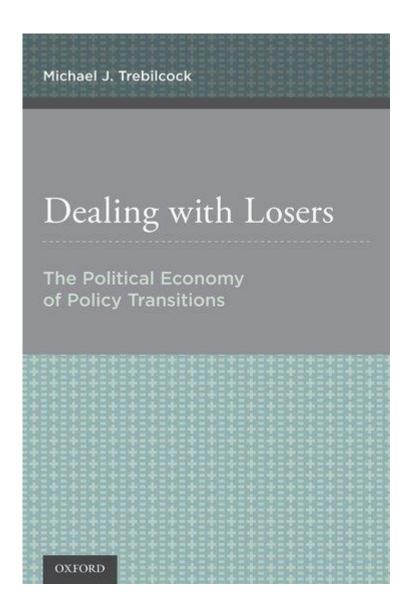


A political economy issue

Adrien Vogt-Schilb Climate Change Economist avogtschilb@iadb.org



Ambitious policy reform requires taking care of the **political economy**



The UK Slavery Abolition Act of 1833 paid 20 million pounds in compensation to plantation owners in British Colonies

about \$21 billion in present day value and almost 40 percent of the British budget at the time

The **impact** of fossil fuel subsidy reform on **consumers** can be problematic

Problem:



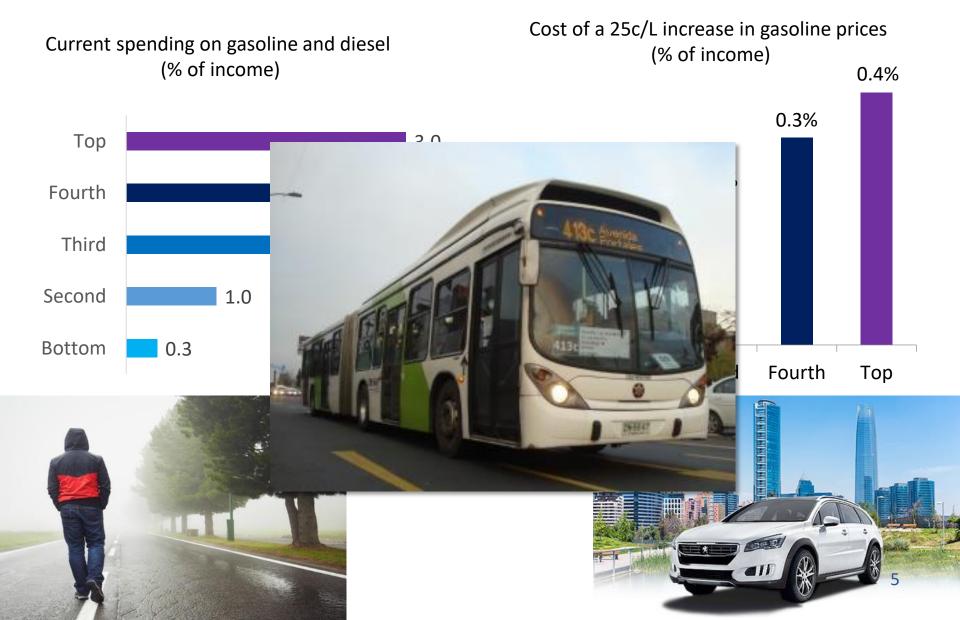
Peoply price of illess that description bikes.

Problem because:

- It is a policy objective to protect **poor and vulnerable households**
- Consumers, especially the middle class, are voters



Chilean example: it may seem at first that gasoline price hikes are progressive...

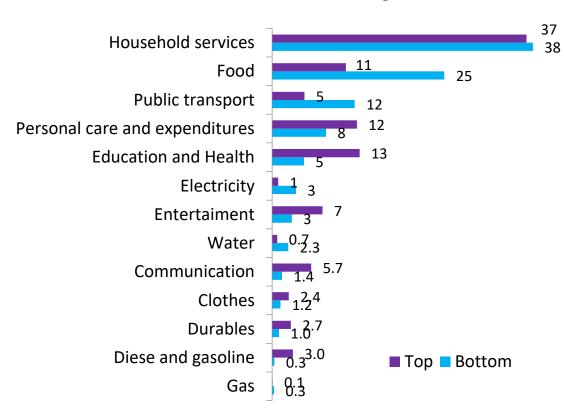


...but gasoline price hikes have an indirect impact on all consumption items...

Price hikes in all goods due to gasoline price increase (% of current price)

	%
Public transport	6.3

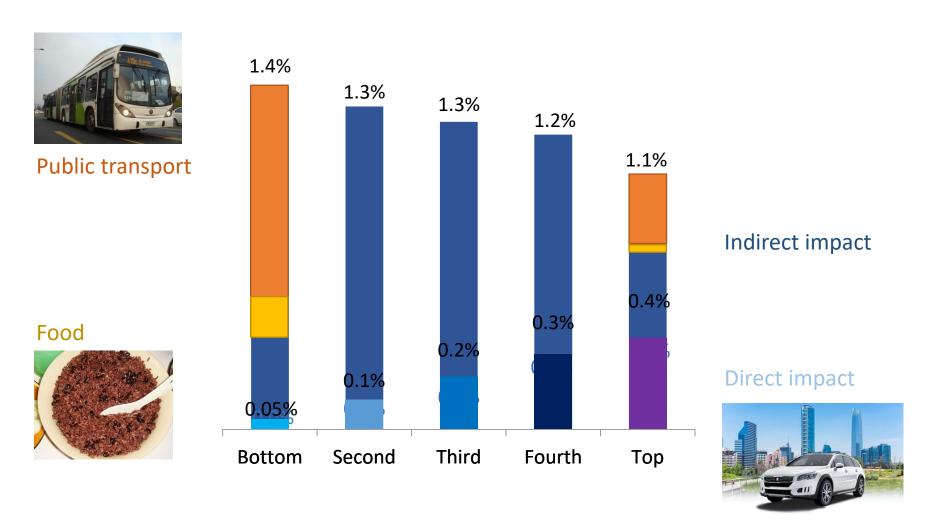
Household budget







...such that the total, direct + indirect, impact of gasoline prices hikes tends to be regressive



Regressive vs progressive may matter less than how to manage the impacts of price hikes on consumers

In cash and in kind transfers have both been used to compensate vulnerable households











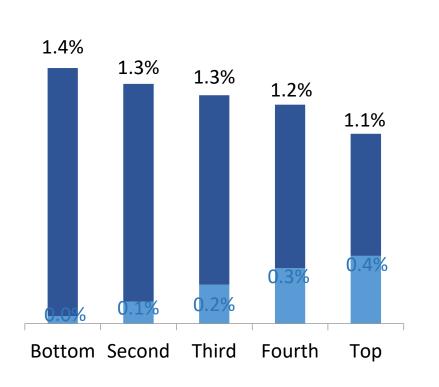


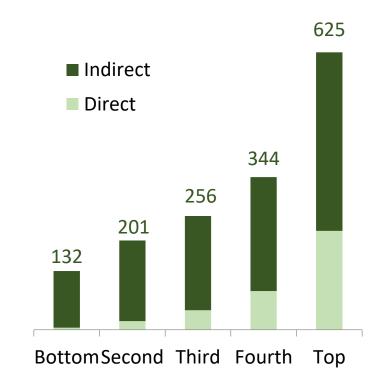
While poor consumers are affected most relative to their income, rich consumers pay the bulk of energy price hikes...

Cost of a 25c/L increase in gasoline prices...

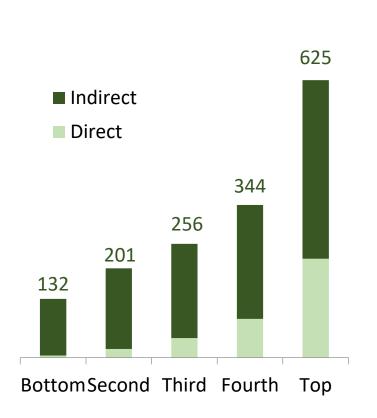
...relative to household's income

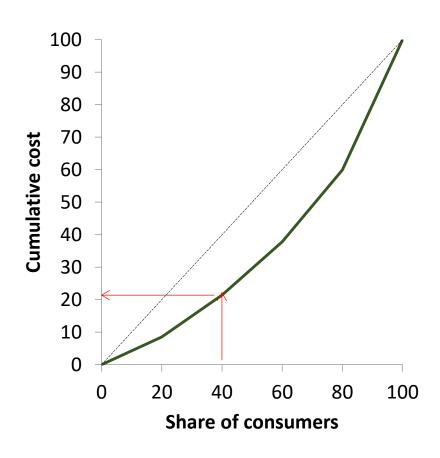
... in asbolute terms (millions of dolars)





...a small fraction of fiscal revenues from subsidy removal is thus sufficient to compensate poor and vulnerable consumers





All countries and fuels are different, but in all cases a modest fraction of fiscal revenues is enough to compensate vulnerable consumers

		Bottom	Second	Third
Argentina	Diesel and gasoline	8.7	21.9	39.7
	Electricity	12.2	27.4	45.3
	Natural Gas and LPG	12.1	27.2	45.8
Bahamas	Diesel and gasoline	10.9	27.0	47.1
	Electricity	12.7	29.6	49.6
Barbados	Diesel and gasoline	5.3	14.1	25.9
	Electricity	8.5	20.5	35.6
Chile	Diesel and gasoline	8.5	21.4	37.8
	Electricity	12.5	27.3	44.3
	Natural Gas and LPG	10.9	27.6	47.4
Costa Rica	Diesel and gasoline	5.6	15.7	30.1
	Electricity	11.9	26.7	44.2
	Natural Gas and LPG	15.4	33.9	53.7
Ecuador	Diesel and gasoline	8.0	20.0	35.0
	Electricity	10.0	24.2	41.2
	Natural Gas and LPG	15.7	33.6	52.2
Guatemala	Diesel and gasoline	5.4	14.7	28.2

The rest of revenues can fund long-term (pro-poor) development goals

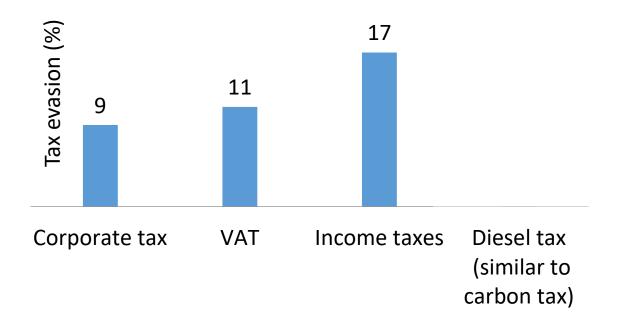








Energy taxes are good fiscal policy



Liu, A. A. 2013. "Tax Evasion and Optimal Environmental Taxes." Journal of Environmental Economics and Management 66: 656–70



Subsidy reform and energy taxes affect more than just consumers





Impacts on workers



One particular issue is stranded assets



Managing stranded assets

- Transform losers into winners
 - Worker retraining
 - Green pilot projects in negatively affected areas
 - Automakers and electric cars
- Avoid stranded assets in the first place
 - Gradual phase down of subsidies and phase in of carbon prices
 - Energy efficiency standards on new cars, buildings and appliances
 - Moratorium on new coal and gas power plants?



Managing distributional impacts of fossil fuel subsidy reform

- Even if the reform is good for the country, some households will be negatively affected by energy price hikes
- Affected households can be compensated using a fraction of fiscal revenues
- Preparation and communication are key

Thank you for your attention





