This Policy Brief was prepared by The South American Network on Applied Economic/Red Sur and presents the main policy recommendations emerging from the baseline study for Peru, by Instituto de Estudios Peruanos (IEP), in collaboration with the Comisión Nacional Permanente de Lucha Antitabáquica (COLAT), within the UIC-Red Sur project "Tobacco Taxes in Latin America," as part of the global project coordinated by the Institute for Health Research and Policy of the University of Illinois at Chicago (UIC) and supported by the Bloomberg Initiative to Reduce Tobacco Use.
INTRODUCTION

Peru participated actively in the process of developing and negotiating the WHO Framework Convention on Tobacco Control (FCTC), adopting it in 2003 and approving it in 2004. Since then, the country has undergone a number of tobacco-related tax changes in order to conform to the FCTC. During this continuous process of adapting to promote public health, Peru has made significant progress in terms of taxes on tobacco products.

The main objective of this research is to identify a tax strategy for reducing the high social and economic costs related to smoking in Peru, in keeping with the recommendations of the World Health Organization (WHO). The study used information on the amounts of tobacco consumed (apparent consumption) that are econometrically related to prices, the income of the population and a set of variables that help to capture the effect of non-tax policies (such as the implementation of the FCTC agreement). With this information, and taking account of the industry’s recent behaviour after the changes in taxes, tax policy scenarios were simulated that could help progressively reach the level of tax burden required to achieve the WHO objectives.

TOBACCO USE IN PERU

According to the Pan American Health Organization (PAHO, 2018), the prevalence rate among young people by sex in Peru is 10.9% for men and 8.4% for women, with a ratio of 1.3 male smokers per female smoker. At the global level, this ratio is as much as 5.8 men per every woman. Peru follows the pattern usually observed worldwide, characterized by the number of smokers concentrated in the poor sectors with lower educational levels. 61% of health spending uses public funds from direct public provision or contributory social insurance schemes, so tobacco consumption has a significant impact on the economy at the fiscal level. The cost attributable to smoking in Peru is 0.4% of GDP.

TOBACCO TAXATION STRUCTURE IN PERU

In Peru, the cigarette taxation framework is straightforward and consists of three kinds of taxes: General Sales Tax (IGV), the Special Consumption Tax (SCT) and customs duties. Since Peru is an importer of the cigarettes that it consumes (it does not produce or export) and has signed free trade agreements with the exporting countries, customs duties do not apply as a tax policy instrument. Therefore, the simplest and most effective instrument for anti-smoking tax policy is the SCT on cigarettes.

Of the tax structure that affects cigarettes’ imports, which is the only source of tobacco supply in Peru, the SCT is the most powerful tool to impact prices due to its flexibility and simplicity to change them. From the early 1990’s to the present, most of the available tools for the development of cigarette tax policies (COLAT, 2014), and in particular the SCT, have been used. Since January 2010, a consistent tax policy has been developed, with a SCT specific component regardless of the product. With the latest changes, the average tax burden on cigarette consumption is 60% of the...
retail price, with 75% accounted for by the SCT, and 25% by VAT (computed over the Hamilton brand).

Since January 2010, the Finance Ministry has been implementing a tax policy for tobacco control based on the introduction of SCT specific component, regardless of product class. The changes in the Government’s tax policy have led to a significant reduction in apparent cigarette consumption, while reducing smoking-related social and economic costs in Peru. However, it has been observed that while the Government does not increase taxes, the tax burden is gradually decreasing because the industry raises the price of its products every year. However, the increase in the price of cigarettes has been below increases in income, which have been increasing steadily in recent years.

Only after almost six years without any changes in the tobacco tax policy did the Government increase the SCT specific component by 157% (May 2016), which helped to significantly recover the tax burden. This was a turning point in cigarette purchasing power, which was reduced by 38%. Similarly, the changes made in May 2018 helped to further recover the tax burden, which currently stands at 60% (computed over the Hamilton brand), the highest recorded for cigarettes in Peru.

Figure 1: Evolution of the tax burden

Source: Own elaboration with the Retail Price (PVP) based on Euromonitor; the SCT based on public information and the Tax Charge as an estimate of PVP.
RESEARCH FINDINGS

This study suggests that the effect of non-tax policies reduce the demand for tobacco products. The study also shows it is possible to estimate the effect of price increases on cigarette consumption. The estimations are in line with COLAT (2014) findings regarding the relative inelasticity of the demand for tobacco, so this study confirms tax policy instruments could be used effectively to reduce its consumption and increase revenue collection. In fact, after the latest tax increases, there has been a significant reduction in cigarette consumption.

For a more in-depth analysis of the impacts of tax increases after the 157% SCT increase in May 2016, a longer-term time series showing trends in both time series is required.

Estimated income elasticity is not statistically significant and it is estimated that the evolution of the exchange rate is proportional to inflation, so the only thing that will determine apparent consumption over time is price changes.
SCT were simulated for the period 2019-2030, taking account of three possible tobacco industry response scenarios (full transfer of the tax to consumers, 15% overshifting and adjusting prices in such a way that gross income remains unchanged).

The outcomes of the simulation for 2030 show that a conservative strategy of steady tax increases (5% per year) with a target excise tax burden and an industry reacting as it has been reacting over the past few years – that is, increasing prices by 15% more than the tax increase (overshifting) – would manage to exceed the tax burden objectives. In addition, regardless of the value of the elasticities – ranging between -0.241 and -0.5544 in the simulation – high reduction in consumption and significant increases in tax revenue are observed.

A more aggressive tax increase strategy (increasing SCT by 10% annually), under the most common strategy followed by tobacco companies in recent years (15% overshifting), would lead to an 82.3% tax burden and reduce affordability by 36.2%. It would also result in a 26.6% reduction in consumption on average. The reduction in consumption would be offset by a 110.7% increase in retail prices, which would increase revenues by 110.1%. Similarly, a sustainable policy of 10% annual increases in the SCT in Peru will reduce tobacco-related mortality and morbidity, and reduce healthcare costs.

**POLICY RECOMMENDATIONS**

This study recommends reaching the 70% excise tax burden suggested by the WHO by 2030 as a tax policy objective. This would consolidate the advances in reducing consumption and the high social and economic costs related to smoking in Peru, in keeping with the literature which points to tax policy as the most cost-effective way to reduce consumption (World Bank, 1999, WHO, 2010).

It is also evident that there needs be a clear government update programme to keep up with inflation and income increases in the economy in order to prevent the loss of tax burden due to a failure to modify the tax, mainly due to the tobacco industry’s policy of regular price increases. This aspect limits the long-term effectiveness of recent tax policies and jeopardizes the objective of increasing the excise tax to 70% of the retail price.

The simulation results obtained indicate that the tax burden as of 2030 would be between 67.10% and 74.80%, achieving a drop in apparent consumption of between -7.2% and -22.30%, and an increase in revenue of between 34.80% and 56.30%. In this regard, the increase in taxes should be approximately two percentage points above average inflation in the last decade (3%) to reach an excise tax burden that will account for an estimated 70% of the retail price by 2030. In order to achieve this goal, it is proposed that the law should be amended in order to update the SCT on tobacco to 5% annually. This will make it possible to achieve significant reductions in apparent consumption and major increases in tax revenue.

While by their nature tobacco companies will oppose the tax policy, because the increases would be periodic and at a lower percentage than those introduced in 2016 and 2018, there will be fewer arguments to claim that there will be profound changes in demand (for instance, because of increased consumption of illegal cigarettes). In addition, because of the price increases, the sales amounts would increases significantly in real terms, so arguments of an economic nature could not be put forward.

In short, a tax increase that will contribute to reducing consumption is a cost-effective strategy that can be repeated over time and constitutes a true long-term (and sustainable) policy measure for tobacco control in Peru, if properly designed.

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6> An overshifting policy involves transferring to the prices a higher increase than the effect of changes in costs. Consequently, a 15% overshift involves increasing prices 15% more than they would have increased by transferring only the increase in costs due to the tax increase.
REFERENCES


This Policy Brief is based on the Country Study “Accelerating Effective Tobacco Taxes in Peru: Towards Sustainable Policies,” developed as part of the project “Tobacco taxes in Latin America.”

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March, 2019

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CONTRIBUTIONS AND ACKNOWLEDGMENTS

The publication of this Policy Brief was made possible through the support of the Institute for Health Research and Policy of the University of Illinois, Chicago (UIC IHRP). UIC is a partner in the Bloomberg Philanthropies’ Initiative to Reduce Tobacco Use, which studies fiscal policy alternatives as an effective tool to reduce the levels of tobacco consumption and improve health. It does so through a web-based platform called “Tobacconomics” (see more information on https://tobacconomics.org).

Within this global initiative, Red Sur led the regional research “Tobacco taxes in Latin America”, which mobilized seven research centers to study the different options for tobacco tax policies in Argentina, Brazil, Ecuador, Mexico and Peru.

The Project “Tobacco taxes in Latin America” was under the Executive Direction of Andrés López (IIIEP-BAIRES/FCE UBA, Argentina/Red Sur) and the Coordination of Cecilia Alemany (Red Sur). The Academic Coordination was under the responsibility of a Regional Technical Coordination team, led by Fernando Lorenzo (Centro de Investigaciones Económicas, CINVE/Red Sur) and Oscar Cetrángolo (Instituto Interdisciplinario de Economía Políticas de Buenos Aires, IIIEP-UBA-CONICET/Red Sur), with the collaboration of Pedro Velasco (UNLP, IIIEP-UBA-CONICET/Red Sur) and Carlos Grau (CINVE/Red Sur). The team acknowledges and thanks the comments of Germán Rodríguez-Iglesias (UIC IHRP). The dimensions of analysis were discussed during two research workshops held in Montevideo in 2018, which brought together all national teams, the regional team and the Global Technical Coordination team of Tobacconomics Frank J. Chaloupka, Germán Rodríguez-Iglesias and Erika Siu (UIC IHRP).

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