Cyclical **Tax Enforcement**By Alejandro Esteller-Moré (aesteller@ub.edu) UB & IEB

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Tax Enforcement (I)

- Most **people dislike paying taxes**, although they enjoy public goods (or some of them)....
- The best strategy of rational individuals is behaving as **free-riders**. Thus, it is not a matter of bad or good guys, but of smart guys=rational individuals!... well, maybe you can call them immoral guys, ok (role of *tax morale*).
- Being that the best individual strategy does not mean it is the optimal **collective action** (Nash eq. is suboptimal)... Social welfare can be improved by means of forcing the payment of taxes

Tax Enforcement (II)

- Note, though, matters would be relatively easy if governments were able to tax individuals according to their ability-to-pay: lump-sum taxes
- However, such a characteristic is not observable or verifiable, since individuals do not have the right incentives to reveal it
- That is why, the public sector has to base taxes on proxies of the ability-to-pay: consumption, wealth... and the most important one, income

Tax Enforcement (III)

- The problem of this alternative (to lump-sum taxes) is that taxpayers might react:
 - **Real responses**: e.g., decreasing labor supply or savings
 - Evasion/Avoidance: cheating the tax administration breaking (estimation: real challenge) or not the law

Most of current empirical literature concludes non-real responses are the most important ones (https://equitablegrowth.org/in-conversation-with-emmanuel-saez/)

Tax Enforcement (IV)

- If this is so, maybe governments should focus more on closing tax loopholes (as a source of avoidance) or... increase **tax enforcement** as a way to reduce evasion (and check the legality of avoidance).
- Obviously, there are **limits** as tax enforcement is costly, while some loopholes are needed to adjust the definition of the tax base to tax capacity, but also to promote certain welfareenhancing behaviors

(Open question 1: would it be ok having a tax amnesty "regularly"?)

Tax Enforcement (V)

- We are going to take as granted the tax administration (so, no longer the public sector or the government in general) is in charge of **enforcing tax compliance**
- The main instrument in hands of the tax administration is the audit probability, p.
- Allingham and Sandmo (1972) were the first authors analyzing how individuals react to changes in *p*. Basically, they set an analogy between **evasion** and **a gamble**.

Tax Enforcement (VI)

- This means that taxpayers will bet (see whether they can certainly skip paying taxes) as long as their expected benefits are greater than expected costs. That is, if evasion is a fair gamble to the taxpayer:

That is, they will evade if the expected benefits (LHS) are larger than expected costs (RHS).

(Open question 2: how could tax evasion be fully and easily avoided?)

Tax Enforcement (VII)

- If tax-payers are risk-neutral, and as long as evasion is a fair gamble, tax compliance will be null.
- However, this is not what we might expect: individuals tend to be **risk-averse**. That is, from the model above, the conclusion is that in equilibrium tax compliance will be an interior solution (0,1).
- Still, such a model has a problem... in fact, we economists when we realize the predictions of theory do not match with reality, call it a **paradox** (dividend, voting... and now, evasion).

Tax Enforcement (& VIII)

 Here, the paradox consists of the fact that the level of evasion predicted by the model (based on numerical simulations) is much larger than what we observe in reality.

- Main **explanations**:

- Tax morality
- Withholding taxes, or even
- Patriotism

<u>Final thought</u>: technology might help in the medium term to reduce or to fully eliminate the extent of evasion. Will see!

How all this connects with the rest of the seminar

- In the previous model, we took *p* as given... here we will set a model to obtain the "optimal" *p*
- On top of that, the running model of AS (1972) is a static model: this is the key difference with our model, which empirical relevance we also test. Hence, we analyze the role of tax enforcement along time, and in particular along the economic cycle...

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