



Tobacco Endgame and Effective Tobacco Tax Policy

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Key Messages



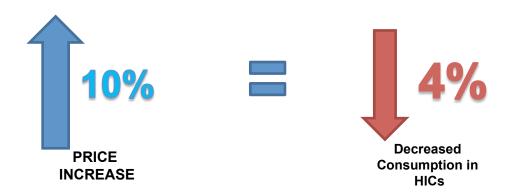
- Higher taxes improve public health.
- Higher taxes improve public health even if some smokers consume illegal cigarettes.
- Because tobacco taxes are not exhaustible, they can be the primary policy of the End Game.
- Tobacco tax revenue is important, but not vital for the economy.
- As the endgame countries gain economic benefits from healthier populations, Govt' revenue sources will rise (while some expenditures will be reduced.)
- Hong Kong has several options how to "play" the End Game.



Raising Tobacco Taxes: Win for Public Health



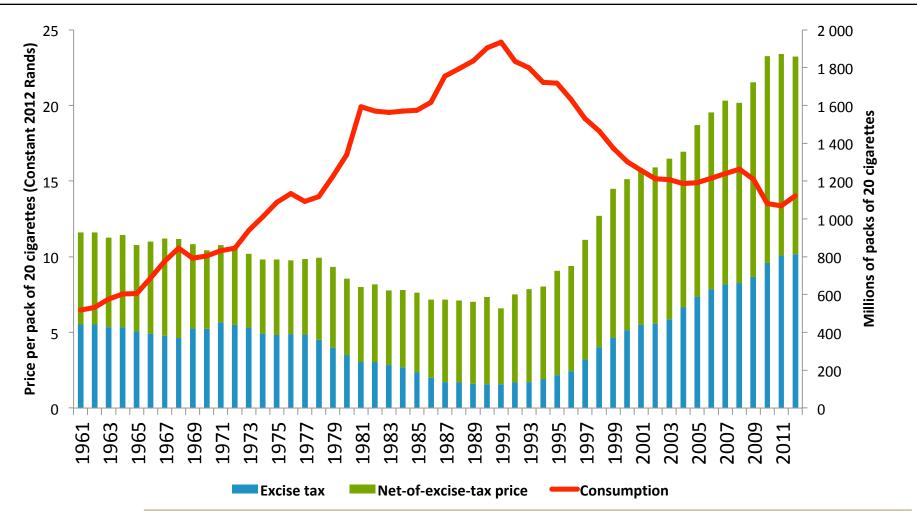
- Significantly increasing the excise tax and price of tobacco products is the single most consistently effective tool for reducing tobacco use.
- In HICs, (or territories like Hong Kong) estimates of price elasticity of demand range from -0.2 to -0.6, clustering around -0.4. Price elasticity in Hong Kong is -0.3





Tax Hikes in South Africa: Win for Public Health

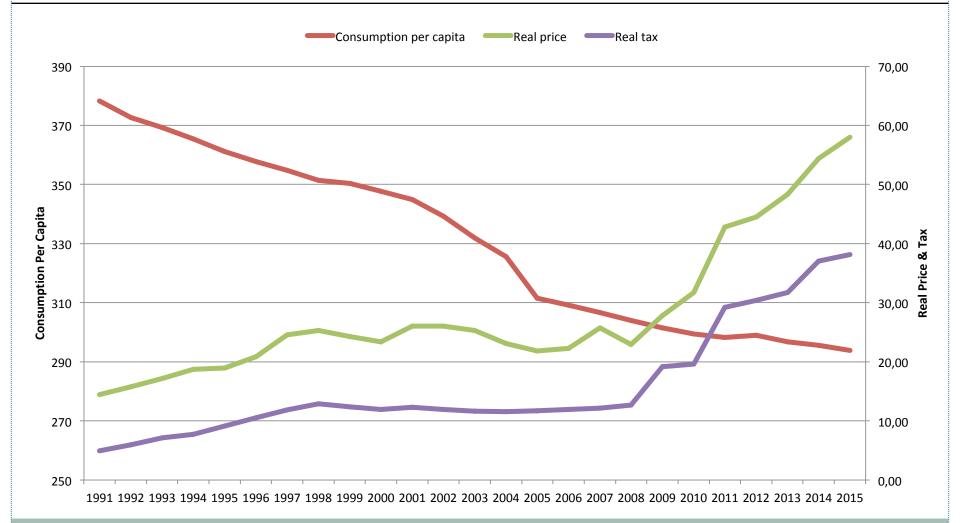






Hong Kong: Taxes Reduce Consumption



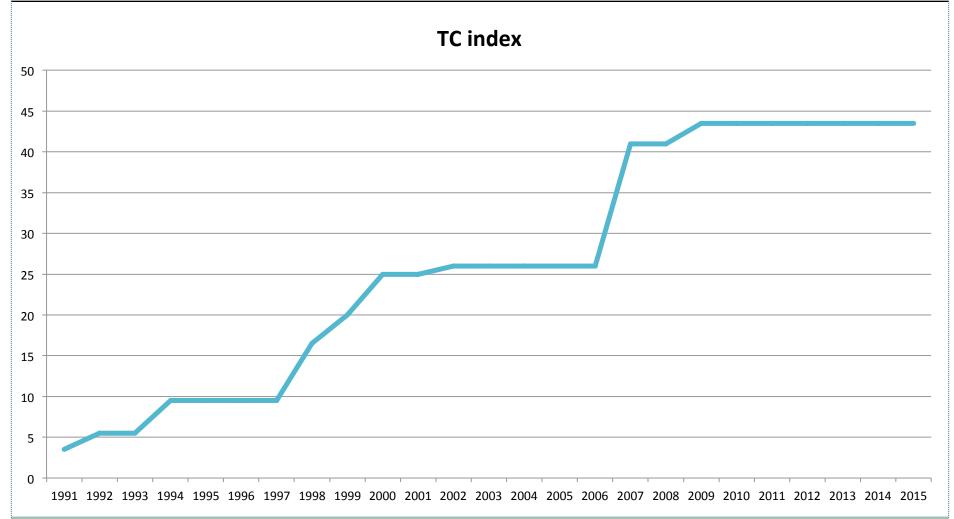


Source: Author's calculation based on Custom and Excise department, Hong Kong



Hong Kong: Tax Did Not Do it Alone





Source:, Jing Chen, HKU, 2017



Cigarette Price & Youth Smoking Prevalence in Chile, 2000 - 2015





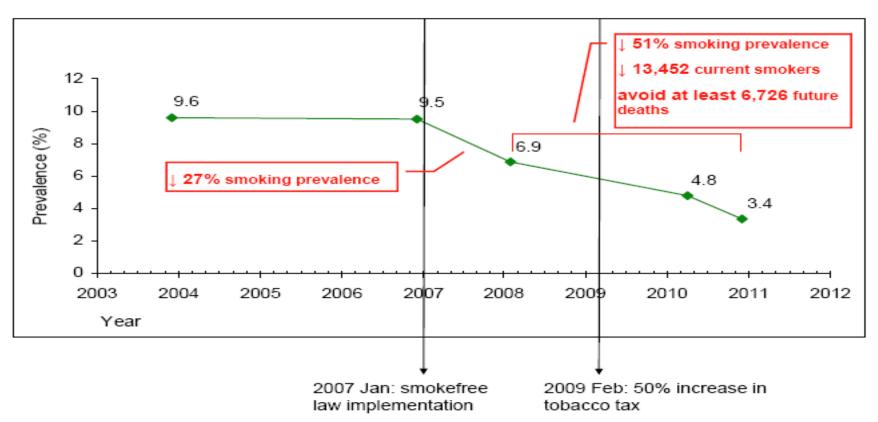
Source: Paraje, 2017, Adapted from Chaloupka, 2017



Higher Taxes Prevent Potential Users From Initiation: Hong Kong



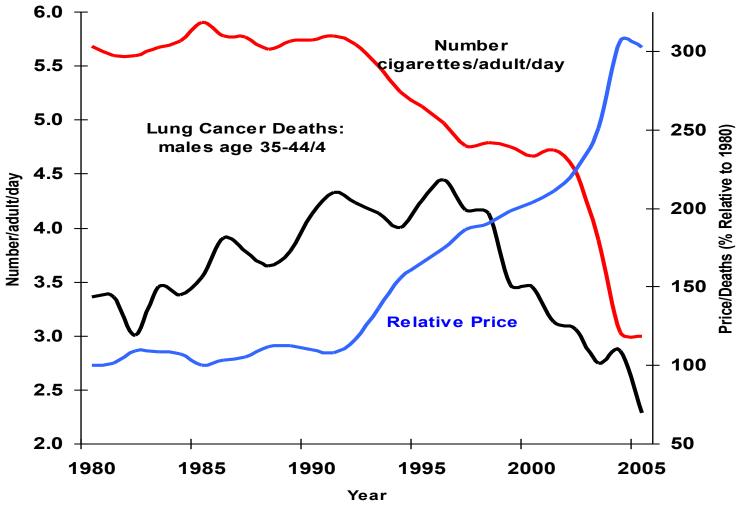
Prevalence of current smoking among S1-S5 students





France: Smoking, Tax and Male Lung Cancer, 1980-2000



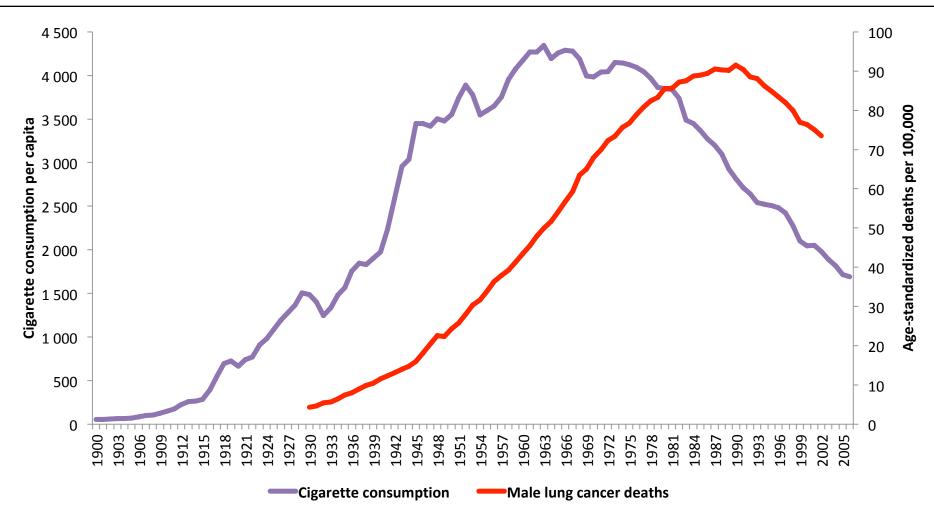




Cigarette consumption and lung cancer in the United States:

Declining consumption means declining lung cancer deaths







Higher prices = lower infant mortality



- EU study: An increase of €1 (US \$1.18) per pack in the median cigarette price is associated with a significant decline in infant mortality both the same year and the following year
- Cigarette price increases across 23 European countries between 2004 and 2014 were associated with 9208 fewer infant deaths.



Increasing Tobacco Tax



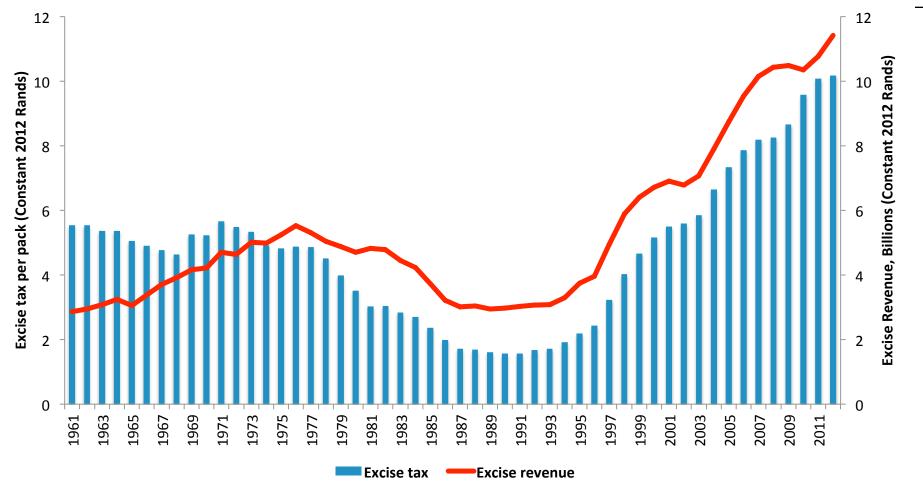
A "WIN-WIN" FOR HEALTH AND THE ECONOMY

Higher taxes on tobacco products reduce tobacco consumption and improve public health, while also increasing government revenues that can be used to fund priority investments and programs that benefit the entire population.



Tax Hikes in South Africa: Win for Public Health, and Win for Revenues



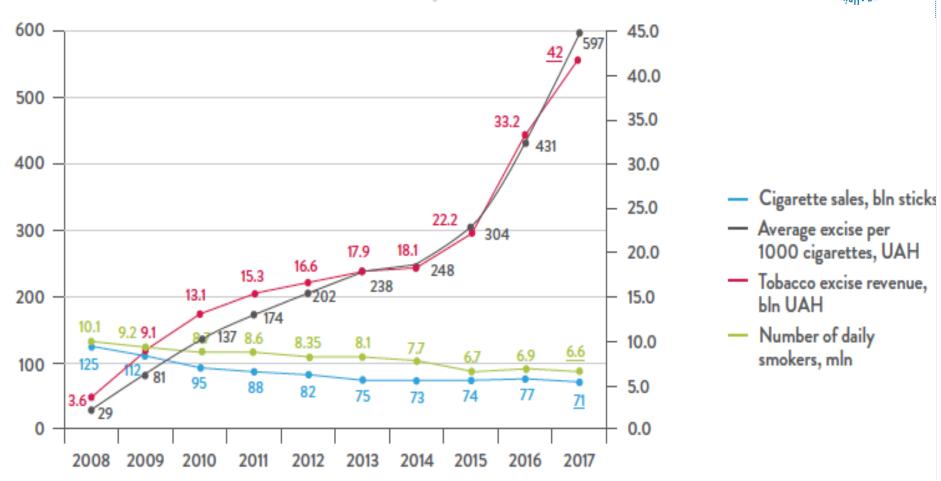


Illicit cigarettes represent 23% (GFA Consulting Group, 2012) up to 28% of the market (EM, 2017).



Tobacco Excise Tax Policy in Ukraine, 2008 - 2017



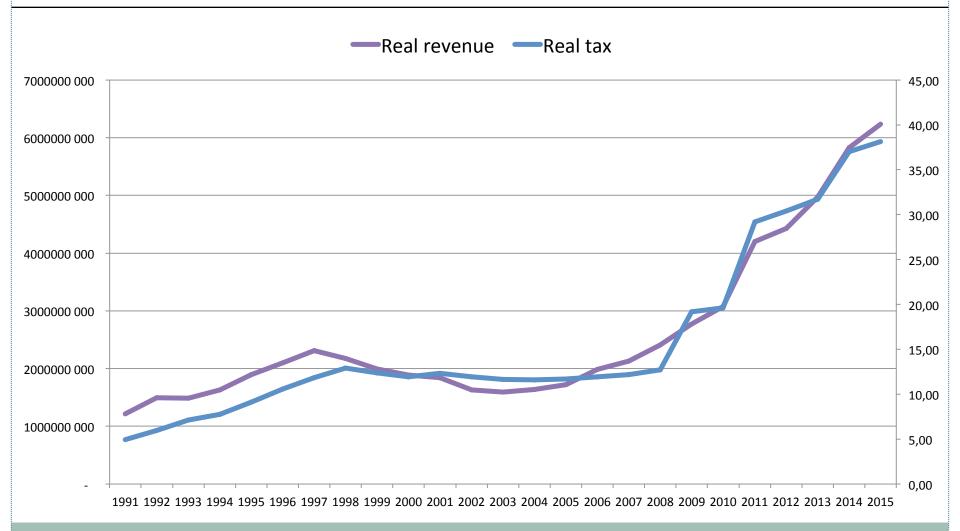


Tax rate increased 10-times; revenue 6-times; sales dropped 40%; prevalence went down 28%. Tobacco tax = 1.7% of GDP in 2017, up from 1.5% GDP in 2016. By 2035, 125,000 new cases of tob. related diseases, 30,000 prem. deaths, 260,000 YLL prevented



Higher Tax Rate, Higher Tax Revenue In Hong Kong



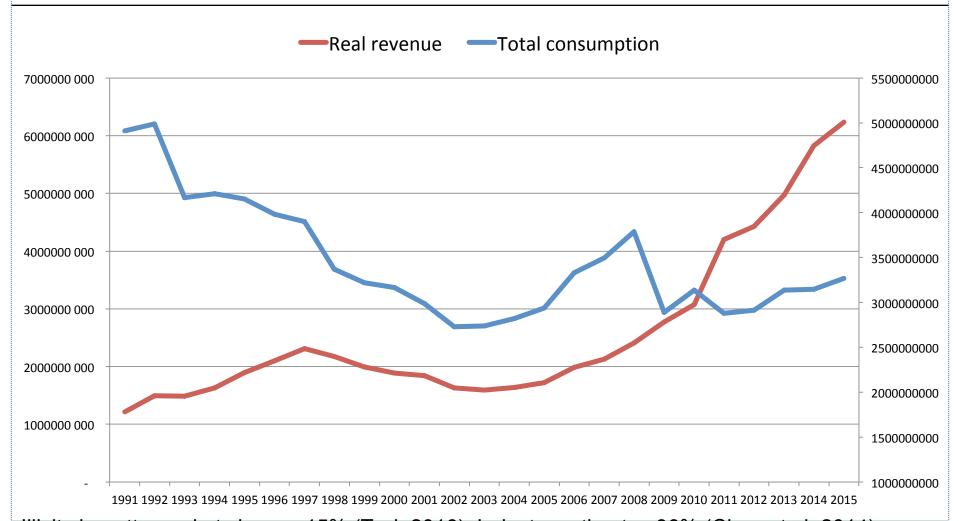


Source: Author's calculation based on Customs and Excise Department, Hong Kong



Tax Revenue in Hong Kong Increased Despite Lower Consumption



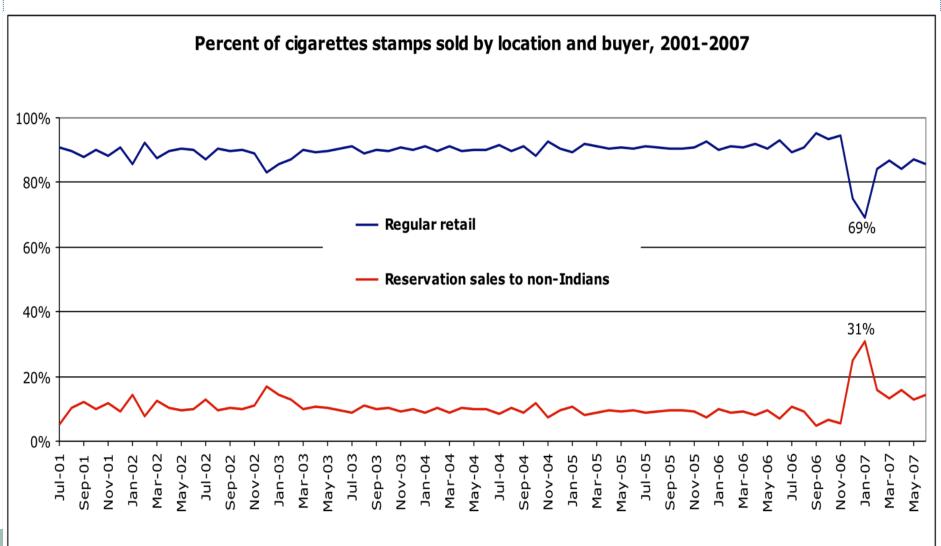


Illicit cigarette market share = 15% (Tsui, 2016); Industry estimates 36% (Chen et al, 2014) Source: Author's calculation based on Customs and Excise department, Hong Kong



Arizona - Tax Evasion (1)

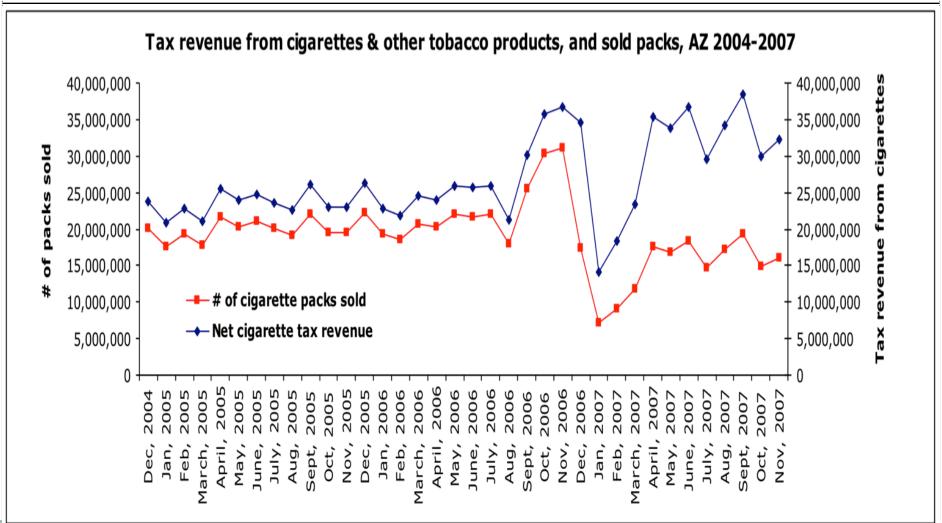






Arizona – Tax Evasion (2)

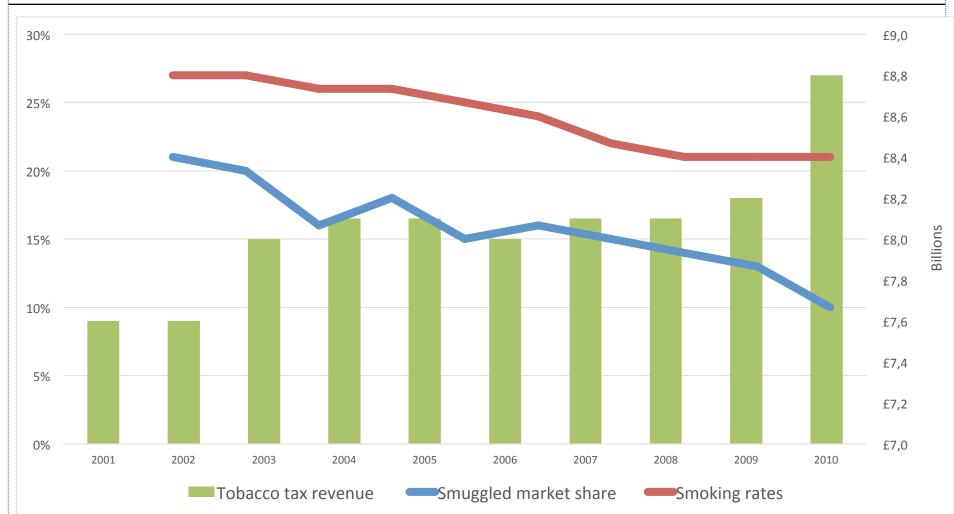






Impact of Tax Increases: UK



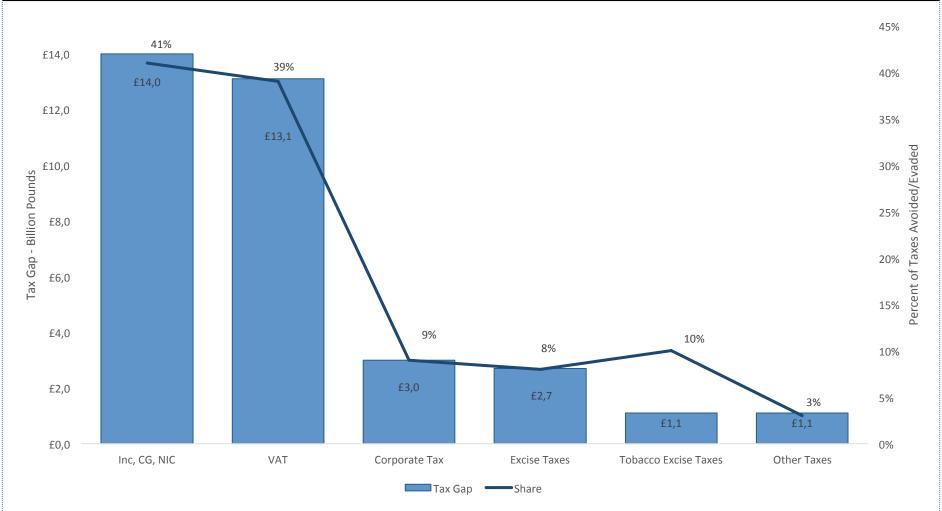


Source: HM Customs & Revenue. ASH.



Tax Gap Estimates, UK, 2013-14







End Game: New Zealand



- First country to adopt a government-endorsed 'endgame' goal—achieving a prevalence of <5% by 2025.
- Tax policy is the main tool of the endgame it is not an exhaustible policy.
- Annual tobacco tax increase of 10% above inflation until 2020 not high enough to achieve the endgame goal.
- Tobacco tax revenue is projected to increase from NZ \$1.3 billion in 2011 to NZ\$3.7 billion by 2025.
- Price of a pack as of Jan 2017 NZ\$20 (HK\$ 110)
- A range of tobacco endgame strategies is needed to achieve <5% prevalence for all social groups.
- A model showed that rapid increases in illicit trade may initially counter the
 effects of higher taxes, but the reductions in smoking prevalence will far
 outweigh any short-term effects of increases in illicit trade, if taxes are
 regularly increased.

Note: if people do not smoke, illicit cigarette trade is eliminated Cobiac et al., 2015.



End Game Countries Recognize That..



- Tobacco tax revenue is important, but not vital for the economy.
- The economic benefits from a healthier population will outweigh any tobacco revenue loss.
- Government is not dependent on tobacco taxes for its revenue (0.55% of GDP in New Zealand in 2011; similar in HK); alternative revenue sources exist and will be utilized.







How to Play the End Game



Article 6: International Best Practice - UK



- Excise tax: high specific element, low ad valorem
- Maintain high tax rates to support health policy and reduce affordability: in 2006 the price of cigarettes relative to GDP per capita was greater than in all other high income countries, except for New Zealand.
- Average price in 07/16 = €10.5 (about HK\$ 97); excise tax = €7.06 (67%)
- Regular tax increase (an escalator of 2% above inflation).
- Since 2007 the UK has scored highest for tobacco control policy implementation in Europe.

Years	Tobacco excise increase
1993 – 1997	3% above inflation (RPI)
1998 - 2000	5% above inflation
2001 – 2008 *	In line with inflation
2009	2% increase [NB at a time of
	deflationary RPI forecast of -3%]
2010	1% above inflation, with a commitment
	to minimum 2% above inflation
	increases for next four years
2011	2% above inflation [Additional 10%
	increase on hand-rolled tobacco]
2012	5% above inflation
2013 onwards	2% above inflation [with a commitment
	to 2% above RPI for the 2015-2020
2016	Parliament]
	In 2016 tax on handrolled tobacco was
	increased by an additional 3% above
	RPI= 5% above RPI in total



Article 6: International Best Practice - Australia



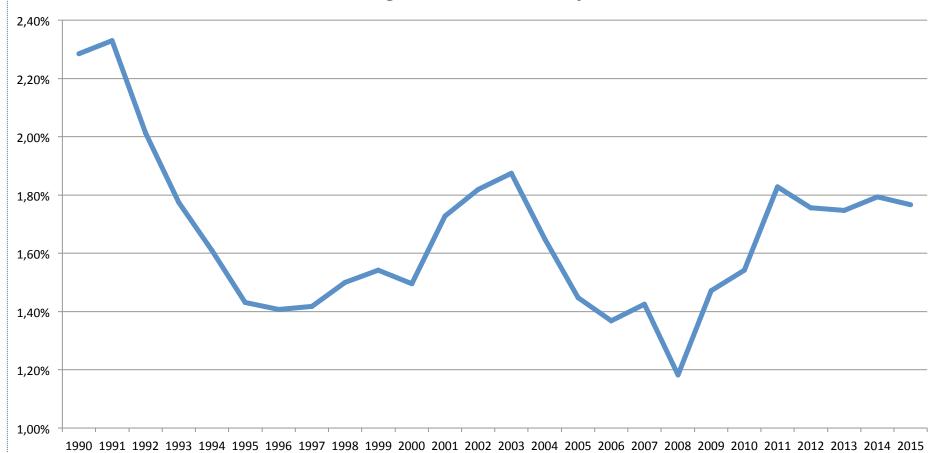
- Specific tax only.
- Indexes tobacco tax increases to inflation twice a year.
- In 2010 it increased tobacco excise taxes by 25%; revenues increased by 13%.
- Price/tax in 2015: AU\$ 16.2/9.4 (HK\$ 98/57); excise = 58% of retail price.
- 2017 2020: annual tax increases of 12.5%
- Allocated AU\$7.7 million a year to combat illicit tobacco activity, provision for stronger penalties, a reduction in duty free allowance to 25 cigarettes per person.
- Mass media campaigns + plain packaging



Cigarettes Affordability in Hong Kong









Possible Hong Kong Tax Strategy



- Inflation is relatively low; 2.4% in 2016, expected 2.8% in 2018.
- GDP growth in 2017: 4.3%
- Given that tax is specific, it need to be increased by 7% a year just to keep the affordability constant.
- Annual tax increase above 7% needed to reduce affordability of cigarettes, and their consumption.



Industry Response to Tax Policy in Hong Kong



Tax in Hong Kong is usually over shifted:

- 2011 tax increased by HK\$10, price increased by HK\$11
- 2014 tax increased by HK\$4, price increased by HK\$5

This is good for public health, less favorable for tax revenue, very favorable for tobacco industry.

It also signals that the market can handle higher prices and that the industry is not worried about illicit cigarette trade.



Tax Avoidance/Evasion: Illicit Trade in Hong Kong



- Euromonitor estimates of illicit market are problematic:
- 2006: 39.1% of legitimate sale (EMI, 2007)
- 2007: 24.6% of legitimate sale (EMI, 2014)
- 2012: 33.1% of <u>legitimate sale</u> (EMI, 2014)
- 2012 EMI comment: a significant rise in smuggling activities due to higher tax.
- No tax change 2006 2007, but 37.1% decrease in illicit market?
- Tax more than doubled 2006 2012, but 15% decrease in illicit market?
- 2012 illicit trade estimate funded by Philip Morris: 35.9% of total market, i.e. 21.5%% higher than 2012 EMI estimates published in 2017.
- COSH estimate: 8.2 15.4% of the market consists of illicit cigarettes.



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Thank you!

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