Tax revenues in the European Union: Recent trends and challenges ahead

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Recent trends and challenges ahead

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Abstract: The governments of the European Union are facing important challenges that may impact both their need and their capacity to collect taxes. First, ageing will increase some social spending while reducing the potential of some tax bases such as labour. Second, globalisation has the potential to increase the mobility of capital and of high-skilled workers, making it more difficult to rely on them as a source of revenues. Finally, the desire to shift tax away from labour and to make work pay while retaining the social models will force Member States to find alternative robust tax bases. This paper reviews the most recent trends in taxation in the European Union and discusses several tax policy issues in the light of those coming challenges.

Keywords: Taxation; Welfare State; European Union; ageing; globalisation.

JEL Classification: H10, H20, H50.

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1. Introduction.

Over the latest years, we have witnessed a certain stabilisation in the overall tax burden of EU Member States. This marked an interruption of many years of increasing tax burdens, reflecting increasing public expenditures. More recently, overall levels of expenditure are being reduced in an effort to consolidate public finances, followed to some extent by some reduction in revenues as percentage of GDP after the peak in the late 1990s. While pursuing more efficiency in public spending should help reduce the pressure on revenues, the future economic and budgetary impact of population ageing and globalisation present significant challenges which require a comprehensive strategy, including on the taxation side.

EU Member States have carried out important reforms of their tax systems. These reforms were driven by several factors. First, high unemployment rates and low participation rates represent a loss of human capital and create social tensions. The growing awareness that the excessive tax burden on labour and its interaction with the benefit systems lower work incentives, especially for those with low earnings potential, has led EU Member States to move towards a more employment-friendly labour taxation. In doing this, they have also faced the difficulty of finding alternative tax bases to finance their expenditures. Second, Member States have undertaken efforts to rationalise and simplify their tax systems. Almost all efforts have gone in the direction of broadening the tax base in order to reduce the tax rates. This potentially brings economic benefits but also bring forward the question of a possible trade-off between efficiency and fairness. Finally, globalisation and ageing have raised the issue of the financing of the social models in the European countries. In particular, the constraints imposed by these challenges have focussed the debate around the need for finding alternative and robust tax bases. This paper discusses the implications of these challenges for tax policy in the European Union and reviews the options for financing the welfare state.

Tax collection has been impacted by structural developments and growing challenges. Economic integration and the increasing mobility of factors of production, in particular capital, have made it easier for tax bases to relocate and taxes are one element determining this choice. In the face of the growing challenges of ageing and globalisation, Member States have been progressively more concerned by the perspective of vanishing tax bases or the progressive shift of the tax burden from mobile to immobile tax bases which could ultimately threaten their capacity to finance their social model(s). Taxes are indeed closely linked to the objectives of the welfare state. These objectives can be conveniently classified according to the following categories: efficiency of the economy, supporting the living standards at all stage of life or in case of adverse events, reducing inequalities, promoting social integration, protecting citizens, and ensuring an intelligible and abuse-free administration (Barr, 2002)\(^1\). To meet these aims, taxation can be used in different ways\(^2\). First, taxation can be used as a source of financing for public interventions such as the production of public goods, the transfer of income or the provision of insurance with compulsory membership. Second, taxation can also be used to directly correct market failures or to promote (resp. discourage) the consumption of merit goods (resp. demerit goods) for which positive (resp. negative) externalities are not internalised.

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\(^1\) An alternative classification deals with the three 'R's' of the welfare state: Redistribution between people, Risk and insurance, and Reallocation over the life cycle (de Mooij, 2006).

\(^2\) Note that besides taxation, regulation, public production, income transfers and subsidies are other alternative or complementary instruments in the hands of governments.
It naturally follows that the level – and to some extent the structure – of taxation is closely linked to the level of public expenditures. Several factors are shaping the degree of government intervention in the economy (Tanzi, 1997). First, the level of economic development is impacting the efficiency of markets and hence the need for policy intervention. In more developed economies, for which basic needs are fulfilled, citizens may express a higher desire for larger social programmes, a phenomenon known as the Wagner Law or Law of Increasing State Spending. Next, the level of technological development may shape government spending in several directions. Technological improvements may break natural monopolies and hence create less scope for direct public intervention. Innovation can also reduce the cost of existing technologies but in the same time bring new ones that are more costly – a well-known phenomenon in health care expenditures. Third, the degree of openness of the economy may increase the need for a larger public sector that acts as a buffer against external shocks (Rodrik, 1998). Finally and foremost, social attitudes, mainstream economic or political thinking, and historical developments help understanding the evolution of the size of the government. As evidenced by table (1), during the period between the 1870 French-German war and WWI, total public expenditures to GDP were at a meagre 10-15%. Following the post-WWII Keynesian revolution and the oil shock of the early 1970s, public expenditures soared to reach levels above 50% of GDP in most countries. Over the last decade, public expenditures have somewhat retreated in Europe. The analysis contained in this paper shall therefore be read in the light of historical perspectives and current social preferences towards the extent and functions of the welfare state. It shall also recognise the strong link between taxation and the level of public expenditures, especially because of the need to ensure fiscal discipline.

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The remaining of the paper is organised as follow. Section two reviews the main developments in tax levels and structures over the last decade. Section three highlights the trends towards more employment-friendly and simpler taxes. Section four discusses the challenges of ageing and globalisation on European social models and the quest for alternative tax bases to finance them. Section five concludes.

3 For example, as discussed by Tanzi and Schuknecht (1997), most of the 19th century was characterised by low levels of government expenditure, reflecting the dominant doctrine of Laissez-faire, itself possibly a consequence of 18th century's interventionism. See also Musgrave (1985) for an enlightening review of history of fiscal doctrine.

2.1. Total tax burden: turning the tide?

Between the early 1970s and the late 1990s, total tax burden in percentage of GDP\(^4\) has soared in the European Union\(^5\). On average, the rate of growth was of half a percentage point per year during the 1970s, a period of rapid growth of public expenditures. The growth of the total tax burden slowed down in the 1980s – with an average annual growth of less than a tenth of a percentage point per year – before growing again in the 1990s at an annual average rate of 0.3 percentage-points. The total tax-to-GDP in Europe peaked at the turn of the century before decreasing by 0.2 percentage-points per year on average. The latest data however show a pickup at the current end. Overall, the tax ratio is by now at the same level as ten yeas ago.

![Figure (1): Total taxes (including SSC) in percentage of GDP.](image)

Source: European Commission (2006). Note the statistical break due to a change in classification at Eurostat. All data are GDP-weighted. Europe refers to the GDP-weighted average for Member States in the respective years.

When looking at the evolution of individual countries, several exceptions stand out. First, some countries have been particularly successful to stabilise their total tax-to-GDP ratio either from the 1970s – this is the case of Ireland and United Kingdom – and this at levels around 35%, or from the 1980s – such as Germany (at about 40%), Belgium, Luxembourg, and the Netherlands (all at about 45%). Second, the level of taxes in the economy has dramatically increased – by some 10 percentage-points – in Finland, Greece, Italy, Portugal and Spain in the 1980s and 1990s, although starting at comparatively low levels. The same ‘catch-up’ effect occurred in Cyprus and Malta over the last decade. Third, for the most recent period, some of the recent Member States have experienced important decreases in their total

\(^4\) Despite its simplicity – or rather because of it – the total tax-to-GDP ratio remains a rough indicator that carries interesting summary information but also suffers from deficiencies. It cannot be seen in isolation of the level of public expenditures and of the use of other alternative means for government intervention such as regulation. Moreover, total tax revenues convey very little information on the impact – in terms of distortions and in terms of redistribution – of tax systems.

\(^5\) Several data limitations put constraints on the analysis. First, tax data for the EU-15 is only available from 1980. An indicator for ‘Europe’ is available from 1970 and is an average for each year for the countries that were member of the European Union (or Community) during this year. Second, data for the ten member states that joined the EU in 2004 (and hence an EU-25 indicator) is only available from 1995. Third, ESA-95 data for Bulgaria and Romania exist only for the most recent years. Finally, there is a statistical break around 1995 due to the change in classification at Eurostat as the statistics changed from the ESA-79 to the ESA-95 classification. The GDP-weighted data for the EU-15 and the EU-25 (or EU-27) are very similar. Unless specified otherwise, EU-15 data are used – because of longer time-series – but the conclusions can be transposed to the EU-25 or EU-27. Most data are available until 2004 or 2005. Most of the figures use GDP-weighted figures. One advantage is that those measures are representative of the EU as a whole. One drawback is that those figures are driven by the large Member States and that dispersion could be under-estimated.
tax burdens. This is the case of the Slovak republic (about 10 p.p.), Estonia (7 p.p.), Latvia (about 4 p.p.), Poland and Hungary (both about 3 p.p.). Interestingly, the bulk of these changes have occurred in the second half of the 1990s.

Figure (2): Total taxes (including SSC) in percentage of GDP in 1995 and 2005.

Finally, about half of the Member States have experienced a decrease in their tax-to-GDP ratio between 2000 and 2005. This decrease was especially marked in Germany, Greece, Finland, the Netherlands, Slovak republic, and Sweden. In 2005, latest year available, the GDP-weighted average for the EU-27 was at 39.6%. It ranges from 28.0% in Romania to 51.3% in Sweden.

2.2. Tax systems in the European Union rest on three pillars.

Most tax systems in the world rely on three pillars: direct income taxes, indirect taxes on consumption and social security contributions. The European Union does not differ in that respect, although it generally relies proportionally more on consumption taxes (because of its developed VAT system) and on social security contribution than other developed economies (OECD, 2001). The respective shares of these three components have been quite close over time, staying within the 30-35% range. Direct taxes are quite volatile and largely influenced by the business cycle. The ratio of indirect taxes to GDP steadily increased until 1999 before slightly levelling off in the most recent years (but the share of indirect taxes in the total has increased over the last decade). This increase is due to developments in VAT collection that represented about 5% of GDP in 1970 to reach over 7% in 1999, partly explained by the creation of VAT systems in Portugal (1986), Spain (1986), Greece (1987) and Finland (1995). At 13.8% of GDP and 35% of total taxes, indirect taxes remain the main source of tax revenues in the European Union, followed by direct taxes at 13% of GDP (or 33% of total taxes). There also seems to be a trend in recent years towards more reliance on indirect taxes, as exemplified most recently by the German decision to increase VAT by three points and use part of the proceeds to cut social contributions.

Social security contributions constitute a third important source of taxes. EU Member States increasingly relied on social security contributions until the mid-1990s, with a change in 1996-1998 when the need to decrease labour costs materialised in a decline in social
security contributions\(^6\). However, measures were mostly targeted or of limited scope so that little if any marked reduction in EU averages is visible since the turn of the century.

**Figure (3): direct taxes, indirect taxes and SSC in % of GDP.**

The structure of taxation varies widely across countries. The share of indirect taxes in total taxation varies from about 30% in Belgium and in Germany to around 50% in Bulgaria and Cyprus. Direct taxes take on less than 20% of total taxes collected in Bulgaria and Romania but reach over 62% in Denmark. Finally, social security contributions represent only about 2.2% of the total in Denmark but over 40% of the total in Germany and Czech Republic.\(^7\)

**Figure (4a): share of indirect taxes in total taxation (2005).**

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\(^6\) This development seems however mainly driven by a reduction in social security contributions for employees in France and in the Netherlands. It is unclear whether labour cost as declined as those measures have been partially compensated by personal income tax (Netherlands) or surcharges (so-called CSG in France).

\(^7\) Some statistical facts stand out. While the correlation between the share of indirect taxes and the two alternative sources of taxation is only about -.25, the correlation between social security contributions and direct taxation reaches -.87, indicating some form of trade-off between these two forms of revenues and probably reflecting a choice in the source of financing of social security expenditures as well as the fact that indirect taxes are relatively harmonized across Member States. This is confirmed by the correlations between these sources in percentage of GDP. The correlation between direct taxation and social security contributions is -.37, while it is .51 with indirect taxation. The correlation between indirect taxation and social security contribution is not economically significant at -.06. Second, while the correlation between the level of total taxes in percentage of GDP and the share of social security contribution is low (at -.09), there is a strong positive correlation between that level and the share of direct taxes (.43) and an even stronger negative correlation with the share of indirect taxes (-.70). This could be an indication that large governments might be mainly financed by larger direct taxes.
2.3. Taxing labour, capital or consumption.

Tax revenues from labour, capital and consumption in percentage of GDP have not shown major changes since the 1980s. Taxes on labour represent about 20-21% of GDP, while the weight of taxes on capital – contrary to common believe – has actually slightly increased from 6-7% to 9% of GDP. Finally, taxes on consumption make up for 10-11% of GDP. Differences in taxes as a percentage of GDP between economic functions do not necessarily mean that one source is more taxed than another. This is because their bases may well have different weights in the economy. To account for these different weights, one needs to compute implicit tax rates (or 'backward-looking effective tax rates ') which allot each tax to its respective tax base. The implicit tax rate on labour shows a less positive picture of the overall reduction in the burden of labour taxation as the decline is much less marked and more or less stopped after 2001, although some progress has been made in reducing the tax wedge on the lowest incomes. One shall also note that the implicit corporate tax rate – a sub-category of capital taxation – mimics the (cyclical) trend of capital taxation.
Taxes on consumption carry a relatively similar weight across Member States, but there is much more variation across Member States in the taxation of labour and capital. Taxes on labour vary from slightly above 10% of GDP in Cyprus and Malta to over 30% in Sweden. There is also more variation over time as the weight of labour taxation in GDP decreased since the mid-1990s in most countries. EU Member States still largely rely on taxes on labour but they differ as to whether those taxes are borne by employees or employers. On average, about 42% of the total taxes on employed workers are paid by employers but this share varies from 2% in Denmark to 60% in a range of countries. Interestingly, labour market reforms targeting employed workers have been focussed on reducing the burden for either employers or employees, but rarely both, and a decrease in the tax burden for one source was often partially offset by an increase in the tax burden for the other.

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8 The coefficients of variation for consumption, labour and capital are 12.9, 29.3 and 35.7% respectively.
Figure (7b): taxes on consumption in % GDP.

Figure (7c): taxes on labour in % GDP.


2.4. Do the Newly-accessed Member States differ from the EU-15?

The recent accessions of new Member States have fuelled some debates in the 'old' Member States because statutory rates – notably on companies – were perceived to be substantially lower in the new Member States. In addition, some of the new Member States have cut taxes aggressively, introducing e.g. zero rates on retained profits, or embraced inherently less progressive tax models such as the so-called flat tax regime. This perceived feeling of tax competition was also fuelling fears of a failure to finance social model(s).

Comparing tax collection in percentage of GDP in the EU-15 and the NMS-10 exposes interesting facts (see table 2). First, taxes in the new Member States are indeed lower than in the EU-15 between 1995 and 2004, with a ratio of total taxes-to-GDP in the NMS-10 constantly about 5 percentage-points below that of the EU-15. This difference in level can be almost fully attributed to lower direct taxes in the new Member States, where the levels in percentage of GDP are almost half of the ones in the EU-15\(^9\). This difference has fuelled discussions about a possible risk of corporate tax competition to attract capital.

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\(^9\) All NMS-10 have lower direct taxes to GDP ratios (from 6.1% in Slovak Republic to 9.4% in Czech Republic and 12.4% in Malta in 2004) than the EU-25 average (12.9% in 2004). However, there are also marked differences as for example the Central European New Member States (with the exception of Slovak Republic) tend to have tax ratios that are closer to the EU-15 average than the Baltics.
During the past two decades, statutory corporate tax rates in Europe have fallen considerably, with a drop of the average tax rate in the EU-15 from slightly below 50% in 1985 to 30% in 2006. The decline in corporate tax rates has induced fears of a race-to-the-bottom in the European Union, i.e. a process in which competing governments successively undercut each others tax rates in order to attract mobile tax bases.\(^{10}\)

Looking at the data, and contrary to common belief, the bulk of the difference in direct tax-to-GDP ratios is to be attributed to a lower collection of personal income taxes in new Member States, and not to lower corporate income taxes. Moreover, while personal income taxes in percentage of GDP is clearly below the level of the EU-15 (5.0% compared to 9.4%), the ratio of corporate income taxes to GDP in the NMS-10 still tops the one in the EU-15 (2.5% compared to 2.4%). However, some statistical artifices distort the comparison. In particular, in some large Member States such as Germany, the vast majority of companies do not pay the corporate income tax but their owners are taxed instead at the personal income tax, which artificially drives down the EU-15 average corporate tax-to-GDP. The arithmetic average personal income tax-to-GDP for the EU-15 and the NMS-10 is 10.4% and 5.7% in 2004 respectively, confirming the large difference. Furthermore, although the respective values for corporate income tax to GDP are 3.1% in the EU-15 and 2.7% in the NMS-10, this difference grows significantly if one excludes Cyprus and Malta, as the NMS-10 ratio falls to 2.3%\(^{11}\). Furthermore, the economies of the New Member States have been growing very fast, which boosts their tax revenues from capital.

All in all, the data are relatively inconclusive about the extent and the effects of corporate tax competition that could threaten tax collection. In particular, it is difficult to assess to what extent the above-mentioned factors are responsible for the fact that so far we do not observe a visible and marked erosion of tax collection. The large differences in statutory tax rates might also reflect a stronger choice towards lower rates and larger bases in the new Member States. However, there are limits to base widening as it cannot offset forever continuing rate cuts. Another problem is that very low corporate income tax rates threaten the

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\(^{10}\) Enlargement has reinforced such fears as new Member States apply corporate tax rates that have gradually reached levels of more than 10%-points lower than in the EU-15 countries. See Nicodème (2007a) for a review of the literature on corporate tax competition. See also de Mooij and Nicodème (2006) for a discussion on corporate tax rates and bases developments.

\(^{11}\) This said, the implicit tax rates on consumption, on labour and on corporate income are all higher in the NMS-10. One noticeable difference is that the implicit tax rate on capital is much higher in the EU-15, indicating that wealth and capital income of self-employed is more heavily taxed. Those figures shall be taken with caution because of a lack of data for several countries.
so-called "backstop function" of that tax, which is to protect personal income tax revenue from the risk of individuals subject to personal income tax acquire the legal form of corporations to reduce their tax bill; if this happens the erosion of tax revenues would be more apparent in the revenue from the personal income tax rather than from the corporate income tax\textsuperscript{12}.

3. Recent trends in tax reforms.

Over the last years, Member States have carried out important reforms of their tax systems. These reforms were driven by several factors. First, high unemployment rates and low participation rates represent a loss of human capital and create social tensions. European Labour markets are distorted by taxes and Member States have sought to create a more employment-friendly labour taxation. Doing this, they have also faced the difficulty of finding alternative tax bases to finance their expenditures. Second, the recent trend has been towards simpler tax systems, maybe driven by the need to reduce marginal tax rates while keeping revenues constant.


Taxation is a source of distortion in the labour markets and will affect both the supply of and the demand for labour\textsuperscript{13}. The impact of taxes on wages and employment depends on the interactions between labour supply and demand, labour market structure and the institutional design such as the wage bargaining process. Taxes and social security contributions drive a wedge between the cost for the employer and the net compensation received by the employee. Although theoretically such tax can increase or decrease labour supply, depending on which of the income and substitution effect dominates, empirical evidence points to a negative impact of labour taxes, albeit with different magnitude for different groups of workers. In particular, the effect seems largest for the second member of the household and for lone-parent families. In parallel to the effect of labour taxation on labour supply, taxes and social security contributions, to the extent they are reflected in higher labour costs will also decrease labour demand as costs increase.

\textsuperscript{12} See de Mooij and Nicodème (2006) for a discussion.

\textsuperscript{13} See Carone and Salomaki (2001) for a review.
Table (2): taxes in percentage of GDP in the EU-15.

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Table (2bis): taxes in percentage of GDP in the NMS-10.

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As documented in table (3), tax wedges on labour remain high in most countries, reaching 50% in several Member States. Looking at the size and components of the tax wedge, it can be seen that the lion's share (about 45%) of the total tax wedge is accounted for by employers' social security contributions, while the remaining is made up of personal income taxes (30%) and employee's social security contributions (25%). This situation contrasts with the US, for which the total tax wedge is about a third lower than in Europe and equally borne by personal income taxes and social security contributions14.

14 The possible consequences of a shift from social security contributions to general taxation are an issue of discussion. The traditional view is that all the components of the tax wedge on labour cost, that is personal income tax, employers' and employees' social security contributions and consumption taxes, have the same impact on wages (the so-called Invariance of Incidence Proposition), so that any change in the composition of the tax wedge (for any given level of tax wedge) does not affect labour costs and hence labour markets outcome. There is however a wide and increasing strand of the literature that shows that even revenue neutral shift of taxes on labour can alter the labour market outcome (see Rasmussen, 1997a, 1997b). With reference to the degree of shift of social security contributions on wages, it is worth stressing that this is not only a function of the real wage downward or upward rigidity and the bargaining power of wage earners, but it is also a function of the degree to which workers value the benefits linked to the payment of social security contributions. If workers take into account the benefits that they are buying with their payroll taxes - i.e. they consider the reduction of their after tax wage as counterpart of the financing of an insurance - any change (increase) in the payroll tax will lead to a lower change (increase) in wages, a smaller change in compensation costs and, thus, a lower impact on employment. For example, in countries where the pension system is characterized by a close link between benefits and contributions (so-called "Bismarckian" systems), pension contributions are a form of mandatory saving, and people may not regard them as a tax, unless and to the extent that they are higher than would be required to obtain the same amount of retirement income by other means (see Cigno, 2006). Thus, by enabling

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Table (3) Total tax wedge on labour.

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Source: OECD, Taxing wages report. * GDP-weighted average for those countries above. From January 2005, Slovak Republic has introduced the fully funded pillar. Under this system, 9 percentage point of the social security contributions paid by the employer to the pension insurance go directly to pension funds and not to the social insurance company as previously. The pension funds are treated outside of the general government so that these contributions are not accounted for in the OECD calculations. Hence, the 2005 employers' social security contributions are assumed to be 26.2% (OECD, taxing wages report).
Member States have carried out many reforms, with a majority of them paying particular attention to the reduction of taxes on labour for low-skilled workers and making work pay. The reductions in personal income taxes and social security contributions have often been accompanied by increases in tax allowances. In 2005, the GDP-weighted personal income taxes in the EU-27 were at 9.2% of GDP, the same level as 1995. In the same period, social security contributions paid by employers decreased from 7.5% to 7.3% of GDP and those paid by employees declined from 4.7% to 4.0% of GDP. The total decline in taxation of labour corresponds therefore to about slightly more than 1% of GDP\textsuperscript{15}.

\textit{Figure (9): Evolution of the components of labour taxation in \% GDP 1995-2004.}

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{chart.png}
\caption{Evolution of the components of labour taxation in \% GDP 1995-2004.}
\end{figure}


3.2. Tax simplification and tax-cuts-cum-base-widening tax reforms.

Recently, Member States have shown a trend towards simplifying their tax systems. In the absence of comprehensive tax reforms, targeted tax reforms may have accumulated and rendered the system very complicated with sometimes measures with conflicting effects. Tax systems are frequently used to provide a favourable treatment to specific tax-payers or activities. These special provisions are called 'tax expenditures' and can take various forms\textsuperscript{16}. Governments may provide exemptions for certain types of income. They can also take the form of deductions from taxable income, tax credits, and special rates relief, accounting conventions or deferral possibilities. Such tax expenditures are not always easy to detect or quantify but they are considered to be sizeable. They are a substitute for direct cash or in-kind public expenses and can be a powerful instrument to encourage certain types of behaviour that are deemed desirable by tax authorities. Examples include encouraging home-ownership, supporting private gifts to charities, pushing for energy-saving investment, or trying to raise maternity rates. Going through the tax system may be a good idea if this requires less marginal administrative costs compared to setting up new specific programs. However, the experience with tax expenditures calls for caution. Tax expenditures may sometimes induce individuals to see more clearly the link between the contributions and benefits, one can reduce any adverse incentive effects arising from a failure to see the link\textsuperscript{17}. To sum up, if workers value the benefits that they are buying with their payroll taxes, the impact of this change on the employment will be more limited, if any (see Arpaia and Carone, 2004).

\textsuperscript{15} This is of course a broad estimate that does not control for the economic cycle, nor for the share of wages in the economy. The analysis per country does not reveal strong correlations between the components, except a negative one between social security contributions of employers and of employees.


15
effects that are in opposition to the intended ones\textsuperscript{17} and they in addition may distort the features of income tax systems. Deductibility is indeed often done at the highest marginal income tax rate, meaning that high-revenues taxpayers benefit the most from those measures. This can dramatically reduce the effective progressivity of tax systems. In addition, they are subject to less public or parliamentary scrutiny than direct expenditures, which make them popular to lobbies, and they complicate the tax system. Their level is also more subject to cyclical and behavioural fluctuations than fixed direct expenditure\textsuperscript{18}. Finally, they narrow the tax base, which limits the scope for tax rates reductions and may decrease efficiency. Such tax expenditures shall therefore rather been used by parsimony and in well-defined situations\textsuperscript{19}.

A parallel trend has been to accompany the simplification of the tax system – allowing often for a widening of the tax base – with a reduction of marginal tax rates. For personal income taxes, one has observed a clear reduction in the number of tax brackets with a decrease in marginal tax rates either at the low-end or at the top-end, if not both. The base-widening-cum-tax-cuts strategy has obviously also been applied to corporate taxes for which statutory rates have declined and the tax base has widened – for a great deal thanks to the abolition of a multitude of special regime (sometimes within the framework of the code of conduct). Turning to international activities, we have seen above that the absence of a multilateral tax treaty or common rules in personal income taxation is an important hurdle to labour mobility in Europe. A similar problem applies with taxation of capital as studies show that exchange of information between tax authorities is not well-developed\textsuperscript{20}. There seem also to be large difficulties in VAT, despite the harmonization of the tax base and cooperation between tax authorities. A recent survey\textsuperscript{21} on 700 European companies stressed difficulties for repayment and refund of VAT, especially coping with procedures for refunds, such that an estimated 53.5\% of large companies have not requested refunding at some point. Finally, in the specific case of corporate income taxation, the difficulty to deal with 27 accounting and tax systems, the uncertainties in the treatment of transfer pricing as well as the general absence of cross-border loss relief are seen as a major tax obstacle to doing business on a pan-European basis.

An interesting case in the trends towards simplification is the flat tax which cumulates some of the arguments developed here above as its proponents see it as reducing the burden on labour and stimulating labour supply, reducing the tax on high-wage workers to avoid their move, and simplifying the tax system. Personal income tax systems in most developed countries have increasingly been perceived by public opinions as too complicated with many variables to account for and a high compliance cost. This perception also coincides with trends towards downsizing the role of governments. Hence, the belief that simple taxation is necessarily good taxation has emerged. The same drift believes that the existence of multiple tax brackets is itself a factor in the complexity of the tax systems while in fact this is the simplest part of the tax declaration and computation\textsuperscript{22}. Given this background, one form of taxation has naturally attracted a lot of attention over the last years: the flat tax. The flat tax

\textsuperscript{17} This can be for example the case in housing taxation where tax deductibility of mortgage interest and/or capital payments – a measure intended to help first-time owners – may simply translate into higher property prices.

\textsuperscript{18} Arguably, this may be a good thing if counter-cyclical.

\textsuperscript{19} Removing tax expenditure may however prove politically difficult because losers are large and concentrated while winners are dispersed.

\textsuperscript{20} See Keen and Ligthart (2005, 2006).

\textsuperscript{21} European Commission (2004).

\textsuperscript{22} Hagemann, Jones and Montador (1987, page 11). The authors note however that multiple rates provide incentives to smooth revenues between years and individuals, leading to necessary rules on income shifting, which may add complexity.
debate really started in 1983 following the release of Robert Hall and Alvin Rabushka’s book on flat tax. The debate was rather US-centred – given the complexity of the US tax code – and attracted publicity during the 1992 and 1996 US presidential campaigns. It regained vigour in the recent years in the EU with enlargement to countries that have adopted such a system. Most scholars date the beginning of the flat tax experiment in 1994 in Estonia, which introduced a single uniform rate of 26% on personal incomes. Actually, some dependent territories seem to have introduced such a system as soon as the 1940’s. Today, at least twenty-two countries (of which five current Member States) have introduced a flat tax, but the detailed provisions vary a lot across countries.23 Discussions on the flat tax have also occurred in many western European countries but in all countries, "a notable and troubling feature (...) is that it has been marked more by rhetoric and assertion than by analysis and evidence"24.

Table (4): Flat taxes on personal income in the world.

<table>
<thead>
<tr>
<th>Country</th>
<th>Flat Tax Rate</th>
<th>Year of introduction</th>
<th>Country</th>
<th>Flat Tax Rate</th>
<th>Year of introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jersey</td>
<td>20% (i)</td>
<td>1940</td>
<td>Iraq</td>
<td>15%</td>
<td>2004</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>16% (i)</td>
<td>1947</td>
<td>Slovak rep.</td>
<td>19% (vii)</td>
<td>2004</td>
</tr>
<tr>
<td>Guernsey</td>
<td>20% (i,iii)</td>
<td>1947</td>
<td>Georgia</td>
<td>12% (i)</td>
<td>2005</td>
</tr>
<tr>
<td>Jamaica</td>
<td>25%</td>
<td>1980</td>
<td>Romania</td>
<td>16%</td>
<td>2005</td>
</tr>
<tr>
<td>Bolivia</td>
<td>10% (vii)</td>
<td>1986</td>
<td>Kyrgyzstan</td>
<td>10%</td>
<td>2006</td>
</tr>
<tr>
<td>Estonia</td>
<td>26% (v)</td>
<td>1994</td>
<td>Paraguay</td>
<td>10% (vii)</td>
<td>2006</td>
</tr>
<tr>
<td>Lithuania</td>
<td>33% (viii)</td>
<td>1994</td>
<td>Macedonia</td>
<td>12% (viii)</td>
<td>2007</td>
</tr>
<tr>
<td>Latvia</td>
<td>25% (vii)</td>
<td>1995</td>
<td>Iceland</td>
<td>35.73% (xiii)</td>
<td>2007</td>
</tr>
<tr>
<td>Russia</td>
<td>13% (viii)</td>
<td>2001</td>
<td>Mongolia</td>
<td>10%</td>
<td>2007</td>
</tr>
<tr>
<td>Serbia</td>
<td>14% (viii)</td>
<td>2003</td>
<td>Mauritius</td>
<td>15%</td>
<td>2009</td>
</tr>
<tr>
<td>Ukraine</td>
<td>13% (xvi)</td>
<td>2004</td>
<td>Tonga</td>
<td>10% (v)</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

Source: Rabushka (2007), The Economist (2005), Teather (2005), Grecu (2004), Bird (1992). Tax rates at the time of introduction. (i) Applied to personal and corporate incomes for both Jersey and Guernsey. None have VAT. The channels islands do not tax dividends, interest or capital gains. (ii) Taxpayers have the choice between being taxed at a 16% flat tax or under a progressive tax system with marginal tax rates ranging from 2 to 20%. Hong Kong does not tax dividends, wealth, and capital gains and has no VAT, sales tax or payroll tax. (iii) Capped at £250,000, making it therefore regressive as soon as revenues reach £1,250,000. From 2007, the corporate tax rate is reduced to zero. (iv) 15% since 1992. The tax base is all income (wages, salaries, rentals, interest, royalties, etc.), except foreign-income and capital gains which remain tax-free. There is also a general allowance equivalent to two (previously four) monthly minimum wages (this minimum wage is about Bs 240 or USD 45). The system is designed to fight VAT fraud, so that individuals can offset against this tax the VAT paid, provided they have invoices or receipts. (v) Reduced to 24% in 2005, 23% in 2006, 21% in 2007, 20% in 2008. Estonia has a zero corporate tax rate on retained earnings but taxes distribution (mainly dividends) at 21%. This is accompanied by a general non-deductibility of interest payments. (vi) Both Lithuania and Latvia’s corporate tax rates are set at 15% in 2007. (vii) Accompanied by a 24% corporate tax rate. (viii) On both corporate and personal incomes. (ix) 15% since 2007. (x) With no basic allowance. (xi) VAT paid is tax deductible. (xii) 10% from 2008. (xiii) Corporate tax rate is at 18% and capital income taxed at 10% under a Dual Income Tax System. (xiv) Above 2,500 USD. The date of implementation is unknown. The following countries have no tax on personal income: Andorra, the Bahamas, Bahrain, Bermuda, Burundi, Cayman Islands, Kuwait, Monaco, Nigeria, Oman, Qatar, Saudi Arabia, Somalia, United Arab Emirates, Uruguay and Vanuatu.

Flat taxes seem particularly attractive because their proponents propose low levels of tax rates. However, one problem with this is that the low rates are not by themselves a characteristic of the flat tax. Another argument is that flat taxes are attractive because they are transparent and easy to administrate. Transparency is indeed an interesting feature of the flat tax, notably because each worker knows about its marginal tax rate (something more difficult to assess in a progressive tax system). It shall be nevertheless said that because social security contributions continue to be non-proportional due to ceilings or progressivity, and because

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23 See Nicodème (2007b) for a review. Note that no country has adopted anything close to the original pure form of the Hall and Rabushka proposal which combined a cash-flow tax on business income with a single marginal tax rate on personal income. Both taxed at the same rate. In this system, real investments are immediately expensed (that is depreciation is 100% in the first year) while financial investments are exempted. This proposal is essentially an expenditure tax.

these contributions have generally gained importance in countries having adopted a flat tax structure, effective taxation on labour is far from being flat in practice. Flat taxes are also easy to administrate because they are usually accompanied by a removal of most (complex) tax deductions from the tax base to replace them with a general tax allowance. However, it is difficult to quantify the exact saving by tax administrations and the few studies available so far tend to give unrealistically high estimates.

Proponents of the flat tax also claim that it raises more tax revenues, because of an alleged Laffer curve effect. It is indeed true that tax revenues have increased in some countries after the flat tax has been introduced - albeit not in all of them – but research has not found Laffer effects or sizeable labour supply effects. It seems that a large part of the outcome was due to the fact that the introduction of the flat tax was generally accompanied by stricter rules to combat tax fraud and improve compliance. It is therefore far from being clear-cut whether these positive results can be reproduced in all countries, especially those with allegedly lower tax fraud. Next, reforms towards flat taxes are not neutral in terms of redistribution. These effects obviously depend on the details of each single proposal. However, flat tax reforms tend to favour the lower-end and top-end classes of revenues whilst increasing the tax burden on the middle-class.

At the end of the day, the choice of whether adopting a flat tax relates to the degree of redistribution that shall be achieved by taxation, the choice of how to tax capital and labour and the desired equity-efficiency trade-off. For some of the EU Member States, the level of revenues currently collected by the personal income tax is relatively high so that the flat tax system would have to apply a relatively high rate and a small allowance to be revenue-neutral. This is not necessarily a benign scenario, especially in terms of redistribution.

4. The challenges ahead.

4.1. The consequences of ageing and globalisation.

The demographic transition and ageing population in the EU raises many challenges and issues in terms of the structure of taxation. The economic impact of ageing will be severe and diverse: productivity will become the predominant source of growth because of a shrinking working-age population leading (with unchanged policies) to a fall in potential growth rates. A key challenge will be to develop labour market policies and reforms in the tax and benefit systems aimed at increasing labour supply and further reforms of the welfare state that guarantee the long-term sustainability of public finances in the face of these demographic developments. What seems a likely development for the future is that the financing of the welfare state may have to rely less on labour taxes and, in case of a decline in savings arising

25 Keen, Kim and Varsano (2006), page 5. In particular, if social security contributions are taken into account.
27 In a recent study for Germany, Fuest, Peichl, and Schaefer (2007) use micro data to analyse the effects of a revenue-neutral flat tax on the German economy. They found that all scenarios - combining a flat rate and an allowance - yield an increase in inequality and redistribution in favour of the highest incomes. In most scenarios, the middle-class is the main loser and the poorest also somewhat loose. In terms of efficiency, all scenarios lead to a decrease in labour supply, the more so with lower marginal rates and smaller allowance. Finally, in terms of welfare, scenarios with high rates and high allowances lead to large decrease in welfare while those with low rates and allowances lead to small welfare gains but concentrated mainly in the highest decile.
28 See Carone et al. (2005) and European Commission –EPC (2005) for a review.
from demographic transition, also less tax revenues from savings (although the net effect will also depend on interest rates).

Taxes are used to finance public expenditure, among which social spending represents a sizeable share. In 2003, gross average social protection expenditure accounted for 28% of GDP in the EU-25\(^{29}\). The major share of it related to old age and survivors' benefits. This share was at 45.7% of the total on average but reached more than 50% in several Member States. In addition, expenditure on sickness and health care and on disability represented the second and third sources of social expenditure in the EU-25 with respectively 28.3% and 8.0% of the total. The coming challenge of ageing is likely to increase the need for these categories of social spending and to decrease the labour tax base\(^{30}\). Empirical studies\(^{31}\) suggest a negative correlation between the dependency ratio and both tax rates and the generosity of social transfers. They also suggest that the tax-contribution rates that would balance social security systems in the future are much higher than current statutory rates\(^{32}\). This therefore calls for reforms now as to avoid larger pains in the future.

Another point of concern for tax authorities is the potential effects of globalisation and tax competition that could force them to shift the tax burden from (geographically) mobile to immobile tax bases. The impact of tax competition has been the focus of a sizeable amount of academic research\(^{33}\), especially in relation to corporate taxation. As we have seen above, statutory corporate tax rates in Europe have fallen considerably during the last 25 years and this decline in corporate tax rates has induced fears of a race-to-the-bottom in the European Union. This could ultimately erode corporate tax revenues and impose a threat to the financing of the European welfare states.

One important question is of course whether the decline in corporate tax rates is the result of tax competition and whether there is a "race to the bottom". Several authors have tried to estimate whether jurisdictions of various natures were setting taxes in an interdependent fashion. Many studies found some form of interaction, although the choice of tax indicators is extremely important\(^{34}\). In addition, even if accepting that there are tax setting interactions, there is uncertainty in the literature about the reason behind these interactions, that is, whether it is the result of tax competition to attract mobile tax bases, treasury effects\(^{35}\), yardstick tax competition in which countries try to mimic each other’s tax policy or simply convergence across countries in economic structures and/or dominant economic thinking. Indeed, despite the reduction in corporate tax rates, corporate tax revenues have maintained remarkably stable and actually increased somewhat during the last decade.

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\(^{29}\) See Eurostat (2006).

\(^{30}\) On the revenue side, the main sources of funding of social protection are social contributions with 60% and general government contributions derived from taxes at 37% in 2003 (Eurostat, 2006). The share of social contributions in the total receipts for funding social protection has declined over time, although remaining the main source, and general government contributions have increased in proportion.


\(^{32}\) Razin, Sadka and Woon Hang (2005).

\(^{33}\) See Nicodème (2007a) for a recent review with a focus on the European Union.

\(^{34}\) Using tax collected in percentage of the tax base or of GDP does not show any interactions for example.

\(^{35}\) Member States that host many foreign subsidiaries from countries applying a tax credit system have an incentive to closely follow the tax setting from those countries. This is because the tax ultimately paid by the parent will be its domestic tax, irrelevant of the tax rate applied in the country of the subsidiary (to the extent that the dividend is repatriated and that the foreign tax does not exceed the domestic tax liability).
Apparently, the corporate tax base has broadened, which made up for the revenue losses from rate reductions. However, several studies suggest that base broadening is unlikely to have been sufficient to make up for the ex-ante revenue losses from rate reduction. An increase in the profitability of companies has been another candidate for (partially) explaining this puzzle. The problem is that measures do not univocally show a large increase in profitability. Finally, some studies point to the possibility that falling corporate tax rates and a widening of the gap between personal income and corporate income taxes have created incentives for entrepreneurs to incorporate. This is important because it means that one possible effect of corporate tax competition is to shift some tax revenues from the personal income to the corporate income.

The mobility of capital can also take various forms, which render the analysis of a potential shift even more complicated. Usually, it is thought through the relocation or the development of real activities. For example, the median value of the semi-elasticity of tax to FDI shows that an increase in the tax rate by one percentage-point will reduce FDI inflows by 2.9%. Several other studies also show that taxation has an impact on location decision. Furthermore, recent research has shown that profit-shifting activities in the form of transfer pricing or debt-shifting were sizeable. All this suggests that the mobility of capital may erode some tax bases, whether the capital one or even the labour tax base. The mobility of labour is even more complex to study. In recent years, there has been an increasing amount of special regimes for expatriates and wealthy workers. The general view however remains that taxation is a major obstacle to labour mobility alongside difficulties in social security and pension portability. The general recommendation of the OECD is that workers shall be taxed in the country where they spend 183 days a year. This rule does not apply however to the increasing

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36 See de Mooij and Nicodème (2006).
37 De Mooij and Everdeen (2006)
38 For example, Devereux and Griffith (1998).
number of workers who are sent across Europe for short-term missions as they may end up spending less than 183 days in any of the countries. They then have to refer to all bilateral tax treaties. This creates a lot of uncertainty and risks of no or double taxation, especially since the rules may differ across tax treaties and not all Member States has a tax treaty with all the others. The absence of a multilateral tax treaty or common rules is an important hurdle to labour mobility in Europe.

The analysis of a possible tax shift from mobile to immobile tax bases is complex because the effects can take various forms. A more formal analysis by way of regressing the changes in the ratio of labour taxes in percentage of GDP on the changes in the ratio of capital taxes in percentage of GDP does not bring statistically significant results. Figures (5) and (6) above, respectively showing capital and labour in percentage of GDP and in percentage of their own tax base does not suggest either that a major shift may have occurred. More in-depth analysis may however be needed. It is possible for example that the distinction between capital and labour as representing mobile and immobile tax bases is ill-defined and that the analysis shall have to distinguish between mobile and immobile categories in both capital and labour factors.

More in-depth studies show that notwithstanding increasing integration and globalisation, there is still room for independent economic policies and that the views that globalisation has altered the composition of government expenditures and reduced its financing are not fully supported by empirical analysis. Several explanations have been put forward. First, the share of mobile activities in total taxes is still relatively small. Second, globalisation may equally increase profitability and hence tax revenues, for any given tax rate. Third, on the expenditure side, globalisation may increase the need for more social spending.

In conclusion, globalisation and ageing have raised the issue of the financing of the European Social Model(s). Ageing will put more pressure on public spending and on some categories of tax revenues. At the same time, globalisation may render it increasingly difficult to collect taxes from mobile tax bases. The need for financing may well lead to a need to increase tax rates. There is therefore a need to find alternative means of financing by ways of robust tax revenues. This may well request a more efficient tax structure that is broad, simple, non-fraud prone, and that allows Member States to pursue their objectives in term of equity and efficiency. The next section reviews several options.

4.2. The quest for alternative tax bases.

Various options for alternative tax bases are under discussion. Some of the main one concern a shift from low-income to high-income workers, a shift from labour to capital, an increasing use of environmental taxes, or greater reliance on immovable property or consumption as a tax base. Ideally, the new tax base shall be wide to be able to impose a low tax rate and minimize distortions, as well as stable as to ensure certainty in revenue collection.

Some countries, starting from Scandinavian countries in the early 1990s, have introduced a dual income tax system that tax personal capital income at low and proportional tax rates while keeping higher and progressive tax rates on labour income. One of the objectives of such a move has been to reduce the incentives for capital exports and tax avoidance and evasion.

Another change has been to reduce the tax burden on low-income. To guarantee the same amount of revenues, higher rates may be applied to high-income groups. According to some scholars, if the labour market is imperfectly competitive, increasing tax progressivity

41 Reforms on the expenditure side are of course an important part of the policy.
will have a positive effect on employment because it stimulates wage moderation. Alternatively, if the labour market is competitive, such an increase will have a negative effect on employment because of the substitution effect from consumption to leisure. The overall effect ultimately depends on the respective wage elasticities of low-paid and high-paid workers. To the extent that it is much higher for workers at the low-end, an increase in progressivity may both increase employment and reduce the overall excess burden of the tax. There is however a growing constraint to this. The international mobility of skilled workers and the possibility to change the "label" of labour income (especially for self-employed) to capital income puts a limit to top marginal personal income tax rates.

The debate has also revolved around the possibility of shifting the tax burden from labour to capital. Such a shift has been popular among some policy-makers because there is a perception that globalisation was shifting the tax burden the other way around and that some correcting measures would be politically desirable. Such move has not really happened so far because it faces two major constraints. First, the capital tax base is smaller than the labour tax base and would therefore require a much higher tax rate to be revenue-neutral, probably leading to big distortions. Second and foremost, capital is much more mobile and this creates difficulties to enforce taxation in the absence of international coordination. In addition, economic theory shows that the burden of taxing the mobile tax base (capital) ultimately falls on the immobile factors (labour and land) because, in the absence of location-specific rents, the emigration of the mobile factor lowers the productivity of the immobile ones. It will reduce domestic immobile factors incomes by more than the amount of the tax collected from the mobile factor and it would therefore be better to directly tax those immobile factors - especially because, by doing this, one avoids the additional tax distortion on the immobile factor.

An interesting alternative tax base is a tax on polluting activities. Environmental taxes are a classic case for applying Pigouvian taxation that discourages the consumption of demerit goods or "bads". A lot of ideas have been launched recently, especially as the debate on the need to act against global warming is heating up. For example, car taxation will be based to a large extent in the future on their emissions. Some proposals have also been made to modulate property taxes with the degree of insulation of the habitation or to tax products based on the pollution created by their fabrication process. It seems however that despite some remarkable exceptions, going from rhetoric to practice has proven hard in most Member States. Over the last ten years, the EU-25 GDP-weighted average level of environmental taxation has declined from 2.8% of GDP to 2.6%. It is true that a sizeable amount of environmental non-tax instruments of command and control exist and that, in theory, an efficient green tax is one that deters polluting activities instead of collecting revenues (that is that the amount of the tax is optimally set at the level that internalises the externalities). However, the pessimistic view is that the low collection results rather from the fact that environmental taxes are not widely used.

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42 Razin and Sadka (1991). Note that the incidence of a tax on savings can be different than the incidence of a tax on investment, especially if countries are price-taker. The same goes for the tax elasticity of FDI and of savings, which could be different and differ. One shall therefore qualify the type of capital that is considered.

43 Environmental taxes fall into three main categories defined by the European Commission (2006): those on the use of energy, those on the use of transport, and those on polluting activities with 2.1%, 0.6% and 0.1% of GDP respectively for the EU-25 GDP-weighted 1995-2004 average.
Next, taxes on immovable properties (real estate) could be an alternative instrument to raise additional revenues because they are difficult to relocate. The share of taxes on immovable properties in total taxes remains low in most Member States at between 1 and 3%\(^{44}\). One specific problem of property taxation is that, to favour home-ownership, some Member States are offering deductions of interest and/or capital payments to the personal income tax base. Those reductions have potential perverse effects as they may simply increase demand and prices\(^{45}\). Alternatively, registration taxes on properties create a sunk cost and may reduce the liquidity of the asset, with adverse consequences on the mobility of labour. Taxes on real estate also carry two additional problems. First, the tax is generally local in many Member States so that an increase of this type of taxes to finance a reduction in labour taxes may require institutional arrangements. Second, the valuation of the tax base differs a lot across countries and may not well reflect the benefits, in particular because many countries apply outdated values.

Finally, a widely-discussed alternative would be to shift the tax burden from labour to consumption. The choice between taxing consumption or income has been the focus of a large amount of theoretical and empirical research. Both types of taxes discourage work by leaving leisure untaxed. However, consumption taxes treat current and future consumption in the same way while income taxes impose a higher burden on future consumption, discouraging savings. The intuition behind this result is that under a consumption tax\(^{46}\), savings can be accumulated tax-free. This can increase investment, raise the capital stock, and boost

\(^{44}\) Own calculations based on OECD (2005b).

\(^{45}\) Another problem is that in some cases these deductions are offered at the highest marginal tax rate of individuals, they reduce the progressivity of the tax system.

\(^{46}\) Consumption taxes have many names: expenditure tax, consumed-income tax, cash-flow tax. In addition, they can be applied to both individuals and businesses. The 'Haig-Simons' definition of income is the sum of consumption and (positive) changes in wealth. An expenditure tax will mimic consumption by taxing income and the decrease in wealth.
productivity and the size of the economy\textsuperscript{47}. The tax can be indirect (possibly with differentiated tax rates) and applied to commodities, or it could be direct and applied on expenditure. In this latter case, the tax base is the income minus the savings. Taxing consumption rather than income is also often seen by policy-makers as positive because it applies to a larger tax base, which shall allow a lower tax rate and hence reduces distortions. Although theoretically the tax base for consumption shall be smaller than the one for income (because consumption taxes, unlike income taxes, leave savings untaxed), multiple exemptions for taxation of income may make the base larger in practice\textsuperscript{48}. Next, Consumption taxes may also allow taxing elements that may be hidden from the income tax declaration. Consumption taxes are however not exempt of fraud either. Finally, consumption taxes also solve some of the inequities linked with the timing of income collection. Under a classical progressive income tax, receiving revenues on one single occasion will push the taxpayer into higher marginal tax rates compared to a taxpayer that earns the same amount but over several periods. One shall note however that this argument holds only if the consumption tax is proportional and the income tax progressive, two conditions that may not hold in practice.

The main objection against consumption taxes is that they are seen as regressive, falling more heavily on those with lower incomes. This can be true if the ratio of consumption to income falls with higher incomes and if there is a decreasing marginal utility of revenues. One counter-argument however is that consumption taxes can be made progressive. Such a system would be similar to those on income taxes in the case of an expenditure tax and differentiated tax rates or with a system of allowances in the case of commodity taxation. In practice, many countries apply low VAT rates on goods considered as basic needs, although the theoretical case for using commodity taxation for redistribution purposes is far from obvious in the economic literature (Atkinson and Stiglitz, 1976). Another objection is that (commodity) consumption taxes may be less visible because the consumer pays little by little over his/her consumption patterns and he/she may also not notice the tax if prices are shown tax-included. This lower visibility may increase acceptance.

In practice, countries do not necessarily face a choice between consumption and income taxes as many of them have both. In addition, most consumption taxes and income taxes depart from their standard models and are actually hybrid systems. There is widespread feeling that countries have increasingly relied on consumption taxes over the last decade, although the figures do not necessarily suggest substantial changes\textsuperscript{49}. A dramatic move from income to consumption taxes – possibly to finance the welfare state – would carry important transition problems, not the least the problem of the retired generation who would then have paid high taxes on their income when active and now face high taxes on their consumption once retired.

5. Conclusions.

Over the last few years, we have witnessed a certain stabilisation in the overall tax burden. This follows many years of increasing tax burdens in most Member States, reflecting increasing public expenditures. More recently, overall levels of expenditure have started to be

\textsuperscript{47} Internal simulations within the European Commission suggest that the long-run GDP and employment effects of a standardised 1% of GDP shift from wage to VAT are both about 0.14% if benefits are exogenous and about 0.07% if benefits are indexed to consumer prices.

\textsuperscript{48} In the EU, the tax base for consumption taxes is approximately a third higher than the tax base for labour (i.e. total amount of gross compensation per employee).

\textsuperscript{49} The EU-27 GDP-weighted average indirect taxes to total taxes ratio has increased from 33.8% to 35.0% between 1995 and 2005. The same ratio for VAT (a sub-category of indirect taxes) moved from 16.8% to 17.5%.
reduced in an effort to consolidate public finances, followed to some extent by some reduction in revenues as a percentage of GDP since the peak in the late 1990s.

Member States have recently carried out major reforms of their tax systems and these reforms have been driven by several interrelated factors. First, the growing awareness that an excessive tax burden on labour and its interaction with the benefit systems lowers work incentives has led Member States to move towards a more employment-friendly labour taxation. Second, Member States have endeavoured to rationalise and simplify their tax systems, almost always by broadening the tax base in order to reduce the tax rates. Finally, European Member States are facing two main challenges, globalisation and ageing, which have raised the issue of how the social models in the European countries should be financed. These latter challenges may impact both their need and their capacity to collect taxes. Ageing will increase some social spending while reducing the potential of some tax bases such as labour. Globalisation has the potential to increase the mobility of capital and of high-skilled workers, making it more difficult to rely on them as a source of revenues. The desire to shift tax away from labour and to make work pay while retaining the social models will force Member States to find alternative robust tax bases. This paper reviews the most recent trends in taxation in the European Union and discusses several tax policy issues in the light of the main challenges mentioned above.

The policy goal of pursuing further reductions in labour taxes, given notably the pressing need to complete the consolidation of public finance raises difficult political and practical issues. Against this background, revenue-neutral tax reforms deserve particular attention. This implies that Member States have to look for robust alternative tax bases to labour taxation to finance the welfare state. Ideally, new tax bases should be wide – so that a low tax rate can be imposed and distortions minimised – and stable – so as to ensure certainty in revenue collection. Several options are possible, ranging from an increasing use of environmental taxes, a greater reliance on real estate or a shift towards consumption as a tax base. All solutions present advantages and disadvantages, as well as practical constraints. This may also be why, in practice, shifts have so far been relatively limited.

References.


