For example, the little public infrastructure that existed benefited the agricultural sector.⁶⁴

For nearly 400 years, mining was the most important activity outside of agriculture. Eventually, the mining sector failed to catch up with more efficient technologies better suited to exploit low-grade ores,⁶⁵ and collapsed. After the mining boom, mining elites shifted their focus to what is considered the first *true* industrial work which began under agricultural auspices: the cotton mills.⁶⁶ The first industries were called *obrajes* and beyond textiles, early industrialists processed other agricultural goods.⁶⁷ The industrial sector was boosted by favorable international conditions, many times

⁵⁷Similarly, McBride [1936, 15] explains that “Chile’s people live on the soil. Her life is agricultural to the core. Her government has always been of farm owners. Her Congress is made up chiefly of rich landlords. Social life is dominated by families whose proudest possession is the ancestral estate.” Emphases are mine.

⁵⁸Bahamonde [2017a].

⁵⁹Bauer [2008, 45].

⁶⁰As Baland and Robinson [2008, 1748] argue, “[c]ongressional representation was heavily weighted in favor of rural districts.”

⁶¹As explained, mining was one of the first manifestations of industrial activity. For example, while an agricultural income tax was imposed, it was weak and abolished after the civil war of 1891.

⁶²Best [1976, 56]. Bauer [2008, 81] provides a very plausible explanation for why the agricultural sector was “structurally” protected against taxation. As he explains, “[t]he availability of an easily accountable source of public revenue - bags of nitrate or bars of copper - meant that any need for the Chilean government to intrude into the affairs of landowners was reduced [...] the state kept its political hands off the countryside until the overwhelming urban demands for more food and political support in the 1960s.” Zeitlin [1984, 38] also points out that “public revenues came almost exclusively from taxes on mining and its exports.”

⁶³Bauer [2008, 118].

⁶⁴Rippy [1971], Marichal [1989], Zeitlin [1984], Bauer [2008].

⁶⁵Kirsch [1977, 53].

⁶⁶See Rippy [1971, 231]. As Bethell [1986, 271] argues, “[t]he first power looms were brought [in Perú, Ecuador, and Venezuela] in the 1840s, 1850s; but in all three they were a failure, some of the early mills in Ecuador being destroyed by an earthquake. It was not until after 1890 that the textile industries of these nations began to operate with reasonable success. Guatemala’s first cotton mill was established in 1882, and between that date and 1910 a few mills appeared in Chile, Argentina, Uruguay, and Colombia.”

⁶⁷For example, animal grease and tallow, dried and cured meats, flour, bread, beer, wines and spirits, being most of

stimulating a positive complementarity between two industries. Industrial activities started very small,⁶⁸ progressing “from the shop to the factory during the latter half of the nineteenth century.”⁶⁹ Importantly, modern industrialization did *not* begin with ISI, but around 1900. Bertola and Ocampo [2012, 129] find that the “fact that manufacturing was alive and thriving in Latin America before the 1929 crash is now beyond question.” Similarly, Haber [2005, 2] finds that the “development of large-scale, mechanized (and even “heavy”) industry can be dated back to the 1890s.”⁷⁰

In Chile, the industrial elite was composed by an incipient, yet strong and cohesive group of individuals. Historian Francisco Encina explains that the members of the non-agricultural class were ‘not only close associates, or drawn from the same family, but they were the same individuals.’⁷¹ In the process of going from mineowners to proto-industrialists, this incipient elite developed a strong sense of social *class*.⁷² Sectoral interests were organized as follows. The *Sociedad de Fomento Fabril* (SOFOFA) was founded in 1883 to represent the interests of the the industrial sector against the interests of the agricultural sector, represented by the *Sociedad Nacional de Agricultura* (SNA), founded 45 years earlier. The SNA “was the most powerful associational interest group in nineteenth-century Chile,”⁷³ and according to Wright [1975, 51], it clearly thought of itself as a social class. By the 1920s, industrialists started to “form trade associations to engage in lobbying and propaganda as more coherent interest groups.”⁷⁴

Both economic sectors were similarly developed but only agriculturalists had access to fair political representation. This asymmetry led these two ‘antagonistic elites’⁷⁵ to confront in the civil wars of 1851-1859 and 1891 between a “large landed property [elite against a] productive capital [elite].”⁷⁶ President Balmaceda’s overthrowing explains the sectoral nature of these conflicts. On the one hand, he was mainly supported by the landed elites, but later overthrown in 1891 by a mainly industrial/mining coalition.⁷⁷ While his agenda on “industrial” infrastructure (mainly roads and railroads) benefited mostly agricultural areas,⁷⁸ his attitude towards the banking sector (closely

them for domestic consumption (Bethell [1986, 272]). Sugar was used in the production of chocolate, candies and biscuits (Bertola and Ocampo [2012, 129]).

⁶⁸Marichal [1989], Rippy and Pfeiffer [1948, 68].

⁶⁹Rippy [1971, 235].

⁷⁰For example, Rippy and Pfeiffer [1948] and Pfeiffer [1952] explain that by the 1870’s the carriage industry was on a firm basis.

⁷¹In Zeitlin [1984, 30], emphasis in original. He describes several last names which are still associated with the Chilean elite, such as Ossa, Edwards, Vicuña Mackenna, Matta, Goyenechea, Cousiño, Urmeneta, Gallo and Subercasaux. Emphasis in the original. Similarly, Wright [1975, 48] supports the thesis that nitrate development led to the development of an “incipient industrial establishment.”

⁷²Kirsch [1977, 41] explains that the founding of the SOFOFA clearly reflected a “tension created by the *awareness* of the incongruence between the actual exploitation of economic forces and the potential that could be extracted from them through industrialization,” emphases are mine.

⁷³Wright [1973, 244].

⁷⁴Weaver [1980, 107].

⁷⁵Keller [1931, 37-38].

⁷⁶Zeitlin [1984, 23].

⁷⁷Zeitlin [1984, 186].

⁷⁸Zeitlin [1984, 124].

linked to the mining sector)⁷⁹ was 'all but confiscatory.'⁸⁰ On the other hand, however, he failed to secure a coalition with his own sector. Zeitlin [1984, 127] explains that the 'decline of wheat exports [...] came precisely when a vast new market for agriculture was growing in the nitrate territory.' As the agricultural sector supplied the industrial areas with foodstuff, it simultaneously increased the *sectoral dependence* of the agricultural elites on the industrial sector, forcing the "landed proprietors [to] become dependent to a considerable extent on the continuing prosperity of the major nitrate capitalists."⁸¹ He explains that while biased investments against the industrial class played an important role, the sectoral economic dependence between the two sectors was the major factor that mobilized both elites into the civil war of 1891. Ultimately, this case illustrates the sectoral economic conflicts between the two elites. While it would be inaccurate to say that Balmaceda was *completely* supported by agriculturalists and *completely* opposed by industrialists, this example illustrates how (failed) inter-sectoral alliances and biased public goods provision against industrialists led these two groups to a military conflict in 1891. Lower levels of inter-elite inequality gave both elites access to military resources. While *Balmacedistas* managed to secure support with of army, *congresistas* (the anti-Balmaceda group) managed to gather support of the navy.

The conflict left a permanent scar in the Chilean society. While the civil war lasted only nine months, it took 10,000 lives (out of a total population of 3 million people) and cost more than \$ 100 million,⁸² a significant amount for a small country. This legacy materialized in an inefficient but politically stable political system for several years. In part, the immobilism was due to the fact that the political reforms that gave way to a 'parliamentary' system came from the conflicting elites themselves.⁸³ However, the intention to avoid more violence (at least among the elites) tended to persist. For instance, while all "ministers, counselors of state, members of the constituent congress [,] municipal officials, provincial governors and intendants, members of the judiciary and even the lowest functionaries and ordinary employees of Balmaceda's government were investigated [or] brought to trial,"⁸⁴ there were a number of amnesties issued. Similarly, there were a number of *aborted* coups in 1907, 1912, 1915 and 1919.⁸⁵ I identify a third additional factor. War was more likely to exhaust all existent assets without producing positive outcomes for either sector, putting pressures for a sectoral compromise.⁸⁶ Three institutional components were considered: an income tax, industrial protectionism, and equal access to the state. Here I focus on the first component.⁸⁷ The faster the

⁷⁹Zeitlin [1984, 118].

⁸⁰Zeitlin [1984, 175].

⁸¹Zeitlin [1984, 129].

⁸²Zeitlin [1984, 86].

⁸³Collier and Collier [2002, 108].

⁸⁴Zeitlin [1984, 87].

⁸⁵Collier and Collier [2002, 109].

⁸⁶Similarly, Geddes [1991] argues that competition between two rival parties of about the same size creates clearer incentives to invest in political institutions.

⁸⁷The SOFOFA pursued a very strong protectionist agenda. Sokoloff and Zolt [2007, 122] explain that the expansion of "manufacturing production [...] helped to nurture the development of a powerful constituency for higher tariffs." In fact, Lederman [2005, 53] finds that in Chile the timing of protectionist and income taxation cycles matches,

industrial growth, the higher the pressures to impose a tax to capture increasing industrial incomes. This is in line with [Besley and Persson \[2011, 59\]](#) who argue that “investing in fiscal capacity becomes more attractive [...] when wages or incomes [...] are higher.”⁸⁸ [Beramendi et al. \[2016\]](#) also find that investments in fiscal capacities are conditional on the expansion of the industrial sector.

The income tax law was passed in Chile in the middle of big political instability. In 1920 President Alessandri obtained a very close victory against Luis Barros Borgoño,⁸⁹ who was supported by ‘the dominant political and landed aristocracy.’⁹⁰ Governability was seriously compromised as the election let the senate in control of the landowning class, who roundly opposed tax reforms.⁹¹ Particularly, the opposition had ‘serious differences [...] over [Alessandri’s] legislative program, especially in connection with the proposed income tax.’⁹² Eventually, in 1924 the income tax law was passed. As others explain, the non-agricultural “accepted taxation, *while demanding state services and expecting to influence how tax revenues were spent.*”⁹³ The law taxed 2% on professional income above 2,400 pesos, 3.5% on net profits in industry and commerce above the same sum, 5% on income from mining, and 9% per cent on incomes from real estate.⁹⁴ Humud (1969, p. 154) explains that the income tax generated considerable resources, and that the tax in “1930 [it] would become second only to import duties in size.”⁹⁵ In turn, the military was concerned with the general budget situation. Salaries of army and navy officers ‘were two months in arrears.’⁹⁶ Famously, on September 3 of 1924 young officials attend the galleries of the senate and made noise with their sabers to demonstrate their discontent. After the resignation of the entire cabinet, president Alessandri sided with the army in an effort to accelerate the implementation of several pieces of legislation that have been blocked by congress for months.

The implementation of the income tax in Chile was associated with the implementation of other state institutions, expanding the bureaucratic *dominion* of the state. However, unlike other ‘regular’ state institutions and services, taxing incomes in fact infiltrated the state’s coercive sovereignty unto the individual itself. It was the practice of this technology that gave the state the big push allowing the reproduction of its power in other areas throughout the territory. Following the fiscal sociology paradigm, I contend that the more effectively the state taxed its subjects, the more knowledge accumulated performing *other* state activities. The knowledge and expertise the state accumulated were transferred to other state institutions via spillovers, augmenting the overall levels of *stateness*.

suggesting the plausibility of the sectoral bargains that took place around in the 1920’s between the two elites. See for a similar view [Haber \[2005, 18\]](#).

⁸⁸Similarly, see [Campbell and Allen \[1994, 647\]](#) who explain that “economic development should be directly related to individual and corporate income tax rates.”

⁸⁹[Collier \[1999, 111\]](#).

⁹⁰[Haring \[1931, 2\]](#).

⁹¹[Haring \[1931, 5\]](#).

⁹²[Haring \[1931, 3\]](#).

⁹³Carmenza Gallo, in [Brautigam et al. \[2008, 165\]](#). Emphases are mine. She refers specifically to the mining elites.

⁹⁴[James \[1924, 552\]](#).

⁹⁵[Bowman and Wallerstein \[1982, 451-452\]](#).

⁹⁶[Haring \[1931, 6\]](#).

For instance, it was necessary to send official emissaries to check on accounting books of the refinery in the north, the winery in the central valley and the *hacienda* in the south. Eventually, these delegations became more complex, increasing the density of state presence in the territory. For instance, [Strayer \[2005\]](#) explains how official state delegations traveled the territory dispensing judicial decisions, fostering state centralization. [Bahamonde \[2017b\]](#) finds that the conflict over the implementation of the income tax generated alliances with subnational elites, fostering sustained state-capacities throughout the territory. Also, part of its effectiveness can be explained in that (1) elites carried a big chunk of the burden, and that (2) the most influential economic groups agreed on the implementation of the tax.⁹⁷ In fact, [Bergman \[2003\]](#) explains that Chile is one of the few successful cases of tax compliance in Latin America.

IV. ECONOMETRIC ANALYSES

Following the economic development typology suggested in [Mahoney \[2010, 5\]](#), nine polities were selected. Three ‘higher level’ countries (Argentina, Chile and Venezuela), three ‘intermediate level’ countries (Mexico, Colombia and Perú), and three ‘lower level’ countries (Ecuador, Nicaragua and Guatemala). I proxy sectoral conflicts and specifically the degree in which the industrial elites challenged incumbent landowners by using industrial and agricultural sectoral growth rates as presented in the [MOxLAD](#) data.⁹⁸ The dataset spans from 1900 to (potentially) 2010.⁹⁹ According to [Astorga et al. \[2005, 790\]](#), these data provide extended comparable sectoral value-added series in constant purchasing power parity prices.¹⁰⁰ Using secondary information, [Table 1](#) states *when* the income tax was implemented, which was the specific law, and its corresponding source(s). [Figure 2](#) shows both sectoral outputs (independent variables) and the year when the income tax law was passed (dependent variable). Since population has been associated with the probability elites expand the franchise,¹⁰¹ and consequently the tax base, I include total country-year population as a control variable.

Before estimate the models, it is important to rule out the possibility that income taxation and sectoral development are not linked through a spurious, time-dependent relationship. The occurrence of the outcome of interest (taxation) should not be directly related to time itself, but to the rise of the industrial elite. Within the framework of survival analyses, [Figure 3](#) shows the failure

⁹⁷[Beramendi et al. \[2016\]](#).

⁹⁸“These data build on the studies and statistical abstracts of the Economic Commission for Latin America, but also rely on Mitchell’s International Historical Statistics, International Monetary Fund’s International Financial Statistics, the World Bank’s World Development Indicators and a variety of national sources.” I used the *agriculture value-added* and *manufacturing value-added* variables. The former measures “the output of the sector net of intermediate inputs and includes the cultivation of crops, livestock production, hunting, forestry and fishing.” The later “[r]eports the output of the sector net of intermediate inputs.” Both of them are expressed in local currency at 1970 constant prices.

⁹⁹As I explain later, I test this argument within the duration model approach. Since countries are censored once they implement the income tax law, they leave the sample potentially before 2010.

¹⁰⁰Using a similar strategy, [Thies \[2005\]](#) also uses data on taxation and compare those data between cross sections.

¹⁰¹[Engerman and Sokoloff \[2005, 892-893\]](#).

Country	Available Data	Year Income Tax	Law	Source
Chile	1900 - 2009	1924	<i>Ley 3996</i>	Mamalakos [1976, 20] and LeyChile.Cl (official)
Peru	1929 - 2009	1934	<i>Ley 7904</i>	Gobierno del Perú [1934] (official)
Venezuela	1936 - 2006	1943	<i>Ley 20851</i>	Gaceta Oficial (official) and Ventura and Armas [2013, 27]
Colombia	1900 - 2009	1935	<i>Ley 78</i>	Figuerola [2008, 9]
Argentina	1900 - 2010	1933	<i>Ley 11682</i>	Infoleg.Gob.Ar (official)
Mexico	1900 - 2009	1965	<i>Ley de Impuesto sobre la Renta</i>	Díaz González [2013, 130-133] and Diario Oficial (official)
Ecuador	1939 - 2007	1945	-	Aguilera and Vera [2013, 135]
Nicaragua	1920 - 2009	1974	<i>Ley 662</i>	Legislacion.Asamblea.Gob.Ni (official)
Guatemala	1920 - 2009	1963	<i>Decreto 1559</i>	Instituto Centroamericano de Estudios Fiscales [2007, 165]

Table 1: *Sample, Data Available and Year the Income Tax was Implemented*

rate of the sample average country of implementing the income tax if industrial development had increased/decreased by half (‘rapid’/‘slow’).¹⁰² The figure strongly suggests that the implementation of the income tax law is largely accelerated when the size of the industrial sector increases, and that this relationship does not depend directly on time.

Table 2 shows 5 models.¹⁰³ Following Aidt and Jensen [2009], Model 1 computes the lagged conditional hazard ratio of a country which has not yet adopted the income tax adopts it in a given year as a function of industrial and agricultural outputs.¹⁰⁴ Countries drop out of the sample when they adopt the income tax. Model 2 is also a Cox regression, but with lagged logged variables. By including time-transformed variables, in the form of a lagged dependent variable (to account for partial adjustment of behavior)¹⁰⁵ or “the use of the natural log transformation [to capture] different forms (or “shapes”) of the baseline hazard,”¹⁰⁶ Models 1 and 2 are especially well-equipped to account for possible time dependency. Model 3 shows the estimated coefficients of a generalized estimating equation (GEE). Generalized estimating equations were introduced by Liang and Zeger

¹⁰²‘Failure’ in this case means ‘implementing’ the income tax law.

¹⁰³All tables were produced using the `texreg` package (Leifeld [2013]). All Cox models were computed using the `survival` R package (Therneau [2015]). The GEE logistic regression was computed using the `geepack` package (Hojsgaard et al. [2016]). This paper was written in L^AT_EX using the dynamic report R package `knitr` (Xie [2016]), for fully replicable research. The simulations were performed using the `simPH` R package (Gandrud [2015]).

¹⁰⁴I do not combine both variables nor do I construct an index. Since I am interested in the *contribution* of each individual sector in the acceleration of the implementation of the income tax law (keeping constant the other), keeping both variables separately is a better strategy. See Figure 4.

¹⁰⁵Wawro [2002].

¹⁰⁶Box-Steffensmeier and Jones [2004, 75].

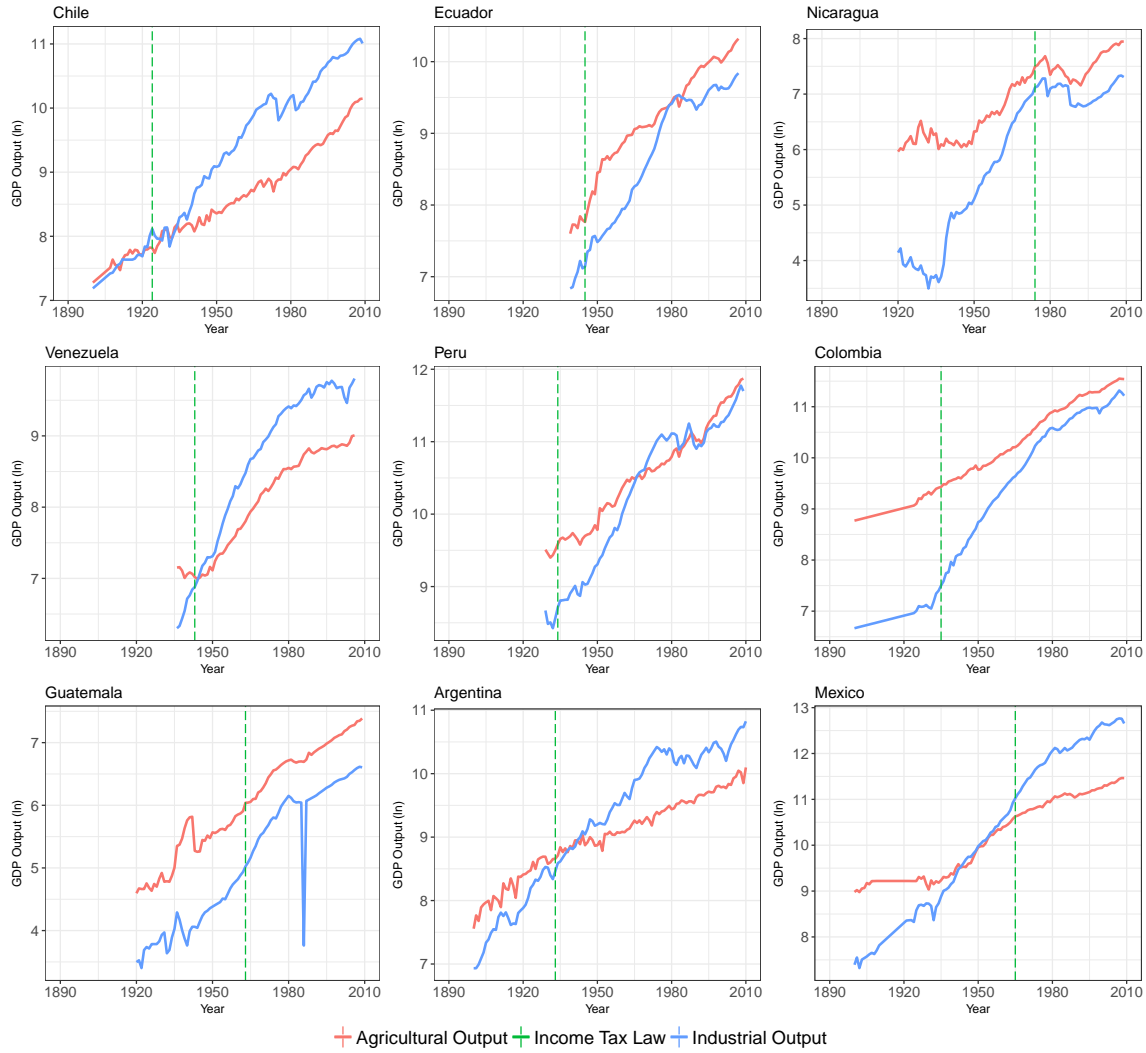


Figure 2: *Industrial and Agricultural Outputs, and The Passage of the Income Tax Law*

[1986] to fit clustered, repeated/correlated and panel data.¹⁰⁷ This method is especially well suited to binary data.¹⁰⁸ GEE methods require analysts to parameterize the working correlation matrix. Though [Hedeker and Gibbons \[2006, 139\]](#) explain that “the GEE is robust to misspecification of the correlation structure,”¹⁰⁹ [Zorn \[2006, 338\]](#) explains that whereas the choice of estimator makes little or no difference, the unit on which the data are grouped makes a big difference. Hence, following the advice of [Hardin and Hilbe \[2013, 166\]](#), who point out that when “the observations are clustered (not collected over time) [...] the exchangeable correlation structure” should be used, I

¹⁰⁷[Zorn \[2006, 322\]](#).

¹⁰⁸[Hanley et al. \[2003\]](#).

¹⁰⁹[Carlin et al. \[2001, 402\]](#) argue that “[r]elatively minor differences in estimates may arise depending on how the estimating equations are weighted, in particular within the generalized estimating equation (GEE) framework.” [Westgate and Burchett \[2016\]](#) and [Gardiner et al. \[2009, 227\]](#) make the same point.

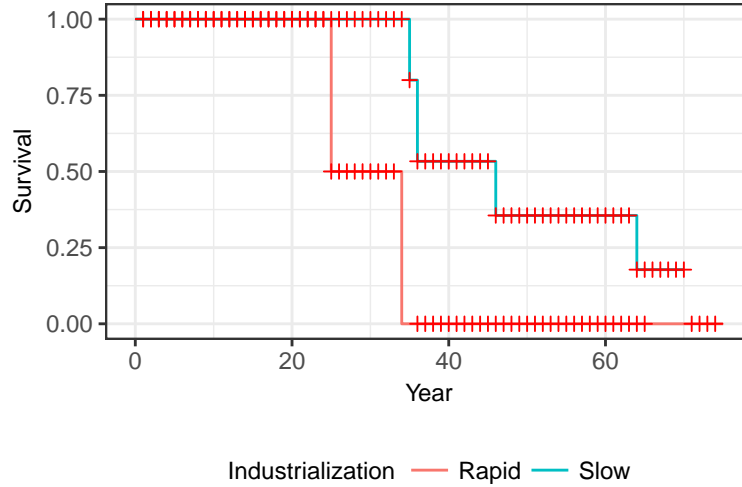


Figure 3: *Kaplan-Meier Curves: Size of the Industrial Sector and the Accelerated Rate of the Imposition of Income Tax Law*

assume an “independence” working covariance structure, which also corrects for small-sized panel designs.¹¹⁰ From a substantive standpoint, GEE models provide an estimated marginal mean, or the *weighted average* of all cluster-specific effects (or conditional means). Model 4 is a conditional logit (or “fixed effects” model). One important advantage of this strategy is the ability to account for country-specific effects. For example, fiscal development could be a function of country-specific prior state-building capacities.¹¹¹ A number of scholars rightly argue that post-colonial state capacities are in part a function of pre-colonial state-capacities.¹¹² Fixed-effects should be able to account for this and other unobserved or hard-to-measure covariates, which if left unaccounted for, would introduce omitted variable biases.¹¹³ Model 5 accounts for possible spatial-temporal dependence.¹¹⁴ Given that most of the countries I am modeling are contiguous neighbors, it is reasonable to expect a “domino” effect. Theoretically, being the first country in implementing the income tax might not require the same level of domestic effort than being the last one. Early-implementers might not have prior experience, being harder for them to pass the law. To account for this possible spatial-temporal dependence, a cumulative count of countries which have implemented the law at time t was included.¹¹⁵

¹¹⁰Hardin and Hilbe [2013, 166] explains that if “the number of panels is small, then the independence model may be the best; but [analysts should] calculate the sandwich estimate of variance for use with hypothesis tests and interpretation of coefficient,” which is what I report in Table 2.

¹¹¹I thank Matthias vom Hau for this suggestion.

¹¹²Wimmer [2015, 10], Mahoney [2010] and Lange et al. [2006, 1426].

¹¹³Angrist and Pischke [2008].

¹¹⁴I thank both Christopher Zorn and David Darmofal for this suggestion.

¹¹⁵I clustered the standard errors at the counting variable level. Clustering by the counting variable allows me to cluster by early or late implementers.

	(1) Cox (1 lag)	(2) Cox (1 lag, ln)	(3) Logit GEE	(4) Conditional Logit (FE)	(5) Spatial Dependence
Manufacture Output _{t-1}	1.451*				
	(0.569)				
Agricultural Output _{t-1}	-0.859				
	(0.740)				
Total Population	-0.000***				
	(0.000)				
Manufacture Output _{t-1} (ln)		1.279*			
		(0.710)			
Agricultural Output _{t-1} (ln)		-0.819			
		(0.788)			
Total Population (ln)		-0.844	0.065	1.012*	-0.842
		(0.531)	(1.219)	(0.405)	(0.830)
Manufacture Output (ln)			1.543***	0.970***	1.277
			(0.333)	(0.161)	(1.036)
Agricultural Output (ln)			-1.107**	-1.185***	-0.818
			(0.369)	(0.292)	(1.071)
AIC	22.788	25.093		4135.812	25.091
R ²	0.021	0.013		0.392	0.013
Max. R ²	0.078	0.080		0.995	0.078
Num. events	9	9		570	9
Num. obs.	281	272	842	842	281
Missings	0	0		0	0
PH test	0.937	0.722			
Num. clust.			9		0.217

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, *cdot* $p < 0.1$. Robust standard errors in all models

Table 2: Sectoral Origins of Income Taxation: Income Tax Law and Industrial Development

All in all, the models suggest that the rise of a strong industrial sector largely accelerated the implementation of the income tax law. Moreover, a strong agricultural sector not only has zero impact on fiscal development, but a negative one (models 1, 3 and 4). Both pooled results in model 3 and model 4 give the same results. I do not find that there was spatial-temporal dependence (model 5).

Using the estimations from Model 1 in Table 2, I follow Gandrud [2015] and King et al. [2000], and in Figure 4 simulate 1000 times the Hazard Rate of implementing the income tax law conditional on industrial and agricultural growth rates.¹¹⁶ While the outcome of interest does *not* depend *directly* on time,¹¹⁷ sectoral outputs do grow in time.¹¹⁸ Consequently, it will be necessary to account for this tendency by allowing estimations to vary with time as well.¹¹⁹ Since the Hazard Rate “is the probability that a case will fail at time t ,”¹²⁰ I take advantage of this quantity of interest which allows some dependency on both time *and* the covariates.¹²¹ Figure 4 strongly suggest that the faster the agricultural sector develops, the less likely the implementation of the income tax. This relationship does *not* change at later stages of development, suggesting that polities with a strong agricultural elite are not associated with fiscal development. However, rapid industrial development is associated with the acceleration of the implementation of the income tax law. The stronger the industrial sector, the faster the tax is implemented.

These results suggest that given the initial advantage of the landed elites, the secular emergence of the industrial sector also meant the reduction of inter-sectoral inequality, generating political, economic and military threats to the landed elites, which materialized into sectoral agreements, particularly, the implementation of the income tax law. From a substantive point, *when* countries implement their income taxes is an important factor for state development. Particularly, *early* implementation of the income tax situated the conflicts and eventual sectoral agreements about the tax during the formative national periods. In contrast, *late* implementers adopted this state-making institution due to exogenous factors that did not necessarily responded to the sectoral economic cleavage. Finally, analyzing the sectoral *contribution* on fiscal expansion suggested to be a fruitful exercise. These results suggest that only industrial expansion *accelerates* the implementation of the income tax. Critically, agricultural expansion *delays* it.

¹¹⁶Box-Steffensmeier and Jones [2004, 15] explain that the Hazard Rate is the most common quantity of interest analysts focus on. Figure 4 shows 90% confidence intervals.

¹¹⁷Please refer to Figure 3.

¹¹⁸Please refer to Figure 2.

¹¹⁹The economics literature refers to these kinds of time series ‘integrated’ or I(1) processes.

¹²⁰Licht [2011, 231].

¹²¹Box-Steffensmeier and Jones [2004, 15].

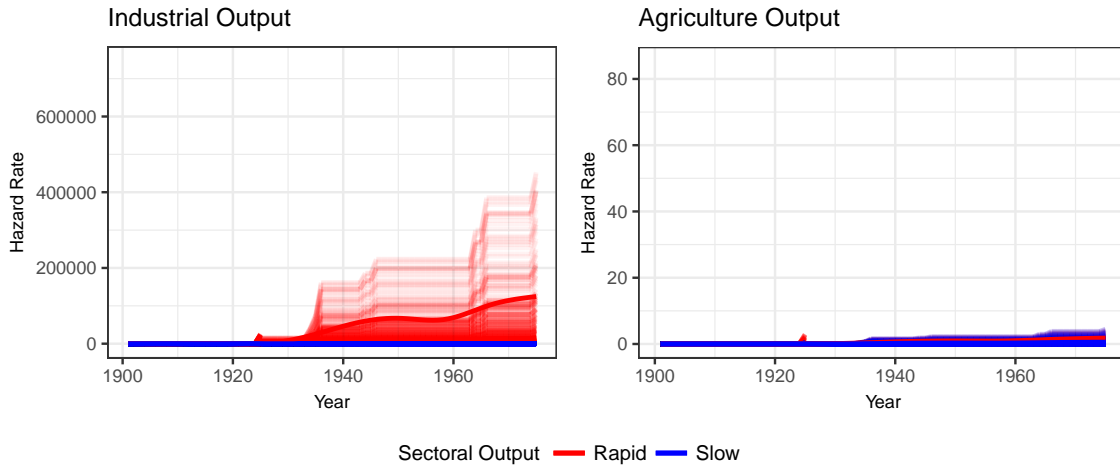


Figure 4: *Hazard Rates of Implementing the Income Tax Law*

V. DISCUSSION: SLOW INDUSTRIAL GROWTH AND LACK OF CONTESTATION

Historically, agriculturalists were a hegemonic group protected by practices inherited from institutions originated in colonial times. These norms survived due to institutional inertia, perpetuating their advantaged position. However, the emergence of a strong industrial elite altered the inter-sectoral balance of political power, making unsustainable the political monopoly run by the landed elites. Given the initial advantage of the landed elites, the emergence of the industrial sector reduced the levels of inter-sectoral inequality, in turn generating political, economic and military threats to agricultural incumbents. Moreover, low inequality also increased the opportunity costs of conflict, putting pressures for inter-elite compromises.

The data analyses suggested that faster industrial growth accelerated the hazard of implementing the income tax. I interpreted the Chilean case through the lenses of the fiscal sociology paradigm, and leveraging historical evidence I find that industrial elites accepted to be income taxed by agriculturalist incumbents in exchange of having a more open political system and industrial tariffs. Importantly, all these elite compromises took place during the formative years of the Chilean state and during a period of structural indetermination, where no elite had a clear economic/military/political advantage, fostering the incorporation of all major economic elites into the national project. When the income tax was implemented under politically contested circumstances, this institution expanded the overall state capacities by crystallizing a series of reforms that replaced the old institutional order inherited since colonial times. Given the initial advantage of the landed elites, the emergence of a strong industrial sector increased levels of sectoral contestation. Countries with low levels of state-capacities did eventually implement the tax. However, later implementation had to do more with exogenous forces, leaving unaltered the backwards institutional order inherited since colonial

times.

Both the argument and the findings are situated within the broader literature on political and economic development, particularly within the fiscal sociology paradigm, emphasizing how fiscal development was important for state-making. Concretely, this paradigm proportionates a theory of state-building as it links the mechanics between the state effort of taxing incomes and the expansion of other state services. Future research should explore more avenues of fiscal expansion, emphasizing domestic channels of political development, particularly considering different types of bargaining dynamics between the agricultural and industrial elites in the continent. To the best of my knowledge, [Beramendi et al. \[2016\]](#) and this paper are among the few of such accounts.¹²²

¹²²In p. 19, they argue that their ‘paper is among the first to systematically establish that fiscal development may take place even in the absence of interstate military competition and warfare.’

..... **Word count:** 11,109

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