

Reading

#### Essential reading

Hindriks, J and G.D. Myles Intermediate Public Economics. (Cambridge: MIT Press, 2005) Chapter 16.

#### Further reading

- Allingham M. and A. Sandmo (1972) 'Income tax evasion: a theoretical analysis', Journal of Public Economics, 1, 323-338.
- A. Sandmo (2005) "The Theory of Tax Evasion: A Retrospective View " National Tax Journal, Vol. LVIII, No. 4
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- Cowell, F.A. Cheating the Government (Cambridge: MIT Press, 1990).
- J. Slemrod (2007), "Cheating Ourselves: The Economics of Tax Evasion », Journal of Economic Perspectives—Volume 21, Number1.



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- Glaeser, E.L., B. Sacerdote and J.A. Scheinkman (1996) 'Crime and social interaction', *Quarterly Journal of Economics*, 111, 506—548.
   Schneider F. and D.H. Enste D.H. (2000) 'Shadow economies: Size, causes, and consequences', *Journal of Economic Literature*, 38, 77—414.
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- Spicer, M.W. and S.B. Lundstedt (1976) 'Understanding tax evasion', Public Finance, 31, 295—305

#### Challenging reading

- Bordignon, M. (1993) 'A fairness approach to income tax evasion', Journal of Public Economics, 52, 345—362.
  Cowell, F.A. and J.P.F. Gordon (1988) 'Unwillingness to pay', Journal of Public Economics, 36, 305—321.

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- McManus, J. and N. Warren (2006), "The Case of Measuring Tax Gap", eJournal of Tax Research, vol. 4, no1, pp 61-79.
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- Scotchmer, S. (1987) Audit classes and tax enforcement policy, American Economic Review, 77, 229—233.
- Torgler, B. and F. Schneider (2007b), "The Impact of Tax Morale and Institutional Quality on the Shadow Economy", CREMA Working Paper Series, 2007-01, Center for Research in Economics, Management and the Arts (CREMA).



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Readings for Greece

- Παυλόπουλος, Π. (2002), Η παραοικονομία στην Ελλάδα: επανεξέταση. Ινστιτούτο Τουριστικών Ερενών και Προβλέψεων.
- Παυλόπουλος, Π. (1987), Η παραοικονομία στην Ελλάδα, ΙΟΒΕ.
- Κανελλόπουλος, Κ., Κουσουλάκος, Γ., Ράπανος, Β. (1995), Παραοικονομία και φοροδιαφυγή: Μετρήσεις και Οικονομικές Επιπτώσεις, ΚΕΠΕ.
- Τάτσος Ν. (2001), Παραοικονομία και Φοροδιαφυγή στην Ελλάδα, ΙΟΒΕ.
- Βαβούρας, Ι. και Μανωλάς, Γ. (2004), Η Παραοικονομία στην Ελλάδα και τον κόσμο, εκδόσεις Παπαζήση.
- Βαβούρας, Ι.Σ. (επιμ.), ( 1990), Παραοικονομία, Εκδόσεις Κριτική.
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#### Readings for Greece

- Georgia Kaplanoglou & Vassilis T. Rapanos (2012): "Tax and Trust: The Fiscal Crisis in Greece", South European Society and Politics, pp. 1–22, DOI:10.1080/13608746.2012.723327
- Georgia Kaplanoglou & Vassilis T. Rapanos (2015), "Why do people evade taxes? New experimental evidence from Greece", Journal of Behavioral and Experimental Economics, 56, pp. 21–32
- Βασίλης Θ. Ράπανος &Γεωρνία Καπλάνονλου (2014), "Φορολονία και οικονομική ανάπτυξη: Η περίπτωση της Ελλάδας", στον τόμο Μ. Μασουράκης και Χ. Γκόρτσος (επιμέλεια): Ανταγωνιστικότητα και Ανάπτυξη, έκδοση της Ελληνικής Ένωσης Τραπεζών.
- Georgia Kaplanoglou, Vassilis T. Rapanos & Nikolaos Daskalakis (2016)"Tax compliance behaviour during the crisis: the case of Greek SMEs", European Journal of Law and Economics, vol. 42, pp. 405–444, DOI 10.1007/s10657-016-9547-y

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#### **Tax Evasion**

- Tax evasion is the illegal failure to pay tax
- Tax avoidance is the reorganization of economic activity to lower tax payment
  - tax avoidance is legal, tax evasion is not
  - the borderline is unclear
- Estimates show evasion to be a significant fraction of measured economic activity
- It is an important consideration for tax policy



- The black, shadow or hidden economy are all economic activities for which payment is received but is not officially declared.
  - illegal activities
  - unmeasured legal activity such as output of smallholders
  - · legal but undeclared activity
  - The <u>unmeasured economy</u> would be the *shadow* economy plus activities such as do-it-yourself jobs that are economically valuable but do not involve economic transaction.

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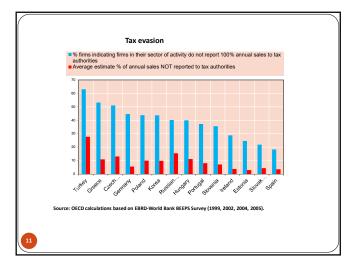
**Extent of Evasion** 

- There are many methods for measuring the hidden economy including:
  - the difference between the income and expenditure measures of national income
  - the use of survey evidence, either directly or indirectly as an input into an estimation procedure
  - the demand for cash, on the basis that transactions in the hidden economy are financed by cash rather than checks or credit (monetary approach)
  - the use of the quantity of a basic input that is measured to estimate true output (input approach)
- Table below presents estimates of the size of the hidden economy estimates are subject to error
  - there is a degree of consistency running through them
  - undeclared economic activity is substantial

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#### **Evasion Decision**

- The simplest model of the evasion decision considers it to be a gamble.
- If a taxpayer declares less than their true income (or overstates deductions)
  - they may do so without being detected
  - there is also a chance that they may be caught
  - when they are caught a punishment is inflicted
  - usually a fine but sometimes imprisonment
- A taxpayer has to weigh-up these gains and losses taking account of the chance of being caught and the level of the punishment

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#### **Evasion Decision**

- The taxpayer has an income level Y
  - known to the taxpayer
  - not known to the tax collector
- The income declared is  $X \le Y$ 
  - taxed at a constant rate t
- Amount of unreported income is  $Y X \ge 0$
- The unpaid tax is t[Y X]



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# **Evasion Decision**

• If the taxpayer evades without being caught, their income is given by

$$Y^{nc} = Y - tX$$

- When the taxpayer is caught evading all income is taxed and a fine at rate F is levied on the tax that has been evaded.
- The income level when caught is

$$Y^{c} = [1 - t]Y - Ft[Y - X]$$

 If income is understated the probability of being caught is p



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#### **Evasion Decision**

- Assume that the taxpayer derives utility U(Y) from an income Y
- After making declaration X
  - income level Y<sup>c</sup> occurs with probability p
  - income level Ync occurs with probability 1 p
- The taxpayer chooses X to maximize expected utility
- The declaration X solves

 $\max_{\{X\}} E[U(X)] = [1 - p]U(Y^{nc}) + pU(Y^{c})$ 



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#### **Evasion Decision**

- This choice problem can be displayed graphically
- Observe that there are two states of the world.
- in one state of the world the taxpayer is not caught evading and income is  $\mathbf{Y}^{nc}$
- ullet in the other state of the world they are caught and income is  $Y^c$
- The expected utility function describes preferences over income levels in these two states
- The choice of X determines an income level in each state
- Varying X trades-off income between the two states
  - a high value of X provides relatively more income in the state in which the taxpayer is caught evading
  - a low value of X provides relatively more when they are not caught.



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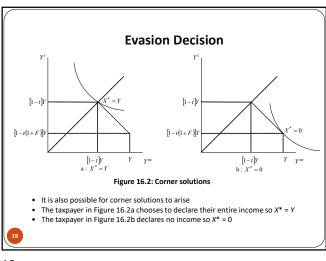
#### **Evasion Decision**

- When X = Y the taxpayer's income is [1 t]Y in both states
- When X = 0 income will be
  - [1 t(1 + F)]Y if caught
  - Y if not caught
- The options available to the taxpayer lie on the line joining the points for X = 0 and X = Y
  - this is the opportunity set of achievable allocations of income between the two states
- The utility function provides a set of indifference curves
  - an indifference curve describes income levels in the two states which give the same level of expected utility

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• The choice problem is shown in Figure 16.1
• The optimal declaration achieves the highest indifference curve
• The taxpayer chooses to locate at the point with declaration  $X^*$ • This is an interior point with  $0 < X^* < Y$ • Some tax is evaded but some income is declared [1-t]Y [1-t]Y [1-t]Y [1-t]YFigure 16.1: Interior choice



#### **Evasion Decision**

- An interesting question is what guarantees that evasion will
- Evasion occurs if the indifference curve is steeper than the budget constraint on the  $45^{\rm o}$  line
- Totally differentiating expected utility the indifference curve

$$d\dot{Y}^{c}/dY^{nc} = -[1-p]U'(Y^{nc})/pU'(Y^{c})$$

• On the 45° line  $Y^c = Y^{nc}$  so  $U'(Y^{nc}) = U'(Y^c)$  implying

$$dY^{c}/dY^{nc} = -[1-p]/p$$

- The slope of the budget constraint is given by F
- The indifference curve is steeper than the budget constraint on the  $45^{\rm o}$  line if

$$[1-p]/p > F \text{ or } p < 1/[1+F]$$

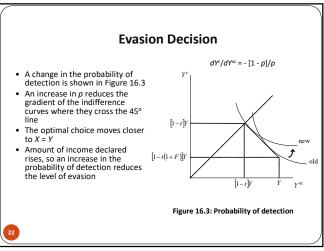
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#### **Evasion Decision**

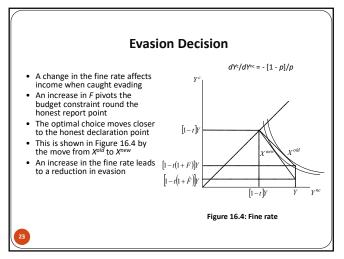
- Evade if the probability of detection is too small relative to the fine rate
- This is a trigger condition
  - it says nothing about the extent of evasion
- · The condition applies to all taxpayers regardless of preferences
  - if one evades, all should evade.
- Typical punishments suggest F is between 0.5 and 1 so  $1/(1+F) \ge 1/2$ .
- Information on p hard to obtain: 1 in a 100 or 1 in a 1000?
- The model predicts all taxpayers should be evading.
- In the US
  - the proportion of individual tax returns audited was 1.7 per cent in
  - the Taxpayer Compliance Measurement Program revealed that 40 per cent of US taxpayers underpaid their taxes#
    • this is large but less than predicted

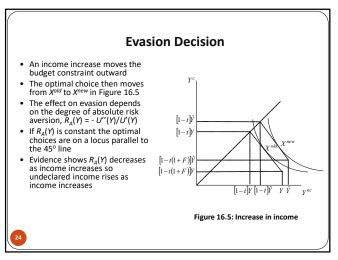
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#### **Evasion Decision**

- An increase in the tax rate moves the budget constraint inwards
- Figure 16.6 shows the outcome is not clear-cut
- If  $R_A(Y)$  is decreasing a tax increase reduces tax evasion
- This is counter to what seems reasonable
- The result holds because the fine is determined by Ft so an increase in the tax rate raises the
- This takes income away from the taxpayer in the state in which they have least income

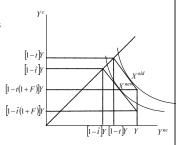


Figure 16.6: Increase in tax rate



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# **Auditing and Punishment**

- An increase in either p or F will reduce the amount of undeclared income
- Assume the government wishes to maximize revenue
- Revenue is defined as taxes paid plus the money received from fines
- From a taxpayer with income Y the expected value of the revenue collected is

$$R = tX + p(1+F)t[Y-X]$$



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# **Auditing and Punishment**

**Auditing and Punishment** 

The analysis of the evasion decision assumed that

This is satisfactory from the perspective of the

From the government's perspective these are

• the probability of detection can be raised by the

• The issues involved in the government's decision

choice variables that can be chosen

employment of additional tax inspectors the fine can be legislated or set by the courts.

• Differentiating with respect to p

the p and F were fixed

individual taxpayer

can be analyzed

$$\frac{\partial R}{\partial p} = (1+F)t[Y-X] + t[1-p-pF]\frac{\partial X}{\partial p} > 0$$
• Differentiating with respect to  $F$ 

$$\frac{\partial R}{\partial F} = pt \big[ Y - X \big] + t \big[ 1 - p - pF \big] \frac{\partial X}{\partial F} > 0$$

- If **pF <1 p** an increase in *p* or *F* will increase the revenue the government receives
- p is costly, F is free
- Optimal policy is low p very high F



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# **Auditing and Punishment**

- This policy maximizes revenue not welfare
- The government may be constrained by political factors
- The government may not be a single entity that chooses all policy instruments
  - the tax rate set by central government
  - the probability of detection controlled by a revenue service
  - the punishment set by the judiciary.
- The economics of crime would view tax evasion as just another crime with a punishment that should fit with the general scheme of punishments
  - levels of punishment should provide incentives that lessen the overall level of crime
  - lower punishments for less harmful rather crimes



#### **Evidence on Evasion**

- There have been two approaches taken in studying tax evasion.
- The first was to collect survey or interview data and use econometric analysis to provide a quantitative determination of the relationships.
- The second was to use experiments to provide an opportunity for designing the environment to permit the investigation of particular hypotheses.

#### **Evidence on Evasion**

Income interval	17-20	20-25	25-30	30-35	35-40
Midpoint	18.5	22.5	27.5	32.5	37.5
Assessed income	17.5	20.6	24.2	28.7	31.7
Percentage	94.6	91.5	88.0	88.3	84.5

Source: Mork (1975) Table 16.2: Declaration and Income

- Compares income level from interviews to income on tax return
- Interviewees placed in income intervals based on interview
- The percentage found by dividing the assessed income by the midpoint of the income interval
- Declared income declines as a proportion of reported income occurs as income rises



# **Evidence on Evasion**

the importance of attitudes and social norms in the evasion decision

- Propensity to evade taxation
- reduced by an increase in probability of detection, age, income
- increased by an increase in the perceived inequity and of the number of tax evaders known
- Extent of tax evasion increased by
- attitude and social variables
- experience of previous tax audits.

•	Social variables are clearly	
	important	

Variable	Propensity to evade	Extent of evasion
Inequity	0.34	0.24
Number of evaders known	0.16	0.18
Probability of detection	-0.17	
Age	-0.29	
Experience of audits	0.22	0.29
Income level	-0.27	
Income from wages and salaries	0.20	

Source: Spicer and Lundstedt (1976) Table 16.3: Explanatory Factors

#### **Evidence on Evasion**

- · Effect of the tax rate is concerned
  - data from the US Internal Revenue Services Taxpayer Compliance Measurement Program survey of 1969 show that tax evasion increases as the marginal tax rates increases but decreases when wages are a significant proportion of income
  - supported by employing the difference between income and expenditure figures in National Accounts as a measure of evasion
  - a study of Belgian data found precisely the converse conclusion with tax increases leading to lower evasion
- The ambiguity about the relation between marginal tax rates and tax evasion is not resolved



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# **Evidence on Evasion**

experimental studies

- Tax evasion games have shown
  - · evasion increases with the tax rate
  - evasion falls as the fine is increased or the detection probability
  - · women evade more often than men but evade lower amounts
  - that purchasers of lottery tickets were no more likely to evade than non-purchasers but evaded greater amounts when they did evade
- The nature of the tax evasion decision has been tested by running two parallel experiments
  - one framed as a tax evasion decision and the other as a simple gamble with the same risks and payoffs
  - for the tax evasion experiment some taxpayers chose not to evade even when they would under the same conditions with the gambling experiment
  - this suggests that tax evasion is not just a gamble



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#### **Evidence on Evasion**

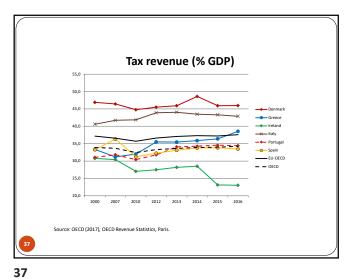
- There are two important lessons to be drawn
  - the theoretical predictions are generally supported except for the effect of the tax rate
  - tax evasion is more than the simple gamble portrayed in the basic model
- There are attitudinal and social aspects to the evasion decision in addition to the basic element of risk

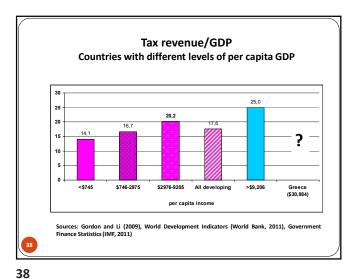


SOME FACTS ABOUT GREECE

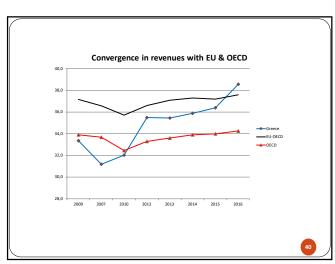
- Structure of the Greek tax system
- · Efficiency of the tax system
- Tax administration
- Societal Factors

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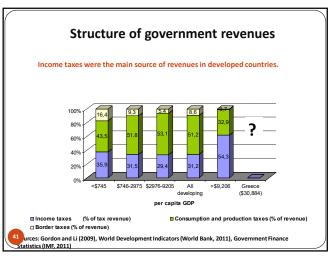


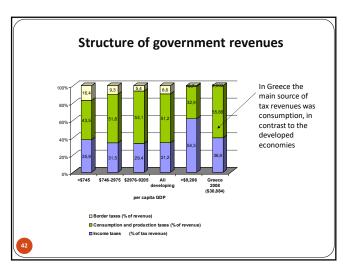


Tax revenue/GDP Countries with different levels of per capita GDP Greece was close to the average of developing countries per capita income Sources: Gordon and Li (2009), World Development Indicators (World Bank, 2011), Government Finance Statistics (IMF, 2011)

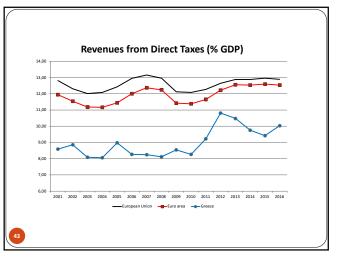


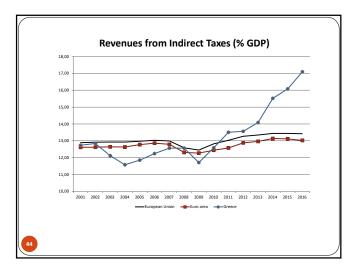
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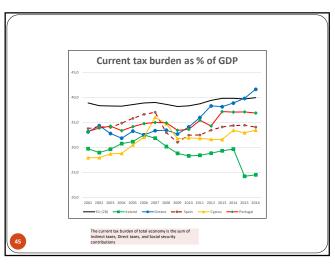


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# Tax Burden From the above data it is clear that the tax burden in Greece has increased significantly during the crisis. Yet, it seems that, the higher tax revenue, comes from higher tax rates and much less from combatting tax evasion. This is quite clear from the data that measure the "TAX GAP" for the value added tax (VAT), for which we have comparable data for all EU countries.

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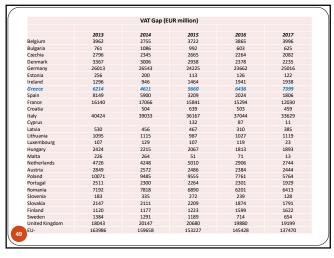
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### **VAT GAP**

- The VAT Gap is defined as the difference between the amount of VAT actually collected and the VAT Total Tax Liability (VTTL).
- The VTTL is the theoretical tax liability according to tax law.
- The VAT Gap, however, refers to more than just fraud and evasion. It also covers the VAT lost due to, for example, insolvencies, bankruptcies, administrative errors, and legal tax optimisation.
- For details see: http://europa.eu/rapid/press-release\_IP-16-2936\_en.htm

VAT Revenues (EUR million)								
	2013	2014	2015	2016	2017			
Belgium	27250	27518	27594	28750	29763			
Bulgaria	3898	3810	4059	4417	4664			
Czechia	11694	11602	12382	13091	14721			
Denmark	24320	24950	25672	26735	27931			
Germany	197005	203081	211616	218779	226582			
Estonia	1558	1711	1873	1974	2148			
Ireland	10372	11521	11955	12826	13278			
Greece	12593	12676	12885	14333	14642			
Spain	60951	63643	68601	70705	74107			
France	144490	148454	151680	154490	161932			
Croatia		5455	5690	6016	6485			
Italy	93921	97071	100692	102378	107901			
Cyprus			1517	1664	1851			
Latvia	1690	1787	1876	2032	2164			
Lithuania	2611	2764	2888	3026	3310			
Luxembourg	3438	3762	3435	3436	3469			
Hungary	9073	9754	10669	10587	11725			
Malta	582	642	673	712	810			
Netherlands	42408	42951	44746	47849	49900			
Austria	24895	25386	26247	27301	28304			
Poland	27780	29317	30075	30838	36330			
Portugal	13710	14682	15368	15767	16809			
Romania	11710	11496	12939	10968	11650			
Slovenia	3046	3155	3218	3316	3479			
Slovakia	4696	5021	5420	5420	5917			
Finland	18888	18948	18974	19694	20404			
Sweden	39048	38846	40501	42770	44115			
United Kingdom	139220	154085	178176	163344	161509			
EU	930847	974088	1031422	1043219	1085899			

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		Estimates, 2017 (EUR						
	2017							
	Revenues	VTTL	VAT Gap	VAT Gap %				
Belgium	29.763	33.759	3.996	11.80%				
Bulgaria	4,664	5,289	625	11.80%				
Czechia	14.721	16.803	2.082	12.40%				
Denmark	27,931	30,166	2,235	7.40%				
Germany	226.582	251,598	25.016	9.90%				
Estonia	2,148	2,270	122	5.40%				
Ireland	13.278	15.215	1.938	12.70%				
Greece	14,642	22,041	7,399	33.60%				
Spain	74,107	75,913	1,806	2.40%				
France	161,932	173,962	12,030	6.90%				
Croatia	6,485	6,944	459	6.60%				
Italy	107,901	141,530	33,629	23.80%				
Cyprus	1,851	1,862	11	0.60%				
Latvia	2,164	2,549	385	15.10%				
Lithuania	3,310	4,429	1,119	25.30%				
Luxembourg	3,469	3,492	23	0.70%				
Hungary	11,725	13,617	1,893	13.90%				
Malta	810	823	13	1.60%				
Netherlands	49,900	52,644	2,744	5.20%				
Austria	28,304	30,748	2,444	7.90%				
Poland	36,330	42,094	5,764	13.70%				
Portugal	16,809	18,738	1,929	10.30%				
Romania	11,650	18,063	6,413	35.50%				
Slovenia	3,479	3,606	128	3.50%				
Slovakia	5,917	7,708	1,791	23.20%				
Finland	20,404	22,026	1,622	7.40%				
Sweden	44,115	44,769	654	1.50%				
United Kingdom	161.509	180.708	19.199	10.60%				

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		Table R7 VAT Gan	(nercent of VTTI)						
	Table B7. VAT Gap (percent of VTTL)								
	2013	2014	2015	2016	2017				
Belgium	13%	9%	12%	12%	12%				
Bulgaria	16%	22%	20%	12%	12%				
Czechia	19%	17%	18%	15%	12%				
Denmark	12%	11%	10%	8%	7%				
Germany	12%	12%	10%	10%	10%				
Estonia	14%	10%	6%	6%	5%				
Ireland	11%	8%	11%	13%	13%				
Greece	33%	27%	31%	31%	34%				
Spain	12%	8%	4%	3%	2%				
France	10%	10%	9%	9%	7%				
Croatia		8%	10%	8%	7%				
Italy	30%	29%	26%	27%	24%				
Cyprus			8%	5%	1%				
Latvia	24%	20%	20%	13%	15%				
Lithuania	30%	29%	25%	25%	25%				
Luxembourg	3%	3%	3%	3%	1%				
Hungary	21%	19%	16%	15%	14%				
Malta	28%	29%	7%	9%	2%				
Netherlands	10%	9%	10%	6%	5%				
Austria	10%	9%	9%	8%	8%				
Poland	27%	24%	24%	20%	14%				
Portugal	15%	14%	13%	13%	10%				
Romania	38%	40%	35%	36%	36%				
Slovenia	6%	10%	8%	7%	4%				
Slovakia	31%	30%	29%	26%	23%				
Finland	6%	6%	6%	8%	7%				
Sweden	3%	3%	3%	2%	1%				
United Kingdom	11%	12%	10%	11%	11%				

Tax rates

- The tax revenue in Greece has increased significantly.
  - Is it the result of higher tax rates
  - Or
  - The result of broadening the tax base, and/or
  - The result of enhanced effort in tax collection and reduction in tax evasion?
- This is difficult to answer.
- Let us see first the evolution of tax rates in Greece and the rest of EU in the last few years.

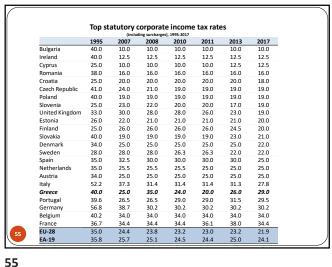
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,	VAI rates in	the Member	states, 2000-20	<b>017.</b> (%) Standar	d
	2000	2008	2013	2016	2017
Belgium	21	21	21	21	21
Bulgaria	20	20	20	20	20
Czech Republic	22	19	21	21	21
Denmark	25	25	25	25	25
Germany	16	19	19	19	19
Estonia	18	18	20	20	20
Ireland	21	21	23	23	23
Greece	18	19	23	23	24
Spain	16	16	21	21	21
France	19.6	19.6	19.6	20.0	20.0
Croatia	22	22	25	25	25
Italy	20	20	21	22	22
Cyprus	10	15	18	19	19
Netherlands	17.5	19	21	21	21
Austria	20	20	20	20	20
Poland	22	22	23	23	23
Portugal	17	20	23	23	23
Romania	19	19	24	20	19
Slovenia	19	20	22	22	22
Slovakia	23	19	20	20	20
Finland	22	22	24	24	24
Sweden	25	25	25	25	25
EU-28 Average	19.3	19.5	21.5	21.5	21.5
EA-19 Average	18.1	18.8	20.6	20.8	20.8

Top statutory personal income tax rates								
				harges), 1995-2				
	1995	2002	2008	2010	2014	2015	2016	2017
Sweden	61.3	55.5	56.4	56.6	56.9	57.0	57.1	57.1
Portugal	40.0	40.0	42.0	45.9	56.5	56.5	56.5	56.2
Denmark	65.7	62.3	62.3	55.4	55.6	55.8	55.8	55.8
Greece	45.0	40.0	40.0	49.0	46.0	48.0	48.0	55.0
Belgium	60.6	56.4	53.7	53.7	53.8	53.7	53.2	53.2
Netherlands	60.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
Finland	62.2	52.5	50.1	49.0	51.5	51.6	51.6	51.4
France	59.1	57.8	45.4	45.4	50.3	50.2	50.2	50.2
Austria	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Slovenia	50.0	50.0	41.0	41.0	50.0	50.0	50.0	50.0
Ireland	48.0	42.0	41.0	47.0	48.0	48.0	48.0	48.0
Germany	57.0	51.2	47.5	47.5	47.5	47.5	47.5	47.5
Italy	51.0	46.1	44.9	45.2	47.8	48.8	48.8	47.2
United Kingdom	40.0	40.0	40.0	50.0	45.0	45.0	45.0	45.0
Spain	56.0	48.0	43.0	43.0	52.0	45.0	45.0	43.5
Croatia	42.9	41.3	53.1	50.2	47.2	47.2	47.2	42.4
Cyprus	40.0	40.0	30.0	30.0	35.0	35.0	35.0	35.0
Poland	45.0	40.0	40.0	32.0	32.0	32.0	32.0	32.0
Slovakia	42.0	38.0	19.0	19.0	25.0	25.0	25.0	25.0
Estonia	26.0	26.0	21.0	21.0	21.0	20.0	20.0	20.0
Romania	40.0	40.0	16.0	16.0	16.0	16.0	16.0	16.0
Czech Republic	43.0	32.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulgaria	50.0	29.0	10.0	10.0	10.0	10.0	10.0	10.0
EU-28	47.2	42.9	38.4	38.5	39.2	39.0	38.9	39.0
EA-19	46.9	43.3	39.1	39.7	42.3	42.0	42.0	42.3

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Over	all statutory tax	rates on divid	end income		
			T		
	CIT rate on dist		Overall PIT + CIT rate		
Country	2008	2017	2008	2017	
stonia	21.00	20.00	21.00	20.00	
Hungary	20.00	9.00	48.00	22.65	
_atvia	15.00	15.00	15.00	23.50	
Slovak Republic	19.00	21.00	19.00	26.53	
Czech Republic	21.00	19.00	32.85	31.15	
Poland	19.00	19.00	34.39	34.39	
Slovenia	22.00	19.00	37.60	39.25	
Greece	25.00	29.00	25.00	39.65	
Spain	30.00	25.00	42.60	42.25	
uxembourg	29.63	27.08	43.95	42.39	
inland	26.00	20.00	40.50	43.12	
Netherlands	25.50	25.00	44.13	43.75	
taly	27.50	24.00	36.56	43.76	
Sweden	28.00	22.00	49.60	45.40	
Austria	25.00	25.00	43.75	45.63	
Germany	29.41	29.83	48.02	48.33	
Portugal	26.50	29.50	41.20	49.24	
United Kingdom	28.00	19.00	46.00	49.86	
Belgium	33.99	33.99	43.89	53.79	
Denmark	25.00	22.00	58.75	54.76	
reland	12.50	12.50	48.38	57.13	
rance	34.43	46.10	53.45	69.82	

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# Αδυναμίες επίσημου θεσμικού πλαισίου

• Όμως ο κύριος λόγος για τη μειωμένη απόδοση εσόδων του ελληνικού φορολογικού συστήματος είναι οι αδυναμίες του επίσημου θεσμικού πλαισίου εφαρμογής της νομοθεσίας, δηλαδή αναποτελεσματική φορολογική διοίκηση, αδυναμία επιβολής των φορολογικών κανόνων, ανεπάρκεια των μηχανισμών επίλυσης διαφορών, κλπ.



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# Εισοδήματα και κατανάλωση διαφόρων επαγγελματικών ομάδων

Table 2 Reported income and consumption expenditure of occupational groups

Occupational group	Taxpayers (as a % of total)	Average income tax burden (% of total taxable income)	Income as a % of population average (3)	Expenditure as a % of population average (4)	Non-durable expenditure as a % of population average (5)
Traders, liberal professionals, rentiers	29.3%	12.1%	103.0%	125.7%	123.0%
Farmers	6.9%	6.5%	66.3%	81.1%	80.7%
Wage-earners	35.9%	8.6%	110.8%	106.3%	104.9%
Pensioners	28.0%	7.4%	91.3%	84.9%	87.5%

Sources: Own calculations from Ministry of Finance (2011) – columns (1)-(3), own calculations from 2008 Household Expenditure Survey conducted by the Hellenic Statistical Authority.



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# Φόρος εισοδήματος φυσικών προσώπων

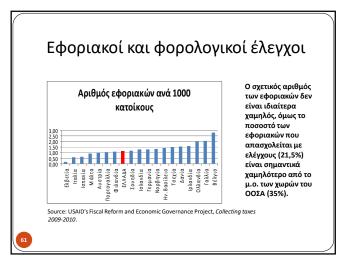
- Οι ενδείξεις υποδεικνύουν ότι υπάρχει μεγάλη φοροδιαφυγή, π.χ.
  - Με βάση τα στοιχεία της ΓΓΠΣ για τα εισοδήματα του 2009, το 60% των φορολογουμένων δηλώνει εισοδήματα κάτω από το αφορολόγητο όριο και δεν πληρώνει φόρο εισοδήματος.
  - 30% των φορολογουμένων πληρώνει το 95% του συνολικού ΦΕΦΠ
  - 42% των μισθωτών/συνταξιούχων και 83% των άλλων επαγγελματικών ομάδων δηλώνει εισοδήματα κάτω από 10,000 ευρώ.

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# Άλλες ενδείξεις της αναποτελεσματικότητας των μηχανισμών συλλογής φόρων

- Στο τέλος του 2010, οι ανείσπρακτοι φόροι (tax arrears) ανέρχονταν σε 14,5 % του ΑΕΠ.
- Περίπου 150.000 φορολογικές υποθέσεις εκκρεμούν στα δικαστήρια.
- Κάθε 3-5 χρόνια το Υπουργείο καταφεύγει σε «περαιώσεις», πρακτική που επιβραβεύει τους φοροφυγάδες.
- Η δομή της ελληνικής οικονομίας περαιτέρω δυσχεραίνει το έργο της φορολογικής διοίκησης (μεγάλο ποσοστό ελεύθερων επαγγελματιών και πολύ μικρών επιχειρήσεων).
- Η πολυπλοκότητα και οι συνεχείς αλλαγές του φορολογικού πλαισίου περιπλέκουν το έργο των εφοριακών, αλλά και των φορολογουμένων.





Η αναποτελεσματικότητα της φορολογικής διοίκησης είναι αντιληπτή από τους φορολογούμενους

Ώρες αδήλωτης εργασίας

Το Ελλάδα

Αφωία Αλφωία Ευγαρία Τοιχία Τ

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Share of self-employed
% of total employment, 2016 or latest available year

40

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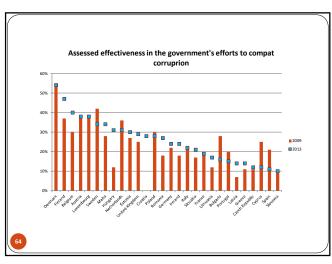
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When

Women



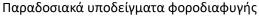
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 Μήπως υπάρχουν πρόσθετοι λόγοι που εξηγούν τις αποτυχίες της φορολογικής διοίκησης και την εκτεταμένη φοροδιαφυγή στην οποία επιδίδονται οι φορολογούμενοι και ανέχονται οι φορολογικές αρχές;

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# Παραδοσιακά υποδείγματα φοροδιαφυγής

- Τα παραδοσιακά υποδείγματα προσδιορισμού του επιπέδου της φοροδιαφυγής (π.χ. Allingham and Sandmo, 1971) αντιμετωπίζουν τους φορολογούμενους ως ορθολογικά σκεπτόμενα άτομα, τα οποία αποφασίζουν με βάση έναν υπολογισμό κόστους-οφέλους.
- Εμπειρικές μελέτες δείχνουν ότι αυτά τα υποδείγματα αποτυγχάνουν να εξηγήσουν τα υψηλά ποσοστά όχι της φοροδιαφυγής, αλλά της εθελοντικής συμμόρφωσης!



- Για παράδειγμα στις ΗΠΑ, το ποσοστό των ατομικών δηλώσεων φόρου εισοδήματος που ελέγχονται είναι περίπου 0,8%.
- Προφανώς υπάρχουν στοιχεία που επηρεάζουν το βαθμό συμμόρφωσης των φορολογουμένων που δεν έχουν σχέση με οικονομικά κίνητρα

Εναλλακτικές θεωρίες για τη συμπεριφορά

• Πρέπει να λάβουμε υπόψη ψυχολογικούς και

• Προσωπικές και κοινωνικές αξίες (norms)

• Εμπιστοσύνη στους κρατικούς θεσμούς και στους

των φορολογουμένων

κοινωνικούς παράγοντες, όπως

άλλους φορολογούμενους

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# Εναλλακτικές θεωρίες για τη συμπεριφορά των φορολογουμένων

- Τα άτομα αντιλαμβάνονται τη σχέση ανάμεσα στους φόρους που πληρώνουν και την αποτελεσματικότητα των κρατικών δαπανών.
- Η εθελοντική συμμόρφωση ενός ατόμου με το φορολογικό σύστημα εξαρτάται από το πώς το άτομο αντιλαμβάνεται τη συμπεριφορά των άλλων φορολογουμένων. (η πληρωμή φόρων είναι «κοινωνικό φαινόμενο»)



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# Προσωπικές αξίες

- Η συμπεριφορά του φορολογούμενου επηρεάζεται από τις προσωπικές του αξίες (τι θεωρεί ηθικά σωστή συμπεριφορά) (Kirchler, 2007), π.χ. αν θεωρεί ότι είναι σημαντικό να είναι ειλικρινής, αν αισθάνεται τύψεις στην περίπτωση που φοροδιαφεύγει.
- Από τι εξαρτώνται οι προσωπικές αξίες;
  - Προφανώς είναι το αποτέλεσμα της μακροχρόνιας κοινωνικοποίησης του ατόμου
  - Αντίληψη για το κατά πόσο το φορολογικό σύστημα είναι δίκαιο
  - Αντίληψη για το τι κάνουν οι άλλοι, κλπ.

# Κοινωνικές αξίες

- Οι μελέτες δείχνουν ότι η συμμόρφωση των ατόμων με το φορολογικό σύστημα εξαρτάται από το τι εκλαμβάνουν ως γενικά αποδεκτό στην κοινωνία.
- Διάφορες μελέτες δείχνουν ότι τα άτομα τείνουν να υιοθετούν τις συμπεριφορές που υιοθετούν και οι άλλοι.
- Αν τα άτομα πιστεύουν ότι όλοι πληρώνουν τους φόρους που τους αναλογούν, θα τείνουν και αυτά να κάνουν το ίδιο. Και το αντίστροφο (π.χ. Scholz and Lubell, 1998).

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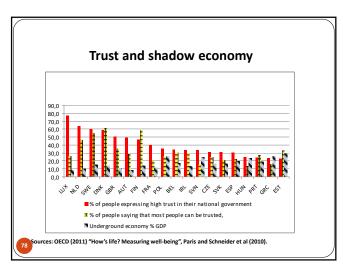
# Εμπιστοσύνη

- Εμπιστοσύνη στους θεσμούς και στην κυβέρνηση συνδέεται με μεγαλύτερη φορολογική συνείδηση και υψηλότερα ποσοστά εθελοντικής συμμόρφωσης με το φορολογικό σύστημα (Torgler, 2003, 2005).
- Αν ο φορολογούμενος πιστεύει ότι η κυβέρνηση συλλέγει φόρους και κατανέμει τις δαπάνες με αποτελεσματικό και δίκαιο τρόπο, είναι πιο πρόθυμος να πληρώσει τους φόρους που του αναλογούν.

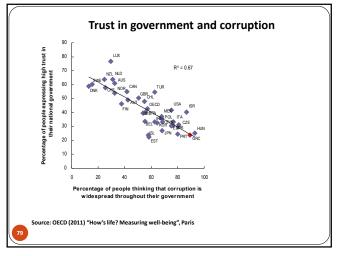
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Ερώτημα
• Συνδέονται τέτοιοι παράγοντες με την χαμηλή απόδοση του φορολογικού συστήματος στην Ελλάδα;

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Αποτυχίες ανεπίσημων θεσμών (informal institutions)

- Οι Έλληνες φορολογούμενοι είναι απρόθυμοι να πληρώσουν τους φόρους τους για τους πρόσθετους λόγους ότι:
  - Δεν εμπιστεύονται τους δημόσιους θεσμούς
  - Δεν εμπιστεύονται το κράτος και την κυβέρνηση
  - Δεν εμπιστεύονται τους συμπολίτες τους
  - Πιστεύουν ότι η διαφθορά είναι εκτεταμένη

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# Συμπεράσματα

- Το φορολογικό σύστημα είναι αναποτελεσματικό, τόσο ως προς τη συνολική του απόδοση, όσο και ως προς τη δομή του.
- Σε πρώτο επίπεδο, αιτίες είναι η αναποτελεσματικότητα των επίσημων θεσμών (δηλαδή της φορολογικής διοίκησης και των φοροεισπρακτικών μηχανισμών, των μηχανισμών επίλυσης διαφορών), η πολυπλοκότητα του συστήματος και η δομή της ελληνικής οικονομίας.



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# Συμπεράσματα

- Σε δεύτερο επίπεδο, οι αποτυχίες των επίσημων θεσμών έχουν τη ρίζα τους και ταυτόχρονα ενισχύουν τις αποτυχίες ανεπίσημων θεσμών (έλλειψη εμπιστοσύνης στο κράτος, τους θεσμούς, τη δικαστική εξουσία και τους συμπολίτες)
- Παράλληλα, οι δυσλειτουργίες του φορολογικού συστήματος εκλαμβάνονται ότι οδηγούν σε άνιση κατανομή των φορολογικών βαρών και άρα ότι αποτελούν πηγή ανισότητας.

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# Συμπεράσματα

- Η αντιμετώπιση των προβλημάτων του ελληνικού φορολογικού συστήματος είναι πολύπλοκη.
- Η αναδιοργάνωση των εφοριών, η εκλογίκευση των προστίμων, η απλοποίηση της φορολογικής δομής και των διαδικασιών είναι απαραίτητα βήματα, αλλά δεν επαρκούν.
- Οποιαδήποτε βελτίωση, για να έχει ουσία και διάρκεια, πρέπει να περιλαμβάνει τη δημιουργία φορολογικής συνείδησης, την αλλαγή της αντίληψης των Ελλήνων για τους δημόσιους θεσμούς και τη δημιουργία κοινωνικής συνείδησης και ευθύνης.
- Αυτός είναι πολύ πιο δύσκολος στόχος, εάν όμως επιτευχθεί τα οφέλη θα είναι πολλαπλά και πολύ περισσότερα από ένα εύρυθμο φορολογικό σύστημα.

