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Taxation of Dividend, Interest, and Capital Gain Income

Michelle Harding

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ABSTRACT

This paper provides an overview of the differing ways in which capital income is taxed across the OECD. It provides an analytical framework which summarises the statutory tax treatment of dividend income, interest income and capital gains on shares and real property across the OECD, considering where appropriate the interaction of corporate and personal tax systems. It describes the different approaches to the tax treatment of these income types at progressive stages of taxation and concludes the discussion of each income type by summarising the different systems in diagrammatic form. For each income type, the paper presents worked calculations of the maximum combined statutory tax rates in each OECD country, under the tax treatment and rates applying as at 1 July 2012. These treatments and rates may have changed since this date and the paper should not be interpreted as reflecting the current taxation of capital income in OECD countries.

RÉSUMÉ

Ce document donne un aperçu des diverses formes d'imposition des revenus du capital dans les pays de l'OCDE. Il offre un cadre d'analyse qui résume le traitement fiscal légal des dividendes, des intérêts perçus et des plus-values réalisées sur les actions et sur les biens immobiliers dans les pays de l'OCDE, en tenant compte le cas échéant de l'interaction entre le régime de l'impôt sur les sociétés et celui de l'impôt sur le revenu des personnes physiques. Il décrit les différentes approches du traitement fiscal de ces types de revenu à différents niveaux du barème progressif et conclut l'analyse de chaque type de revenu par des diagrammes qui résument les différents systèmes existants. Pour chaque type de revenu, ce document présente des calculs élaborés des taux maximums d'imposition combinés en vigueur dans chaque pays de l'OCDE, en fonction du régime fiscal et des taux applicables au 1er juillet 2012. Ces régimes et taux ont peut-être été modifiés depuis cette date, de sorte que ce document ne reflète pas nécessairement la situation actuelle de la fiscalité des revenus du capital dans les pays de l'OCDE.

FOREWORD

The author thanks Delegates to Working Party No. 2 on Tax Policy Analysis and Tax Statistics of the Committee of Fiscal Affairs (CFA) of the OECD, and Delegates of the CFA itself, for their helpful comments on earlier drafts. It is related to the broader project on savings income being undertaken by the Secretariat's Centre for Tax Policy and Administration.The author is also grateful to Bert Brys for comments on previous versions of the paper, as well as to Violet Sochay and Michael Sharratt for help with preparing the paper for publication. The arguments employed and opinions expressed in this paper do not necessarily reflect the official views of the Organisation or of the governments of its member countries. The author is responsible for any remaining errors.

TAXATION OF DIVIDEND, INTEREST, AND CAPITAL GAIN INCOME

Michelle Harding[1]

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[1] Michelle Harding is a Tax Economist in the Tax Policy and Statistics Division at the OECD Centre for Tax Policy and Administration. Contact e-mail: michelle.harding@oecd.org.

1. Introduction

Purpose

Many individuals, especially employees and pensioners, do not generate capital income from their own business activity, but they may have capital income from holding funds in deposit accounts or bonds, or from the ownership of shares or real property. The tax systems applied to these forms of income differ within and across OECD countries according to the nature, timing and source of the revenue, and the income level and characteristics of the income-earner.

As a first step toward a comparative, descriptive analysis of the differing regimes for the taxation of capital income in OECD countries, this paper provides an analytical framework which summarises the different types of tax systems applied to three simple types of capital income earned by resident individuals in a domestic setting:

- Dividend income from ordinary shares;
- Interest income from cash deposits and government bonds; and
- Capital gains realised on real property and shares.

The paper uses this framework to describe the different types of tax systems that can apply to these types of income, noting those used in each OECD country and considering, where appropriate, the interaction between corporate and personal taxation. It calculates the maximum statutory combined tax burden on each income type: tracing the impact of different tax treatments from pre-tax income, through the relevant corporate and personal tax systems, to the post-tax income received by a representative individual. The descriptions of the different progressions are supplemented with diagrammatic and algebraic presentations and worked examples for each country.

The tax rates presented in this paper represent the maximum possible burden on capital income under the relevant tax systems and statutory rates, rather than the effective tax rates on these different income types. At the individual level, the paper assumes the taxpayer to pay the highest marginal rate of tax and does not consider personal circumstances, such as the existence of family tax credits, that may reduce effective income tax rates. At the corporate level, the impact of deductions or tax planning in reducing effective tax rates is also not considered. Two related OECD work streams will calculate effective tax rates on capital income: the first will consider effective tax rates on corporate income, including the impact of tax planning; and the second, effective tax rates on savings income at the individual level for a broader range of tax payers and savings opportunities than this paper.

The paper's descriptions and analysis are somewhat stylised in order to distil the main features of what are often complex tax regimes, but it provides an overview of:

- The differing ways in which dividends, interest and capital gains are taxed;
- How far the relative taxation of dividends, interest, and capital gains varies in each country and from country to country; and
- The differing ways in which so-called double taxation of dividends (and possibly, capital gains) at corporate and individual levels is attenuated.

Assumptions

The paper discusses income and gains received by individuals on savings placed directly in three types of representative assets:

- Equity in a domestic public quoted company;[2]
- Deposits in retail banking institutions and government bonds, where the return consists only of interest; and
- Residential property which has been rented to tenants.

Three types of capital income from these assets have been considered: dividend income from shares, interest income from deposits and bonds, and capital gains on shares and residential property. For each, the most basic form of the income type has been considered, as the tax treatment of these sets the foundation from which the tax treatment of more complex forms of the same type of income may vary. The rate of return is assumed to be 4%, which affects the tax rates shown for Belgium, Italy (for new equity only), the Netherlands, and Norway. The impact of varying rates of returns on the combined statutory rates in each of these countries is discussed more fully later in the report. The report considers taxes on the income from these assets but not taxes on the value of the investment (wealth taxes). Where wealth taxes exist, these would increase the tax burden on these assets.

The paper assumes that the investor is resident in the particular country and is not related to the source of income. The investor considered is assumed to pay the top rate of any progressive rate scale applicable.[3] Financial assets are assumed to be held outside tax-preferred accounts (such as pensions, retirement accounts or investment funds). As the importance of these accounts varies across countries, cross-country comparisons should be made with caution. The impact of inflation on the real amount of the post-tax return is described qualitatively, as are systems which index certain types of income for inflation, but is not taken into account in the calculation of the combined rates. Capital gains on shares are assumed to derive entirely from retained profits, whereas capital gains on property are assumed to derive from property that is directly held by the investor. Tax rates are current as of 1 July 2012.[4]

Information used in the analysis has been taken from data supplied by countries for the OECD Tax Database (in particular, Tables I.7, II.1 and II.4); returns to the questionnaire on the tax treatment of household savings; the IBFD Tax Database; consultations with member countries; and where necessary, country-specific source data.

Outline of paper

Section 2 of this paper discusses the taxation of dividend income at the corporate and shareholder levels; noting the method of integration between the two levels of taxation. Section 3 considers the tax treatment of interest income earned by individuals. Section 4 considers the tax treatment of capital gains on shares and on real property, including discussion of the integration of the corporate and personal taxation of shares; the applicable tax rates; and the impact of holding period tests on the tax treatment. At the conclusion of each section a diagram is presented which summarises the different tax treatments in OECD

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2 This is assumed to be a minority shareholding. For a summary of how tax rules change based on the proportion of ownership, see Annex C.

3 Across countries, the top rate will apply to different numbers of taxpayers depending on the position of the relevant threshold in the income distribution of each country. The proportion of taxpayers paying the top rate can therefore vary markedly between countries.

4 Tax rates in many countries will have changed since this date. See the OECD Tax Database for the most recently available information.

countries for that type of income. Section 5 concludes and sets out summary results for each of the income types across OECD countries.

Annex A provides further explanation of the diagrams used to summarise the tax treatment of each form of income. Annex B contains graphs for each country showing the different statutory tax rates on each form of income. Annex C provides a brief overview of how country tax rules for capital gains and dividends vary depending on the percentage of the company owned by a shareholder.

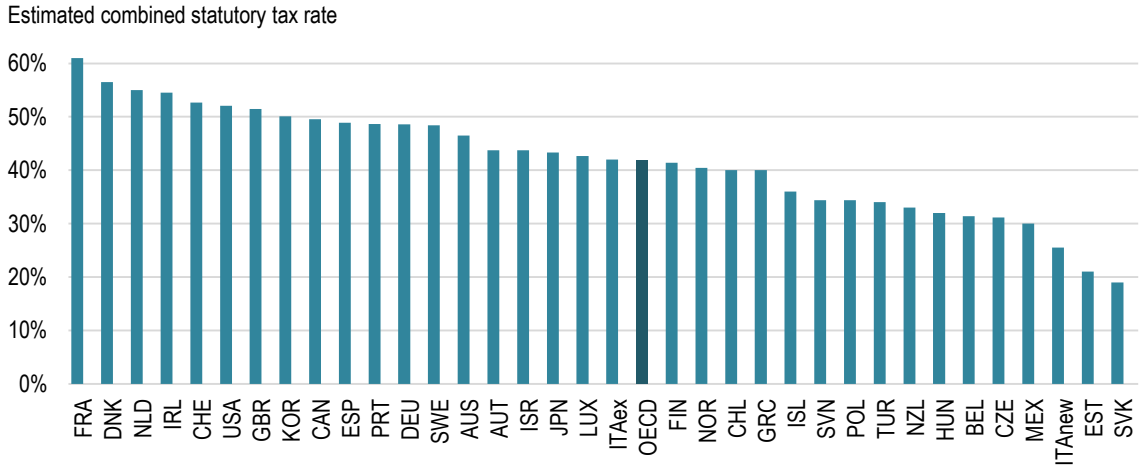
2. Dividend Income

The combined statutory tax rate on dividend income is a function of the tax systems and rates that apply at the corporate and individual levels and of the interaction between these two levels. Dividends are taxed firstly as corporate income and are then distributed to the shareholder where they may be taxed again as personal income. The integration between the amount of corporate tax paid and the tax paid at the individual level is thus a critical factor in determining the combined statutory tax rate on dividend income.[5] OECD countries use a range of approaches at the individual level to integrate corporate tax paid.

Overview of dividend taxation and combined statutory tax rates

The combined personal and corporate statutory tax rates on dividends in OECD countries range from 61% in France to 19% in the Slovak Republic, with an OECD simple average[6] of 41.8% as shown in Figure 1. Table 1 summarises the calculation of these figures (which is set out in full at Table 4), noting the different types of treatment applied in each. A schematic of the calculation is shown at Figure 6.

Figure 1: Combined statutory corporate and shareholder tax rates on dividends as at 1 July 2012[7]



5 For simplicity, this paper assumes that the statutory rate of corporate tax has been paid.

6 This average uses the combined tax rate for dividends from new equity in Italy, rather than from existing equity. If the combined tax rate on existing equity were used instead, the simple average combined tax rate across the OECD would be 42.3%.

7 Figure 1 shows the combined statutory tax rates calculated in Tables 1 and 4. ITAex shows the combined tax rate on existing equity; ITAnew shows the combined tax rate on new equity. The underlying assumptions are set out in the footnotes to Table 1.

Table 1: Tax payable on dividends at the corporate and individual level as at 1 July 2012[8]

Country	Treatment	Corporate tax payable	Taxable income to shareholder	Personal tax payable		Post-tax shareholder income	Combined statutory rate
				Final withholding	*Shareholder*		
Australia	IM	30.00	100.00		16.50	53.50	47%
Austria	FW	25.00	75.00	18.75		56.25	44%
Belgium	ACE	8.50	91.50	22.88		68.63	31%
Canada	IM*	26.14	101.93		23.41	50.45	50%
Chile	IM	20.00	100.00		20.00	60.00	40%
Czech Republic	FW	19.00	81.00	12.15		68.85	31%
Denmark	CL^	25.00	75.00		31.50	43.50	57%
Estonia	DD	21.00				79.00	21%
Finland[9]	PI	24.50	52.85		16.91	58.59	41%
France	FW	34.43	65.57	26.56		39.01	61%
Germany[10]	FW	30.18	69.83	18.42		51.41	49%
Greece	FW	20.00	80.00	20.00		60.00	40%
Hungary	FW	19.00	81.00	12.96		68.04	32%
Iceland	CL	20.00	80.00		16.00	64.00	36%
Ireland	CL	12.50	87.50		42.00	45.50	55%
Israel	CL^	25.00	75.00		18.75	56.25	44%
Italy (new equity)[11]	ACE	6.88	93.13	18.63		74.50	26%
Italy (old equity)	FW	27.50	72.50	14.50		58.00	42%
Japan	CL^	37.00	63.00		6.30	56.70	43%
Korea	IM*	24.20	84.14		25.91	49.89	50%
Luxembourg	PI	28.80	35.60		13.87	57.33	43%
Mexico	IM	30.00	100.00			70.00	30%
Netherlands	PR	25.00	100.00		30.00	45.00	55%
New Zealand	IM	28.00	100.00		5.00	67.00	33%
Norway	RRA	28.00	44.50		12.46	59.54	40%
Poland	FW	19.00	81.00	15.39		65.61	34%
Portugal	FW	31.50	68.50	17.13		51.38	49%
Slovak Republic	NT	19.00				81.00	19%
Slovenia	CL	18.00	82.00		16.40	65.60	34%
Spain	CL	30.00	70.00		18.90	51.10	49%
Sweden	CL	26.30	73.70		22.11	51.59	48%
Switzerland	CL	21.17	78.83		31.51	47.32	53%
Turkey	PI	20.00	40.00		14.00	66.00	34%
United Kingdom[12]	IM^	24.00	84.44		27.44	48.56	51%
United States[13]	CL^	39.10	60.90		12.97	47.93	52%

8 Table 1 shows worked calculations of the tax rates shown in Figure 1. Fuller details of the calculation are set out in Table 4. The assumed rate of return is 4%. The impact of other rates of return on the rates for Belgium, new equity in Italy, the Netherlands and Norway are shown in Figures 5 and 6.

9 In Finland, the shareholder tax rate is 32% for incomes exceeding EUR 50 000 and 30% for incomes under this amount.

10 The withholding rate applied for Germany includes the 25% withholding rate and the 1% solidarity surcharge.

11 For new equity, Italy applies an allowance for corporate equity at the corporate level and a final withholding tax at the individual level.

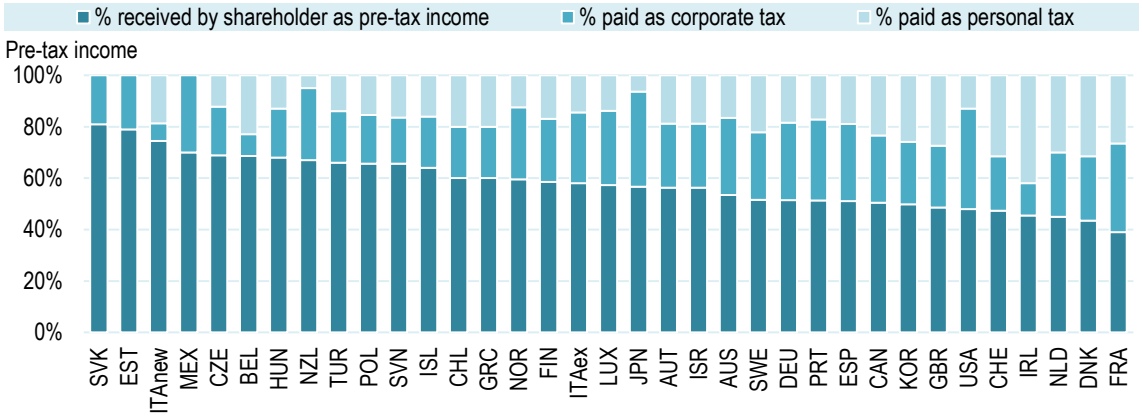
12 Tax rates on dividends and interest in the United Kingdom were reduced by 5% from 1 April 2013.

13 The analysis assumes that the Alternative Minimum Tax does not apply. Tax rates in the United States were changed as of 1 January 2013 under the American Taxpayer Relief Act of 2012. For a description of these changes, see OMB (2013) at p 175.

As dividends are taxed first at the corporate level and then at the personal level, the amount of pre-tax income earned can be split into three components: portion paid to the government as corporate tax, the portion paid in personal tax, and the portion received by the shareholder. Using the information shown in Table 1, Figure 2 shows this division for each OECD country. For example, in Sweden, 26.3% of pre-tax corporate income is paid in corporate taxes (the corporate tax rate *C*); 22.1% is paid in personal taxes (the shareholder tax rate on distributed income *S(1-C)*) and the remaining 51.6% is received by the shareholder as post-tax income.

For imputation systems, Figure 2 assumes, simply because of the order of progression in the framework proposed by this paper, that the full amount of corporate tax is paid and imputation or dividend tax credits offset personal tax. Equally, the figure could assume the imputation and dividend tax credits offset the amount of corporate tax paid and that the full amount of personal tax is payable. For countries where the rate of return is used in the calculation of tax payable (Belgium, Italy (new equity only) the Netherlands and Norway) the composition of the pre-tax return will differ depending on the rate of return assumed. The impact of different rates of return on the composition of pre-tax revenue in these countries is set out in Figures 4 and 5.

Figure 2: Composition of pre-tax dividend income (with tax rates as at 1 July 2012)



Corporate level treatment

The return on equity in the form of dividends is first subject to taxation at the corporate level as company profits, reducing the amount of the income distributed to the shareholder. OECD countries use three approaches to taxation at the corporate level: no corporate taxation, a standard corporate income tax, and allowing a deduction for corporate equity to be made against the corporate income tax.

No taxation

Among OECD countries, Estonia does not tax retained corporate profits under a corporate income tax regime, but instead applies a tax on distribution. At the shareholder level, the full amount of the distribution is treated as taxable income. The distribution tax is paid at the point of distribution and is therefore similar to a final withholding tax. No further tax is payable at the shareholder level on distributed income.

The distribution tax is shown in Figure 6 as a tax at the individual level given that it is linked more directly to distributed income than to company income. Shareholders receive pre-tax corporate income, *A*, less the amount of distribution tax paid, *D*, at the corporate level. The amount of tax paid is *DA* and the combined tax rate, relative to pre-tax corporate income, is the amount of distribution tax, *D*.

Taxation at the corporate level

Most OECD countries tax net corporate income at the corporate level under a corporate income tax regime. For these systems, the amount of corporate tax payable is shown in the fourth column of Figure 6 as the applicable corporate tax rate, *C*, multiplied by pre-tax corporate income *A*. Post-tax corporate profit, available for distribution to shareholders or for reinvestment into the company, is shown on Figure 6 in the fifth column as *A(1-C)*. This formula also can be written as *A-AC*: the initial amount of pre-tax corporate income, *A*, less corporate tax paid on that income, *CA*.

A(1-C) forms the basis for the taxable income at the shareholder level in all but three countries: Estonia, discussed above; the Slovak Republic, where no tax is payable at the individual level; and the Netherlands, where the amount of taxable income is a deemed return on the shareholder's equity.

Allowance for corporate equity treatment

A variant on the corporate income tax is the allowance for corporate equity (ACE) used in Belgium, and from 2012, for new equity in Italy. Under this approach, corporations may make a deduction against corporate tax based on the level of corporate equity. The rate of the allowance is intended to approximate the risk-free return on equity and thus to exempt the risk-free return from corporate taxation – equivalent to a cash-flow tax at the corporate level. If pre-tax corporate profit is equal to the risk-free return on corporate equity, this system eliminates double taxation.

In Figure 6, corporate equity is shown as *E* in the first column. The allowable deduction is shown as *ZE* (see the second column of Figure 6), where *Z* is the prescribed risk-free rate of return on equity. The allowance for corporate equity is offset against the corporate tax liability, which reduces the tax payable at the corporate level from *CA* to *C(A-ZE)*. The post-tax corporate profit available for distribution is the company's pre-tax profits, reduced by tax paid on extra-normal returns.

The impact of the ACE system on post-tax corporate profits is shown in the fifth column of Figure 6 as *A-C(A-ZE)*. When expanded, this becomes *A-CA+CZE*. The difference between a standard corporate income tax and a system which allows a deduction for corporate equity is seen in the final term, *CZE:* an allowance for corporate equity reduces tax paid on pre-tax corporate profits, relative to standard corporate taxation, by an amount equal to the corporate tax rate multiplied by the allowance for corporate equity.

Other options to integrate personal and corporate tax at the corporate level

Although not currently used in OECD countries, other options exist at the corporate level to integrate corporate and personal tax systems. Companies could be permitted to make deductions for distributed income, allowing corporate tax paid on dividends to be recovered by the company and, in effect, distributed dividends to be made from pre-tax income. If shown on Figure 6, post-tax corporate profits under this system would be equal to *A*. A split-rate system could also be used, where distributed profits would be taxed at a lower rate at the corporate level than retained profits. Under a split-rate system, distributed profits would be equal to corporate profits reduced by the lower tax rate: *A(1-C^)*. The reduction in corporate tax paid, relative to a standard corporate tax, would be *(1-S)(C-C^)*.

Individual level treatment

After taxation at the corporate level, post-tax corporate profits can be distributed to the shareholder or reinvested. If distributed, the combined tax rate will be determined by two aspects of the tax treatment at the individual level: the amount of distributed income that is treated as taxable to the shareholder and the rate applied.

Amount of distributed income treated as taxable shareholder income

The starting point to determine the amount of taxable income to the shareholder in most OECD systems is the amount of post-tax corporate income received. With the exception of the Slovak Republic and the Netherlands,[14] all OECD countries base the amount of taxable income at the shareholder level on the amount of post-tax corporate income distributed to the shareholder, by treating all or part of the distributed as taxable to the shareholder, or by grossing-up the amount of the distribution to approximate pre-tax corporate income.

Full inclusion

Most commonly, the full amount of the distribution is treated as taxable income at the shareholder level, although in many countries a small fixed amount may be exempt from taxation. Austria, Belgium, the Czech Republic, Denmark, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Poland, Portugal, Slovenia, Spain, Sweden, Switzerland, and the United States treat distributed post-tax corporate income as taxable to the shareholder and tax the distribution under the relevant personal income tax rates. These rates and the mechanisms of taxation applied are discussed further below.

The amount of taxable income at the shareholder level in these countries is therefore *A(1-C)*, with the exception of Belgium and for new equity in Italy, where taxable income to the shareholder is the full amount of post-tax corporate income (including the allowance for corporate equity): *A-C(A-ZE)*.

Partial inclusion

A second approach is to exempt part of the distribution from taxation at the individual level. Finland, Luxembourg and Turkey include only a proportion of the distribution as taxable income to the shareholder, reducing the combined tax rate on dividend income relative to full inclusion. Table 2 sets out the amount of post-tax corporate income included as taxable income at the shareholder level in these countries, as well as the impact of partial inclusion in reducing the combined tax rate on dividend income relative to full inclusion.

Table 2: Partial inclusion and impact on combined tax rates

	Proportion treated as taxable income	Combined tax rate with partial inclusion	Combined tax rate if full distribution was taxable
Finland	70%	41%	49%
Luxembourg	50%	43%	57%
Turkey	50%	34%	48%

The proportion of post-tax corporate profits that is taxable to the shareholder is denoted by *XA(1-C)* on Figure 6, where *X* is the proportion of the profits included in the shareholder's tax base. The tax paid under this type of system is the amount of corporate tax paid, *CA*, plus the additional tax payable at the shareholder level *SXA(1-C)*. The combined tax rate on dividend income is therefore *C+SX(1-C)*.

Partial inclusion of post-tax corporate profits is equivalent to lowering the rate of tax applying to dividends at the shareholder level by the same proportion. It reduces the double-tax element inherent under a classical system by *S(1-C)(1-X))*, as it lowers the tax rate applied at the shareholder level by the proportion excluded, *X*.

[14] The Slovak Republic does not apply further taxation at the individual level. The Netherlands calculates taxable income to the individual based on a presumptive return, independent of the amount of dividend income received.

A variant of partial inclusion is used in Norway. In Norway, shareholders are allowed a shielding deduction which reduces their taxable dividend income. This shielding deduction is calculated based on the cost price of the shareholding and a set rate of interest. Similar to the allowance for corporate equity, this deduction is equivalent to an individual level cash-flow tax. The allowance for shareholder equity system exempts the normal return on equity from taxation at the shareholder level and reduces double taxation.

The rate of return allowance in Norway reduces the combined tax rates on dividend income, relative to full inclusion, by the amount of shareholder tax multiplied by the allowance for shareholder equity, divided by pre-tax corporate income. The taxable income base to the shareholder is post-tax corporate profits, less an allowance for the normal rate of return and can be expressed as $A(1-C)-RO$. This amount cannot be below zero and any unused proportion of an allowance is carried forward to apply to future income from the same source. If the amount of distributed corporate profits is less than the allowance (i.e. if $A(1-C)\leq RO$), no further tax is payable at the individual level and the combined tax rate will be the corporate tax rate. If distributed profits are greater than the allowance (i.e. if $A(1-C)>RO$), shareholder tax is payable on the excess. Tax paid is the corporate tax, CA plus the individual level tax $SA(1-C)-SRO$; and the combined tax rate relative to A is $C+S(1-C)-SRO/A$. Compared to the combined tax rate under a classical dividend system, the combined rate is reduced by a factor equal to the tax saved through the deduction for the normal return.

Imputation systems

Corporation and individual level taxation may also be integrated using an imputation system. Under imputation systems, taxable income at the shareholder is the amount of distributed dividend income grossed-up to approximate pre-tax corporate income. The tax payable on the grossed-up dividend is reduced by a tax credit which offsets all or part of the corporate tax paid on the distributed profits. Corporate tax is effectively a prepayment against the tax on dividend income applied at the individual level.

Full imputation systems are used in Australia, Canada, Chile, Korea, Mexico, and New Zealand. The United Kingdom applies a partial imputation system where tax credits received at the shareholder level partially offset tax paid at the corporate level.

Imputation systems differ in two ways (as summarised in Table 3):

- Gross-up of post-tax corporate income is up at the shareholder level: Australia, Chile, Mexico, and New Zealand gross up distributed profits by the statutory corporate tax rate to arrive at taxable shareholder income. Canada, Korea and the United Kingdom apply a set gross-up factor, rather than the corporate tax rate, to derive taxable income to the shareholder.[15]
- Reliance of the tax credit on corporate tax paid: In Australia, Chile, Mexico and New Zealand, the shareholder tax credit is dependent on the amount of tax paid at the corporate level. Under these systems, dividend income that has not been taxed at the corporate level does not give rise to a tax credit at the shareholder level. In Canada, Korea, and the United Kingdom, the tax credit at the shareholder level is not dependent on corporate tax paid, but is applied to all dividends at the shareholder level.[16]

[15] In Canada, due to the interaction of federal and state-level corporate taxes, the gross-up factor is set at a rate to approximate the total (weighted average) corporate tax paid by corporations.

[16] In Canada, the tax credit at the shareholder level is set in two proportions; with a 18% credit on grossed-up income being applied at the federal level and an additional credit applying at the local level (for example at 7.7% in Ontario) to offset local corporate tax paid.

Table 3: Summary of imputation systems in OECD countries

		Gross-up factor	
		Amount of corporate tax paid	*Specified in legislation*
Imputation credit	*Dependent on corporate tax effectively paid*	Australia Chile Mexico New Zealand	
	Not dependent on corporate tax effectively paid		Canada Korea United Kingdom

Under imputation systems that gross-up income by the amount of corporate tax paid, the combined tax rate on dividend income is the corporate tax rate plus the shareholder tax rate less the imputation rate: *C+S-I*. The amount of shareholder tax payable, *SA*, is reduced by the available imputation credits, *IA*, so that the amount of shareholder tax is *SA-IA*. The total tax paid on the dividends is corporate tax plus the personal tax paid: *CA+SA-IA*. When divided by pre-tax corporate income, *A*, this gives a combined tax rate of *C+S-I*.

Australia, Chile, Mexico and New Zealand operate full imputation systems that gross-up post-tax corporate income by the amount of corporate tax paid and allow imputation credits for corporate tax paid at the shareholder level. Corporations receive imputation credits for tax paid at the corporate level which are retained in the company's imputation credit account and can be attached to distributions to shareholders[17] when they are made, subject to rules to prevent arbitrage such as imputation credit streaming.[18] Examples of rules used to prevent dividend streaming include:

- Australia and New Zealand apply a benchmark rule to distributions which requires all dividends paid by a company in a particular year to have the same imputation credit ratio. This prevents differing levels of imputation credit being attached to different distributions to direct credits toward or away from groups of taxpayers (who may be more or less able to utilise the credit).
- Disclosure requirements require companies disclose the balance of and changes in their imputation accounts; and so that each dividend distribution clearly sets out the amount of the dividend, the attached imputation credit and the imputation credit ratio being applied.
- A maximum imputation ratio (set at the corporate tax rate) prevents over-imputation.
- In Mexico, shareholders can credit the tax paid by the corporation, which is determined as the distributed dividend multiplied by a gross-up factor, and then multiplied by the corporate income tax rate.

Full imputation entirely offsets the corporate tax paid: *I* will be equal to *C* and the combined tax rate is the shareholder tax rate *S*. Partial imputation, where the imputation rate is lower than the corporate tax rate (as in the United Kingdom), results in a combined tax rate which is equal to the shareholder rate plus the difference between the company rate and the imputation rate.

[17] In Mexico, imputation credits are not included in the distribution made by the company; rather, it is the shareholder who must calculate the imputation credit by using the gross-up factor.

[18] Imputation credit streaming is the distribution of imputation credits to shareholders in unequal proportions so that those shareholders that can use them to offset other tax liabilities get more credits, and those that cannot use them to offset tax liabilities get less or no credits; e.g. distribution of a higher number of credits to a taxpayer with a high marginal personal tax rate but not to non-resident shareholders.

Rather than using the corporate tax rate to gross-up the distribution, Canada and Korea use a specified gross-up factor rather than by the corporate tax rate. Taxable income to the shareholder is *GA(1-C)*, where *G* is the gross-up factor that applies. Shareholders' tax liabilities are offset by the applicable the imputation credit: *(S-I)(GA(1-C))*. Total tax paid is therefore *CA+GA(S-I)(1-C)* and the combined tax rate is *C+G(S-I)(1-C)*.[19]

In Canada, Korea and the United Kingdom, the amount of the imputation credit is not dependent on the amount of tax paid at the corporate level but is a set percentage of grossed-up income. Where companies pay an average tax rate below the corporate tax rate (i.e. where $C<I$), taxpayers will receive more imputation credits than needed to offset corporate tax paid and the combined tax rate will decrease by the difference between the corporate tax rate and the tax rate of the distributing company.

Presumptive return on shareholder equity

Dividend income on minority shareholdings in the Netherlands (and other Box 3 income) is not based on distributed post-tax corporate income but rather on a presumed return on shareholder equity. The presumed return is designed to approximate the risk-free rate of return and is a fixed percentage of shareholder equity. The shareholder's tax liability in relation to listed shares is calculated by applying a flat 30% tax rate to a deemed 4% return on investment, which generates to a tax rate of 1.2% on the value of the investment.[20] The value of the investment is calculated by reference to the market value of the shares (stock exchange value for listed shares) as at 1 January of the fiscal year. A withholding tax of 15% applies to distributions and is creditable against personal income tax payable. Excess withholding taxes are refunded. The dividend tax is also creditable against tax payable on Box 1 and Box 2 income.

A similar system applies on an optional basis in Sweden for certain financial assets, including exchange-traded stocks, shares in investment funds, deposits and bonds. If held under the investment savings account system, dividends, interest, and capital gains from these assets are taxed using a presumptive return to a taxable base. The taxable base is the average of the total value of the assets in the investment savings account and is measured four times during the year. The presumptive return is calculated at the rate of return on five-year Swedish Treasury bills. Tax is payable at a rate of 30% on the presumptive return and losses are not deductible. There is no tax on withdrawals of assets from an investment savings account.

Under a presumptive capital tax, the income received by the shareholder will be post-tax corporate profits, less the amount of the tax on the deemed return. This can be shown by *A(1-C)-SPO*. When divided by pre-tax corporate income *A*, this means that the combined tax rate on dividend income received by individuals will be the sum of the corporate tax rate and the tax rate on the deemed return divided by post-tax company profits). This can be shown as *C+SPO/A*. Because the amount of tax paid is linked to the value of equity rather than to the return on equity, the effective tax rate on dividend income decreases as the rate of return increases.

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19 The difference between this and situations where the gross-up is the corporate tax rate is seen in the way the gross-up factor, *G*, in the preceding formula interacts with shareholder tax payable, *GA(S-I)(1-C)*, as where *G* and *1/(1-C)* (gross-up by the corporate tax rate) are equivalent, shareholder tax payable is simply *S-I* as in the case where post-tax corporate profits are grossed up by the corporate tax rate.

20 As elsewhere in the paper, the tax rate assumed to apply is the rate applicable to top marginal rate payers. This rate will apply to different numbers of taxpayers depending on the position of the relevant threshold in the income distribution of each country.

Tax payable by the shareholder

Once the amount of taxable income to the shareholder has been determined, OECD countries tax that income in three primary ways: classical taxation, where the income is taxed in the hands of the shareholder at the applicable personal tax rates; final withholding taxes; and imputation systems (discussed above).

Classical taxation

A classical tax system includes all distributed dividend income to the shareholder and taxes this in the hands of the shareholder at their normal personal income tax rates. Under a classical system, there is no integration between corporate and personal taxes. Classical systems are used in Denmark,[21] Iceland, Ireland, Israel, Japan, Slovenia, Spain,[22] Sweden, Switzerland, and the United States.

The amount of tax paid under a classical system is the amount of distributed income multiplied by the shareholder's tax rate, *S*. Shareholder tax payable is *SA(1-C)*, and the amount of profit received by the individual shareholder is *A(1-C)(1-S)*. When the tax paid at the corporate level is considered, the combined tax rate on dividend income under a classical system is *C+S(1-C)* or, if fully expanded, *C+S-SC*. Dividend income is double-taxed: the full rates of both corporate and shareholder tax apply to pre-tax corporate profits, subject to a reduction which is equal to the multiplication of these rates. In effect, *SC* represents the proportion of the pre-tax corporate profit that is not taxed at shareholder rates because it is taxed at the corporate level and therefore not received by the shareholder. Given this, a one percentage point increase in either tax rate will increase the combined tax rate by a percentage point less the other rate multiplied by that percentage point (e.g. by ΔC-ΔC*S or by ΔS-ΔS*C).[23]

The classical approach may be modified to apply lower tax rates to dividend income, in order to partially alleviate double taxation. In Figure 6, this is denoted as a modified classical system and is used in Denmark, Israel, Japan and the United States. Although the lower rate applied at the individual level reduces the combined tax rate, dividend income is still double-taxed under this approach.

At the shareholder level, the classical approach also applies in Belgium, although against a taxable income base of *A-C(A-ZE)* rather than *A(1-C)* as a result of the allowance for corporate equity. Shareholder tax payable is generated by multiplying the shareholder rate against the taxable income base (and is given by *S(A-C(A-ZE))*. The combined tax rate is given by *C-CZE+S(1-C+CZE)*. This formula also shows the same double taxation element inherent in the classical system: corporate tax, *C-CZE* and shareholder tax, *S*, both apply to the pre-tax corporate income earned and are reduced by the amount of tax paid at the corporate level multiplied by the shareholder tax rate: *S(C-CZE)*.

21 Denmark applies a preliminary withholding tax at source at 27%. For share income under DKK 48300 no further tax is payable; incomes over this amount pay an additional tax of 15%.

22 In Spain dividends are exempt up to EUR 1 500 per year.

23 For example, with a corporate tax rate of 30%, and a personal tax rate of 35%, the combined tax rate on dividends will be: 0.3+0.35-0.3*0.35=0.545. A one-percentage point change in the corporate tax rate will generate: 0.31+0.35-.31*.35=0.5515. Increasing the corporate tax rate by one percentage point results in an increase in the combined statutory rate of 0.65%; which is equivalent to the change in the corporate tax rate, less the change in the corporate tax rate multiplied by the shareholder tax rate: 0.01-0.01*0.35=0.0065.

Box 1. Interaction between personal and corporate taxes

The interaction of personal and corporate taxation is illustrated in Figure B1. The net-of-corporate tax rate *(1-C)* is shown on the horizontal axis, and the net-of-personal tax rate *(1-S)* is shown on the vertical axis. The total square therefore represents the total amount of pre-tax corporate income, *A.* Each individual square represents 1% of pre-tax corporate income, *A.* Figure B1 Interaction between personal and corporate taxation. Figure B1 shows a hypothetical country which has a corporate tax rate of 30% and a personal tax rate of 40%. For this example:

- The area in the bottom left rectangle is the amount of income retained by the individual after personal and corporate taxes are taken into account (*(1-C)(1-S);* in this example, 42%);
- Tax paid is seen in the rectangle across the top of the graph (the amount of personal tax payable, *S* (40%)) and the rectangle at the right of the graph (the amount of corporate tax payable, *C* (30%)), less the area at the top right of the graph, which is the overlap between S and C, *SC* (12%). *SC* is equivalent to the amount of double-taxation under a classical system.

Figure A：Interaction between personal and corporate taxation

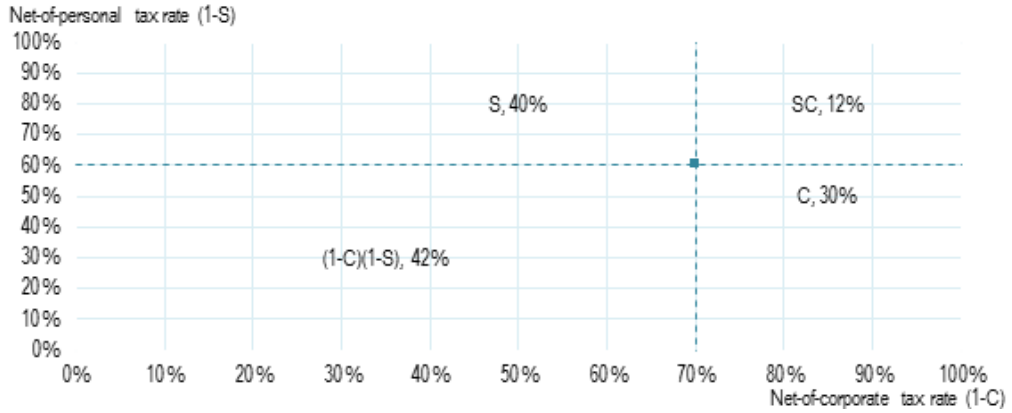
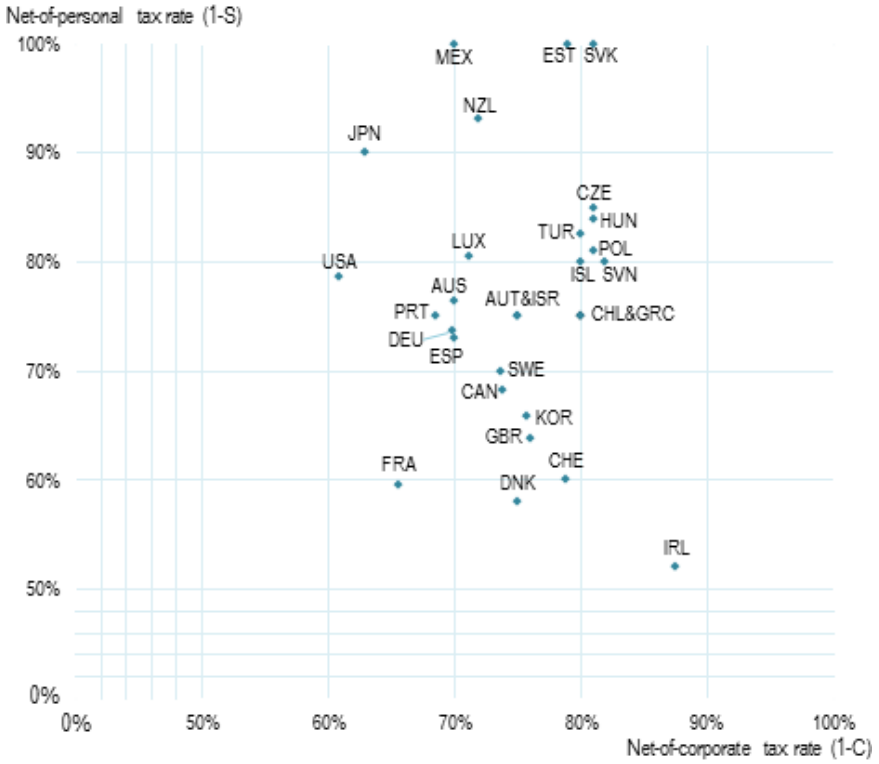


Figure B2 shows the combined tax rates on dividend income for all OECD countries. The amount of post-tax income to the individual in each country in Figure B2 is the area to the left and below the dot representing that country. Countries with the lowest level of post-tax income to the individual (and therefore the highest combined statutory tax rate) are shown toward the bottom left corner of the graph. Those with the lowest combined statutory tax rates are shown at the top right. Due to the impact of different rates of return on the combined statutory tax rate, Belgium, Italy, the Netherlands and Norway are not shown in this figure.

Figure B: Levels of personal and corporate taxation in OECD countries as at 1 July 2012[24]



Final withholding taxes

Austria,[25] the Czech Republic, France, Germany, Greece, Italy (for both new and existing equity), Hungary, Poland, and Portugal tax shareholder income via a final withholding system. Under these systems, the taxable income base to the individual is the post-tax corporate profits *A(1-C)*. Tax is withheld either by the distributing company or by the withholding agent on behalf of the shareholder and no further tax is payable at the shareholder level. The amount of tax withheld at the corporate level is expressed on Figure 6 as *WA(1-C)*: the withholding rate multiplied by the taxable income base to the individual. The combined tax rate relative to pre-tax corporate profits, *A*, is the corporate tax paid plus the withholding tax paid, divided by the pre-tax corporate profits and can be written as *C+W(1-C)*.

Under this approach the same element of double taxation applies as under a classical system. However, as withholding taxes require the income to be assessed separately from other income, they can allow the rate of tax paid on dividends to be lowered relative to other income, which reduces (but does not remove) the impact of double taxation.

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24 The X and Y axes have been truncated to improve readability, but retain the measurement that each individual box on the graph represents 1 % of pre-tax corporate income.

25 In Austria, an individual may opt for taxation within the personal income tax system, in which case their dividend, interest, or capital gains income muse be declared. In practice, as the lowest marginal personal tax rate is 36.5% and the final withholding tax rate is 25%, this is very rare.

Combined statutory tax rates and rates of return

In most OECD countries, the combined statutory tax rate on dividends is proportional to the amount of the return and does not change depending on the rate of return. As discussed, four OECD countries have tax systems which include a component or allowance based on a fixed rate of return. These components and allowances mean that the combined statutory tax rate varies as the rate of return varies:

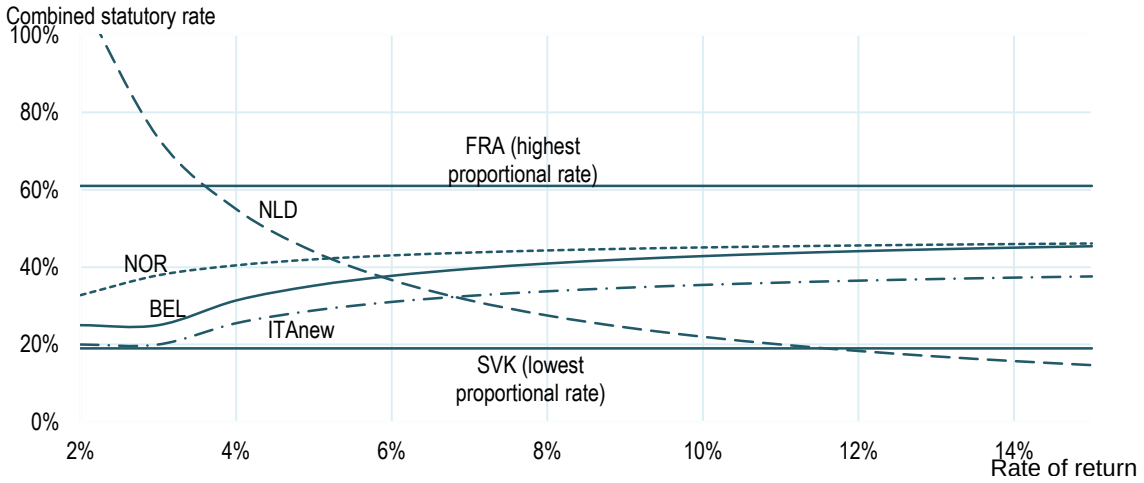
- The allowance for corporate equity used in Belgium and for new equity in Italy reduces the amount of pre-tax income that is taxable at the corporate level by a set risk-free rate of return. No corporate tax is payable if the actual rate of return is below the rate of the allowance but higher rates of return result in corporate tax being paid on a larger part of the return. The statutory combined tax rate therefore increases as the return increases.

- The shielding deduction available in Norway allows a deduction at the individual level for a set rate of return. Higher rates of return mean personal taxes are paid on a greater proportion of the return, increasing the combined statutory tax rate.

- In the Netherlands, personal taxes are applied to a presumed return, regardless of the actual rate of return. Consequently, higher rates of return will decrease the statutory combined tax rate.

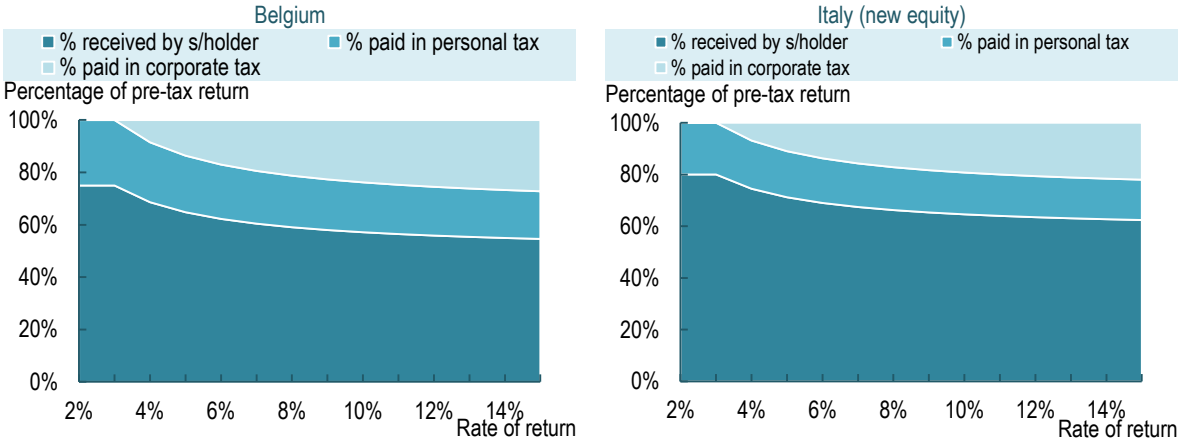
Figure 3 shows the impact of different rates of return on combined statutory rates in Belgium, Italy (new equity), the Netherlands, and Norway. The highest and lowest of the proportional rates in the other OECD countries are also shown.

Figure 3: Combined statutory tax rates on dividends as at 1 July 2012 at different rates of return on equity



The proportion of the pre-tax return paid in corporate tax and shareholder tax also vary at different rates of return in Belgium, Italy, the Netherlands and Norway. In Belgium, and for new equity in Italy, corporate tax paid increases as the rate of return increases, as shown in Figure 4.

Figure 4: Composition of pre-tax return in Belgium (LHS) and new equity in Italy (RHS)



In Norway, the amount of personal tax paid decreases as the return increases, as shown in Figure 5 (LHS). Figure 5 (RHS) shows the composition of pre-tax income in the Netherlands at different rates of return. The presumed rate of return means that the shareholder will have to pay tax in excess of the return if the rate of return is under 2.2%, and will pay less personal tax as the return increases.

Figure 5: Composition of pre-tax return in Norway (LHS) and the Netherlands (RHS)

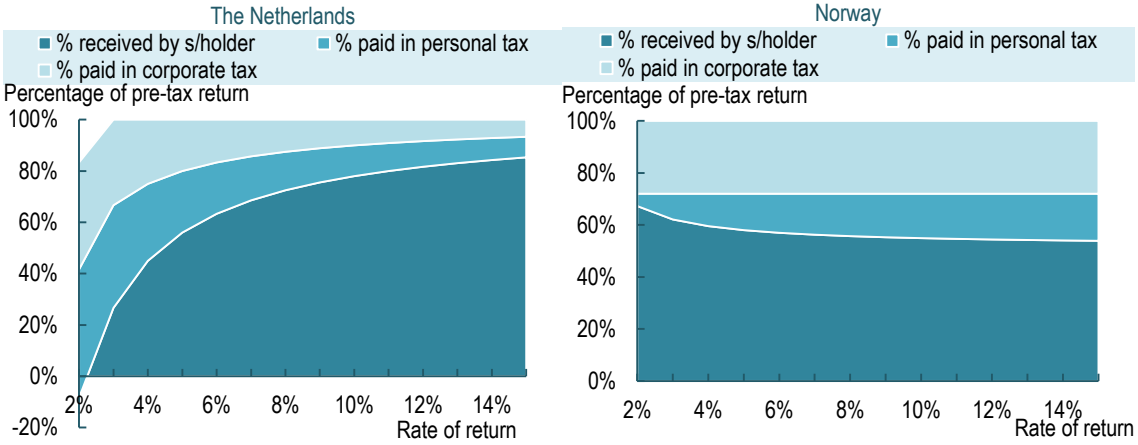
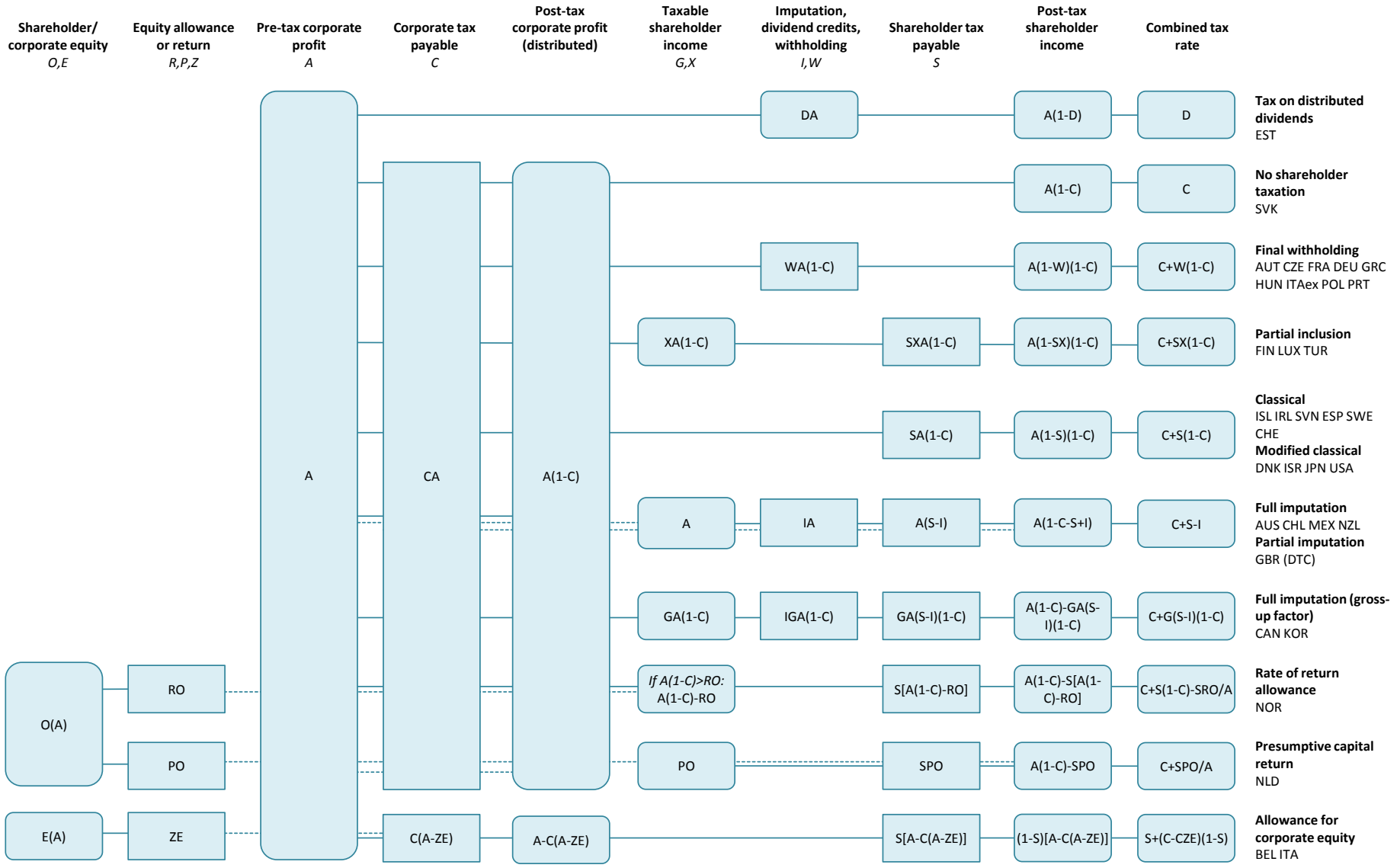


Figure 6: Schematic diagram of the tax treatment of dividend income as at 1 July 2012 in OECD countries[26]



[26] Figure 6 provides a diagrammatic and algebraic representation of the calculations made in Table 4. See Annex A for an explanation of the diagram.

Table 4: Calculation of tax payable on dividend income at the corporate and individual levels as at 1 July 2012[27]

	Type of dividend treatment	Pre-tax corporate profit	Corporate tax rate	Corporate tax payable	Post-tax corporate profit	Proportion of income taxable	Taxable s/holder income	Final with-holding tax rate	Final withholding tax payable	S/holder tax rate	S/holder tax payable	Post-tax shareholder income	Combined tax rate
AUS	IM	100.00	30%	30.00	70.00	143%	100.00			47%	16.50	53.50	46.5%
AUT	FW	100.00	25%	25.00	75.00	100%	75.00	25%	18.75			56.25	43.8%
BEL	ACE	100.00	34%	8.50	91.50	100%	91.50	25%	22.88			68.63	31.4%
CAN	IM*	100.00	26%	26.14	73.86	138%	101.93			48%	23.41	50.45	49.6%
CHL	IM	100.00	20%	20.00	80.00	125%	100.00			40%	20.00	60.00	40.0%
CZE	FW	100.00	19%	19.00	81.00	100%	81.00	15%	12.15			68.85	31.2%
DNK	CL^	100.00	25%	25.00	75.00	100%	75.00			42%	31.50	43.50	56.5%
EST	DD	100.00	21%	21.00	79.00							79.00	21.0%
FIN	PI	100.00	25%	24.50	75.50	70%	52.85			32%	16.91	58.59	41.4%
FRA	FW	100.00	34%	34.43	65.57	100%	65.57	41%	26.56			39.01	61.0%
DEU	FW	100.00	30%	30.18	69.83	100%	69.83	26%	18.42			51.41	48.6%
GRC	FW	100.00	20%	20.00	80.00	100%	80.00	25%	20.00			60.00	40.0%
HUN	FW	100.00	19%	19.00	81.00	100%	81.00	16%	12.96			68.04	32.0%
ISL	CL	100.00	20%	20.00	80.00	100%	80.00			20%	16.00	64.00	36.0%
IRL	CL	100.00	13%	12.50	87.50	100%	87.50			48%	42.00	45.50	54.5%
ISR	CL^	100.00	25%	25.00	75.00	100%	75.00			25%	18.75	56.25	43.8%
ITA (new)	ACE	100.00	28%	6.88	93.13	100%	93.13	20%	18.63			74.50	25.5%
ITA (ex)	FW	100.00	28%	27.50	72.50	100%	72.50	20%	14.50			58.00	42.0%
JPN	CL^	100.00	37%	37.00	63.00	100%	63.00			10%	6.30	56.70	43.3%
KOR	IM*	100.00	24%	24.20	75.80	111%	84.14			42%	25.91	49.89	50.1%
LUX	PI	100.00	29%	28.80	71.20	50%	35.60			39%	13.87	57.33	42.7%
MEX	IM	100.00	30%	30.00	70.00	143%	100.00			30%		70.00	30.0%
NLD	PR	100.00	25%	25.00	75.00	100%	100.00			30%	30.00	45.00	55.0%
NZL	IM	100.00	28%	28.00	72.00	139%	100.00			33%	5.00	67.00	33.0%
NOR	RRA	100.00	28%	28.00	72.00	100%	44.50			28%	12.46	59.54	40.5%
POL	FW	100.00	19%	19.00	81.00	100%	81.00	19%	15.39			65.61	34.4%
PRT	FW	100.00	32%	31.50	68.50	100%	68.50	25%	17.13			51.38	48.6%
SVK	NT	100.00	19%	19.00	81.00							81.00	19.0%
SVN	CL	100.00	18%	18.00	82.00	100%	82.00			20%	16.40	65.60	34.4%
ESP	CL	100.00	30%	30.00	70.00	100%	70.00			27%	18.90	51.10	48.9%
SWE	CL	100.00	26%	26.30	73.70	100%	73.70			30%	22.11	51.59	48.4%
CHE	CL	100.00	21%	21.17	78.83	100%	78.83			40%	31.51	47.32	52.7%
TUR	PI	100.00	20%	20.00	80.00	50%	40.00			35%	14.00	66.00	34.0%
GBR	IM^	100.00	24%	24.00	76.00	111%	84.44			43%	27.44	48.56	51.4%
USA	CL^	100.00	39%	39.10	60.90	100%	60.90			21%	12.97	47.93	52.1%

[27] Table 4 provides the full calculation of the combined statutory tax rates that are summarised in Figure 1 and Table 1. The underlying assumptions are set out in the first section of the paper and the footnotes for Table 1. For AUS, CAN, CHL, KOR, MEX, NZL and GBR imputation or dividend tax credits have been applied to tax payable at the shareholder level.

3. Interest Income

This section summarises the tax treatment of interest income on deposits in retail banking institutions across the OECD and provides tax rates on interest income in each OECD country.

Overview of interest taxation and statutory rates

Statutory tax rates on interest income from retail deposit institutions in the OECD range from 50% in the United Kingdom to 0% in Estonia, with an OECD simple average of 27.0% as shown in Figure 7. Table 5 summarises the calculation of these figures (which is set out in full at Table 8), noting the different types of treatment applied in each country. A schematic of the calculation is shown at Figure 8.

Figure 7: Statutory tax rates on interest as at 1 July 2012[28]

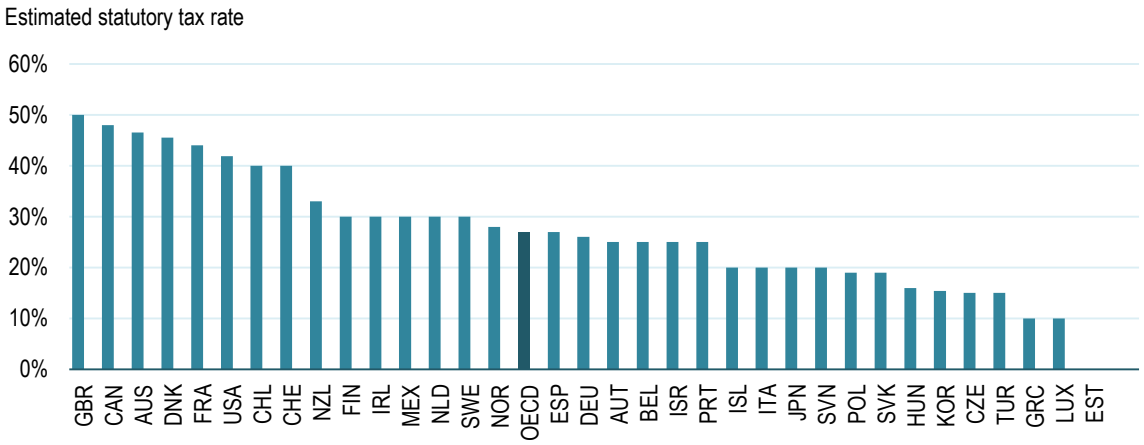


Table 5: Tax payable on interest at the individual level as at 1 July 2012[29]

Country	Treatment	Taxable income to individual	Personal tax payable		Post-tax individual income	Statutory rate
			Final withholding	*Personal*		
Australia	FI	100.00		46.50	53.50	47%
Austria	FW	100.00	25.00		75.00	25%
Belgium[30]	FW	100.00	25.00		75.00	25%
Canada	FI	100.00		47.97	52.03	48%
Chile	PI^	100.00		40.00	60.00	40%
Czech Republic	FW	100.00	15.00		85.00	15%
Denmark	FI	100.00		45.50	54.50	46%
Estonia	NT				100.00	
Finland	FW	100.00	30.00		70.00	30%
France	FW	100.00	44.00		56.00	44%

[28] Figure 7 shows the combined statutory tax rates calculated in Tables 5 and 8. The underlying assumptions are set out in the footnotes to Table 5.

[29] Table 5 shows worked calculations of the tax rates shown in Figure 7. Fuller details of the calculation are set out in Table 8. The assumed rate of return is 4%.

[30] In 2012, a preliminary tax rate of 21% applied in Belgium. This became final at assessment under the PIT return if the level of qualifying savings income was less than EUR 20 020. Income over this amount was subject to a surtax of 4%. Investors could opt to pay the extra 4% at source, in which case no threshold verification was made. These two rates have been summed to arrive at 25%.

Country	Treatment	Taxable income to individual	Personal tax payable		Post-tax individual income	Statutory rate
			Final withholding	*Personal*		
Germany[31]	FW	100.00	26.00		74.00	26%
Greece	FW	100.00	10.00		90.00	10%
Hungary	FW	100.00	16.00		84.00	16%
Iceland	FI	100.00		20.00	80.00	20%
Ireland	FW	100.00	30.00		70.00	30%
Israel[32]	FW^	100.00	25.00		75.00	25%
Italy	FW	100.00	20.00		80.00	20%
Japan	FW	100.00	20.00		80.00	20%
Korea	FW	100.00	15.40		84.60	15%
Luxembourg	FW	100.00	10.00		90.00	10%
Mexico	PI^	100.00		30.00	70.00	30%
Netherlands	PR	100.00		30.00	70.00	30%
New Zealand	FI	100.00		33.00	67.00	33%
Norway	FI	100.00		28.00	72.00	28%
Poland	FW	100.00	19.00		81.00	19%
Portugal	FW	100.00	25.00		75.00	25%
Slovak Republic	FW	100.00	19.00		81.00	19%
Slovenia	FW	100.00	20.00		80.00	20%
Spain	FI	100.00		27.00	73.00	27%
Sweden	FI	100.00		30.00	70.00	30%
Switzerland	FI	100.00		39.97	60.03	40%
Turkey	FW	100.00	15.00		85.00	15%
United Kingdom[33]	FI	100.00		50.00	50.00	50%
United States[34]	FI	100.00		41.85	58.15	42%

Taxable individual income

With the exception of the Netherlands and Estonia, all OECD countries assess the amount of taxable interest income based on the amount of interest income received: with all or part of the received interest income being taxable. In the Netherlands, tax on interest income from retail bank deposits is paid on the presumed capital return, as described above. Estonia does not tax interest income from these sources, although interest income from other sources may be taxable.

Full inclusion

All OECD countries except Chile, Estonia, Israel and Mexico tax the full amount of nominal interest income received. On Figure 8, this is shown as *A.* Several of these countries provide an exemption for a fixed amount of interest income and the Dutch presumptive tax on capital income also contains a basic allowance. These systems are seen as full inclusion systems because the exemption does not impact the tax rate applied to marginal interest income after the de minimus threshold is exceeded.

31 The withholding rate applied for Germany includes the 25% withholding rate and the 1% solidarity surcharge.

32 Israel indexes interest income for inflation so that the nominal rather than real return is taxed. This reduces the effective tax rate on nominal interest income. Israel estimates that given recent inflation rates and rates of return in Israel, a 25% rate on real income would equate to around a 14-15% rate on nominal income.

33 Tax rates on dividends and interest in the United Kingdom were reduced by 5% from 1 April 2013.

34 Tax rates in the United States were changed as of 1 January 2013 under the American Taxpayer Relief Act of 2012. For a description of these changes, see OMB (2013) at p 175.

Partial inclusion and indexation

No OECD countries provide an exemption for a percentage of interest income. If used, this approach would tax only a part of the income received, so that individual taxable income on Figure 8 would be *XA*.

However, Chile, Mexico and Israel index interest income for inflation. Indexation exempts the inflationary component of interest income from taxation, lowering the final tax rate on nominal income in the presence of inflation. Indexation can be accomplished by either adjusting the amount of the initial deposit and calculating the interest that would be payable on the adjusted deposit or by adjusting the rate of return, as summarised in Table 6.

Table 6: Indexation of interest income for inflation

Adjustment of initial deposit	Taxable interest = nominal interest rate * initial investment / (1+ inflation rate)
Adjustment of rate of return	Real interest rate = nominal interest rate – inflation rate Real interest income = (nominal interest rate – inflation rate) * initial investment

In Figure 8, inflation indexing is denoted by *A'*. The tax rate on nominal interest income is the tax payable on the real component, divided by the nominal income received by the individual: *SA'/A*.

Presumptive return on shareholder equity

In the Netherlands, the amount of taxable interest income is based on a presumptive return on the amount of the deposit, calculated in the same way as for dividend income. Tax paid on interest income is based on the amount of the initial investment, *O*, the presumptive rate of return, *P*, and the individual's tax rate, *S*; and the tax rate for interest income is the tax payable on the deemed return divided by the amount of income received: *SPO/A*. Tax paid is therefore not linked to the amount of interest income received but on the value of the deposit, and is akin to a tax on wealth. When measured against income, the tax rate is positively correlated to changes in the individual's tax rate, *S*, and the presumed rate of return, *P*, and negatively correlated to any changes to the amount of the interest income, *A*, relative to the investment, *O*.

No taxation at the individual level

In Estonia, although interest is normally included as taxable income and subject to a withholding tax rate, interest from financial institutions in the European Union is exempt.

In Mexico, interest income from bank accounts and government bonds is taxed. However, there is an exemption for interest paid to individuals from financial institutions on checking accounts for the deposit of wages, pensions and savings provided that the account average balance does not exceed five times the amount of the annual general minimum salary in the Federal District (MXN 113 752 in 2012).

In many OECD countries a fixed amount of savings income is not taxable. For example in Belgium, the bulk of interest bearing savings are tax exempted: in 2012 the first 1 830 euro of interest stemming from ordinary savings were earned tax free; since interest rates were particularly low, this corresponded to tax exempted balances of approximately 100 000 euro per individual. The figures for Belgium, and all other countries, consider the tax treatment of a unit of savings after the fixed threshold has been exceeded.

Tax payable by the individual

At the individual level, interest income may be taxed under personal income taxes through assessment at the individual level or through the use of final withholding rates.

Assessment at the individual level

Interest income may be assessed for taxation at the individual level and tax paid on that income according to the individual's marginal rate or a specific rate on capital income. In Australia, Canada, Denmark, Norway, the United Kingdom and the United States, interest income is taxed only in the hands of the individual. The tax paid is the individual's tax rate multiplied by the taxable income, *SA*. Where taxable income is the full amount of interest received, the statutory tax rate will be equivalent to the individual's tax rate, *S*.

Preliminary withholding taxes may be used prior to assessment at the individual level. These are merely mechanical and do not impact the overall level of tax paid as the total amount of tax payable is still based on the individual's applicable rate.[35] Preliminary withholding taxes are used in Iceland. New Zealand, Spain, Sweden, Switzerland, and the United Kingdom at the rates set out in Table 7 below. In addition to these countries, Mexico applies a 0.6% preliminary withholding tax based on the value of the investment balance, which is creditable against the taxpayer's tax liability on the real interest income from this balance. This rate can be final for individuals with interest income of less than MXN 100 000 if their total income is less than MXN 400 000.

Table 7: Preliminary withholding tax rates on interest income
as at 1 July 2012

Iceland	20%
New Zealand	33%
Spain	21%
Sweden	30%
Switzerland	35%
United Kingdom[36]	20%

Under a preliminary withholding system, provided the individual's tax rate is higher than the withholding rate, the tax paid at the individual level is the tax payable for the individual at their applicable rate *S* (assuming that the full amount of interest income is taxable). For lower-rate marginal taxpayers in some countries, *W* may be higher than *S*. In these cases, the final tax rate will depend on the particular tax system. If the tax system allows the excess withholding tax to be refunded, or applied against other income, the final tax rate will continue to be the individual's tax rate. If the difference is not refunded, the tax rate will be the withholding rate for these taxpayers. For the taxpayers who pay a marginal rate of personal tax at a higher rate than *W*, their personal rate, *S*, will apply.

35 Systems where the individual can elect to have their income assessed (e.g. Portugal) but where this is not required, are included as final withholding countries.

36 This rate is the Basic Rate of Tax (BRT) which may be deducted under the Tax Deduction Scheme for Interest (TDSI) in the United Kingdom. TDSI requires deposit takers and building societies to deduct BRT from interest payments on deposits held by resident individuals. It does not apply to a range of other savings vehicles such as government or corporate bonds. Investors who are unlikely to be liable to pay income tax for the tax year in which interest is paid may register their accounts so that interest may be paid without BRT deducted.

In some countries, the preliminary withholding system may be a hybrid where assessment at the individual level is not required unless the amount of interest income reaches a particular threshold. For example, in New Zealand, preliminary withholding taxes are final unless tax paid on interest exceeds a particular level. New Zealand also approximates a progressive tax system by requiring individuals to notify financial institutions of the applicable marginal withholding rate to apply to their interest income.

Final withholding rates

Austria,[37] Belgium,[38] the Czech Republic, Finland, France, Germany, Greece, Hungary,[39] Ireland, Israel, Italy, Korea,[40] Japan, Korea, Luxembourg, Poland, Portugal, the Slovak Republic, Slovenia and Turkey tax interest income via a final withholding system. Individual level taxes, *W*, are withheld by the institution and no further tax is payable or assessment required at the individual level.

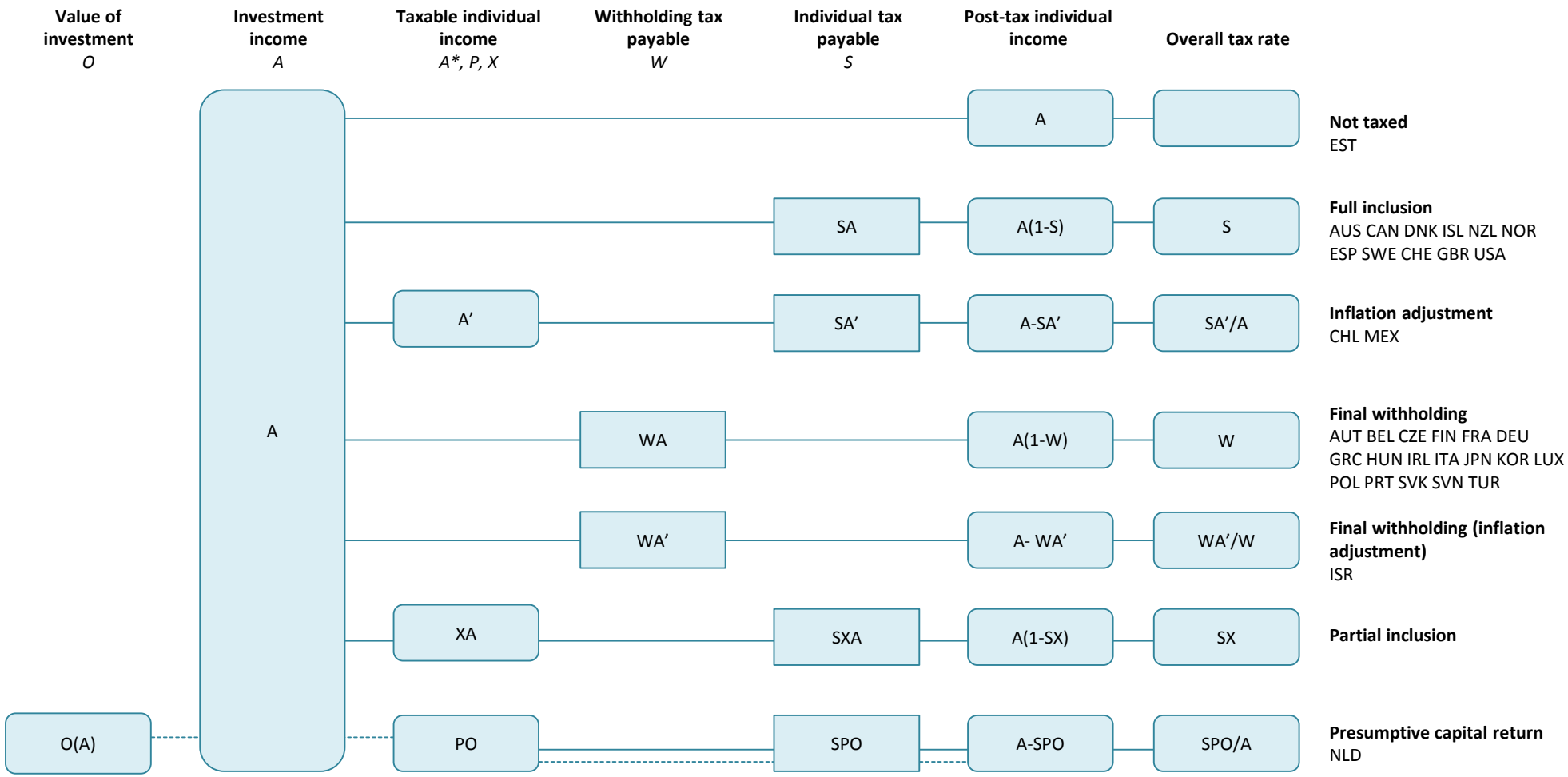
37 In Austria, an individual may opt for taxation within the personal income tax system, in which case their dividend, interest, or capital gains income muse be declared. In practice, as the lowest marginal personal tax rate is 36.5% and the final withholding tax rate is 25%, this is very rare.

38 In 2012, a preliminary tax rate of 21% applied. This became final at assessment under the PIT return if the level of qualifying savings income was less than EUR 20 020. Income over this amount was subject to a surtax of 4%. Investors could opt to pay the extra 4% at source, in which case no threshold verification was made. These two rates have been summed to arrive at 25%.

39 Hungary applies a reduced rate to interest on investments held for more than 3 years (10%, rather than 16%) and no interest rate to interest on deposits held for more than 5 years. This is not shown in the calculations.

40 In Korea, income over 40 million KRW (approximately 27 000 EUR) derived from dividends and interest is taxed as global income at 38.5%. Income less than this amount is taxed at a final withholding tax of 15.4% (including local taxes). However, very few people earn interest over this level. Therefore, Korea is classified as a final withholding system.

Figure 8: Schematic diagram of the tax treatment of interest income in OECD countries as at 1 July 2012[41]



[41] Figure 8 provides a diagrammatic and algebraic representation of the calculations made in Table 8. See Annex A for an explanation of the diagram.

Table 8: Calculation of tax payable on interest income at the individual level as at 1 July 2012[42]

Country	Treatment	Pre-tax income	Taxable individual income	Final with-holding tax rate	Final withholding tax payable	Top personal tax rate	Personal tax payable (at top rate)	Post-tax individual income	Combined tax rate
AUS	FI	100.00	100%			47%	46.50	53.50	47%
AUT	FW	100.00	100%	25%	25.00			75.00	25%
BEL	FW	100.00	100%	25%	25.00			75.00	25%
CAN	FI	100.00	100%			48%	47.97	52.03	48%
CHL	PI^	100.00	100%			40%	40.00	60.00	40%
CZE	FW	100.00	100%	15%	15.00			85.00	15%
DNK	FI	100.00	100%			46%	45.50	54.50	46%
EST	NT	100.00						100.00	
FIN	FW	100.00	100%	30%	30.00			70.00	30%
FRA	FW	100.00	100%	44%	44.00			56.00	44%
DEU	FW	100.00	100%	26%	26.00			74.00	26%
GRC	FW	100.00	100%	10%	10.00			90.00	10%
HUN	FW	100.00	100%	16%	16.00			84.00	16%
ISL	FI	100.00	100%			20%	20.00	80.00	20%
IRL	FW	100.00	100%	30%	30.00			70.00	30%
ISR	FW^	100.00	100%	25%	25.00			75.00	25%
ITA	FW	100.00	100%	20%	20.00			80.00	20%
JPN	FW	100.00	100%	20%	20.00			80.00	20%
KOR	FW	100.00	100%	15%	15.40			84.60	15%
LUX	FW	100.00	100%	10%	10.00			90.00	10%
MEX	PI^	100.00	100%			30%	30.00	70.00	30%
NLD	PR	100.00	4%			30%	30.00	70.00	30%
NZL	FI	100.00	100%			33%	33.00	67.00	33%
NOR	FI	100.00	100%			28%	28.00	72.00	28%
POL	FW	100.00	100%	19%	19.00			81.00	19%
PRT	FW	100.00	100%	25%	25.00			75.00	25%
SVK	FW	100.00	100%	19%	19.00			81.00	19%
SVN	FW	100.00	100%	20%	20.00			80.00	20%
ESP	FI	100.00	100%			27%	27.00	73.00	27%
SWE	FI	100.00	100%			30%	30.00	70.00	30%
CHE	FI	100.00	100%			40%	39.97	60.03	40%
TUR	FW	100.00	100%	15%	15.00			85.00	15%
GBR	FI	100.00	100%			50%	50.00	50.00	50%
USA	FI	100.00	100%			42%	41.85	58.15	42%

[42] Table 8 provides the full calculation of the combined statutory tax rates that are summarised in Figure 7 and Table 5. The underlying assumptions are set out in the first section of the paper and the footnotes for Table 5.

4. Capital Gain Income

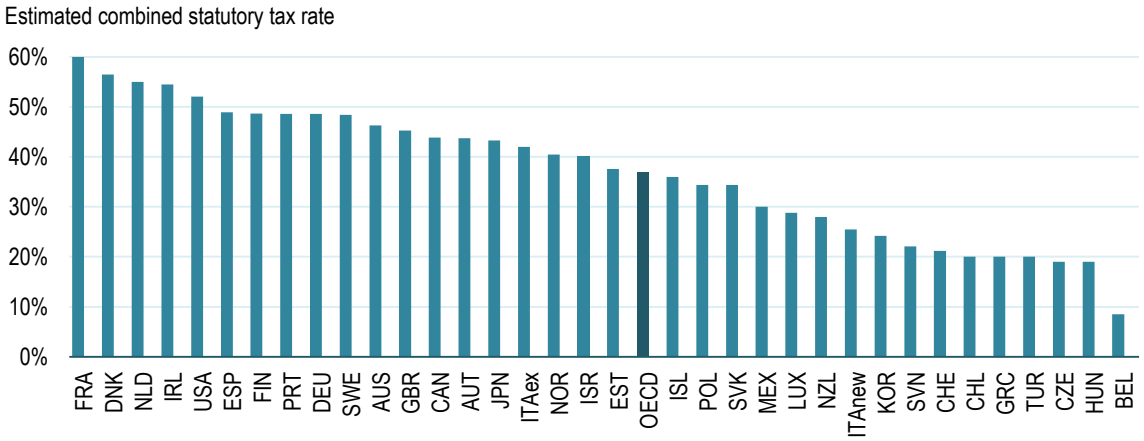
This section considers the tax treatment of nominal capital gains made on shares and on nominal gains made on the sale of real property that has been rented to tenants that were realised after the expiry of any applicable holding period test. The tax rates used are the highest marginal rate payable by an individual on their capital gains income. The statutory tax rates can therefore be considered as the maximum rates applicable to nominal gains on long-held assets. The impact of the holding period on the tax rate paid is not considered.

Capital gains on shares are assumed to have resulted entirely from the reinvestment of post-tax corporate profits such that the market value of shares is increased by the amount of the retention. The statutory tax rates on capital gains on shares are therefore a function of the corporate and personal tax systems that apply as well as of the interaction between these tax systems. Capital gains on property are taxed only at the individual level.

Overview of capital gains taxation and combined rates

Including both the corporate and individual levels of taxation, combined statutory rates on gains on long-held shares in the OECD range from 8% in Belgium (where gains are taxed only at the corporate level and the allowance for corporate equity applies) to 60% in France. Across the OECD, the simple average combined rate on gains on shares is 36.8% as shown in Figure 9.[43] Table 9 summarises the calculation of these figures (which is set out in full at Table 14), noting the different types of treatment applied in each country. A schematic of the calculation is shown at Figure 12.

Figure 9: Combined statutory tax rates on capital gains on shares as at 1 July 2012[44]



[43] This average uses the combined tax rate for dividends from new equity in Italy, rather than from existing equity. If the combined tax rate on existing equity were used instead, the simple average combined tax rate across the OECD would be 37.3%.

[44] Figure 9 shows the combined statutory tax rates calculated in Tables 9 and 14. ITAex shows the combined tax rate on existing equity; ITAnew shows the combined tax rate on new equity. The underlying assumptions are set out in the footnotes to Table 9.

Table 9: Tax payable on capital gains on shares at the corporate and individual level as at 1 July 2012[45]

Country	Treatment	Corporate tax payable	Taxable income to shareholder	Personal tax payable		Post-tax shareholder income	Statutory rate
				Final withholding	*Shareholder*		
Australia	PI*	30.00	35.00		16.28	53.73	46%
Austria	FW	25.00	75.00	18.75		56.25	44%
Belgium	ACE	8.50	91.50			91.50	8%
Canada	PI	26.14	36.93		17.72	56.14	44%
Chile	NT*	20.00	80.00			80.00	20%
Czech Republic	NT*	19.00				81.00	19%
Denmark	CL	25.00	75.00		31.50	43.50	57%
Estonia	CL	21.00	79.00		16.59	62.41	38%
Finland[46]	CL*	24.50	75.50		24.16	51.34	49%
France	ST	34.43	65.57		25.57	40.00	60%
Germany[47]	FW	30.18	69.83	18.42		51.41	49%
Greece	NT	20.00				80.00	20%
Hungary	NT*	19.00				81.00	19%
Iceland	CL	20.00	80.00		16.00	64.00	36%
Ireland	ST	12.50	87.50		42.00	45.50	55%
Israel	PI^	25.00	75.00		15.00	60.00	40%
Italy (new equity)[48]	ACE	6.88	93.13		18.63	74.50	26%
Italy (old equity)	ST	27.50	72.50		14.50	58.00	42%
Japan	ST	37.00	63.00		6.30	56.70	43%
Korea	NT	24.20				75.80	24%
Luxembourg	NT*	28.80				71.20	29%
Mexico	NT	30.00				70.00	30%
Netherlands	PR	25.00	100.00		30.00	45.00	55%
New Zealand	NT	28.00				72.00	28%
Norway	RRA	28.00	44.50		12.46	59.54	40%
Poland	ST	19.00	81.00		15.39	65.61	34%
Portugal[49]	FW	31.50	68.50	17.13		51.38	49%
Slovak Republic	CL	19.00	81.00		15.39	65.61	34%
Slovenia	ST	18.00	82.00		4.10	77.90	22%
Spain	CL	30.00	70.00		18.90	51.10	49%
Sweden	CL	26.30	73.70		22.11	51.59	48%
Switzerland	NT	21.17				78.83	21%
Turkey	NT*	20.00				80.00	20%
United Kingdom	ST	24.00	76.00		21.28	54.72	45%
United States[50]	ST*	39.10	60.90		12.97	47.93	52%

45 Table 9 shows worked calculations of the tax rates shown in Figure 9. Fuller details of the calculation are set out in Table 14. The assumed rate of return is 4%. The impact of other rates of return on the calculations for Belgium, new equity in Italy, the Netherlands and Norway are shown in Figures 5 and 6.

46 In Finland, the shareholder tax rate is 32% for incomes exceeding EUR 50 000 and 30% for incomes under this amount.

47 The withholding rate applied for Germany includes the 25% withholding rate and the 1% solidarity surcharge.

48 For new equity, Italy applies an allowance for corporate equity at the corporate level and separate taxation at the personal level.

49 The taxpayer can opt to have tax aid at the personal level in which case the tax withheld is not treated as final.

50 The analysis assumes that the Alternative Minimum Tax does not apply. Tax rates in the United States were changed as of 1 January 2013 under the American Taxpayer Relief Act of 2012. For a description of these changes, see OMB (2013) at p 175.

Statutory tax rates on capital gains from long-held property arise only from personal taxation, although many OECD countries do not tax these gains at all. The tax rates therefore range from 0% in many countries to 45.5% in Denmark, with a simple average combined rate of 14.4% as shown in Figure 10. Table 10 summarises the calculation of these figures (which is set out in full at Table 15), noting the different types of treatment applied in each country. A schematic of the calculation is shown at Figure 13.

Figure 10: Combined statutory tax rates on real property as at 1 July 2012[51]

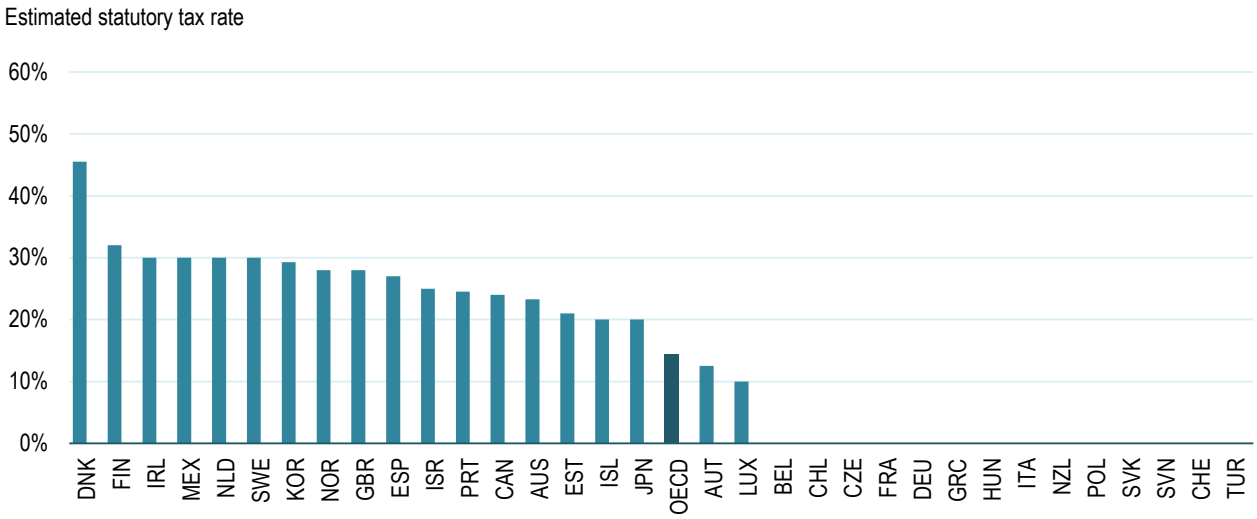


Table 10: Tax payable on capital gains on property at the individual level as at 1 July 2012[52]

	Treatment	Taxable income to individual	Personal tax payable	Post-tax individual income	Statutory rate
Australia	PI*	100.00	23.25	76.75	23%
Austria	ST*	100.00	12.50	87.50	13%
Belgium	NT*	100.00		100.00	
Canada	PI	100.00	23.99	76.02	24%
Chile	NT*	100.00		100.00	
Czech Republic	NT*	100.00		100.00	
Denmark	FI	100.00	45.50	54.50	46%
Estonia	FI	100.00	21.00	79.00	21%
Finland[53]	FI*	100.00	32.00	68.00	32%
France	NT*	100.00		100.00	
Germany	NT*	100.00		100.00	
Greece	NT	100.00		100.00	
Hungary	NT*	100.00		100.00	
Iceland	FI	100.00	20.00	80.00	20%
Ireland	ST	100.00	30.00	70.00	30%
Israel[54]	PI^	100.00	25.00	75.00	25%

51 Figure 10 shows the combined statutory tax rates calculated in Tables 10 and 15. The underlying assumptions are set out in the footnotes to Table 10. The tax rate on gains on real property in the United States varies under a number of assumptions and the United States are therefore not shown in this figure. See Box 2 for a description of the tax system and an estimated rate for a particular set of assumptions.

52 Table 10 shows worked calculations of the tax rates shown in Figure 10. Fuller details of the calculation are set out in Table 15. The assumed rate of return is 4%.

53 In Finland, the shareholder tax rate is 32% for incomes exceeding EUR 50 000 and 30% for incomes under this amount.

	Treatment	Taxable income to individual	Personal tax payable	Post-tax individual income	Statutory rate
Italy	NT*	100.00		100.00	
Japan	ST*	100.00	20.00	80.00	20%
Korea	PI*	100.00	29.26	70.74	29%
Luxembourg	FI*	100.00	10.00	90.00	10%
Mexico	PI^	100.00	30.00	70.00	30%
Netherlands	PR	100.00	30.00	70.00	30%
New Zealand	NT	100.00		100.00	
Norway	FI	100.00	28.00	72.00	28%
Poland	NT*	100.00		100.00	
Portugal	PI^	100.00	24.50	75.50	25%
Slovak Republic	NT*	100.00		100.00	
Slovenia	NT*	100.00		100.00	
Spain	PI^	100.00	27.00	73.00	27%
Sweden	PI	100.00	30.00	70.00	30%
Switzerland	NT	100.00		100.00	
Turkey	NT*	100.00		100.00	
United Kingdom	ST	100.00	28.00	72.00	28%
United States[55]	ST*	100.00	*	*	*

Corporate level treatment of gains on shares

As with dividend income, capital gain income on shares that is derived from reinvested corporate profits is taxed first as corporate income and then again at the individual level when realised. The tax paid at the corporate level will reduce the amount of the gain to the shareholder relative to the pre-tax gain. Given this, in Figure 12, pre-tax corporate profit is designated as *A* and is a function of corporate equity, *E*. After corporate income taxes, post-tax corporate profits are shown as *A(1-C)*, except for Belgium and Italy, the allowance for corporate equity means post-tax corporate profits are *A-C(A-ZE)*.

Individual level treatment

Calculation of taxable capital gains

All OECD countries that tax capital gains do so on realisation. Taxation is triggered by the sale of the relevant asset or by prescribed circumstances such as when an asset is gifted or bequeathed to another owner or when the majority of shares in a company are purchased. With the exception of the United States (see Box 2), the amount of the capital gain is the difference in value between the date of acquisition and the date of realisation. Adjustments may be made for acquisition and interest costs or depreciation. The nominal capital gain is represented as *A* in Figures 12 and 13.

With five exceptions, OECD countries tax the nominal amount of the capital gain.[56] In the Netherlands, the presumptive return is deemed to include capital gains on the asset and gains are

54 Israel indexes interest income for inflation so that the nominal rather than real return is taxed. This will reduce the effective tax rate on nominal interest income. Israel estimates that given recent inflation rates and rates of return in Israel, a 25% rate on real income would equate to around a 14-15% rate on nominal income.

55 The tax rate on gains on real property in the United States varies under a number of assumptions. See Box 2 for a description of the tax system and an estimated rate for a particular set of assumptions.

not taxed further on realisation. Chile, Israel, Mexico and Portugal tax the real rather than the nominal amount of certain capital gains by adjusting the amount of the acquisition price for inflation over the holding period.

No taxation of capital gains

At the individual level, Greece, New Zealand and Switzerland do not tax capital gains on shares and real property on either shares or real property except in particular circumstances such as where the asset was bought for the purposes of resale. In addition, Belgium, Korea, and Mexico[57] do not tax gains realised on shares at the individual level.

Holding period tests prior to sale

Several OECD countries apply a holding period test which reduces or eliminates taxation of capital gains on an asset that has been held for longer than a certain period. The length and nature of these tests differ considerably between countries. Some holding period tests provide a single point in time, while others apply progressively.[58] Table 11 shows the longest holding period test in each country.

Table 11: Length of holding period tests (years) as at 1 July 2012

Shares	
Australia	1
Chile	1
Czech Republic	0.5
Finland	10
Hungary	5
Luxembourg	0.5
Slovenia	20
Turkey	1
United States	1

Real property	
Australia	1
Austria	35
Belgium	5
Chile	1
Czech Republic	5
Finland	10
France	30
Germany	10
Hungary	15
Italy	5
Japan	5
Korea	10
Luxembourg	2
Poland	5
Slovakia	5
Slovenia	20
Turkey	5
United States	1

The most common impact of a holding period test is that capital gains on assets held for longer than the fixed period are exempt from taxation. Other OECD countries apply a more favourable tax treatment on gains on assets that are realised after the expiry of the applicable

56 In some OECD countries an allowance may be made against the nominal amount of the gain for maintenance or improvement costs. For example, Denmark provides an allowance for maintenance and improvement costs of DKK 10 000 per year of ownership.

57 In Mexico the exemption is not applicable when: ownership exceeds 10% of the corporation's capital and over 10% has been sold in a 24 month period; a controlling shareholding is sold in a 24 month period; or the sale of shares did not take place in a recognised stock market.

58 For example, in France, gains on shares held for less than 5 years are fully taxed; from 6 years to 18 years, the tax base is reduced by an additional 2% per year; from 18 to 24 years, it is reduced by an additional 4%, and from 24 to 30 years, at 8% per year until completely exempt after a holding period of 30 years.

holding period, removing penalty rates that applied prior to this or applying a reduced rate. In other countries, the type of tax treatment will change to a more favourable form after the prescribed holding period has expired. Examples include:

- Partial inclusion of gains from long-held assets: In Australia, gains on assets held for at least a year qualify for a partial exemption from taxation. Gains on assets held for less than a year are fully taxable at marginal rates. Similarly, Austria progressively reduces the amount of the gain on property that is taxable after a period of 10 years, up to a maximum of 50%.

- Finland applies a minimum deduction of 20% of the sales price; but if the property has been held for at least ten years, the minimum deduction is 40%.

- Portugal indexes gains made on assets held for more than 2 years for inflation and Spain indexes the acquisition price of immovable properties held for more than one year prior to sale for inflation.

- Application of different tax rate structure: In the United States, gains on assets held for less than one year are taxed as part of global income at the applicable marginal tax rates, whereas after this period a lower separate capital gains tax rate applies. Chile taxes gains on shares held for less than a year under the First Category Tax and either Complementary Global tax or Additional Tax; after this are taxed under a flat tax at the rate of the First Category Tax (20%).

Table 12: Summary of nature and impact of holding period tests

		Change in tax treatment after longest holding period		
		Reduced rate	*Exempt*	*Change in system*
Type of holding period test	*Single-point test*	Finland Japan (property) Luxembourg (property)	Belgium (property)[59] Chile[60] Czech Republic Italy (property) Luxembourg (shares) Poland (property) Slovak Republic (shares) Turkey	Australia Austria (property) Portugal (property) United States
	Progressive change	Korea (property)	France (property) Hungary Slovenia	

Many OECD countries do not vary the tax treatment of capital gains based on the length of time for which the asset was held prior to sale, including Canada, Denmark, Estonia, Iceland, Ireland, Israel, Mexico, Norway, Spain, Sweden and the United Kingdom. In addition, France, Germany, Italy, Japan, Poland, Portugal, the Slovak Republic and Slovenia do not apply holding tests for gains on shares.

59 In Belgium, gains made by individuals on assets held other than for business purposes are taxable only in the case of real property sold within either 5 or 8 years (with the length of time depending on whether the property has buildings).

60 Capital gains on the transfer or sale of shares of Chilean corporations that are regularly traded on the stock market and were acquired through the stock market are exempt from taxation, provided the shares have been held for more than one year. Given the assumptions underlying this paper, Chile has been classified as non-taxation, after a holding period. However, in other circumstances, capital gains on shares are taxable under the First Category Tax at 20%.

Inclusion of capital gains as taxable income to the individual

Full inclusion

Where capital gains are taxed, most OECD countries treat the full amount of the nominal gain as taxable to the individual. A few countries, including Ireland, Luxembourg, the Slovak Republic, and the United Kingdom, allow an exemption up to a fixed amount, which does not impact the marginal tax rate on gains exceeding this amount. For capital gains on shares, the taxable gain to the shareholder is therefore *A(1-C)*. For capital gains made on property, the full amount of the gain, *A*, is treated as taxable.

Partial inclusion

Several OECD countries include only part of the capital gain as taxable to the individual. Australia and Canada treat 50% of the received capital gain on both shares and real property as taxable and tax this proportion at regular income rates. Sweden provides a 26.7% exemption for real property gains on residential property held by individuals. Portugal includes 50% of gains on real property as taxable income and further allows indexation if the gain is derived from a property that has been held for two years or more.[61] Partial inclusion of a gain as taxable to the individual is denoted as *XA(1-C)* on Figure 12 for gains on shares and as *XA* on Figure 13 for gains on property.

For shares, the combined tax rate on the capital gain is the corporate tax rate applied at the corporate level less the tax paid at the individual level: *C+SX(1-C).* The combined tax rate will reduce individual level tax by the excluded proportion. For gains on property, tax paid will reduce by an amount equal to the applicable tax rate multiplied by the proportion of gain excluded from taxation, *1-X*. The resulting combined tax rate on the capital gain is the individual's tax rate multiplied by the proportion of the gain that is taxable to the individual, *SX*.

Partial inclusion is often intended to partly offset the impact of inflation. Several OECD countries explicitly adjust for inflation by adjusting the acquisition price of the asset for inflation. Chile, Israel, Mexico, Portugal and Spain adjust taxable income to the individual to allow for inflation:

- Portugal, Chile and Spain adjust the acquisition price of the asset for inflation. Chile uses the change in the consumer price index between acquisition and transfer to adjust the acquisition price.[62] Portugal uses an indexation factor based on the year of purchase that is published each year, to adjust the value of real property held for over two years prior to sale. In Spain, the acquisition price of immoveable property is adjusted for inflation using a statutorily set indexation factor based on the year of purchase.

- Israel calculates the capital gain on shares and real property by dividing real from the nominal gain. The nominal gain is calculated by adjusting the acquisition price of the asset using the Israeli Consumer Price Index. Only the real proportion of the gain is taxed.

- Mexico provides an inflation adjustment by deducting the cost of land from the acquisition price. The remaining cost of the buildings (or 80%, if this cannot be

61 Portugal also applies a 50% exemption for capital gains on shares in micro or small companies.

62 However, in Chile, the sale of immoveable property and shares acquired on the stock exchange are exempt once the one-year holding period has expired.

determined) is reduced by 3% for each year the property was held, up to a maximum of 20%. Both the land and the adjusted building costs, together with improvements and enlargements, notarial expenses and losses from sale of properties, are adjusted by an inflation factor accounting for the number of months the property was held. This is subtracted from the sale price to estimate taxable gains. The fiscal gain calculated is then divided by the number of years for which the property was held (up to a maximum of 20). This result is added to the taxpayer´s other income in the current fiscal year and the income tax is calculated[63] The remainder of the gain is multiplied by either the average taxpayer's tax rate or the average rate of the last five tax years. Although in Mexico shares are exempt from taxation under certain circumstances, shares that are not exempt are adjusted for inflation by reducing the gains by the average value of the shares held by the taxpayer in the company, rather than their acquisition price.

Table 13: Summary of calculation of inflation-adjusted acquisition cost in OECD countries[64]

	Shares	**Property**
Chile	Acquisition cost * CPI adjustment	Acquisition cost * CPI adjustment
Israel	Acquisition cost * CPI adjustment	Acquisition cost * CPI adjustment
Mexico	Average cost of shares adjusted for inflation	[(Cost of buildings * [1 – Years held * 3%]) + Cost of land] * Inflation factor
Portugal	Not adjusted	Acquisition cost * Indexation factor
Spain	Not adjusted	Acquisition cost * indexation factor from annual Budget

The adjusted amount of the capital gain is denoted as *A'(1-C)* in relation to capital gains on shares in Figure 12 and as A* in relation to capital gains on property in Figure 13, regardless of how the adjustment takes place. The (nominal) tax rate on capital gains under this approach is therefore the tax payable on the real component of the gain, divided by the nominal income received by the individual: *SA' (1-C)/A* for shares and *SA'/A* for real property).

The shielding treatment applied against dividend income in Norway also applies to capital gains on shares. Under this treatment, the taxable income base to the individual is post-tax corporate profits, less an allowance for the normal rate of return and can be expressed as *A(1-C)-RO*. If *A(1-C)* is greater than *RO* no further tax is payable at the corporate level and the combined tax rate will be the corporate tax rate, *C*. If not, the tax paid will be corporate tax and individual level tax *CA+SA(1-C)-SRO*; and the combined tax rate relative to *A* is *C+S(1-C)-SRO/A*.

Another option for taxation at the individual level that is not currently used in OECD countries is to attach imputation credits to capital gains on shares for tax paid at the corporate level. Administration and compliance can be very difficult under this system due to the need to monitor tax paid on retained earnings and to identify the proportion of capital gains resulting from retained earnings. The mismatch between the accrual of the gains and the realisation of the gains also contributes to this complexity.

63 In Mexico an exemption applies to the sale of the taxpayer's residence if the amount of the compensation obtained does not exceed an amount equivalent to around MXN 7 million. If there is any excess, the profit and tax shall be determined. This exemption applies as long as the taxpayer has not transferred another dwelling within the five years immediate preceding such transfer.

64 Because of the exemptions provided for Chile (shares acquired on the stock exchange and real property after a holding period test) and Mexico (shares) are not shown in the diagram as inflation adjusted systems, but rather as "NT*".

Tax rates at the individual level

At the individual level, most OECD countries tax both gains on property and shares through assessment at the individual level through personal income taxes or separate capital gains taxes. However, Austria[65] Germany and Portugal[66] apply a final withholding tax to capital gains on shares through resident intermediaries.

In countries where the gain is assessed at the individual level, Denmark, Estonia, Finland, Iceland, Luxembourg, the Slovak Republic, Spain and Sweden tax the gain at the applicable marginal or flat tax rate for that tax base and taxpayer. With the exception of the United States, discussed below at Box 2, the remaining OECD countries (France, Ireland, Italy, Japan, Poland, Slovenia and the United Kingdom) tax capital gains separately from other income received by the individual at particular capital gain rates. For example, Ireland taxes capital gains at a fixed rate of 30%; and in the United Kingdom, the tax on capital gains is set at either 18% or 28% depending on the income level and source of the taxpayer receiving the gains. Other countries may apply preferential rates to the capital gains.

Box 2. Taxation of capital gains on section 1250 property in the United States

Gains made on the sale of residential rental property owned by an individual in a personal capacity in the United States are generally taxable subject to of the U.S. Internal Revenue Code. Under this section, gains made on residential rental property must be apportioned between the gains on improvements and gains on land. The two components of the gain are treated separately for tax purposes at the federal level.

The amount of the capital gain on improvements is calculated by deducting the depreciated value of the improvements from their portion of the sale price. To calculate the tax payable on the resulting gain, the amount of the gain corresponding to the amount of depreciation deducted (or, if the total gain is lower than the depreciation claimed, the full amount of the gain) is taxed at general income tax rates, subject to a cap of 25%. This portion of the gain is taxed in this way to "recapture" depreciation that has previously been claimed against the property at marginal tax rates. The remaining portion of the gain, if any, is taxed at the capital gains tax rate (15% in 2012, 20% starting in 2013).

Since land is not depreciable, the gain is the difference between the portion of the purchase price allocated to land and the sale value of the portion relating to land. The gain on land is taxable at the federal level at the capital gains rate of 15%.

State tax is also payable on the capital gain on land and depreciated improvement value and can be deducted against federal tax at the individual's personal rate.

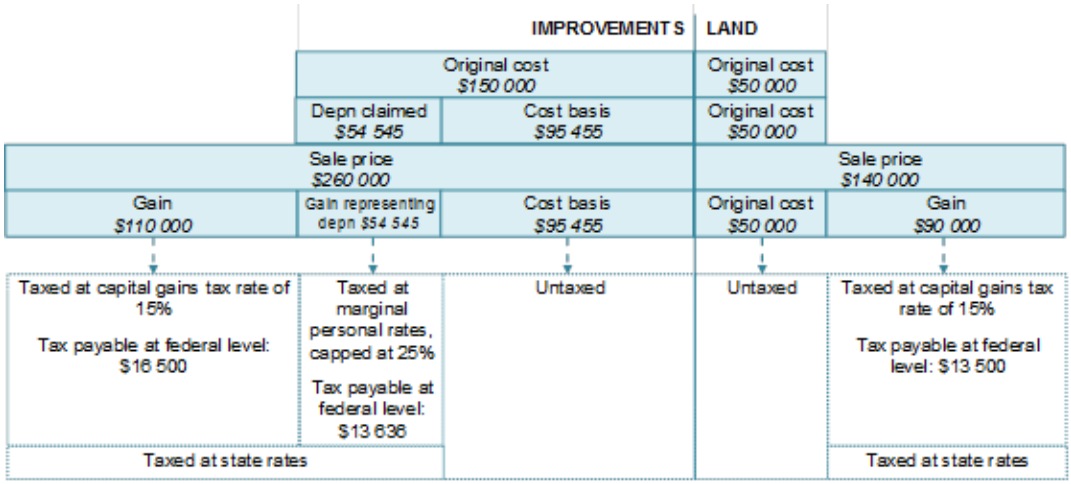
Under this system, the total combined tax payable on capital gains on property will depend on a number of factors including the size of the gain, the apportionment of the original purchase price and the sales price between land and improvements, the length of time for which the property has been held, and the tax rates applicable at state and federal levels.

For this reason, no tax rate has been shown for the United States in Tables 10 and 15. A worked example of this tax treatment is shown below, under certain stylised assumptions.

65 In Austria, an individual may opt for taxation within the personal income tax system, in which case their dividend, interest, or capital gains income muse be declared. In practice, as the lowest marginal personal tax rate is 36.5% and the final withholding tax rate is 25%, this is very rare.

66 In Portugal, taxpayers may choose to have capital gains on shares included in their taxable income and taxed at the applicable marginal rates rather than the final withholding tax.

Figure C: Illustrative example of capital gains treatment of real property in the United States[67]



Under the the example shown in Figure C, using a weighted state average rate of 6.85% (the same rate that has been used throughout the paper for the United States) and allowing state taxes to be offset against personal tax at the top marginal federal rate applicable in 2012 (35%), the total effective tax rate on the gains on this property is 21.6%.

For shares, the combined amount of tax paid is the sum of corporate tax paid and the individual tax paid on of the proportion of post-tax profits treated as taxable income to the individual. The combined tax rates will therefore be either $C+S(1-C)$ or $C+SX(1-C)$. For real property, the tax paid is the applicable tax at the individual level (S) multiplied by the taxable base. Where the full amount of the gain is taxable, tax paid is SA and the tax rate is S; where only part of the gain received is taxable, the taxable base is XA: the tax paid and tax rates are SXA and SX respectively. Where inflation adjustments are applied the tax paid and tax rates are SA' and SA'/A.

Mexico calculates the tax on the capital gain from shares at the shareholder level in a different way. To calculate tax payable at the individual level, there are a number of steps: [68]

a) the capital gain is divided by the number of years for which the asset was held (up to 20);

67 This example was prepared by the OECD based on information provided by the United States Department of the Treasury. Assumptions include a purchase price of $200 000 ($50 000 land; $150 000 improvements); a sale price of $400 000 ($140 000 land; $260 000 improvements); a holding period of 10 years, over which depreciation was claimed under a straight-line method using a 27.5 year useful life basis; top marginal tax rates applying in 2012; and that the property was owned entirely by the individual in a personal capacity.

68 Therefore, shareholder tax payable is given by: $(A'/n)*MTR+((n-1)A'/n))*ATR$, where: A' is the real capital gain (the nominal gain with the acquisition price adjusted for inflation), n is the number of years that the asset was held prior to sale $n \leq 20$, MTR is the applicable marginal tax rate, and ATR is the applicable average tax rate once the proportion of the capital gain (generated by A'/n) is taken into account.

b) this amount is included in an individual's taxable income to calculate the amount of income tax due on the individual's taxable income (including other income);

c) tax due on the individual's income is divided by the income to arrive at an average tax rate; and

d) this average tax rate (or an average rate for the previous five years) is applied to the remaining proportion of the capital gain.

Therefore, in the first year of ownership, the taxpayer pays their applicable marginal rate on the full amount of the capital gain. In subsequent years, as the average tax rate will be lower than the applicable marginal rate in a progressive tax system, the tax rate applied to capital gains will decrease and converge on the taxpayer's average tax rate until the shares have been held for twenty years.

Combined statutory tax rates and rates of return

In most OECD countries, the combined statutory tax rate on capital gains is proportional to the amount of the income received and does not change depending on the rate of return. However, the allowance for corporate equity used in Belgium and for new equity in Italy, the shielding deduction in Norway, and the presumptive rate of return in the Netherlands change the proportion of capital gains on shares that is taxable, varying the combined statutory tax rate as the rate of return varies. The impact of these four systems on the combined statutory rate on capital gains on shares at different rates of return is shown in Figure 11, together with the highest proportional rate in the other OECD countries.

Figure 11: Combined statutory tax rates as at 1 July 2012 at different rates of return on investment

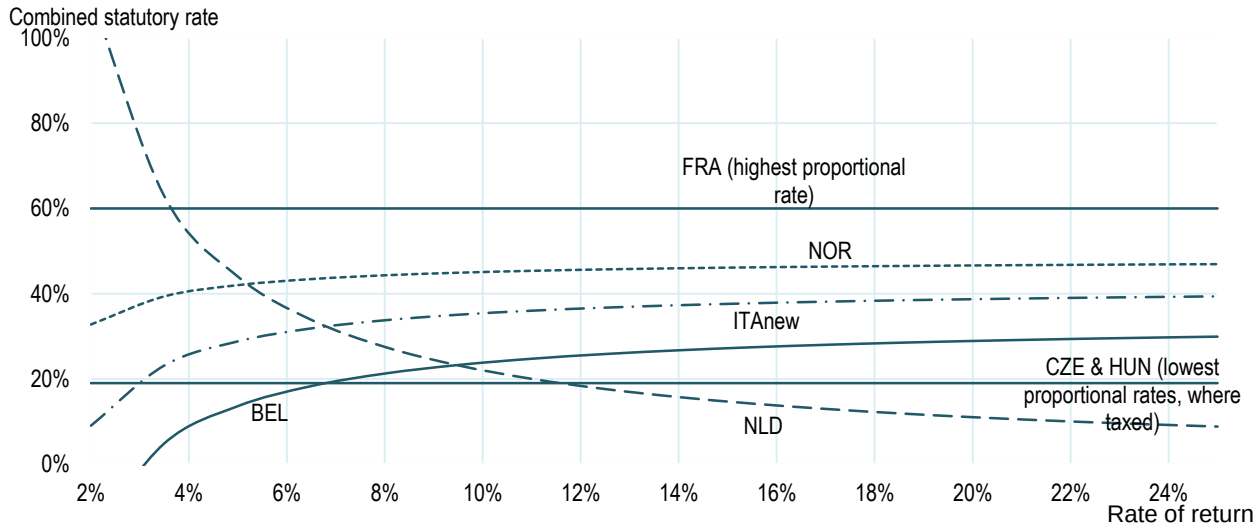
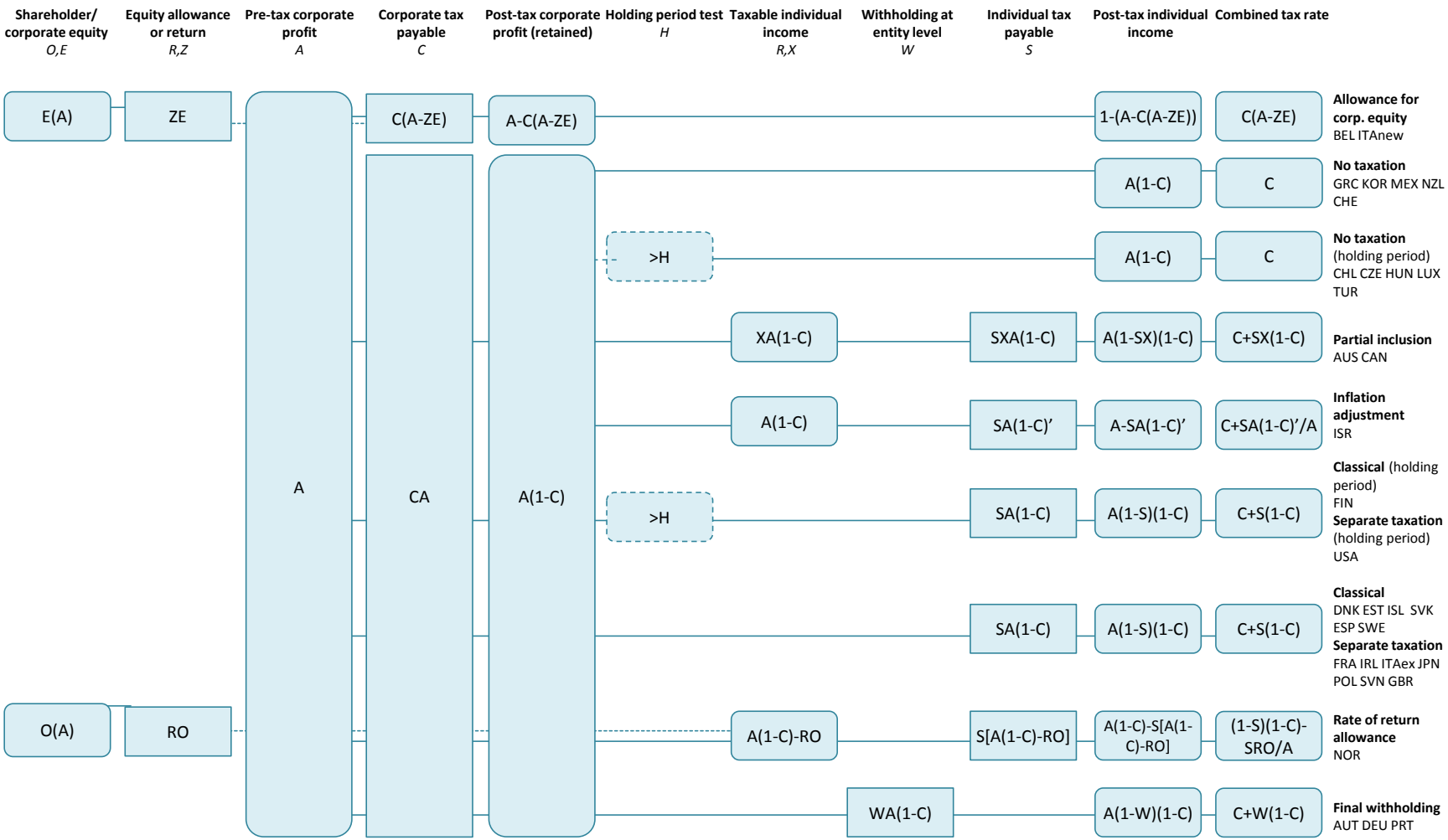


Figure 12: Schematic diagram of the tax treatment of capital gains on shares in OECD countries as at 1 July 2012[69]



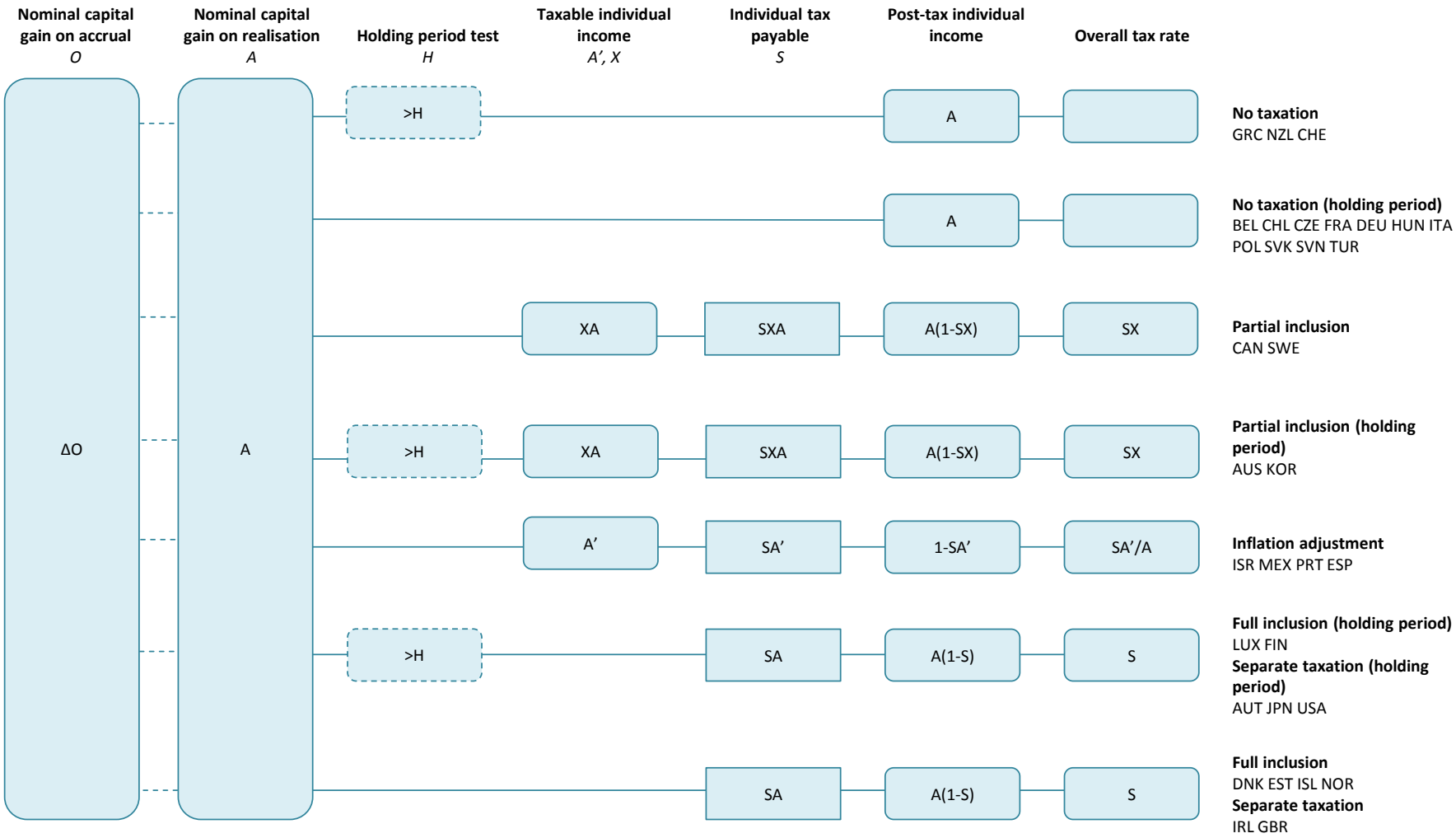
69 Figure 12 provides a diagrammatic and algebraic representation of the calculations made in Table 14. See Annex A for an explanation of the diagram.

Table 14: Calculation of tax payable on capital gains on shares at the corporate and individual levels as at 1 July 2012[70]

	Treatment	Pre-tax corporate profit	Corporate tax rate	Corporate tax payable	Retained post-tax profit	Longest holding period (yrs)	Proportion included in income	Taxable individual income	Final withholding		Shareholder		Post-tax shareholder income	Combined tax rate
									Tax rate	Tax payable	Tax rate	Tax payable		
AUS	PI*	100.00	30%	30.00	70.00	1.00	50%	35.00			47%	16.28	53.73	46.28%
AUT	FW	100.00	25%	25.00	75.00		100%	75.00	25%	18.75			56.25	43.75%
BEL	ACE	100.00	34%	8.50	91.50		100%	91.50					91.50	8.50%
CAN	PI	100.00	26%	26.14	73.86		50%	36.93			48%	17.72	56.14	43.86%
CHL	NT*	100.00	20%	20.00	80.00	1.00	100%	80.00					80.00	20.00%
CZE	NT*	100.00	19%	19.00	81.00	0.50							81.00	19.00%
DNK	CL	100.00	25%	25.00	75.00		100%	75.00			42%	31.50	43.50	56.50%
EST	CL	100.00	21%	21.00	79.00		100%	79.00			21%	16.59	62.41	37.59%
FIN	CL*	100.00	25%	24.50	75.50	10.00	100%	75.50			32%	24.16	51.34	48.66%
FRA	ST	100.00	34%	34.43	65.57		100%	65.57			39%	25.57	40.00	60.00%
DEU	FW	100.00	30%	30.18	69.83		100%	69.83	26%	18.42			51.41	48.59%
GRC	NT	100.00	20%	20.00	80.00								80.00	20.00%
HUN	NT*	100.00	19%	19.00	81.00	5.00							81.00	19.00%
ISL	CL	100.00	20%	20.00	80.00		100%	80.00			20%	16.00	64.00	36.00%
IRL	ST	100.00	13%	12.50	87.50		100%	87.50			48%	42.00	45.50	54.50%
ISR	PI^	100.00	25%	25.00	75.00		100%	75.00			20%	15.00	60.00	40.00%
ITA (new)	ACE	100.00	28%	6.88	93.13		100%	93.13			20%	18.63	74.50	25.50%
ITA (ex)	ST	100.00	28%	27.50	72.50		100%	72.50			20%	14.50	58.00	42.00%
JPN	ST	100.00	37%	37.00	63.00		100%	63.00			10%	6.30	56.70	43.30%
KOR	NT	100.00	24%	24.20	75.80								75.80	24.20%
LUX	NT*	100.00	29%	28.80	71.20	0.50							71.20	28.80%
MEX	NT	100.00	30%	30.00	70.00								70.00	30.00%
NLD	PR	100.00	25%	25.00	75.00		100%	100.00			30%	30.00	45.00	55.00%
NZL	NT	100.00	28%	28.00	72.00								72.00	28.00%
NOR	RRA	100.00	28%	28.00	72.00		100%	44.50			28%	12.46	59.54	40.46%
POL	ST	100.00	19%	19.00	81.00		100%	81.00			19%	15.39	65.61	34.39%
PRT	FW	100.00	32%	31.50	68.50		100%	68.50	25%	17.13			51.38	48.63%
SVK	CL	100.00	19%	19.00	81.00		100%	81.00			19%	15.39	65.61	34.39%
SVN	ST	100.00	18%	18.00	82.00	20.00	100%	82.00			5%	4.10	77.90	22.10%
ESP	CL	100.00	30%	30.00	70.00		100%	70.00			27%	18.90	51.10	48.90%
SWE	CL	100.00	26%	26.30	73.70		100%	73.70			30%	22.11	51.59	48.41%
CHE	NT	100.00	21%	21.17	78.83								78.83	21.17%
TUR	NT*	100.00	20%	20.00	80.00	1.00			10%		10%		80.00	20.00%
GBR	ST	100.00	24%	24.00	76.00		100%	76.00			28%	21.28	54.72	45.28%
USA	ST*	100.00	39%	39.10	60.90	1.00	100%	60.90			21%	12.97	47.93	52.07%

[70] Table 14 provides the full calculation of the combined statutory tax rates that are summarised in Figure 9 and Table 9. The underlying assumptions are set out in the first section of the paper and the footnotes for Table 9.

Figure 13 | Schematic diagram of the tax treatment of capital gains on real property in OECD countries as at 1 July 2012[71]



[71] Figure 13 provides a diagrammatic and algebraic representation of the calculations made in Table 15. See Annex A for an explanation of the diagram.

Table 15: Calculation of tax payable on capital gains on real property at the individual level as at 1 July 2012[72]

	Type of interest treatment	Nominal capital gain on realisation	Longest holding period (yrs)	Proportion included as taxable	Taxable individual income	Personal tax rate	Personal tax payable	Post-tax individual income	Combined tax rate
AUS	PI*	100.00	1.00	50%	50.00	47%	23.25	76.75	23%
AUT	ST*	100.00	35.00	50%	50.00	25%	12.50	87.50	13%
BEL	NT*	100.00	5.00					100.00	
CAN	PI	100.00		50%	50.00	48%	23.99	76.02	24%
CHL	NT*	100.00	1.00					100.00	
CZE	NT*	100.00	5.00					100.00	
DNK	FI	100.00		100%	100.00	46%	45.50	54.50	46%
EST	FI	100.00		100%	100.00	21%	21.00	79.00	21%
FIN	FI*	100.00	10.00	100%	100.00	32%	32.00	68.00	32%
FRA	NT*	100.00	30.00					100.00	
DEU	NT*	100.00	10.00					100.00	
GRC	NT	100.00						100.00	
HUN	NT*	100.00	15.00					100.00	
ISL	FI	100.00		100%	100.00	20%	20.00	80.00	20%
IRL	ST	100.00		100%	100.00	30%	30.00	70.00	30%
ISR	PI^	100.00		100%	100.00	25%	25.00	75.00	25%
ITA	NT*	100.00	5.00					100.00	
JPN	ST*	100.00	5.00	100%	100.00	20%	20.00	80.00	20%
KOR	PI*	100.00	10.00	70%	70.00	42%	29.26	70.74	29%
LUX	FI*	100.00	2.00	100%	100.00	10%	10.00	90.00	10%
MEX	PI^	100.00		100%	100.00	30%	30.00	70.00	30%
NLD	PR	100.00		100%	100.00	30%	30.00	70.00	30%
NZL	NT	100.00						100.00	
NOR	FI	100.00		100%	100.00	28%	28.00	72.00	28%
POL	NT*	100.00	5.00					100.00	
PRT	PI^	100.00		50%	50.00	49%	24.50	75.50	25%
SVK	NT*	100.00	5.00					100.00	
SVN	NT*	100.00	20.00					100.00	
ESP	PI^	100.00		100%	100.00	27%	27.00	73.00	27%
SWE	PI	100.00		100%	100.00	30%	30.00	70.00	30%
CHE	NT	100.00						100.00	
TUR	NT*	100.00	5.00					100.00	
GBR	ST	100.00		100%	100.00	28%	28.00	72.00	28%
USA	ST*	100.00						100.00	

[72] Table 5 provides the full calculation of the combined statutory tax rates that are summarised in Figure 10 and Table 10. The underlying assumptions are set out in the first section of the paper and the footnotes for Table 10.

5. Conclusion

OECD countries apply a range of approaches to the taxation of the different forms of capital income considered in this paper: dividends on shares, interest income, and capital gains and shares on property. These approaches can be classified into a number of distinct types of system based on the tax base at various stages of taxation, the mechanisms used to assess and apply personal level taxation, and, for dividends and capital gains on shares, the approach to integration between corporate and personal level taxation. The different systems, and the tax rates applied within each, determine the combined statutory tax rate on each type of income.

Dividends and capital gains on shares are subject to taxation at both the corporate and personal levels and the integration between these two levels of taxation influences the overall rate of taxation applied. Different methods to integration adopted across the OECD include: no integration, where all post corporate-tax income is taxable at the personal level; partial inclusion, where only part of post corporate tax income is taxable; imputation systems, where post corporate-tax income is grossed up to approximate pre-tax income and credits offset corporate tax at the personal level. At the personal level, the amount of income determined as taxable to the shareholder can be taxed under general income tax rates, reduced rates applied to capital income, separate capital gain rates, or final withholding rates.

Similarly, a range of approaches to taxation at the personal level are applied to interest income and capital gains on shares across the OECD. All or part of these forms of income may be taxable; through a range of mechanisms including general income taxation, final withholding rates on interest or separate capital tax rates on capital gains. In addition, capital gains on property are often untaxed, particularly if realised after the conclusion of a defined holding period.

The different approaches to the taxation of each of these asset types and the resulting combined statutory tax rates are shown in Table 16 on the next page for each OECD country. The combined statutory rates are also shown in Figure 14.

Table 16: Interest, dividends, and capital gains tax systems and combined statutory rates in OECD countries as at 1 July 2012[73]

	Dividends		Interest		Gains on shares		Gains on property	
	Treatment	*Rate*	*Treatment*	*Rate*	*Treatment*	*Rate*	*Treatment*	*Rate*
AUS	IM	47%	FI	47%	PI*	46%	PI*	23%
AUT	FW	44%	FW	25%	FW	44%	ST*	13%
BEL	ACE	31%	FW	25%	ACE	8%	NT*	0%
CAN	IM*	50%	FI	48%	PI	44%	PI	24%
CHL	IM	40%	PI^	40%	NT*	20%	NT*	0%
CZE	FW	31%	FW	15%	NT*	19%	NT*	0%
DNK	CL^	57%	FI	46%	CL	57%	FI	46%
EST	DD	21%	NT	0%	CL	38%	FI	21%
FIN	PI	41%	FW	30%	CL*	49%	FI*	32%
FRA	FW	61%	FW	44%	ST	60%	NT*	0%
DEU	FW	49%	FW	26%	FW	49%	NT*	0%
GRC	FW	40%	FW	10%	NT	20%	NT	0%
HUN	FW	32%	FW	16%	NT*	19%	NT*	0%
ISL	CL	36%	FI	20%	CL	36%	FI	20%
IRL	CL	55%	FW	30%	ST	55%	ST	30%
ISR	CL^	44%	FW^	25%	PI^	40%	PI^	25%
ITA[74]	ACE	26%	FW	20%	ACE	26%	NT*	0%
JPN	CL^	43%	FW	20%	ST	43%	ST*	20%
KOR	IM*	50%	FW	15%	NT	24%	PI*	29%
LUX	PI	43%	FW	10%	NT*	29%	FI*	10%
MEX	IM	30%	PI^	30%	NT	30%	PI^	30%
NLD	PR	55%	PR	30%	PR	55%	PR	30%
NZL	IM	33%	FI	33%	NT	28%	NT	0%
NOR	RRA	40%	FI	28%	RRA	40%	FI	28%
POL	FW	34%	FW	19%	ST	34%	NT*	0%
PRT	FW	49%	FW	25%	FW	49%	PI^	25%
SVK	NT	19%	FW	19%	CL	34%	NT*	0%
SVN	CL	34%	FW	20%	ST	22%	NT*	0%
ESP	CL	49%	FI	27%	CL	49%	PI^	27%
SWE	CL	48%	FI	30%	CL	48%	PI	30%
CHE	CL	53%	FI	40%	NT	21%	NT	0%
TUR	PI	34%	FW	15%	NT*	20%	NT*	0%
GBR	IM^	51%	FI	50%	ST	45%	ST	28%
USA[75]	CL^	52%	FI	42%	ST*	52%	ST*	[76]

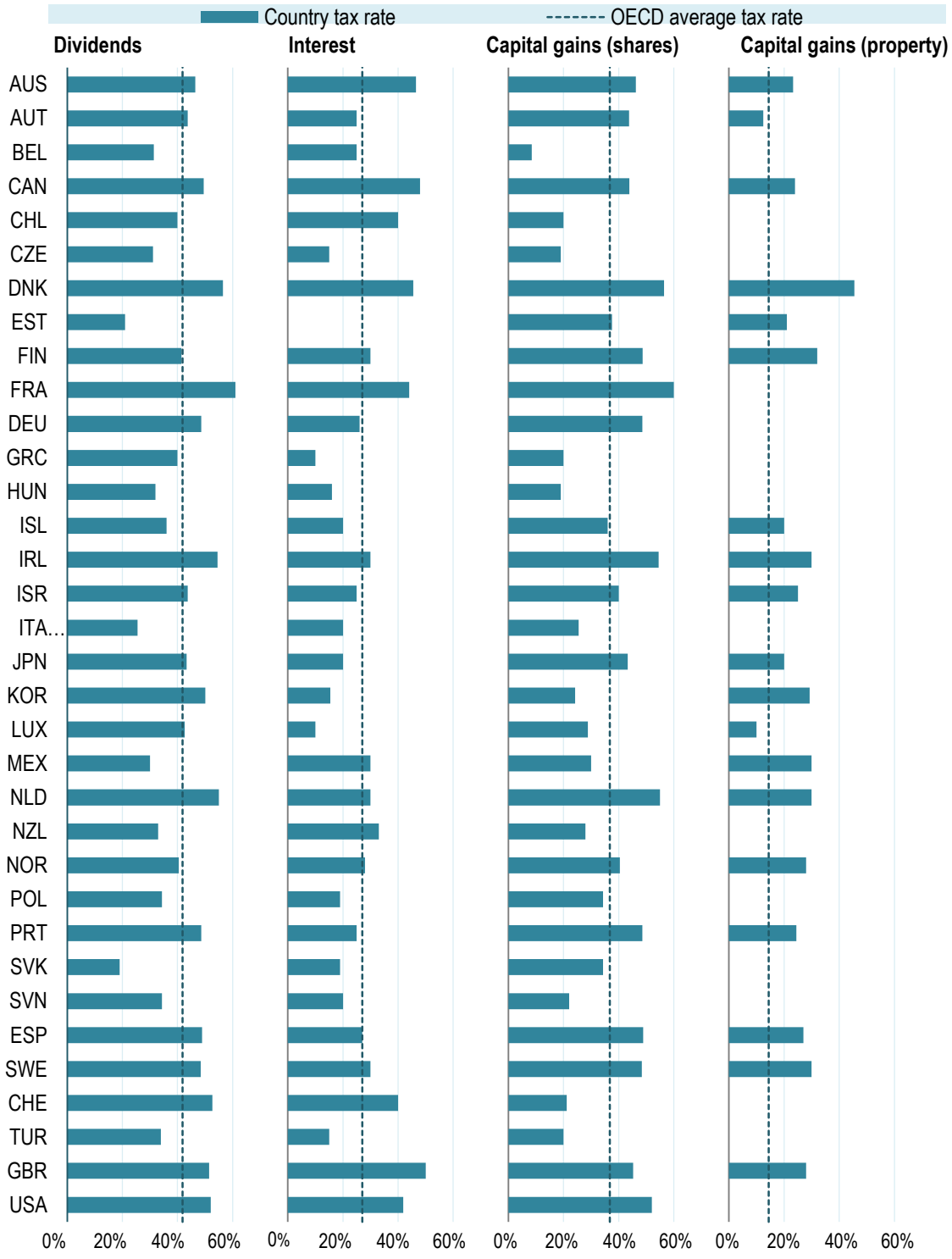
[73] The information shown in Table 16 is also shown in graphical form in Figure 14. The assumed rate of return in is 4%. The impact of other rates of return on the calculations for Belgium, new equity in Italy, the Netherlands and Norway are shown in Figures 5 and 6.

[74] For Italy, Table 16 shows the treatment of new corporate equity for which an allowance for corporate equity is applied at the corporate level. A final withholding tax system (for dividends) and a separate taxation system (for capital gains on shares) apply at the individual level. The treatment of existing equity differs for dividends and capital gains on shares and is described in the respective sections of this paper.

[75] Tax rates in the United States were changed as of 1 January 2013 under the American Taxpayer Relief Act of 2012. For a description of these changes, see OMB (2013) at p 175.

[76] The tax rate on gains on real property in the United States varies under a number of assumptions. See Box 2 for a description of the tax system and an estimated rate for a particular set of assumptions.

Figure 14: Combined statutory tax rates on interest, dividends, and capital gains as at 1 July 2012[77]



77 The data used to calculate Figure 14 is shown in tabular form in Table 16. The underlying assumptions are set out in the footnotes to Table 14. The tax rate on gains on real property in the United States varies under a number of assumptions and is therefore not shown in this figure. See Box 2 for a description of the tax system and an estimated rate for a particular set of assumptions.

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Annex A

EXPLANATION OF DIAGRAMMATIC REPRESENTATION OF TAX SYSTEMS

Figures 2, 4, 7, and 8 illustrate how the tax base for different forms of income differs depending on the particular system of taxation employed. Each diagram sets out pre-tax income *A* at the left and traces the tax treatment through to the individual's post-tax income. The final column of each diagram shows the combined tax rate, relative to pre-tax income. The types of systems are listed at the right hand side of the diagrams.

In the diagrams, each horizontal line follows a particular type of tax system through a number of stages between pre-tax (corporate or individual) income and the individual's post-tax income. These stages are shown in Table A1.

Table A1: Progression of pre-tax income to post-tax individual income

	Dividends	**Interest**	**Capital gains (shares)**	**Capital gains (real property)**
Corporate level	Pre-tax profit Tax payable Post-tax profit		Pre-tax profit Tax payable Post-tax profit (retained)	
Individual level	Taxable income Imputation, dividend credits, withholding taxes Tax payable Post-tax income	Investment income Taxable income Withholding taxes Tax payable Post-tax income	Nominal capital gain on realisation Taxable income Withholding taxes Tax payable Post-tax income	Nominal capital gain on realisation Taxable income Tax payable Post-tax income

The boxes illustrate the impact of the tax system on the income flow as set out in the prior box. Not all stages may be relevant to a particular tax system and may apply differently between different tax systems depending on their particular rules, as indicated in mathematical terms in the boxes at each stage. The rounded boxes represent an amount of profit or income: the squared boxes represent an amount of tax or tax credit. The vertical placement of the boxes indicates the applicable tax system.

Where the tax system does not affect a particular stage, the column in the diagrams representing that stage is left blank and the line passes through the column. A solid line in the diagrams represents a link from one box to the next. A dotted line on the diagrams shows an indirect link between the first box on the line and the last.

Pre-tax corporate profit is designated as *A* in the diagrams and shown in the third column of the diagrams relating to the tax treatment of dividend income and capital gains on shares. Pre-tax corporate profit is a function of corporate equity, which is denoted in the diagrams as *E*. Corporate and shareholder equity are shown in the first column of the diagram. Where these have a direct impact on the combined tax rate (for example, as is the case in Norway, the Netherlands and Belgium) this is shown explicitly on the graph (connected by dotted lines to the first point of impact).

The tax rate and rules that apply at the corporate level are not shown further than this in the diagram. In particular, rules around depreciation, deductibility of expenses, and other corporate tax rules are not considered. This leads to the post corporate tax position being shown as *A(1-C)* for all countries excluding Belgium and Italy, where the allowance for corporate equity is taken into account.

Four factors that determine the tax applied at individual level are summarised in Table A3. Of these, only those in the top row are included in the diagrams.

Table A2: Factors influencing the tax applied at individual level and options for each

	A. Base	**B. Rate**
1. Included in diagrams	A1. Amount of post-tax dividend or capital gains income included in individual income • Full inclusion • Partial inclusion • Grossing-up • No inclusion	B1. Withholding rates and imputation credits • Preliminary withholding rates • Final withholding rates • Imputation or dividend tax credits • No withholding rates or imputation or dividend tax credits
2. Not included in diagrams	A2. Tax base that the post-tax dividend or capital gains income is included in: • Global income (both capital and labour income) • Capital income • A subset of capital income • Separate taxation	B2. Nature of tax rate applied at individual level (S): • Progressive rate structure • Flat rate structure • Preferential rate • No tax applied at individual level

The options in each box can be combined with the options in each other box. For example, if the full amount of post-tax dividend or capital gains received by the individual is considered taxable (A1), this could be included with any tax base (under A2): a global income tax base; a capital income tax base; some subset of this; or it could be taxed entirely separately. However, some of the options above have prerequisites in other areas, or limit the options available under other factors. An example of this is a final withholding tax (B1), which requires that the income is taxed separately from other income (A2) and in practice, means the income is taxed at a flat rate (B2).

Annex B

COMBINED TAX RATES IN EACH OECD COUNTRY

Figures B1 to B34: Combined tax rates across interest, dividends, capital gains, personal and corporate income in each OECD country as at 1 July 2012

Figure B1 | Australia

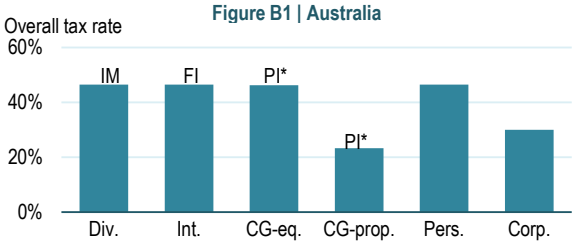


Figure B2 | Austria

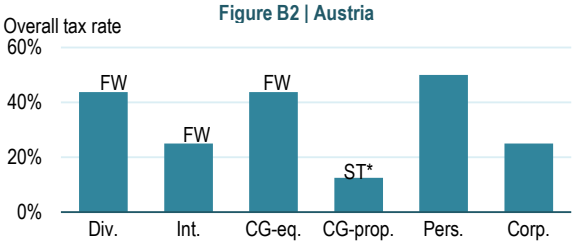


Figure B3 | Belgium

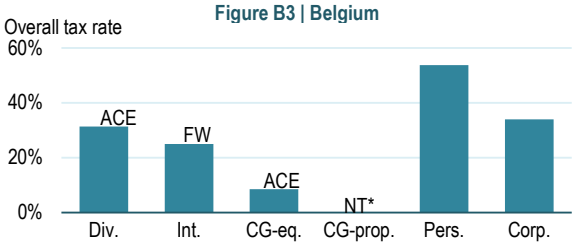


Figure B4 | Canada

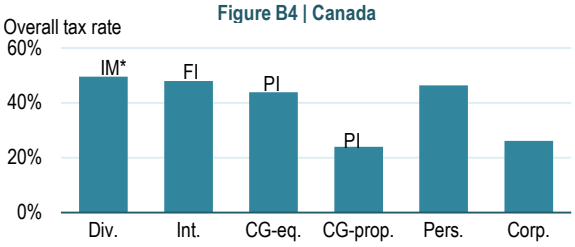


Figure B5 | Chile

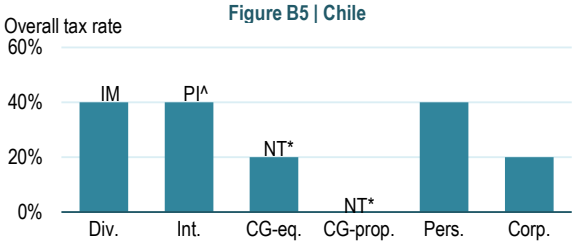


Figure B6 | Czech Republic

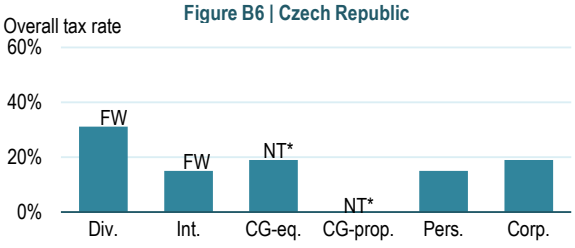


Figure B7 | Denmark

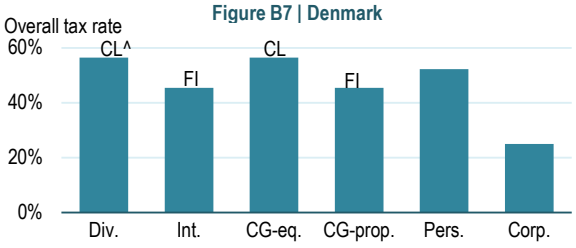


Figure B8 | Estonia

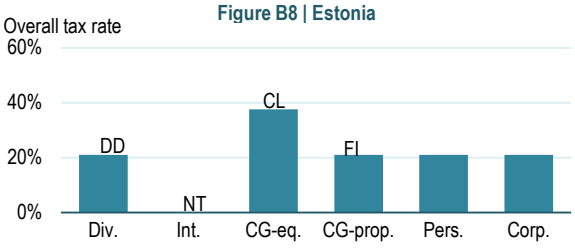


Figure B9 | Finland

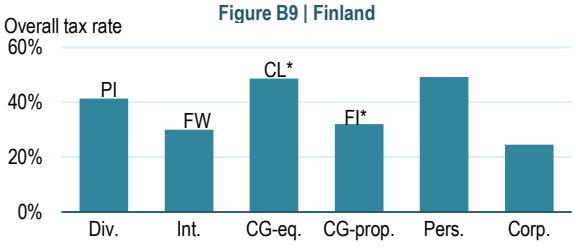


Figure B10 | France

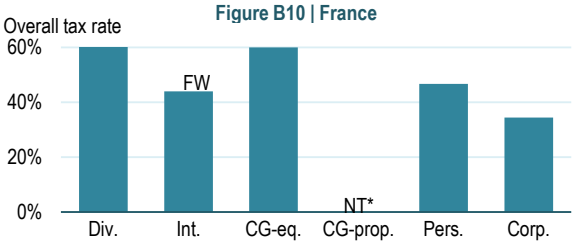


Figure B11 | Germany

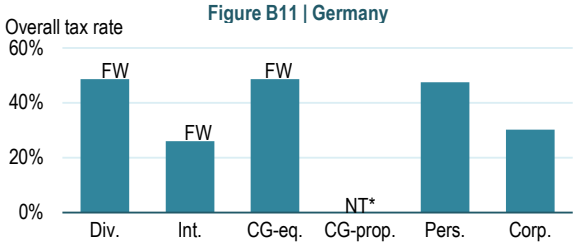


Figure B12 | Greece

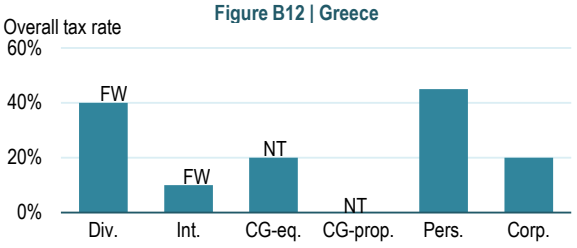


Figure B13 | Hungary

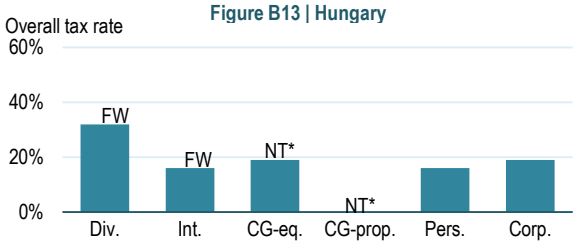


Figure B14 | Iceland

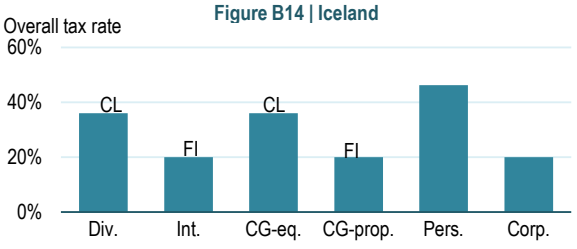


Figure B15 | Ireland

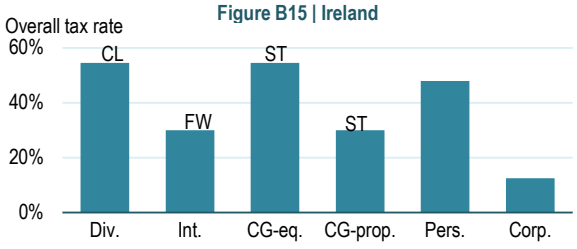


Figure B16 | Israel

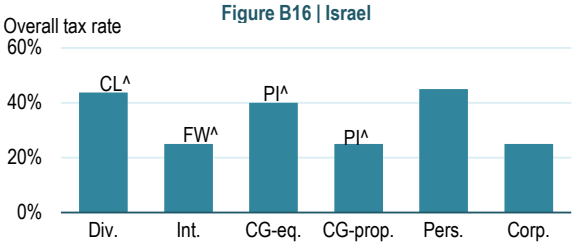


Figure B17 | Italy

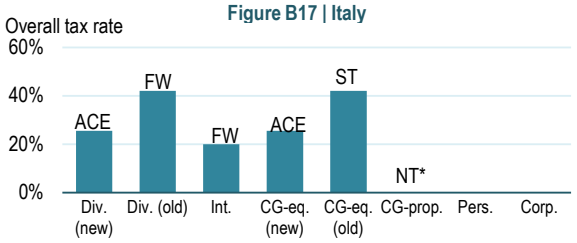


Figure B18 | Japan

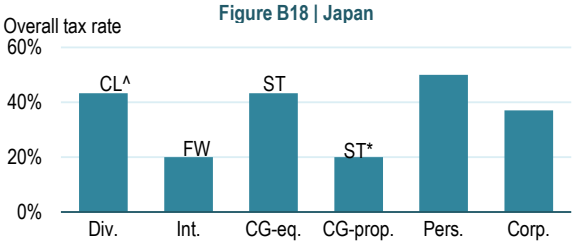


Figure B19 | Korea

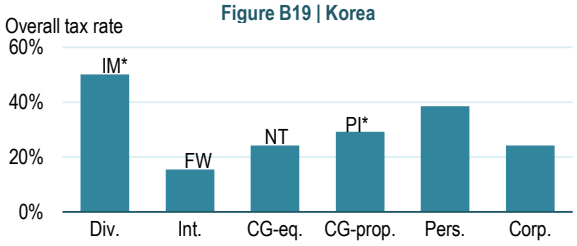


Figure B20 | Luxembourg

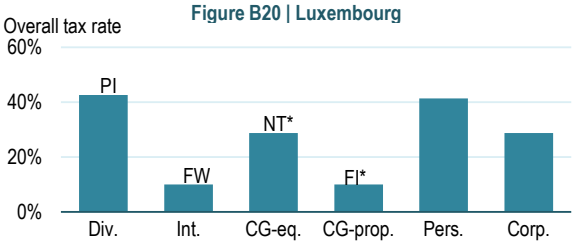


Figure B21 | Mexico

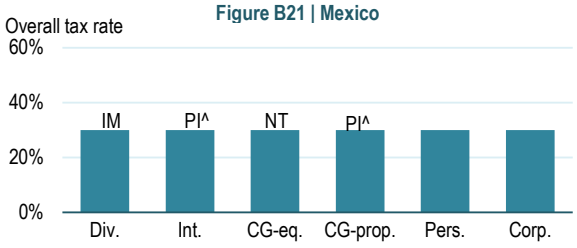


Figure B22 | Netherlands

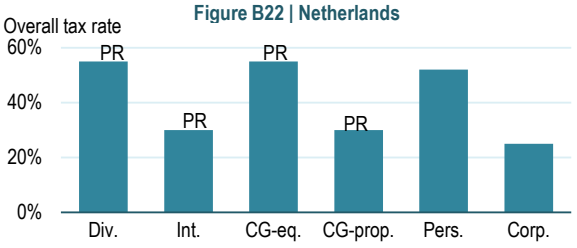


Figure B23 | New Zealand

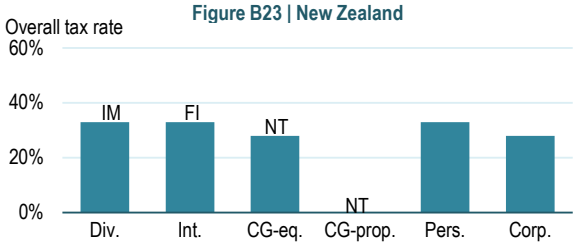


Figure B24 | Norway

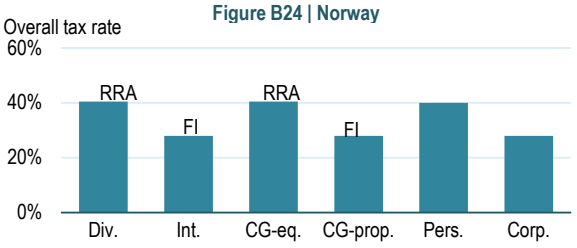


Figure B25 | Poland

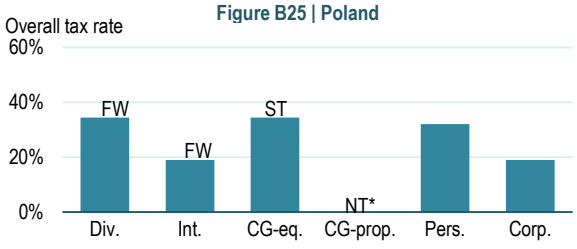


Figure B26 | Portugal

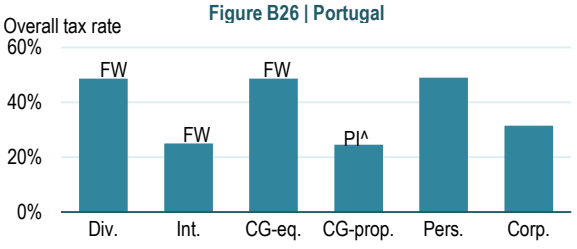


Figure B27 | Slovak Republic

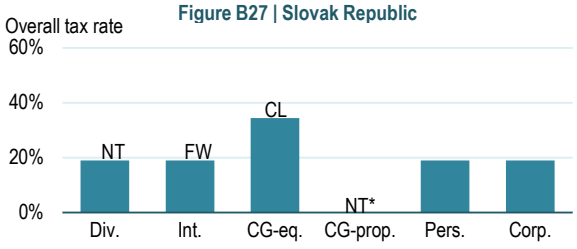


Figure B28 | Slovenia

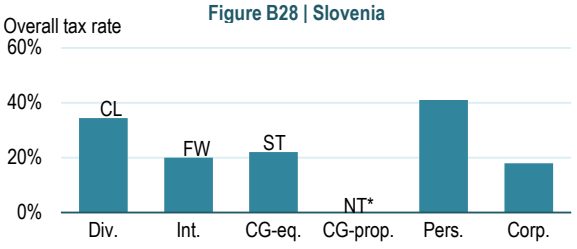


Figure B29 | Spain

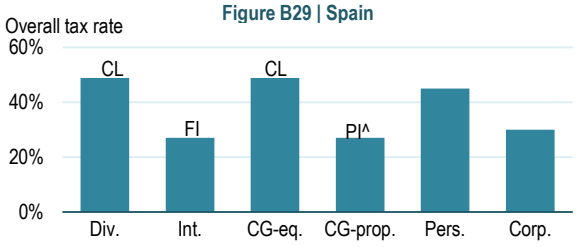


Figure B30 | Sweden

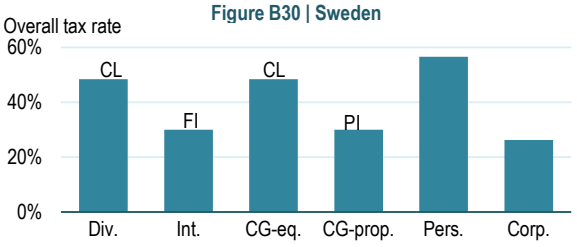


Figure B31 | Switzerland

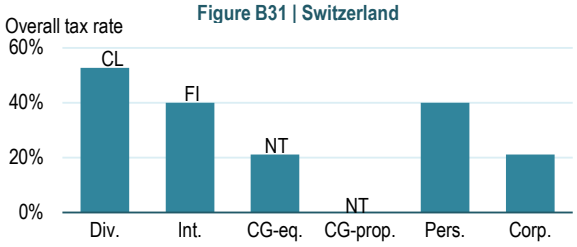


Figure B32 | Turkey

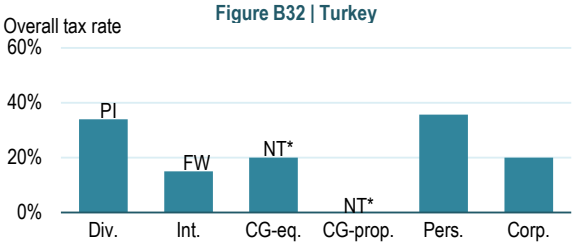


Figure B33 | United Kingdom

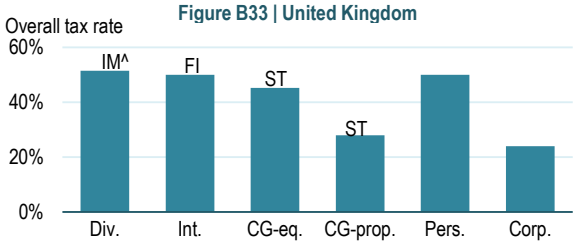
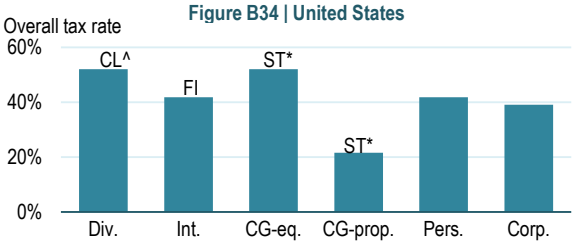


Figure B34 | United States



Annex C

CHANGE IN TAX TREATMENT GIVEN PROPORTION OF OWNERSHIP

	Type of income	Threshold	Effect of substantial holding
Czech Republic	Gains on shares	5% (ownership or voting)	Gains exempt from tax after 5 years (rather than 6 months); prior to this a 15% tax rate applies
France	Gains on shares	Shareholder active in entity	Treated as a business portfolio gain
Germany	Interest	10% ownership	Progressive tax rates apply (rather than the flat capital rate)
	Gains on shares	1% directly or indirectly held (over last 5 years)	Treated as business income; 60% is taxable.
Ireland	Dividends	Closely held company (less than 5 owners)	Treated as employment income
	Interest	Shareholders/directors in some circumstances	Treated as dividends
Israel	Dividends & Gains on shares	10% ownership or means of control (year of sale or prior year)	Taxed at 30% (rather than 25%)
Italy	Dividends & Gains on shares	Listed companies: 2% of voting rights or 5% of ownership. Otherwise: 20% voting rights and 25% ownership	49.72% of the income is included from the tax base which is taxed at X (rather than under a final withholding rate or a separate tax rate of 20%)
Korea	Gains on shares	3% ownership (including related parties)	Taxed at 20% or 30% (rather than exempt)
Luxembourg	Dividends	10% ownership, (including partner and minor children, over last 5 years)	May be treated as a dividend
	Gains on shares	10% ownership, (including partner and minor children, over last 5 years)	Exemption after 6 month holding period does not apply
Mexico	Gains on shares	10% ownership (directly or indirectly) if more than 10% of company disposed of within 2 years	Exemptions from capital gains tax do not apply
Netherlands	Dividends and capital gains (shares)	5% ownership	Treated as box 2 income (and taxed at 25%) rather than as box 3 income
Sweden	Dividends and Gains on shares	Shareholder active in company	Payment or gain below a prescribed amount is taxed as capital income at 2/3 of the standard statutory capital tax rate (flat); payment or gain in excess of the prescribed amount is taxed as labour income (progressive)
Switzerland	Dividends and Gains on shares	10% ownership	If held for less than one year, 50% are taxable (rather than exempt)
United Kingdom	Gains on shares	5% (ownership and voting) and employment within the company	Gains are subject to capital gains tax at 10% at the personal level (rather than 28%), for up to £10 million per individual on a lifetime basis.

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