

# EUROMOD

## COUNTRY REPORT



FINLAND (FI)  
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EUROMOD is the tax-benefit microsimulation model for the European Union (EU). It enables researchers and policy analysts to calculate, in a comparable manner, the effects of taxes and benefits on household incomes and work incentives for the population of each country and for the EU as a whole.

EUROMOD covers the 27 Member States and is yearly updated to cover the most recent changes in countries' policy systems. It uses input databases which are also updated on a yearly basis, coming mainly from the European Union Statistics on Income and Living Conditions (EU-SILC). The model yearly update is supported by the following Directorate-Generals of the European Commission: DG EMPL, DG ECFIN, DG TAXUD, DG REFORM, DG JRC, DG ESTAT.

Originally maintained, developed and managed by the Institute for Social and Economic Research (ISER), since 2021 these responsibilities are taken over by the Joint Research Centre (JRC) of the European Commission, in collaboration with Eurostat and 27 national teams from the EU countries.

The EUROMOD governance structure consists of a Steering Committee, allowing partner DGs to monitor the process of the EUROMOD update, and a Scientific Advisory Board to monitor and guide the scientific development of the model.

This report documents the work done in the most recent annual update for Finland. This work was carried out by the EUROMOD core development team, based at the JRC in Seville, in collaboration with the national team.

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The results presented in this report are derived using EUROMOD version I5.0+. EUROMOD is continually being improved and the results presented here may not match those that would be obtained with earlier or later versions of EUROMOD.

For more information see <https://euromod-web.jrc.ec.europa.eu/>

The information contained in this document does not reflect the position or opinion of the European Commission.

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# 1. BASIC INFORMATION<sup>1</sup>

## 1.1 Basic information about the tax-benefit system

- The Finnish tax-benefit system is largely a uniform national system. The main exceptions are local tax rates which differ across municipalities and Churches and housing benefits which differ in different parts of the country.
- The “fiscal year” in taxation is the calendar year.
- The personal income tax system is individual with spouses being assessed independently. However, in some cases, it is possible to transfer tax deduction between spouses.
- Compulsory school starts normally in the year when the child turns seven years. The age when obligatory schooling ends is normally 17 years.
- Dependent child is generally defined as being less than 18 years old. For some instruments the dependent children are defined as below 17 years old.
- There are two complementary pension systems, a national pension based on the residence and an earnings-related pension based on the employment history.
- Until 2016, the earnings-related pension system allowed a person to choose the retirement flexibly between the age of 63 and 68 years. Starting from year 2017, the earliest eligibility age for old-age pension (and upper age limit) will rise 3 months/age cohort to 65 years, after which it will be linked to life expectancy. It is also possible to continue working after the upper age limit or retire earlier. In the first case the amount of pension increases and in the second case decreases permanently. The retirement age for national pension is 65 years for both men and women. For persons born after 1965, the retirement age will be linked to life expectancy.
- For benefit purposes lone parents are defined as parents with dependent child and not co-habiting with another person in a marriage-like relationship.
- The benefit schemes are basically divided into two types depending on how they are financed. With some exceptions the basic (minimum) social security benefits are financed by the state and earnings-related contributory benefits by employees, self-employed and employers.
- Earnings-related benefits are calculated on the basis of annual or monthly income. They are usually paid out on a daily basis (except pensions which are paid on a monthly basis). Unemployment benefits are paid out on a working day basis (from Monday to Friday), whereas other daily allowances are paid out on a weekday basis (from Monday to Saturday).
- Almost all social benefits are adjusted annually either by price index or by “mixed” indices. None of the social benefits are adjusted by earnings index.
- Means-testing is defined as testing against spouse’s, household’s or person’s own income.
- Earnings-related benefits are not means-tested except the survivor’s pension, which is means-tested against person’s other pensions.
- Taxable benefits are paid to individuals. Non-taxable benefits are paid to individuals and households or, in case of local income support / social assistance, to individuals and families.

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<sup>1</sup> All sources referred in this report are listed in References in Chapter 5.

- Eligibility considerations for unemployment benefits can entail means-testing if a person is partly-employed. Partly employed persons may receive unemployment benefits and wage income at the same time if certain conditions are met (so-called conciliated adjustable allowance). In this case the unemployment benefit is cut by half of the wage income. Beginning in 2014 there is a free amount, 300 euros/month, which can be earned without affecting the unemployment benefit.
- Basic or minimum social security benefits may be means-tested or not. Family benefits are generally not means-tested with an exception of child home care allowance.
- Most of the benefits are subject to income tax. The most important non-taxable benefits are housing allowances, child benefit and local authority income support / social assistance. Some disability benefits are also non-taxable.
- Tax liability is based on annual income and tax allowances and thresholds are referred to in annual terms.
- Personal income taxation is based on a dual income tax system where all incomes are divided into earned and capital income. Both income types are taxed separately with different rates. Earned income includes employment, pension and other benefit incomes. Capital income includes e.g. return on deposits, property and investment as well as gains from sale of property. Only net incomes are taxed meaning that expenses directly related to the income are deductible in both capital and earned taxation.
- Income from self-employment is divided into earned and capital income in personal taxation. This is to address the fact that income is generated both from labour and capital inputs committed by self-employed. Two main types of self-employed are entrepreneurs and farmers.
- Monetary tax parameters are not automatically indexed with the exception of pension deduction parameters in state and local taxation. These deductions are based on full national pension which is adjusted by price index. All other possible changes in tax rules (deductions, income limits in the schedule, marginal rates, etc.) are decided annually.
- There are three taxes based on earned income: state tax, municipal tax and church tax. The latter is based on voluntary membership in the Church.
- The earned income subject to tax is the same in state and local taxation but tax allowances, and thus tax bases, differ.
- Municipal and church tax rates are flat and applied to local tax base. They are decided independently by municipalities and parishes.
- A progressive tax schedule is applied to earned income tax base in state taxation.
- Although earned income and capital income are taxed separately there are links between them. Some tax credits are subtracted both from earned and capital income taxes. Some interests are deductible in capital taxation but may also be deductible (a share of them) from earned income taxes.

## 1.2 Social benefits

Social security benefits can be divided into three different categories. The first consists of *contributory* earnings-related benefits. Entitlements to these benefits are usually based on contributions paid by employees, self-employed and employers. The second type of benefits is *non-contributory, non-means-tested* benefits. These benefits depend on specific conditions such as disability or parenthood. The third type of benefits is *means-tested benefits* which depend on a range of personal or family circumstances and on own or family incomes.

### 1.2.1 Contributory benefits

All the contributory benefits (incl. pensions) are earnings-related. The contributions depend on the size of earnings with an exception of earnings-related unemployment allowance where the fee to the fund may be a flat amount. Most of the contributory schemes are statutory for employees. The contributory benefits, as all other earnings replacement benefits, are taxable and usually not subject to any means-testing. There is no upper limit for employee, self-employed or employer contributions. Neither there is any ceiling in any of the contributory benefits. The main such benefits are the following:

**Earnings-related pension** (*työeläke*) is paid as disability pension, unemployment pension or old-age pension.

**Earnings-related disability pension** (*työkyvyttömyyseläke*) is allowed to a person aged between 18–62 years and who is incapable to work because of illness, handicap or injury. Since 2017, the upper age limit follows the earliest eligibility age of the old-age pensions (see paragraph 1.1). Depending on the reduction in work ability the disability pension is paid either as a full or partial pension. Often a temporary **earnings-related rehabilitation subsidy** (*kuntoutustuki*) is paid before the disability pension benefit. The amount of the rehabilitation subsidy is the same as disability pension. It is also paid either as a full or partial benefit.

**Earnings-related old-age pension** (*vanhuuseläke*) scheme is flexible. Before 2017, a person could choose to retire between 63–68 years of age. Since 2017, the age limits are increased 3 months/age cohort yearly until the lower limit reaches 65 years. For persons born after 1965, the age limits will be linked to life expectancy. There is an incentive to carry on working in the sense that the employment income accrues more pension income in the old ages. In the pension reform 2017, a new increment for deferred retirement age was introduced. The pension may be deferred beyond the age of 68 (or the upper age limit in the new system). In this case the pension is increasing by 0.4 per cent for every postponed month.

**Years-of-service pension** (*työuraeläke*) is a new pension type introduced in 2017. A person is eligible to the years-of-service pension, if she/he has working life spanning 38 years and works in strenuous and wearing work. The age limit is 63 until the earliest eligibility age for old-age pension is 65 years. After that the age limit will be linked to life expectancy. The level of years-of-service pension is somewhat lower than the disability pension.

**Part-time pension** (*osa-aikaeläke*) is designed for an employee or self-employed who wants to work less and retire (partly) earlier. The age limits when it is possible to retire are the following: a) 58–64 if born before 1947, 58–67 if born in 1947–1952, 60–67 if born in 1953 and 61–67 if born after 1953. To be eligible to the benefit, earnings must also be reduced by 35–70 per cent from full-time work to part-time work. The amount of the part-time pension is 50 per cent of the difference between the full-time and part-time earnings, but at most 75 per cent of that old-age pension which is accrued up to the start of the part-time pension. The full-time earnings are calculated as the mean of the previous five years monthly wage. Since 2017, part-time pension was replaced by partial old-age pension (*osittainen varhennettu vanhuuseläke*). The age limit will be rise to 62 years in 2025, after which it will be increased along with the increase in the earliest eligibility age for the old-age pension. In the new system, there is no requirements concerning the reduction of the number of working hours. The partial old-age pension amounts to 25 % or 50 % of the accrued pension. A reduction for early retirement will be made to a pension drawn before the earliest eligibility age for old-age pension.

**Survivors' pension** (*perhe-eläke*) can be paid to a surviving spouse, former spouse (in some cases) and to a child of the deceased. The pension is divided into two types: surviving spouse's pension and orphan's pension.



**Workers' compensation pension** (*tapaturmaeläke*) is paid to all employees and farmers in case of accident at work or on the journey between home and work. The pension is paid to the injured after the daily allowance period has expired (maximum one year). The full work injury pension amounts to 85 per cent of annual earnings if a person is less than 65 years and 70 per cent if at least 65 years. The pension may be paid as full or partial.

**Earnings-related unemployment allowance** (*ansiopäiväraha*) is an allowance for unemployed persons aged between 17–64 years who are registered as full-time job seekers at the employment office. The claimant must be a member of unemployment fund and meet the working condition. The allowance is payable for a maximum of 500 working days. From 2017, the maximum period is 400 days and unemployed persons with an employment history of three years or less will be able to get the benefit for a maximum of 300 days.

**Sickness leave benefit** (*sairauspäiväraha*) is paid from the sickness insurance. Eligible are 16–67 year-old employees and self-employed. The benefit is normally paid for maximum of 300 weekdays. The benefit amount is based on person's previous employment income reported to the tax authorities or on the last 6 months average employment income. Starting 1 January 2020, the daily allowances will be calculated on the basis of annual income. The annual income is calculated for a reference period of 12 calendar months prior to the month that precedes the start of the entitlement to the allowance. For self-employed the benefit is based on the estimated employment income which is the base for all their contributory benefits.

**Special care allowance** (*erityishoitoraha*) is paid during the hospital treatment of a child under the age of 16 and the subsequent care at home. In order for a parent to be granted special care allowance, a medical statement must be issued by the attending physician regarding the seriousness of the illness and the necessity for the parent to participate in the care and treatment of the child. The special care allowance is intended to compensate for loss of income if the parent has to stay home from work without pay because the child is undergoing medical treatment.

**Maternity leave benefit** (*äitiysraha*) is paid for 105 weekdays. **Parental leave benefit** (*vanhempainraha*) is paid either to a mother or to a father when the maternity leave period has expired. The benefit is paid for 158 weekdays to the parent who stays at home and takes care of the child. Both parents cannot receive the parental leave benefit at the same time. Increased parental leave benefit is paid for the first 30 days of parental leave (the increase was abolished since 2016). Since April 2019, mothers raising a child on their own will become eligible for an additional 54 working days of parental allowance payments. **Paternity leave benefit** (*isyyssraha*) is paid to a father for 54 days. The benefit can be divided into maximum of four distinct periods during the maternity or parental leave periods. Of these 54 days 18 days can be taken at the same time as the maternity leave. The standard amount of paternity leave benefit equals the standard parental leave benefit. Since April 2019, paternity allowance is paid for an additional 18 working days for each child born or adopted at the same time.

After the new family leave reform goes into effect on 1 August 2022, the maternity leave benefit and paternity leave benefit will be abolished. The pregnant parent will be paid a new **pregnancy allowance** (*raskausraha*) for 40 working days preceding the parents' entitlement to a parental allowance. Parental allowance for one child is paid for a total of 320 working days. If a child has two parents who are entitled to a parental allowance, both parents can take one half of the full entitlement, i.e., 160 days, and a parent can turn over up to 63 parental allowance days to the other parent.

Basically all contributory benefits are paid as non-contributory minimum benefits if a person has no work history and is thus not entitled to employment pension.

### 1.2.2 Non-contributory, non-means-tested benefits

**Basic unemployment allowance** (*peruspäiväraha*) is payable to an unemployed person aged between 17–64 years who is registered as a full-time job-seeker at the employment office and meets the working condition. The allowance is payable for a maximum of 500 working days. It is taxable. From 2017, the maximum period is 400 days and unemployed persons with an employment history of three years or less will be able to get the benefit for a maximum of 300 days.

**Child benefit** (*lapsilisä*) is a universal flat-rate benefit paid for every child under 17 years of age and resident in Finland. The benefit is paid regardless of any other benefits (or any other reasons). The amount of the child benefit per child is larger if there are more children in household, up to the fifth child. Parents may choose which one of them receives the benefit. The child benefit is not taxable.

**Disability allowance** (*vammaistuki*) is designed to provide financial support to disabled persons in everyday life. There are two types of the disability allowances with different conditions and amounts: one paid to disabled persons between 16–64 years and another paid to children aged less than 16 years. **Disability allowance for children** (*alle 16-vuotiaan vammaistuki*) is intended to provide support in the daily lives of children under 16 years who have an illness or a disability. The child can be awarded disability allowance if he or she needs regular care, attention and rehabilitation due to illness or disability. The need of care and attention must be greater than normal and last for at least six months. Both types of the allowances have three categories depending on the nature of the illness or handicap and the size of special costs. Full-time pensioners are not entitled to the disability allowance. The disability allowance is not taxable.

**Care allowance for pensioners** (*eläkettä saavan hoitotuki*) is designed to give financial support to long-time sick or disabled pensioners. The care allowance for pensioners is scaled into three groups based on the need for assistance and the size of special costs. The allowance is not taxable.

**Home care allowance** (*omaishoidon tuki*) is a compensation paid to a person who takes care of an elderly, disabled or ill person at their home. It is possible to pay the allowance to a family member, a relative or a friend. The home care allowance can also be provided in the form of services (e.g. food or transport services). The allowance is arranged by municipalities. It is taxable if paid in cash.

**Pension assistance** (*eläketuki*) Introduced in June 2017, pension assistance is aimed to provide income security for elderly long-term unemployed persons who were over 60 years of age on 1 September 2016. To be entitled, one has to have received any of the unemployment benefits for 1,250 days during the last six years. The benefit is not a pension as such, although it is by definition equal to amount to the guarantee pension.

**Family leave compensation for employers** (*perhevapaakorvaus työnantajalle*) Introduced in April 2017, family leave compensation is a one-time payment of €2,500 available to employers with paid staff who are on maternity leave or on a post-adoption parental leave. To qualify for the compensation, employers must pay the employee who is on leave a salary for at least one month. Applications for the family leave compensation must be submitted within six months of the date on which payment of maternity, paternity or parental allowance ended.

**Maternity grant** (*äitiysavustus*) can be received as a maternity package and a tax-free lump-sum cash benefit of €170 (in 2019). The maternity grant can be claimed after 154 days of pregnancy (about 5 months). To be eligible one must visit a doctor or a maternity and child welfare clinic for a health check before the 5th month of pregnancy.

**Flexible care allowance** (*joustava hoitoraha*) is paid to parents who work for 30 hours per week or less and for the rest of the time look after their child under 3 years. The amount of the flexible

care allowance is determined on the basis of the number of working hours. The flexible care allowance is taxable income. It is paid for one child at a time.

**Partial care allowance** (*osittainen hoitoraha*) is paid for children who are in the first or second year of school. One can receive partial care allowance if working no more than 30 hours a week while looking after a child.

**Adoption grant** (*adoptiotuki*) can be claimed to meet some of the cost of the adoption, if one adopts a child from abroad. Adoption grant is not available if one adopts a child from Finland. The adoption grant is a tax-free lump sum payment.

### 1.2.3 Means-tested benefits

**National pension** (*kansaneläke*) is a basic minimum pension. The national pension is paid as disability pension (at the age of 16–64 years), as unemployment pension and as old-age pension (from the age of 65 years or from the age of 63 years if anticipated old-age pensioner). The age limit for the old-age pension is 65 years which is different from the contributory earnings-related pension where the retirement age is flexible between 63–68 years. For persons born after 1965, the retirement age will be linked to life expectancy. The national pension is means-tested against person's contributory pension income. Pensioner's other income or wealth does not affect the national pension, neither does spouse's income or wealth. The amount of the national pension is different for single persons and couples who may be married or co-habiting. If a person has lived abroad long enough, the national pension is reduced in relation to the time lived abroad. The national pension is subject to tax.

**Guarantee pension** (*takuueläke*) guarantees a certain level of pension to all pensioners. It is equal for singles and spouses and it is means-tested only against other pension income. Other income than pension income or wealth does not affect it. Unlike the national pension, it doesn't depend on the time lived in Finland. The guarantee pension is subject to tax. If the pensioner has no other income than the national pension and the guarantee pension, no taxes (with the exception of the broadcasting tax for some years) are paid because of pension deductions in taxation.

**Labour market subsidy** (*työmarkkinatuki*) is granted to an unemployed person aged between 17–64 years who is registered as a job-seeker at the employment office. The benefit is designed for people who do not meet the working condition or have received the earnings-related or basic unemployment allowance the maximum of 400 (or 500) benefit days. In the latter case the labour market subsidy is not means-tested for the first 180 days. If the unemployed person is living together with his or her parents, the income of the parents is also taken into account. There is no time limit for the labour market subsidy. The benefit is taxable.

**Child home care allowance** (*kotihoidon tuki*) is designed to support the child care of small children at home. The child home care allowance includes two components: an allowance and a supplement. The first is a flat-rate benefit and the second is means-tested against other family income. In addition, municipalities may pay additional supplements and decide on the rules applied to them. The benefit is taxable. Partial or flexible care allowance may be paid out if parents reduce their working hours due to childcare (see previous section for non-contributory and non-means-tested benefits).

**Study grant** (*opintoraha*) is a benefit paid for full-time studies after comprehensive school, i.e. for upper secondary school studies or vocational, supplementary and higher degree education. The study grant is means-tested against student's other income and, in some cases, against parents' income too. It is a taxable benefit. The study grant is one component of the student's financial aid, which consists of study grant, student housing supplement (until July 2017) and student loan as well as certain subsidies, such as meal and travel subsidy.

**Housing allowance for pensioners** (*eläkkeensaajan asumistuki*) is paid to pensioners with low income. The housing allowance for pensioners can be paid to rented, right-of-occupancy and owner-occupied dwellings and also to the residential care homes. The size of the allowance depends on housing costs and on whether the pensioner lives alone or with a partner, as well as on the income and wealth of the pensioner and the partner. The housing allowance for pensioners is not taxable.

**General housing allowance** (*yleinen asumistuki*) compensates for the housing costs of low-income households. The household is defined as all persons living in the same dwelling. The housing allowance can be paid to the households living in rented, right-of-occupancy or owner-occupied dwellings. The allowance covers only the acceptable housing costs. The size of the allowance depends also on the number of adults and children living in the household, the monthly household income and the location of the dwelling. General housing allowance is not taxable.

**Local authority income support / social assistance** (*toimeentulotuki*) is the last resort income security. It ensures the minimum subsistence to all persons and families regardless of any preconditions. Any person (or family) whose income and wealth are insufficient to meet the subsistence needs is entitled to the income support. The benefit includes two components: a) a basic component which covers basic needs (e.g. costs of food, clothing, transport and minor health care costs) and b) a supplementary component which covers certain other expenses (e.g. housing costs and child day care fee). The basic component is a fixed amount and it depends on the number of adults and children in the family. The supplementary component depends on the actual costs and it is subject to the discretion of the authority. The income support is means-tested against all personal or family income after taxes, contributions and costs due to working (e.g. commute costs). In addition, the income support is also means-tested against the wealth of the family. Until 2016, the benefit was paid by the local authorities. Since 2017 the basic component is paid by the Finnish Social Insurance Institution. It is not taxable.

**Child maintenance allowance** (*elatustuki*) is paid in a separation or divorce by the Social Insurance Institution if the parent liable for maintenance does not pay it or if the amount of child support is lower than the amount of child maintenance allowance. Child maintenance allowance is also payable when there is no parent with maintenance liabilities. This is the case if, for example, one has adopted a child as a single parent or if the child was born out of wedlock and the paternity has not been confirmed. The allowance is not taxable.

#### 1.2.4 Not strictly benefits

There are elements in the Finnish social security which are not strictly benefits. Sometimes these payments may be seen as substitutes for benefits. The most important such payments are the following:

**Municipal child day-care fee** (*lasten päivähoitomaksu*) is a service charge paid by families for municipal child day-care. The municipal child day-care is an alternative to the child home care and to the private child day-care. Before 2016 all families had a “subjective right” to full-time child day-care. Entitlement begins when the period of parental allowance ends. In some cases, e.g. if the child participates in pre-school education before starting the comprehensive school, the day-care may be arranged on a part-time basis. From 2016 there are new restrictions to the entitlement to child day-care: all children under school age (7 years) are entitled to max 20 hours of child day-care (early education) per week. Families still have a “subjective right” to full-time child day-care if both parents are working, they are full-time students or in case of other special circumstances. However, some of the municipalities do not intend to limit the subjective right to the municipal day-care. The municipal child day-care fee is based on the family income. For low-income families the municipal child day-care is free of charge.

**Private day-care allowance** (*yksityisen hoidon tuki*) is paid for families whose children are in private day-care. The entitlement to the private day-care is similar to the municipal day-care (see “Municipal child day-care fee”). The private day-care allowance is paid as a flat care allowance and as a means-tested care supplement. Both are paid for each child. The care supplement is means-tested against all family income in the same way as the child home care supplement. The allowance is paid directly to the private day-care center or to the private childminder.

### 1.3 Social insurance contributions

Social insurance contributions are used to finance contributory pensions and other contributory benefits, public health care and to some extent national pensions (up to 2010). Employees have four statutory social security contributions. Three of them, earnings-related pension contribution, unemployment insurance contribution and daily allowance contribution, are based on gross wage (incl. taxable in-kind-benefits). They are all deductible in personal taxation.

Entrepreneurs have two statutory social security contributions: earnings-related pension contribution and daily allowance contribution. In addition farmers have to pay accident and group life insurance contributions. Self-employed persons, entrepreneurs and farmers, may pay and deduct their pension contributions either in their business and farming activity or in their personal taxation. In the first case the contributions are not anymore deductible in personal taxation. The daily allowance contributions are deductible only in personal taxation. Farmers subtract accident insurance and group life insurance contributions in their farming activity.

The base for all social insurance contributions of self-employed persons is a “hypothetical” YEL-income (entrepreneurs) and MYEL-income (farmers). These are not actual incomes received from self-employment but estimated employment incomes. Ideally they correspond to the income paid to an employee who would do the same work as the self-employed and with the equal professional skill.

The medical care contribution is based on the local tax base and is paid by all individuals who have positive tax base. The contribution of self-employed persons is not based on the actual local tax base but on the “hypothetical” tax base. In this tax base the actual self-employment income is replaced by YEL- or MYEL-income and the local tax deductions are subtracted from this income, except the pension contribution. We may call this the “adjusted” local tax base.

Employers finance the same contributory benefits as employees and self-employed. In addition they have to pay some other contributions. On average the employer contribution rate is approximately five times higher than the employee contribution rate.

#### 1.3.1 Social contributions for employees and self-employed

**Earnings-related pension contribution** (*työeläkevakuutusmaksu*) is statutory for all employees and self-employed. The employee contribution is based on the gross wage and the self-employed contribution on the estimated employment income (YEL- or MYEL-income). The contribution rate is the same for all individuals with certain exceptions. People aged 53–62 years have higher contribution rate than younger (and older during 2017–2025) persons. In addition self-employed have higher contribution rate than employees. Farmers’ contribution rate depends to some extent on the size of the income from farming.

**National pension contribution** for individuals was abolished in 1996.

**Unemployment insurance contribution** (*työttömyysvakuutusmaksu*) is statutory for all employees but voluntary for self-employed. The contribution rate is the same for all employees. The employee unemployment contribution is an exception among social contributions in the sense that it is based on wage but is not directly connected to the contributory benefit. To be entitled to the contributory earnings-related unemployment benefit another “contribution” is required, **the**

**fee to the unemployment fund.** The membership of the fund is voluntary. The fee may be either a percentage share of wage or a flat-rate fee. To be entitled to the earnings-related unemployment benefit the wage earner must be a member of the unemployment fund for at least eight months (26 weeks) before unemployment.

**Daily allowance contribution** (*päivärahamaksu*) is statutory for all employees and self-employed. The base for the employee contribution is the gross wage. For self-employed the base is the estimated employment income (YEL- and MYEL-income). The contribution rate is the same for wage and farming income but higher for entrepreneurial income.

**Medical care contribution** (*sairaanhoitomaksu*) is based on the local tax base. This means that people with very low income do not pay the contribution. For benefit and pension income the contribution rate is higher than for employment income – the contribution rate is higher if daily allowance contribution is not paid from that income. As described above for self-employed the calculation of the contribution is based on the “adjusted” local tax base where employment income is replaced by the estimated YEL- or MYEL-income. Medical care contribution and daily allowance contribution make together **the health insurance contribution** (*sairausvakuutusmaksu*).

### 1.3.2 Employer contributions

All employers’ contributions are based on gross wage but the contribution rates differ depending on e.g. the number and age of employees, the institutional sector, the wage sum and responsibilities to pay disability or unemployment pensions. This means that contributions are different for most of the employers. Only the health insurance contribution rate is the same for all employers. Employers, as employees, pay earnings-related pension contribution, unemployment insurance contribution and health insurance contributions. In addition they have to pay the following contributions:

**Accident insurance contribution** (*tapaturmavakuutusmaksu*) covers all employees. The size of the contribution is determined according to different criteria, which may be slightly different in each insurance company. The accident insurance contribution is statutory also for farmers but voluntary for entrepreneurs.

**Group life insurance contribution** (*henkivakuutusmaksu*) is not based on legislation but on trade union agreements. Nevertheless it includes most of the employees and all farmers.

**National pension contribution** (*kansaneläkemaksu*) was abolished in 2010. Now the national pension system is financed wholly with taxes, but until 2009 employers were also obliged to contribute to the national pension scheme.

## 1.4 Taxes

Excluding tax on deposit interest, corporate income tax, inheritance tax, gift tax, real estate tax and indirect taxes, the EUROMOD covers nearly 60 per cent of the total tax and social contribution revenue. A short outline of all taxes is presented in this chapter.

### 1.4.1 Direct taxes

**Income taxes** (*tuloverot*) are the most important direct taxes. The corporate and individual taxation is based on net income (“pure income”), which is defined as income after all expenses related to that income are subtracted. In the dual tax system all personal incomes are divided into capital and earned income and taxed separately.

*Corporate income* is taxed with a flat tax rate 24.5% in 2013 and 20% since 2014.



The tax rate of personal *capital income* is 30% for incomes up to 30 000 euros and 34% for incomes exceeding 30 000 euros in 2021. Interests paid to individuals from domestic bank deposits or from bonds offered to the public are also capital income. As an exception to other capital incomes these interests are taxed at source. The capital income tax is levied by the state.

A progressive tax schedule is applied to personal *earned income* in state taxation and flat tax rates in local taxation. There are two kinds of local taxes: a municipal tax and “a church tax”. Municipalities and churches decide the tax rates independently before the end of the year. The same local tax base is applied also to the medical care contribution. Tax bases in state and local taxation are different because tax allowances in state and local taxation are different.

To divide income into capital and earned income on the basis of income source is not always straightforward. As described, income from self-employment is divided into capital and earned income in personal taxation. Also dividends from non-listed companies may be capital or earned income. Dividends from publicly listed companies are always capital income. Neither earned income nor capital income dividends are fully taxable. Different rules concerning the tax liability are applied to dividends from publicly listed and from non-listed companies.

The taxation of capital and earned income is not totally separated. Some tax credits are subtracted both from capital and earned income taxes. Neither is the personal tax system entirely individual. There are tax credits which are possible to subtract from spouse’s taxes if own taxes would become negative.

**Broadcasting tax** (*yleisradiovero*) is designed to finance Finland’s national public service broadcasting company Oy Yleisradio Ab operating several television and radio channels. The tax replaces TV licenses, which until 2012 were obligatory for all households owning a TV receiver. The new tax is individual. Children under 18 years do not pay the tax. The tax base is pure taxable earned and capital income, i.e. taxable income, from which the so called natural deductions have been made, for example, work expenses.

**Inheritance tax** (*perintövero*) is a tax on wealth received either as bequest or through testament. A progressive schedule on wealth is applied. The tax is levied by the state.

**Gift tax** (*lahjaver*) is applied to the value of the gifts according to the same principles as bequests.

**Real estate tax** (*kiinteistövero*) is levied on property. The most important exemptions are forests and agricultural land. The tax is based on taxable value of the property. It is paid to the municipality where the property is located. Municipalities decide the tax rates annually within certain limits that are decided in legislation.

#### 1.4.2 Indirect taxes

**Value added tax** (*arvonlisävero*) is a general consumption tax on goods and services. There are three rates: a general rate of 24% (22% before 1.7.2010 and 23% before 1.1.2013) is applied to most of the consumption goods, a reduced rate of 14% (earlier 13 or 12%) is applied to food and fodder and a reduced rate of 10% (correspondingly 9% or 8%) is applied to medicine, books, passenger transportation, accommodation, culture, sports, small repair services, etc. The zero rate has been levied on subscribed newspapers and magazines up to 2011, but now the general rate is applied also in this case.

**Excise duties** (*valmisteverot*) are levied on e.g. alcohol and alcoholic beverages, tobacco products, liquid fuels, electricity and certain fuels, sweets, ice cream and soft drinks (duties on sweets and ice cream were abolished since 2017).

**Taxes on special services** (*veronluonteiset maksut*) consist of fees, which are in principal mandatory but are not enacted as taxes. These include pharmacy fee, television license, fire protection charge, etc.

**Car tax** (*autovero*) is applied to cars registered in Finland for the first time. **Vehicle tax** (*ajoneuvovero*) is collected on annual basis.

#### **1.4.3 Customs duties**

**Customs duties** (*tullimaksut*) levied in Finland are based on a common customs tariff. EU-member states are entitled to a commission of 25 per cent of the customs revenue (20 per cent since 2014).



## **2. SIMULATION OF TAXES, SOCIAL INSURANCE CONTRIBUTIONS AND BENEFITS IN EUROMOD**

### **2.1 Scope of simulation**

The most important taxes, social contributions and benefits are described in the previous section. Not all the taxes and benefits mentioned in the previous section are simulated in EUROMOD (see Tables 1 and 2). Firstly, some are beyond its scope and are neither included in the EUROMOD input database nor in its output income variables. Secondly, some are not possible to simulate accurately with the available data. They are included in the database and may be chosen as components of output variables, but the rules governing them may not be changed by the model.. We distinguish benefits/taxes which are included as a separate variable and benefits/taxes which are included as a component of an aggregated variable (in case it is not possible to make a split). Thirdly, other benefits contain complicated rules and/or available data does not provide enough information to be able to simulate the benefits in full detail; such benefits/taxes are partially simulated. Table 1 and Table 2 classify each of the tax-benefit instruments into one of these groups and provide a brief explanation as to why the instrument is not fully simulated if this is the case. The most important benefits which are not simulated are most pensions, sickness leave benefit, disability allowances, pensioner's care allowance and, before the year 2015, general housing allowance.

**Table 1. Simulation of taxes and social contributions in EUROMOD.**

	Variable name(s)	2019	2020	2021	2022	Why not fully simulated?
<b>Direct taxes</b>						
State tax on capital income	tinny_s	S	S	S	S	
Tax on deposit interest		E	E	E	E	No data
Corporate income tax		E	E	E	E	No data
National state income tax	tinna_s	S	S	S	S	
Municipal income tax	tinmu_s	PS	PS	PS	PS	Average rate is applied
Church income tax	tincr_s	PS	PS	PS	PS	Voluntary but simulated as compulsory. Average rate is applied.
Inheritance tax		E	E	E	E	No data
Gift tax		E	E	E	E	No data
Real estate tax	tpr	I	I	I	I	Lack of information
<b>Indirect taxes</b>						
Value added tax		E	E	E	E	No data
Excise duties		E	E	E	E	No data
Taxes on specific services		E	E	E	E	No data
Car tax and vehicle tax		E	E	E	E	No data
<b>Custom duties</b>		E	E	E	E	No data
<b>Social contributions</b>						
Employee contributions	tscee_s	S	S	S	S	
Entrepreneur contributions	tscse_s	S	S	S	S	Assumed: self-empl.income=YEL-income
Farmer contributions	tscfr_s	S	S	S	S	Assumed: self-empl.income=MYEL-income
Employer contributions	tscer_s	PS	PS	PS	PS	Average tax rates are applied

Medical care contributions	thl_s	S	S	S	S
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Notes:

E: *excluded* from the model as it is neither included in the micro-data nor simulated;

I: *included* in the micro-data but not simulated;

PS: *partially simulated* as some of its relevant rules are not simulated;

S: *simulated* although some minor or very specific rules may not be simulated.

Table 2. Simulation of benefits in EUROMOD.

	Variable name(s)	2019	2020	2021	2022	Why not fully simulated?
<b>Benefits</b>						
Old-age pensions	poa00	I	I	I	I	Lack of information. Incl. in variable <i>py100</i>
Part-time pensions	poa00	I	I	I	I	Lack of information. Incl. in variable <i>py100</i>
Unemployment pensions	bunot	I	I	I	I	Lack of information. Incl. in variable <i>py090</i>
Disability pensions	pdi00	I	I	I	I	Lack of information. Incl. in variable <i>py130</i>
Survivor's pensions	psu	I	I	I	I	Lack of information. Incl. in variable <i>py110</i>
Workers' compensated pension		E	E	E	E	No data
Guarantee pension	pmmtu_s	S	S	S	S	
Other pensions		E	E	E	E	No data
Basic unemployment allowance	bunnc_s	PS	PS	PS	PS	Eligibility is based on data
Earnings-related unempl. allow.	bunct_s	PS	PS	PS	PS	Eligibility is based on data
Labour market subsidy	bunmt_s	PS	PS	PS	PS	Eligibility is based on data
Other unemployment benefits	bunot	I	I	I	I	Lack of information. Incl. in variable <i>py090</i>
Sickness leave benefit	bhl00	I	I	I	I	Lack of information. Incl. in variable <i>py120</i>
Work injury benefit		E	E	E	E	No data
Other sickness benefits	bhl0t	I	I	I	I	Lack of information. Incl. in variable <i>py120</i>
Disability allowances	pdida	I	I	I	I	Lack of information. Incl. in variable <i>py130</i>
Rehabilitation subsidy	poa00	I	I	I	I	Lack of information. Incl. in variable <i>py100</i>
Pensioner's care allowance	poaca, pdica	I	I	I	I	Lack of information. Incl. in variable <i>py100</i> and <i>py130</i>
Home care allowance	poa00	I	I	I	I	Lack of information. Incl. in variable <i>py100</i>
Parental benefits	bma	I	I	I	I	Lack of information. Incl. in variable <i>hy050</i>
Child benefit	bch_s	S	S	S	S	
Child home care allowance	bcc_s	PS	PS	PS	PS	Eligible families are based on data

Private day-care compensation		E	E	E	E	No data
Child day-care fee		E	E	E	E	No data
General housing allowance	bho00_s	S	S	S	S	Lack of information. Incl. in variable <i>hy070</i>
Pensioner's housing allowance	bhope_s	S	S	S	S	Asset test is not simulated
Other housing benefits	bhoot	I	I	I	I	Lack of information. Incl. in variable <i>hy070</i>
Study grant	bed00_s	S	S	S	S	
Other education benefits	bedot	I	I	I	I	Lack of information. Incl. in variable <i>py140</i>
Local authority income support / social assistance	bsa00_s	S	S	S	S	
Other social assistance benefits	bsaot	I	I	I	I	Lack of information. Incl. in variable <i>py060</i>
Reformed unemployment benefits		E	E	E	E	Lack of information
temporary labour market subsidy for self-employed	bwkmcsetx_s	-	S	-	-	
Direct grants to self-employed	bwkmcse_s	-	S	-	-	

Notes:

E: *excluded* from the model as it is neither included in the micro-data nor simulated;

I: *included* in the micro-data but not simulated;

PS: *partially simulated* as some of its relevant rules are not simulated;

S: *simulated* although some minor or very specific rules may not be simulated.

### 2.1.1 Partially simulated tax-benefit components

Among the benefits, the basic unemployment allowance (bunnc\_s), the earnings-related unemployment allowance (bunct\_s), the labour market subsidy (bunmt\_s) and the child home care allowance (bcc\_s) are partially simulated. This is for the following reason: as previous earnings are not observed in the SILC data, they are imputed using information on the reported receipt of the respective benefit in the SILC data. Therefore, the benefit simulation is conditional on the reported benefit receipt in the micro-data.

Among the taxes, we part simulate the municipal income tax (tinmu\_s), the church income tax (tincr\_s) and the employer social security contribution (tscer\_s) because of lack of information on the exact rate to be applied. Instead, in these cases, average tax rates are applied.

## 2.2 Main policy changes

Table 3. Main policy changes during 2018-2022.

	2018-2019	2019-2020	2020-2021	2021-2022
<b>Policies</b>	-	-	-	-
<b>Benefits</b>	Study grant: supplementary allowance introduced; parental income calculated from taxable income	Unemployment allowances and labour market subsidy: activation model abolished	-	-
<b>Social insurance contributions</b>	-	-	-	-
<b>Direct taxes</b>	-	-	-	-
<b>Other</b>	-	Temporary unemployment benefits for self-employed introduced  Temporary financial assistance due to an epidemic outbreak introduced (not simulated)	-	-
		Temporary compensation due to an epidemic outbreak for social assistance introduced  Direct grants to self-employed (temporary) introduced		

### 2.3 Order of simulation and interdependencies

Benefits, taxes and social contributions which are simulated in EUROMOD, are shown in Table 4. The level of accuracy in simulation varies with different taxes and benefits. One of the reasons is that some of the variables are imputed from aggregate variables and the information is

inaccurate. However, these imputed variables are needed to make the simulation framework operational.

The employee, employer and self-employed social contributions are simulated first. The medical care contribution is an exception: it is calculated simultaneously with local taxes because it is based on the local tax base. Taxable benefits are simulated before income taxes and non-taxable benefits so that changes in benefits affect the tax base and means-tested benefits. The last to be simulated is the local authority income support where incomes after taxes are tested.

Several changes took place in the spine in 2007–2016. In 2011 a guarantee pension was introduced. It is simulated as the first policy tool (before social insurance contributions). In 2013 a new broadcasting tax was implemented. It is simulated after all other taxes. In 2015 a new child income tax credit was introduced; it is simulated after low income tax credit. Finally, in 2015–2018 general housing allowance is simulated in the model because policy rules were simplified. However, this policy is switched OFF in the baseline for consistency with the previous years where this policy was not simulated.

**Table 4. EUROMOD spine: order of simulation.**

<b>Policy</b>	<b>2007-2020</b>	<b>Description</b>	<b>Main output</b>
SetDefault_fi	on	DEF: SET DEFAULT VALUES	
uprate_fi	on	DEF: UPDATING FACTORS	
ConstDef_fi	on	DEF: CONSTANTS	
ilsdef_fi	on	DEF: STANDARD INCOME CONCEPTS	
ilsUDBdef_fi	on	DEF: UDB INCOME CONCEPTS	
InitVars_fi		DEF: Initialization of variables	
IlDef_fi		DEF: NON-STANDARD INCOME CONCEPTS	
Random_fi		DEF: Random assignment	
TransLMA_fi		DEF: Modelling labour market transitions	
tudef_fi	on	DEF: ASSESSMENT UNITS	
yem_fi	off	DEF: Minimum wage	
neg_fi	on	DEF: Recode negative income to zero	
ysecomp_fi	On (since 2020)	BEN: compensation scheme Covid-19 for the self-employed	bwkmcsetx_s, bwkmcse_s
bchba_fi	off (since 2015)	BEN: Maternity grant (äitiysavustus)	bchba_s
bma_fi	off (since 2015)	BEN: Maternity leave benefit (äitiysraha)	bma_s
bfapl_fi	off (since 2015)	BEN: Parental leave benefit (vanhempainraha)	bfapl_s
bpa_fi	off (since 2015)	BEN: Paternity leave benefit (isyysraha)	bpa_s
pmmtu_fi	on (since 2011)	BEN: Guarantee pension	pmmtu_s
tscee_fi	on	TAX: Employee social contributions	tscee_s
tscer_fi	on	TAX: Employer social contributions	tscer_s
tscse_fi	on	TAX: Self-employed contributions for entrepreneurs	tscse_s
tscfr_fi	on	TAX: Self-employed contributions for farmers	tscfr_s
bed00_fi	on	BEN: Study Grant	bed00_s

bunnc_fi	on	BEN: Basic unemployment allowance	bunnc_s
bunct_fi	on	BEN: Earnings-related unemployment allowance	bunct_s
bunmt_fi	on	BEN: Labour market subsidy	bunmt_s
bcc_fi	on	BEN: Child home care allowance	bcc_s
tiniy_fi	on	TAX: Capital income tax	tiniy_s
tinna_fi	on	TAX: National income tax	tinna_s (gross)
tinmu_fi	on	TAX: Local income tax	tinmu_s, tincr_s, thl_s (gross)
tintcly_fi	on	TAX: Low income tax credit	
tintch_fi	on (Since 2015, until 2017)	TAX: Child income tax credit	
tindc_fi	on	TAX: Income tax deficit credit	
tindcsp_fi	on	TAX: Income tax special deficit credit	tinna_s, tinmu_s, tincr_s, thl_s (net)
tbr_fi	on (Since 2013)	TAX: Broadcasting tax	tbr_s
bhope_fi	on	BEN: Pensioner housing allowance	bhope_s
bho00_fi	toggle (Since 2015)	BEN: General Housing allowance	bho00_s
bch_fi	on	BEN: Child benefit	bch_s
bsa00_fi	on	BEN: Local authority income support / social assistance	bsa00_s
output_std_fi	on	DEF: STANDARD OUTPUT INDIVIDUAL LEVEL	
output_hh_fi	off	DEF: STANDARD OUTPUT HOUSEHOLD LEVEL	

It is convenient to simulate capital income taxes before earned income taxes because some interests are subtracted as natural deductions from capital income. If there is a deficit in the capital income source, the rest of these interests (multiplied by capital income tax rate) are deducted from earned income taxes.

Taxable benefits are always earned income. Thus changes in these benefits affect only taxable earned income and personal taxes on earned income.

Changes in benefits do not usually affect social contributions paid by employees, self-employed or employers since the basis of these contributions is usually gross earnings from work. As described above there is an exception, the medical care contribution, which is based on the local tax base in earned income taxation.

### 2.4 Policy extensions

The Finnish model includes various ‘extensions’ (previously called ‘switches’), that enable users to choose whether to account for issues that seriously affect the implementation of most policies. They are indicated by little coloured symbols in the row-number column of the spine. Switchable policies can be turned ON or OFF through the run dialog box without changing the model itself.



In the baseline a switchable policy is set to its default (ON or OFF) as specified in this documentation. The Finnish model has four extensions:

The benefit take up (BTA) extension is an adjustment for take-up of local authority income support (social assistance). The policy is ON in the baseline by default, i.e. correction for take-up is implemented. Take-up correction is necessary, because some individuals and families do not apply for local authority income support / social assistance (although they satisfy income test and other eligibility conditions). Often these are self-employed individuals or adult children living with their parents (who can apply for the benefit individually but do not do so). If the take-up adjustment is ON these individuals are excluded from eligibility (see chapter Local authority income support / social assistance for more details). If the adjustment is OFF, then full take-up is assumed. The latter is used, for example, in the calculation of Marginal Effective Tax Rates.

The Minimum wage (MWA) extension is implemented in EUROMOD. Individual earnings in the micro-data have been checked against the minimum wage in force at the 30th of June of the respective policy years. The correction consists of increasing wages of individuals showing lower earnings (adjusted for hours worked and time in employment) than the minimum wage up to the minimum wage threshold. Because there may be many reasons for having earnings lower than the minimum wage, this policy is turned off in the baseline.

The PBE (Parental benefit extension) triggers parental benefit simulation (BEN: Maternity grant (äitiysavustus), Maternity leave benefit (äitiysraha), Parental leave benefit (vanhempainraha), Paternity leave benefit (isyysraha)). Due to issues in the validation and consistency over different policy years, the policy is turned "off" in the baseline.

Full-year adjustments (FYA): while EUROMOD in general simulates policies as of 30th June in the respective year, it is also possible to simulate within year policy changes. This switch was considered as important because in 2020 the implementation of a number of policies took place after 30th June. More precisely, the temporary compensation due to an epidemic outbreak for basic social assistance clients was introduced for the last 4 months of the year, and during the first 4 months of 2020, the private sector Earnings-related pension contribution was 16.96 percent whereas, for the remaining months it was 14.35 percent.

## 2.5 Benefits

### 2.5.1 Study grant (bed00\_s)

#### *Brief description*

Study grant can be paid for (a) higher level studies (e.g. university) and (b) middle level studies (e.g. upper secondary school, vocational and supplementary studies). The study grant is paid only for a “customary” period which is usually needed for studies. For higher level studies the benefit is paid for a maximum of 70 “study months”. The study months are defined as months a person is receiving the study grant.

#### *Eligibility conditions*

Eligible for the study grant are full-time students. Studying at higher level is always considered as full-time studies. General conditions for the study grant are sufficient progress in studies and the need for economic assistance.

The study grant is not paid if a person receives unemployment benefit, pension (survivors' pension is allowed) or sickness leave benefit. A student may receive maternal, paternal or parental leave benefits simultaneously with study grant, but then only the minimum amount of these

benefits is paid. If a student is younger than 17 years and eligible for child benefit, the study grant is not allowed. However, a supplementary allowance may be granted for the purchase of study materials.

### ***Benefit amount***

The size of the study grant depends on the level of the studies, age, marital status, whether the student has a child or not, whether the student lives with parents or not and on economic circumstances. The study grant is paid only for study months.

Starting January 2018, a guardian of a child under 18 years of age was paid a provider supplement of 75 euro per month. The number of children and who they lived with does not affect the eligibility for the provider supplement. The new amounts from January 2018 are summarized in Table 5, and the updated figures since January 2020 are in Table 6.

**Table 5. The basic amount of the study grant since January 2018, euro/month.**

Guardian of a minor child	325.28
Married	250.28
18+ years, living alone	250.28
Under 18 years, living alone	101.74
20+ years, living with parents	81.39
Under 20 years, living with parents	38.66

Note: Since in EUROMOD the policy date is June 30, these parameters are applied from policy year 2018.

**Table 6. The basic amount of the study grant since January 2020, August 2020, and August 2021 euro/month.**

	Since Jan 2020	Since Aug 2020	Since Aug 2021	Since Aug 2022
Guardian of a minor child	350.28	353.75	355.05	375.40
Married	250.28	252.76	253.69	268.23
18+ years, living alone	250.28	252.76	253.69	268.23
Under 18 years, living alone	101.74	102.75	103.12	109.04
20+ years, living with parents	81.39	82.20	82.50	87.23
Under 20 years, living with parents	38.66	39.04	39.19	41.43

Note: Since in EUROMOD the policy date is June 30, the parameters from Jan 2020 are applied from policy year 2020, parameters from Aug 2020 from policy year 2021, and parameters from Aug 2021 from policy year 2022.

Since 1 August 2019 a supplementary allowance for the purchase of study materials to the study can be granted. The grant amounts to 46.80 euro per month (47.26 since 1<sup>st</sup> of August 2020). The supplementary allowance can be granted if 1) the student is childless and unmarried, 2) his/her parents' total income is less than 41,100 euro per year, and 3) she/he lives with parents and is under 20 years of age, or lives independently and is under 18 years of age. Supplementary allowance for the purchase of study materials can be granted for vocational studies and studies in upper secondary school that would be covered under the student financial aid provisions. The supplementary allowance is not granted to students in higher education, students in basic

education or students enrolled in a liberal adult education programme for instance in a folk high school.

From August 2020 onwards, the amount of the study grant will be increased annually in line with the change in prices (Consumer Price Index) yearly on 1<sup>st</sup> of August.

### ***Means-testing and taxation***

The study grant is affected by student's own and parents' income. Spouse's income has no effect on the study grant. The wealth of the student, spouse or parents has no effect on the study grant.

#### *Own income*

The amount of study grant is means-tested against student's all annual taxable gross income (excl. study grant) and scholarships. A student has personal gross income limit, "free income", which is based on the number of months the student has received the grant. During 2016–2017, the annual income limit was defined as 660 euro for every study month and 1,970 euro for every "unsupported" month. From 2018 the limits on allowable annual income are increased according to the index of wage and salary earnings in the beginning of every second year by legislation. In 2018 the limits were increased by 1%. The new income limit is 667 euro for every study month and 1,990 euro for every "unsupported" month.

Accordingly, the income limits for the financial aid years 2020 and 2021 were increased by 4.5%. In 2022, income limits are increased temporarily by 25%. The new income limit is 870 euro for every study benefit month and 2,600 for every "unsupported" month. The student may have income whenever during the calendar year. The study months and the corresponding income limits are shown in Table 7.

**Table 7. Free gross income limits of the study grant in 2018–2022.**

<b>Study months</b>	<b>Free gross income limit 2018–2019, euro/year</b>	<b>Free gross income limit 2020–2021, euro/year</b>	<b>Free gross income limit 2022, euro/year</b>
1	22,557	23,554	29,470
2	21,234	22,172	27,740
3	19,911	20,790	26,010
4	18,588	19,408	24,280
5	17,265	18,026	22,550
6	15,942	16,644	20,820
7	14,619	15,262	19,090
8	13,296	13,880	17,360
9	11,973	12,498	15,630
10	10,650	11,116	13,900
11	9,327	9,734	12,170
12	8,004	8,352	10,440

If the annual taxable gross income exceeds the free income, the student must pay back the benefit for equivalent amount of months. Assuming that student has received the benefit for nine months, annual earnings can be at most 11,973 euro ( $9 \times 667 + 3 \times 1,990$ ) without having to repay the

benefit (2018–2019). If the amount to be paid back is less than 222 euro, the student is not obliged to pay back any part of the study grant.

#### *Parents' incomes*

Parents' incomes may *decrease* the amount of study grant if the student (a) studies at middle level institute, (b) is less than 20 years old, and (c) is not married and has no children. In 2016–2018, the study grant was paid in full if parents' annual earned and capital incomes, gross incomes minus natural deductions, were together less than 40,800 euro. Starting 1 January 2019, taxable income values will be used when calculating parental income under the student financial aid scheme. Because taxable income will almost always be larger than the income minus work-related expenses, the parental income limits are raised by 5–6%. Since January 2019, the study grant is paid in full if parents' taxable incomes are together less than 43,000 euro.

The study grant is decreased by 5% for every 1,070 euro/year the parents' incomes exceed the limit (1,010 euro/year in 2016–2018). A higher limit of 53,000 euro was introduced since August 2014 for 18–19 years old students who did not live with their parents and study at middle level (EUROMOD policy year 2015). The limit was increased to 60,000 euro since January 2016 (EUROMOD policy year 2016). Since 2018 the income of parents no longer affect the student grant of middle level students who are 18–19 years old and do not live with their parents. Starting August 2019, parental income will no longer affect the basic amount for students under 18 who do not live with their parents.

Parents' low incomes may also *increase* the amount of study grant if (a) the student lives with parents or (b) lives alone but is less than 18 years old. The full increases of the study grant are shown in Table 8. Since 2019, the increase is paid in full if parents' annual earned and capital incomes, gross income minus natural deductions, do not together exceed 21,800 euro (20,700 euro in 2016–2018). The full increase is decreased by 10% for every 2,180 euro/year the parents' incomes exceed the limit (2,070 euro/year in 2016–2018). The total study grant is the basic amount plus the increase.

**Table 8. Full increase in the study grant due to low income of parents since August 2017, August 2020, and August 2021, euro/month.**

	Since Aug 2017		Since Aug 2020		Since Aug 2021		Since Aug 2022	
	Study grant	Full increase	Study grant	Full increase	Study grant	Full increase	Study grant	Full increase
Under 18 years, living alone	101.74	101.74	102.75	102.75	103.12	103.12	109.04	109.04
20+ years, living with parents	81.39	101.74	82.20	103.12	82.50	103.12	87.23	109.04
17-19 years, living with parents	38.66	59.01	39.04	59.59	39.19	59.81	41.43	63.24

Note: Since in EUROMOD the policy date is June 30, the parameters on Aug 2017 are applied from policy year 2018, the parameters on Aug 2020 from policy year 2021, and the parameters on Aug 2021 from policy year 2022.

The study grant is taxable income. If there is no other taxable income except the study grant, no income taxes is paid because of the study grant deduction in taxation.

### *Changes in benefit rules 2019–2022*

Since August 2014 the amounts of study grant were higher for new higher level students than for old higher level students. However, from August 2017, study grants paid to higher education students were adjusted to the level of the grants provided to students at the middle level. Starting January 2018, a guardian of a child under 18 years of age will receive a provider supplement of 75 euro per month. In August 2014 the basic amount of study grant and the full increase of the study grant were indexed by legislation (national pension index). After two index adjustments (August 2014 and August 2015), the indexation was abolished in 2016. However, the grant was again linked to the index from August 2020 onwards.

Starting 1 January 2019, taxable income values will be used when calculating parental income under the student financial aid scheme. Because taxable income will almost always be larger than the income minus work-related expenses, the parental income limits are raised by 5–6%.

Starting in August 2019, children of low-income families who are completing vocational qualifications or attending upper secondary school will qualify for a supplementary allowance of 46.80 euro to help them purchase study materials. The allowance is available to students under 20 living with their parents and students under 18 living outside the parental home whose parents have a total annual income of 41,100 euro or less. It is also available to students under 17 who are eligible for the child benefit.

In August 2022, an additional increase was made to the study grant scheme.

### *EUROMOD modelling*

A student may receive maternal, paternal or parental leave benefits simultaneously with study grant, but then only the minimum amount of these benefits is paid. However, this reduction is not simulated in EUROMOD.

Income test on parents' income cannot be simulated in the model if the students live separately from their parents.

The increase of study grant based on parents' income is included in the model but is not simulated in the baseline.

## **2.5.2 Basic unemployment allowance (bunnc\_s)**

### *Brief description*

Basic unemployment allowance is a non-contributory minimum benefit for unemployed persons who have enough work history but are not members of an unemployment fund. Students are not eligible for the allowance. The maximum spell of the basic unemployment allowance is 500 days.

### *Eligibility conditions*

Persons are entitled to the basic unemployment allowance if they are 17–64 years of age, available for work, registered at the employment office, seek full-time employment and satisfy the working condition (see below). It is also required that no suitable job or training has been found.

### *Working condition*

In 2014–2022 the working condition is satisfied if a person has worked at least 26 weeks / approx. 6 months (34 weeks / approx. 8 months in 2010–2013) within the 28 months immediately

preceding the unemployment. The working time should be at least 18 hours per week. The 28 month period may be extended e.g. because of illness, military service and studies. A self-employed person must have been running the business for at least 15 months (18 months in 2010–2014) in the last 4 years preceding the unemployment.

If the work income is very small or the weekly working hours are too few, the working condition is not fulfilled.

### ***Benefit amount***

The amount of basic unemployment allowance consists of a flat amount and a child supplement. The amount of the child supplement depends on the number of dependent children (younger than 18 years). It is paid to both spouses if both are unemployed. The benefit is paid only for working days (5 days in a week). Monthly benefit is calculated by assuming 21.5 working days in a month. So, if an unemployed has one dependent child, the monthly benefit (in 2019) is 809.05 euro (21.5 x (32.40+5.23)).

**Table 9. Characteristics of the basic unemployment allowance in 2019–2022.**

	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>Eligibility</b>				
Contribution period	At least 6 months in the last 28 months	At least 6 months in the last 28 months	At least 6 months in the last 28 months	At least 6 months in the last 28 months
Other conditions	Unemployed individuals 17–64 years	Unemployed individuals 17–64 years	Unemployed individuals 17–64 years	Unemployed individuals 17–64 years
Eligibility of self-employed	Business ≥ 15 months in the last 4 years	Business ≥ 15 months in the last 4 years	Business ≥ 15 months in the last 4 years	Business ≥ 15 months in the last 4 years
<b>Payment</b>				
Basic amount	32.40	33.66	33.78	34.50 (35.72 since Aug 2022)
Additional amount:				
- Child supplement, 1 child	5.23	5.28	5.30	5.41 (5.61 since Aug 2022)
- Child supplement, 2 children	7.68	7.76	7.78	7.95 (8.23 since Aug 2022)
- Child supplement, ≥3 children	9.90	10.00	10.03	10.25 (10.61 since Aug 2022)
<b>Duration</b>				
Standard (in months)	18.60 (400 days)	18.60 (400 days)	18.60 (400 days)	18.60 (400 days)
Special cases (in months)	23.26 (500 days)/ 13.95 (300 days)	23.26 (500 days)/ 13.95 (300 days)	23.26 (500 days)/ 13.95 (300 days)	23.26 (500 days)/ 13.95 (300 days)
<b>Subject to</b>				
Taxes	Yes	Yes	Yes	Yes
SIC	Yes	Yes	Yes	Yes

Notes: The benefit is calculated on daily basis.

The basic allowance is adjusted annually according to the so called national pension index (KEL-index). This index is the change of consumer prices from the previous year's third quarter to

present year's third quarter. The next year's benefits are then adjusted according to KEL-index. Benefit amounts were not increased in line with the index in 2018–2019.

It is possible that an unemployed person receives wage from part-time work (*the conciliated adjustable unemployment benefit*). In this case the unemployed benefit is cut by 0.5 euro for each earned euro. From the beginning of 2014 all unemployment benefits have exempt earnings of 300 euros. For instance, if your earnings are 400 per month, benefit is cut only  $(400-300)*0.5=50$  euros.

In some cases, benefit amount can be increased with fixed sum (4.91 euros/day in 2022). This fixed sum (called supplementary allowance) is granted to the unemployed, who are participating in labour market training. The maximum spell of increased sum is 200 working days.

In 2018 new activation criteria were introduced to unemployment benefits. Receiving full unemployment benefit will require that in a period of 65 days of payment the unemployed person has worked for at least 18 hours or participated in employment-promoting services for at least 5 days. If the person does not meet the requirements, the unemployment benefit will be reduced by 4.65% for the next 65 days of payment.

The criteria for the activation model are met through salaried employment, self-employment or participation in employment-promoting services. The latter include labour market training, self-motivated study and work experience placements. The normal amount of unemployment benefit will again be paid when the criteria have been met during a reference period of 65 payment days.

The activation model was abolished on 1 January 2020. The activity of unemployed persons will no longer be tracked and reductions made to their benefits. Any unemployment benefits that were reduced on account of the activation model will automatically revert to their normal level on 1 January 2020.

### *Means-testing and taxation*

The basic unemployment allowance is not means-tested. It is taxable income.

### *Changes in benefit rules 2019–2022*

In 2017, the maximum period for basic unemployment allowance was reduced from 500 to 400 days. Unemployed persons with an employment history of three years or less will be able to get unemployment allowance for a maximum of 300 days. However, the maximum period will remain 500 days for unemployed persons who meet the work requirement after reaching age 58 and who have completed at least five years of employment during the last 20 years.

Before 2017 the increased amount could be granted also to those with over 20 years of working history.

In 2017 the benefit levels (basic amount, child supplements, increased amount) were reduced by 0.85 %. Benefit amounts were not increased in line with the index in 2018–2019.

When a person registers as unemployed, he/she has to wait for five working days before starting to receive any unemployment benefit. In 2017 this waiting period was seven days. In 2018 the waiting period was shortened back to 5 days.

In 2018 a new activation model was introduced. If the person do not meet the activation requirements, the unemployment benefit will be reduced by 4.65% for the next 65 days of payment.

The activation model was abolished on 1 January 2020.

In August 2022, an additional increase was made to the basic unemployment allowance scheme.



### EUROMOD modelling

If the work income is very small or the weekly working hours are too few, the working condition is not fulfilled. This condition is not simulated in the model.

This *conciliated adjustable unemployment benefit* is not possible to simulate because of insufficient information in the data.

The increased benefit (*supplementary allowance*) is not possible to simulate due to lack of sufficient data.

Given data availability, the 2018 new activation criteria cannot be simulated, and the criteria for the activation are assumed to be always met.

### 2.5.3 Earnings-related unemployment allowance (bunct\_s)

#### Brief description

The earnings-related unemployment allowance is a contributory benefit for unemployed persons. The contribution to unemployment fund, in fact a membership fee, is voluntary. The maximum spell of the earnings-related unemployment allowance is the same as for basic unemployment allowance (see above).

#### Eligibility conditions

The unemployed who fulfill both the criteria of unemployment fund membership and the working conditions are eligible for the benefit. They must be between 17–64 years of age, available for work, registered at the employment office and seek full-time employment. It is also required that no suitable job or training has been found. Students are not eligible for the benefit.

#### Benefit amount

The amount of daily benefit consists of four components:

- a) *The basic component*, which is the same as the basic unemployment allowance.
- b) *The earnings-related component 1*, which is 45% of the difference between daily wage and the basic allowance. The maximum previous daily wage (when calculating this component) is the 95-fold basic allowance divided by 21.5.
- c) *The earnings-related component 2*, if the daily wage exceeds the threshold of 95-fold basic allowance, 20 % of the exceeding amount forms the component 2.
- d) *The child supplement*, which depends on the number of dependent children. The amount is the same as in basic unemployment allowance.

The base for calculation is the regular monthly wage preceding the unemployment. Bonuses and holiday pays are not included. 60% of employee's pension and unemployment insurance and daily allowance contributions (together 4.29% in 2022) are deducted from the gross wage. There are no similar deductions from self-employment income.

Table 10. Characteristics of earnings-related unemployment allowance.

	2019	2020	2021	2022
Eligibility				



Contribution period	At least 6 months in the last 28 months	At least 6 months in the last 28 months	At least 6 months in the last 28 months	At least 6 months in the last 28 months
Other conditions	Unemployed individuals 17–64 years old & contribution to unemployment fund	Unemployed individuals 17–64 years old & contribution to unemployment fund	Unemployed individuals 17–64 years old & contribution to unemployment fund	Unemployed individuals 17–64 years old & contribution to unemployment fund
Eligibility of self-employed	Business $\geq 15$ months in the last 4 years	Business $\geq 15$ months in the last 4 years	Business $\geq 15$ months in the last 4 years	Business $\geq 15$ months in the last 4 years
<b>Payment</b>				
Contribution base	Preceding daily wage*(1-0.0424)	Preceding daily wage*(1-0.0414)	Preceding daily wage*(1-0.0434)	Preceding daily wage*(1-0.0429)
Basic amount	32.40 daily	33.66 daily	33.78 daily	34.50 daily (35.72 since Aug 2022)
Additional amount:				
- Child supplement, 1 child	5.23	5.28	5.30	5.41 (5.60 since Aug 2022)
- Child supplement, 2 children	7.68	7.76	7.78	7.95 (8.23 since Aug 2022)
- Child supplement, $\geq 3$ children	9.90	10.00	10.03	10.25 (10.61 since Aug 2022)
- 1 <sup>st</sup> earnings-related component	0.45*(contr base-basic amount) if contr base $\leq$ THR OR 0.45*(THR-basic amount) if contr base $>$ THR	0.45*(contr base-basic amount) if contr base $\leq$ THR OR 0.45*(THR-basic amount) if contr base $>$ THR	0.45*(contr base-basic amount) if contr base $\leq$ THR OR 0.45*(THR-basic amount) if contr base $>$ THR	0.45*(contr base-basic amount) if contr base $\leq$ THR OR 0.45*(THR-basic amount) if contr base $>$ THR
- 2 <sup>nd</sup> earnings-related component	0.20*(contr base-THR) if contr base $>$ THR	0.20*(contr base-THR) if contr base $>$ THR	0.20*(contr base-THR) if contr base $>$ THR	0.20*(contr base-THR) if contr base $>$ THR
- Threshold (THR above) for earnings related component	143.16	148.73	149.26	152.44 (157.80 since Aug 2022)
<b>Duration</b>				
Standard (in months)	18.60 (400 days)	18.60 (400 days)	18.60 (400 days)	18.60 (400 days)
Special cases (in month)	23.26 (500 days)/ 13.95 (300 days)	23.26 (500 days)/ 13.95 (300 days)	23.26 (500 days)/ 13.95 (300 days)	23.26 (500 days)/ 13.95 (300 days)
<b>Subject to</b>				
Taxes	Yes	Yes	Yes	Yes
SIC	Yes	Yes	Yes	Yes

Notes: The benefit is calculated on daily basis. Wages are transformed into daily wages assuming that there are 21.5 working days in a month.

The benefit is calculated on daily basis. Wages are transformed into daily wages assuming that there are 21.5 working days in a month.

*Example (2018):* A person has 2 dependent children and the preceding wage has been 3,800 euro/month. After deduction of 4.48% the monthly wage is 3,629.76 euros and the daily wage is 168.83 euros. The 95-fold limit is 143.16 euros (95\*32.40e/21.5).

Preceding daily wage	168.83
Basic allowance	32.40

Earnings-related component 1: $0.45 \times (143.16 - 32.40)$	49.84
Earnings-related component 2: $0.20 \times (168.83 - 143.16)$	5.13
<u>Child supplement (2 children)</u>	<u>7.68</u>
Earnings-related allowance/day	95.05

Identically to basic unemployment allowance, in certain cases an increased benefit is paid. In earnings-related unemployment allowance the increase (called supplementary allowance) is not a fixed sum. Instead, the percentages to calculate the total amount of the benefit are increased. The percentages can be increased from 45/20 to 55/25 (in 2018). The maximum spell of increased sum is 200 working days.

The basic allowance is adjusted annually according to the national pension index (KEL-index). According to the formula, the earnings-related benefit will also increase along the KEL-index. Benefit amounts were not increased in line with the index in 2018–2019.

It is possible and common for an unemployed to receive wage from part-time work during the unemployment spell. In this case the unemployment benefit is cut by 0.5 euro for each earned euro. From the beginning of 2014 all unemployment benefits have exempt earnings of 300 euros without benefit being cut. The maximum amount of daily benefit together with the part-time wage is 90% of the previous daily wage (after the contribution deduction). However, the earnings-related unemployed allowance cannot be less than the corresponding basic allowance.

In 2018 new activation criteria were introduced to unemployment benefits. Receiving full unemployment benefit will require that in a period of 65 days of payment the unemployed person has worked for at least 18 hours or participated in employment-promoting services for at least 5 days. If the person does not meet the requirements, the unemployment benefit will be reduced by 4.65% for the next 65 days of payment.

The criteria for the activation model are met through salaried employment, self-employment or participation in employment-promoting services. These include labour market training, self-motivated study and work experience placements. The normal amount of unemployment benefit will again be paid when the criteria have been met during a reference period of 65 payment days.

The activation model was abolished on 1 January 2020. The activity of unemployed persons will no longer be tracked and reductions made to their benefits. Any unemployment benefits that were reduced on account of the activation model will automatically revert to their normal level on 1 January 2020.

### ***Means-testing and taxation***

The earnings-related unemployment allowance is not means-tested. It is taxable income.

### ***Changes in benefit rules 2019–2022***

During the period the percentages used to calculate the increased amount have been changing many times.

In 2017, the maximum period for earnings-related unemployment benefit was reduced from 500 to 400 days. Unemployed persons with an employment history of three years or less will be able to get unemployment allowance for a maximum of 300 days. However, the maximum period will remain 500 days for unemployed persons who meet the work requirement after reaching age 58 and who have completed at least five years of employment during the last 20 years.

In 2017 the benefit levels (basic amount, child supplements, and the increased amount) were reduced by 0.85 %.

Before 2017 the increased amount could be granted also to those with over 20 years of working history.

When a person registers as unemployed, he/she has to wait for five working days before starting to receive any unemployment benefit. In 2017 this waiting period was seven days. In 2018 the waiting period was shortened back to 5 days.

In 2018 a new activation model was introduced. If the person do not meet the activation requirements, the unemployment benefit will be reduced by 4.65% for the next 65 days of payment.

The activation model was abolished on 1 January 2020.

In August 2022, an additional increase was made to the earnings-related unemployment allowance scheme.

### ***EUROMOD modelling***

Increased benefits (*supplementary allowance*) are not possible to simulate because there is no information in the data about the people receiving these benefits.

There is also no information in the data about the preceding wage of the unemployed. However, the wage is possible to calculate “backwards” using the information of the earnings-related unemployment allowance in the data, benefit months and benefit rules. It should be noted that wages (obtained in this way) are overestimated for the unemployed with increased benefit amounts.

Conciliated adjustable benefit is not possible to simulate in the model.

Given data availability, the 2018 new activation criteria cannot be simulated, and the criteria for the activation are assumed to be always met.

## **2.5.4 Labour market subsidy (bunmt\_s)**

### ***Brief description***

The labour market subsidy is designed for the unemployed who do not meet the working condition (see basic unemployment allowance for details). It is also paid when a person has received basic or earnings-related unemployment allowance and the maximum spell has been reached. There is no time limit for the labour market subsidy.

### ***Eligibility conditions***

Persons are entitled to the labour market support if they are 17–64 years of age, available for work, registered at the employment office and seek full-time employment. It is also required that no suitable job or training has been found. Students are normally not entitled to the benefit during the time they are studying.

All unemployed who are not entitled to basic allowance or earnings-related allowance are in principle eligible for labour market subsidy. However, there are some specific conditions for young people. It is required that persons under 25 years of age have completed vocational training or are in labour market training or on-job training. A benefit suspension of 90 days can be imposed if a person repeatedly refuses job training or education (applies to all unemployment benefits).

### *Full benefit amount*

The full amount of labour market subsidy equals the basic unemployment allowance. Also the child supplement and the supplementary allowance are the same as in basic unemployment allowance scheme.

In 2018 new activation criteria were introduced to unemployment benefits. Receiving full unemployment benefit will require that in a period of 65 days of payment the unemployed person has worked for at least 18 hours or participated in employment-promoting services for at least 5 days. If the person does not meet the requirements, the unemployment benefit will be reduced by 4.65% for the next 65 days of payment.

The criteria for the activation model are met through salaried employment, self-employment or participation in employment-promoting services. These include labour market training, self-motivated study and work experience placements. The normal amount of unemployment benefit will again be paid when the criteria have been met during a reference period of 65 payment days.

The activation model was abolished on 1 January 2020. The activity of unemployed persons will no longer be tracked and reductions made to their benefits. Any unemployment benefits that were reduced on account of the activation model will automatically revert to their normal level on 1 January 2020.

### *Means-testing and taxation*

Unlike other unemployment benefits, labour market subsidy is means-tested against person's own income. The subsidy is also means-tested against the income of the parents of the unemployed person if he/she resides in their household. Basically all income is taken into account except child benefit, local authority income support / social assistance, housing allowances, pensioner's care allowance and some injury-related benefits. Also capital income is taken into account. The means-testing is done on basis of monthly income.

If a recipient does not meet the work requirement and lives with his/her parents, the labour market subsidy will be reduced by 50%. If parents' income does not exceed 1,781 euro per month, the reduction is not made. Each child that lives with the parents and whom the parents care for increases the income limit by 106 euro per month.

If the parents' income exceeds the income limit, the labour market subsidy will be reduced by half of the income that exceeds the income limit (1,781 euro per month). If the recipient does not provide information on his/her parents' income in the application, he/she will automatically be granted 50% of the labour market subsidy due to him/her.

Labour market subsidy can be paid without any reduction if the recipient can prove that the parents do not support him/her financially. During participation in employment promoting measures, the labour market subsidy is paid without any reduction also to persons who live with their parents.

For the unemployed with a spouse or dependent children the subsidy is decreased by 50% of income exceeding 1,044 euros (capital income and social benefits, see above). This income limit is increased by 130 euro for every dependent child. For a single person without dependent children the full labour market subsidy is decreased by 75% of income exceeding 311 euro (for the calculation with the wage from part-time work, see the end of the section).

**Table 11. Means-testing parameters and characteristics of labour market subsidy.**

	2019	2020	2021	2022
<b>Means-testing</b>				

Limit / with family	1,044	1,044	1,044	1,044
Increase of limit per child	130	130	130	130
Reduction rate / with family	0.5	0.5	0.5	0.5
Limit / single	311	311	311	311
Reduction rate / single	0.75	0.75	0.75	0.75
<b>Eligibility</b>				
Other conditions	Unemployed individuals 17–64 years old	Unemployed individuals 17–64 years old	Unemployed individuals 17–64 years old	Unemployed individuals 17–64 years old
<b>Payment</b>				
Basic amount	32.40 daily	33.66 daily	33.78 daily	34.50 daily (35.72 since Aug 2022)
Additional amount:				
- Child supplement, 1 child	5.23	5.28	5.30	5.41 (5.61 since Aug 2022)
- Child supplement, 2 children	7.68	7.76	7.78	7.95 (8.23 since Aug 2022)
- Child supplement, ≥3 children	9.90	10.00	10.03	10.29 (10.61 since Aug 2022)
<b>Duration</b>				
Standard (in months)				
Subject to	No limit	No limit	No limit	No limit
Taxes	Yes	Yes	Yes	Yes
SIC	Yes	Yes	Yes	Yes

Notes: The benefit is calculated on daily basis.

Labour market subsidy is adjusted annually according to the national pension index (KEL-index). It is taxable income.

It is possible that an unemployed person receives wage and labour market subsidy at the same time. In this case the labour market support is cut by 0.5 euro for each earned euro. From the beginning of 2014 all unemployment benefits have exempt earnings of 300 euros without benefit being cut.

### ***Changes in benefit rules 2019–2022***

In 2017 the benefit levels (basic amount, child supplements, increased amount) were reduced by 0.85 %. Benefit amounts were not increased in line with the index in 2018–2019.

When a person registers as unemployed, he/she has to wait for five working days before starting to receive any unemployment benefit. In 2017 this waiting period was seven days. In 2018 the waiting period was shortened back to 5 days.

In 2018 a new activation model was introduced. If the person do not meet the activation requirements, the unemployment benefit will be reduced by 4.65% for the next 65 days of payment.

The activation model was abolished on 1 January 2020.

In August 2022, an additional increase was made to the labour market subsidy scheme.

### ***EUROMOD modelling***

The conciliated adjustable benefit is not possible to simulate in the model.

Given data availability, the 2018 new activation criteria cannot be simulated, and the criteria for the activation are assumed to be always met.

#### **2.5.5 Maternity grant (bchba\_s)**

- *Brief description*

The benefit is received by the mother of a newborn or an adopted child under 18 years old. The maternity grant can be claimed after 154 days of pregnancy (about 5 months).

- *Eligibility conditions*

To be eligible one must visit a doctor or a maternity and child welfare clinic for a health check before the 5th month of pregnancy.

- *Income test*

This is not a means-tested benefit.

- *Benefit amount*

The benefit can be received either as a maternity package or a tax-free lump-sum cash benefit of €170 (from April 2019). The benefit is not taxable.

**Table 12. Characteristics of the maternity grant**

		<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>Eligibility</b>	Contribution period	N.A.	N.A.	N.A.	N.A.
	Other conditions	A health check before the 5th month of pregnancy	A health check before the 5th month of pregnancy	A health check before the 5th month of pregnancy	A health check before the 5th month of pregnancy
	Eligibility of self-employed	As above	As above	As above	As above
<b>Payment</b>	Contribution base	N.A.	N.A.	N.A.	N.A.
	Basic amount	170.00 €	170.00 €	170.00 €	170.00 €
	Additional amount	N.A.	N.A.	N.A.	N.A.
	Floor	N.A.	N.A.	N.A.	N.A.
	Ceiling	N.A.	N.A.	N.A.	N.A.
<b>Duration</b>	Standard (in months)	Lump-sum, can be claimed after	Lump-sum, can be claimed after	Lump-sum, can be claimed after	Lump-sum, can be claimed after

		154 days of pregnancy (5 months) N.A.	154 days of pregnancy (5 months) N.A.	154 days of pregnancy (5 months) N.A.	154 days of pregnancy (5 months) N.A.
	Special cases (in month)				
<b>Subject to</b>	Taxes	No	No	No	No
	SIC	No	No	No	No

### ***EUROMOD modelling***

The policy can be fully/perfectly simulated in EUROMOD, without any particular data or modelling limitations.

#### **2.5.6 Maternity leave benefit (bma\_s)**

- *Brief description*

The maternity leave begins before the expected date of birth for a child. Maternity leave can be taken 30-50 working days or about 5-8 weeks before the expected due date. When the maternity leave starts one will begin to get maternity allowance from Kela. It is paid for a total of 105 working days, or about 4 months. Working days are Monday to Saturday, with the exception of official holidays.

- *Eligibility conditions*

One becomes entitled to the maternity allowance once one has been pregnant for 154 days.

- *Income test*

This is not a means-tested benefit.

- *Benefit amount*

Before 2020, the allowance was usually calculated on the basis of earned income for the previous year, as confirmed for tax purposes. From the gross wage, 60% of employee's pension and unemployment insurance and daily allowance contributions (together 4.24% in 2019) were deducted. The income basis for self-employed was the self-reported income (YEL or MYEL income) that is used as the basis for social contribution. If one did not have earned income, one received the allowance at the minimum rate. The minimum rate was 27.86 euro per working day in 2019.

Starting 1 January 2020, the daily allowances payable to parents is calculated on the basis of annual income. The annual income is calculated for a reference period of 12 calendar months prior to the month that precedes the start of the entitlement to the allowance. Included in the annual income are wages and salaries, salaries for insurance purposes, earned income under the self-employed persons' (YEL) and farmers' (MYEL) pension insurance schemes, certain compensations for loss of income, and a number of social benefits including unemployment benefits, sickness allowance and study grants. Insurance contributions are deducted from the annual income. In 2020 the deduction was 9.58% and in 2021 it is 9.91%.

The annual income may consist of several sources of income, such as salaries and social benefits. The necessary data is typically obtained from the national incomes register and from insurance providers. If an applicant has no or only very little income for the 12-month reference period, the

allowance will be at least a specified minimum amount (28.94 euro per day in 2020 and 29.05 euro in 2021).

Maternity allowance based on income (2020):

up to 38,636 euros	$0.7 \times \text{annual income} : 300$ , but at least the basic allowance
38,637 – 59,444 euros	$90.15 + 0.40 \times (\text{annual income} - 38,636) : 300$
over 59,444 euros	$117.89 + 0.25 \times (\text{annual income} - 59,444) : 300$

Maternity allowance is paid at an increased rate of up to 90% of income for the first 56 days of payment.

Maternity allowance based on income, payable for the first 56 working days (2020):

up to 59,444 euros	$0.9 \times \text{annual income} : 300$ , but at least the basic allowance
over 59,444 euros	$178.33 + 0.325 \times (\text{annual income} - 59,444) : 300$

One can work or study during maternity leave and receive a maternity allowance from Kela. The maternity allowance is paid at a minimum rate for the working days. Working on Sundays or other holidays does not affect the maternity allowance, because it is only paid for working days (Mon–Sat). If one is a full-time student and gets maternity allowance, it is paid at a minimum rate on top of any student financial aid one receives.

Maternity leave benefit is taxable income.

**Table 13. Characteristics of the maternity leave benefit**

		2019	2020	2021	2022
<b>Eligibility</b>	Contribution period	N.A.	N.A.	N.A.	N.A.
	Other conditions	Mothers are entitled to the maternity allowance once there are 154 days into the pregnancy	Mothers are entitled to the maternity allowance once there are 154 days into the pregnancy	Mothers are entitled to the maternity allowance once there are 154 days into the pregnancy	Mothers are entitled to the maternity allowance once there are 154 days into the pregnancy
	Eligibility of self-employed	As above	As above	As above	As above
<b>Payment</b>	Contribution base	Earned income for the previous year * (1-0.0424)	Annual income for the previous 12 months * (1-0.0958)	Annual income for the previous 12 months * (1-0.0991)	Annual income for the previous 12 months * (1-0.0983)
	Basic amount	27.86 €	28.94 €	29.05 €	29.67 € (30.71 € since Aug 2022)



Amounts based on earnings					
- first income bracket	0.7 x annual earnings / 300 (if annual earnings less than or equal to 37,861)	0.7 x annual income / 300 (if annual income less than or equal to 38,636)	0.7 x annual income / 300 (if annual income less than or equal to 39,144)	0.7 x annual income / 300 (if annual income less than or equal to 40,106)	
- second income bracket	88.34 + 0.40 x (annual earnings – 37,861) / 300 (if annual earnings between 37,862-58,252)	90.15 + 0.40 x (annual income – 38,636) / 300 (if annual income between 38,637-59,444)	91.34 + 0.40 x (annual income – 39,144) / 300 (if annual income between 39,145-60,255)	93.58 + 0.40 x (annual income – 40,106) / 300 (if annual income between 40,107-61,705)	
- third income bracket	115.53 + 0.25 x (annual earnings – 58,252) / 300 (if annual earnings over 58,252)	117.89 + 0.25 x (annual income – 59,444) / 300 (if annual income over 59,444)	119.44 + 0.25 x (annual income – 60,255) / 300 (if annual income over 60,255)	122.38 + 0.25 x (annual income – 61,705) / 300 (if annual income over 61,705)	
Increased amounts					
-first income bracket	0.9 x annual earnings / 300 (if annual earnings less than or equal to 58,252)	0.9 x annual income / 300 (if annual income less than or equal to 59,444)	0.9 x annual income / 300 (if annual income less than or equal to 60,255)	0.9 x annual income / 300 (if annual income less than or equal to 61,705)	
-second income bracket	174.76 + 0.325 x (annual earnings – 58,252) / 300 (if annual earnings over 58,252)	178.33 + 0.325 x (annual income – 59,444) / 300 (if annual earnings over 59,444)	180.86 + 0.325 x (annual income – 60,255) / 300 (if annual earnings over 60,255)	185.11 + 0.325 x (annual income – 61,705) / 300 (if annual earnings over 61,705)	
Floor	27.86 €	28.94 €	29.05 €	29.67 € (31.71 € since Aug 2022)	
Ceiling	N.A.	N.A.	N.A.	N.A.	
<b>Duration</b>	Standard (in months)	105 days (4 months)	105 days (4 months)	105 days (4 months)	105 days (4 months)
	Special cases (in month) – increased amount	56 days (2 month)	56 days (2 month)	56 days (2 month)	56 days (2 month)
<b>Subject to</b>	Taxes	Yes	Yes	Yes	Yes
	SIC (only medical care contribution)	Yes	Yes	Yes	Yes

### *Changes in benefit rules 2019–2022*

On 1 August 2022, the new family leave reform will go into effect bringing changes to the duration and timing of parental leaves and parental allowances. The allowances will be calculated in the same way as before. After the reform, the pregnant parent will be paid a pregnancy allowance for 40 working days preceding the parents' entitlement to a parental allowance. Parental allowance for one child is paid for a total of 320 working days. If a child has two parents who are entitled to a parental allowance, both parents can take one half of the full entitlement, i.e., 160 days. A parent can turn over up to 63 parental allowance days to the other parent. The new family leave provisions apply to families where the estimated due date of the baby is 4 September 2022 or later. The new provisions also apply to parents who are adopting a child who will be placed in their care on or after 31 July 2022. Since in EUROMOD the policy date is June 30, the new family leave reform will be applied from policy year 2023.

In August 2022, the minimum benefit amount was increased to 30.71 euros per day.

### *EUROMOD modelling*

The policy can be simulated in EUROMOD, without any particular data or modelling limitations.

#### **2.5.7 Parental leave benefit (bfapl\_s)**

- *Brief description*

Parental leave benefit is paid either to a mother or to a father when the maternity leave period has expired or a child (age under 18 years since 2019) has been adopted. The benefit is paid for 158 weekdays to the parent who stays at home and takes care of the child (in case of adoption, 233 days since 2019). Both parents cannot receive the parental leave benefit at the same time unless they have two or more siblings that were born at the same time. However, they can share the days in periods (e.g. first mother taking care of the children for some months and then father taking care the rest of the benefit days) or in a part-time manner (both working part-time at the same time). Increased parental leave benefit was paid for the first 30 days of parental leave, but the increase was abolished since 2016.

Since 2015 the families with two or more siblings born at the same time can have 60 additional benefit days for each additional sibling. The parents can take these additional days at the same time.

Since April 2019 mothers can have 54 additional benefit days if the child has no confirmed father and the mother has no spouse.

- *Eligibility conditions*

One becomes entitled to the parental allowance once the maternity leave period has expired.

- *Income test*

This is not a means-tested benefit.

- *Benefit amount*

Before 2020, the allowance was usually calculated on the basis of earned income for the previous year, as confirmed for tax purposes. From the gross wage, 60% of employee's pension and unemployment insurance and daily allowance contributions (together 4.24% in 2019) were deducted. The income basis for self-employed was the self-reported income (YEL or MYEL income) that is used as the basis for social contribution. If one did not have earned income, one

received the allowance at the minimum rate. The minimum rate was 27.86 euro per working day in 2019.

Starting 1 January 2020, the daily allowances payable to parents is calculated on the basis of annual income. The annual income is calculated for a reference period of 12 calendar months prior to the month that precedes the start of the entitlement to the allowance. Included in the annual income are wages and salaries, salaries for insurance purposes, earned income under the self-employed persons' (YEL) and farmers' (MYEL) pension insurance schemes, certain compensations for loss of income, and a number of social benefits including unemployment benefits, sickness allowance and study grants. Insurance contributions are deducted from the annual income. In 2020 the deduction was 9.58% and in 2021 it is 9.91%.

The annual income may consist of several sources of income, such as salaries and social benefits. The necessary data is typically obtained from the national incomes register and from insurance providers. If an applicant has no or only very little income for the 12-month reference period, the allowance will be at least a specified minimum amount (28.94 euro per day in 2020 and 29.05 euro in 2021).

Parental allowance based on income (2020):

up to 38,636 euros	$0.7 \times \text{annual income} : 300$ , but at least the basic allowance
38,637 – 59,444 euros	$90.15 + 0.40 \times (\text{annual income} - 38,636) : 300$
over 59,444 euros	$117.89 + 0.25 \times (\text{annual income} - 59,444) : 300$

One can work or study during parental leave and receive a parental allowance from Kela. The parental allowance is paid at a minimum rate for the working days. Working on Sundays or other holidays does not affect the parental allowance, because it is only paid for working days (Mon–Sat). If one is a full-time student and gets parental allowance, it is paid at a minimum rate on top of any student financial aid one receives.

Parental leave benefit is taxable income.

**Table 14. Characteristics of the parental leave benefit**

		<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2021</b>
<b>Eligibility</b>	Contribution period	N.A.	N.A.	N.A.	N.A.
	Other conditions	The benefit is paid to the parent who stays at home and takes care of the child once the maternity leave period has expired	The benefit is paid to the parent who stays at home and takes care of the child once the maternity leave period has expired	The benefit is paid to the parent who stays at home and takes care of the child once the maternity leave period has expired	The benefit is paid to the parent who stays at home and takes care of the child once the maternity leave period has expired
	Eligibility of self-employed	As above	As above	As above	As above
<b>Payment</b>	Contribution base	Earned income for	Annual income for	Annual income for	Annual income for

		the previous year * (1- 0.0424)	the previous 12 months * (1-0.0958)	the previous 12 months * (1-0.0991)	the previous 12 months * (1-0.0983)
	Basic amount	27.86 €	28.94 €	29.05 €	29.67 € (30.71 € since Aug 2022)
	Amounts based on earnings				
	- first income bracket	0.7 x annual earnings / 300 (if annual earnings less than or equal to 37,861)	0.7 x annual income / 300 (if annual income less than or equal to 38,636)	0.7 x annual income / 300 (if annual income less than or equal to 39,144)	0.7 x annual income / 300 (if annual income less than or equal to 40,106)
	- second income bracket	88.34 + 0.40 x (annual earnings – 37,861) / 300 (if annual earnings between 37,862- 58,252)	90.15 + 0.40 x (annual income – 38,636) / 300 (if annual income between 38,637- 59,444)	91.34 + 0.40 x (annual income – 39,144) / 300 (if annual income between 39,145- 60,225)	93.58 + 0.40 x (annual income – 40,106) / 300 (if annual income between 40,107- 61,705)
	- third income bracket	115.53 + 0.25 x (annual earnings – 58,252) / 300 (if annual earnings over 58,252)	117.89 + 0.25 x (annual income – 59,444) / 300 (if annual income over 59,444)	119.44 + 0.25 x (annual income – 60,225) / 300 (if annual income over 60,225)	122.38 + 0.25 x (annual income – 61,705) / 300 (if annual income over 61,705)
	Floor	27.86 €	28.94 €	29.05 €	29.67 € (30.71 € since Aug 2022)
	Ceiling	N.A.	N.A.	N.A.	N.A.
<b>Duration</b>	Standard (in months)	158 days (6 months)	158 days (6 months)	158 days (6 months)	158 days (6 months)
	Special cases (in month) – increased amount	N.A.	N.A.	N.A.	N.A.
<b>Subject to</b>	Taxes	Yes	Yes	Yes	Yes
	SIC (only medical care contribution)	Yes	Yes	Yes	Yes

### ***Changes in benefit rules 2019–2022***

On 1 August 2022, the new family leave reform will go into effect bringing changes to the duration and timing of parental leaves and parental allowances. The allowances will be calculated in the same way as before. After the reform, the pregnant parent will be paid a pregnancy allowance for 40 working days preceding the parents' entitlement to a parental allowance. Parental allowance for one child is paid for a total of 320 working days. If a child has two parents

who are entitled to a parental allowance, both parents can take one half of the full entitlement, i.e., 160 days. A parent can turn over up to 63 parental allowance days to the other parent. The new family leave provisions apply to families where the estimated due date of the baby is 4 September 2022 or later. The new provisions also apply to parents who are adopting a child who will be placed in their care on or after 31 July 2022. Since in EUROMOD the policy date is June 30, the new family leave reform will be applied from policy year 2023.

In August 2022, the minimum benefit amount was increased to 30.71 euros per day.

### *EUROMOD modelling*

The policy can be simulated in EUROMOD, without any particular data or modelling limitations.

#### **2.5.8 Paternity leave benefit (bpa\_s)**

- *Brief description*

Paternity leave benefit is paid to a father for 54 days. The benefit can be divided into maximum of four distinct periods during the maternity or parental leave periods. Of these 54 days (around 2 month), 18 days can be taken at the same time as the maternity or mother's parental leave. The standard amount of paternity leave benefit equals the standard parental leave benefit. Increased paternity leave benefit was paid for the first 30 days of paternity leave, but the increase was abolished since 2016.

Since April 2019 fathers of families with two or more siblings born at the same time can have 18 additional benefit days for each additional sibling (max. 105 days). The parents can take these additional days at the same time.

- *Eligibility conditions*

One is entitled to a paternity allowance if married to or living together with the child's mother and taking part in the child care responsibilities. A father who is responsible for the care of a child but is not married to or cohabiting with the child's mother, is entitled to a paternity allowance if he assumed the care of the child on or after 1 March 2017. One need not be living with the child, but must be a caregiver for him or her during the paternity leave. Paternity allowance can be paid also to adoptive fathers.

- *Income test*

This is not a means-tested benefit.

- *Benefit amount*

Before 2020, the allowance was usually calculated on the basis of earned income for the previous year, as confirmed for tax purposes. From the gross wage, 60% of employee's pension and unemployment insurance and daily allowance contributions (together 4.24% in 2019) were deducted. The income basis for self-employed was the self-reported income (YEL or MYEL income) that is used as the basis for social contribution. If one did not have earned income, one received the allowance at the minimum rate. The minimum rate was 27.86 euro per working day in 2019.

Starting 1 January 2020, the daily allowances payable to parents is calculated on the basis of annual income. The annual income is calculated for a reference period of 12 calendar months prior to the month that precedes the start of the entitlement to the allowance. Included in the annual income are wages and salaries, salaries for insurance purposes, earned income under the self-employed persons' (YEL) and farmers' (MYEL) pension insurance schemes, certain

compensations for loss of income, and a number of social benefits including unemployment benefits, sickness allowance and study grants. Insurance contributions are deducted from the annual income. In 2020 the deduction was 9.58% and in 2021 it is 9.91%.

The annual income may consist of several sources of income, such as salaries and social benefits. The necessary data is typically obtained from the national incomes register and from insurance providers. If an applicant has no or only very little income for the 12-month reference period, the allowance will be at least a specified minimum amount (28.94 euro per day in 2020 and 29.05 euro in 2021).

Paternity allowance based on earnings (2020):

up to 38,636 euros	$0.7 \times \text{annual income} : 300$ , but at least the basic allowance
38,637 – 59,444 euros	$90.15 + 0.40 \times (\text{annual income} - 38,636) : 300$
over 59,444 euros	$117.89 + 0.25 \times (\text{annual income} - 59,444) : 300$

One can work or study during paternity leave and receive a paternity allowance from Kela. The paternity allowance is paid at a minimum rate for the working days. Working on Sundays or other holidays does not affect the paternity allowance, because it is only paid for working days (Mon–Sat). If one is a full-time student and gets paternity allowance, it is paid at a minimum rate on top of any student financial aid one receives.

Paternity leave benefit is taxable income.

**Table 15. Characteristics of the paternity leave benefit**

		<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>Eligibility</b>	Contribution period	N.A.	N.A.	N.A.	N.A.
	Other conditions	Fathers who are taking part in the care responsibilities of a child under 3 years old	Fathers who are taking part in the care responsibilities of a child under 3 years old	Fathers who are taking part in the care responsibilities of a child under 3 years old	Fathers who are taking part in the care responsibilities of a child under 3 years old
	Eligibility of self-employed	As above	As above	As above	As above
<b>Payment</b>	Contribution base	Earned income for the previous year * (1-0.0424)	Annual income for the previous year * (1-0.0958)	Annual income for the previous year * (1-0.0991)	Annual income for the previous year * (1-0.0983)
	Basic amount	27.86 €	28.94 €	29.05 €	29.67 € (30.71 since Aug 2022)
	Amounts based on earnings				
	- first income bracket	$0.7 \times \text{annual earnings} / 300$ (if annual earnings less	$0.7 \times \text{annual income} / 300$ (if annual income less	$0.7 \times \text{annual income} / 300$ (if annual income less	$0.7 \times \text{annual income} / 300$ (if annual income less

		than or equal to 37,861)	than or equal to 38,636)	than or equal to 39,144)	than or equal to 40,106)
- second income bracket		88.34 + 0.40 x (annual earnings – 37,861) / 300 (if annual earnings between 37,862- 58,252)	90.15 + 0.40 x (annual income – 38,636) / 300 (if annual income between 38,637- 59,444)	91.34 + 0.40 x (annual income – 39,144) / 300 (if annual income between 39,145- 60,225)	93.58 + 0.40 x (annual income – 40,106) / 300 (if annual income between 40,107- 61,705)
- third income bracket		115.53 + 0.25 x (annual earnings – 58,252) / 300 (if annual earnings over 58,252)	117.89 + 0.25 x (annual income – 59,444) / 300 (if annual income over 59,444)	119.44 + 0.25 x (annual income – 60,225) / 300 (if annual income over 60,225)	122.38 + 0.25 x (annual income – 61,705) / 300 (if annual income over 61,705)
Floor		27.86 €	28.94 €	29.05 €	29.67 € (30.71 € since Aug 2022)
	Ceiling	N.A.	N.A.	N.A.	N.A.
<b>Duration</b>	Standard (in months)	54 days (2 months)	54 days (2 months)	54 days (2 months)	54 days (2 months)
	Special cases (in month) – increased amount	N.A.	N.A.	N.A.	N.A.
<b>Subject to</b>	Taxes	Yes	Yes	Yes	Yes
	SIC (only medical care contribution)	Yes	Yes	Yes	Yes

### *Changes in benefit rules 2019–2022*

On 1 August 2022, the new family leave reform will go into effect bringing changes to the duration and timing of parental leaves and parental allowances. The allowances will be calculated in the same way as before. After the reform, the pregnant parent will be paid a pregnancy allowance for 40 working days preceding the parents' entitlement to a parental allowance. Parental allowance for one child is paid for a total of 320 working days. If a child has two parents who are entitled to a parental allowance, both parents can take one half of the full entitlement, i.e., 160 days. A parent can turn over up to 63 parental allowance days to the other parent. The new family leave provisions apply to families where the estimated due date of the baby is 4 September 2022 or later. The new provisions also apply to parents who are adopting a child who will be placed in their care on or after 31 July 2022. Since in EUROMOD the policy date is June 30, the new family leave reform will be applied from policy year 2023.

In August 2022, the minimum benefit amount was increased to 30.71 euros per day.

### *EUROMOD modelling*

The policy can be simulated in EUROMOD, without any particular data or modelling limitations.

### 2.5.9 Child benefit (bch\_s)

#### *Brief description*

Child benefit is a universal flat-rate benefit paid for every child under 17 years of age and residing in Finland. Parents may choose which one of them receives the benefit.

#### *Eligibility conditions*

The child benefit is paid for every child under 17 years of age and residing in Finland. The benefit is paid regardless of any other benefits (or any other reasons).

#### *Benefit amount*

The amount of child benefit depends on the number of dependent children and the number of parents in family. It is larger per child if there are several children in the family (up to 5).

Single parents are entitled to a child benefit supplement for each dependent child. Co-habiting but not married persons are not entitled to the supplement.

Table 16. The child benefit in 2019–2022, euro/month.

	2019	2020	2021	2022
1st child	94.88	94.88	94.88	94.88
2nd child	104.84	104.84	104.84	104.84
3th child	133.79	133.79	133.79	133.79
4th child	153.24	163.24	163.24	163.24
5th and so on	172.69	182.69	182.69	182.69
Single parent supplement	53.30	63.30	63.30	63.30

*Example (2019):* A single person with 3 children. Euro/month.

1st child (94.88+53.30)	148.18
2nd child (104.84+53.30)	158.18
3rd child (133.79+53.30)	187.09
Benefit	493.45

#### *Means-testing and taxation*

The child benefit is not means-tested. It is usually not taken into account when calculating means-tested benefits with the exception of the local authority income support / social assistance. The child benefit is not taxable income.



***Changes in benefit rules 2019–2022***

Since 1 March 2011 the child benefit was adjusted by national pension index, but for years 2013–2015 the indexation was suspended. Since 1 January 2016 the adjustment was suspended until further notice.

In 2015 the child benefit was decreased by 8.1%. There were no changes in single parent supplement.

In 2017 the benefit levels (except single parent supplement) were reduced by 0.91%. In 2018 the single parent supplement was increased.

In 2020, the child benefit for the fourth and each subsequent child and the single-parent supplement was raised by 10 euro per month.

***EUROMOD modelling***

The policy can be simulated in EUROMOD, without any particular data or modelling limitations.

**2.5.10 Child home care allowance (bcc\_s)*****Brief description***

The purpose of the child home care allowance is to give parents the possibility to arrange the child care as they want without significant economic consequences. The child home care allowance is "integrated" with the day care system in the sense that parents can choose whether to put their small children to municipal day care, arrange a private care or stay at home with them. The families may choose separately for each child the type of child care they prefer.

***Eligibility conditions***

Parents are entitled to the child home care allowance if at least one child is less than 3 years old and a parent or any other person (e.g. private baby-sitter) takes care of the child at home. In addition, the allowance is paid for any other children under the age of 7 and not in any subsidised day care.

The allowance is usually paid immediately after parental leave benefit. It is paid until the youngest child reaches the age of 3 or moves into subsidised day care. The allowance is paid to the parent who is staying home with the children, or if the minder of the child is someone else than the parent, the allowance is paid to one of the parents or directly to the minder.

***Benefit amount***

The child home care allowance consists of basic amount and a supplement. The basic amount is a lump sum benefit and is different for the first child under 3 years, other children under 3 years and other children between 3–6 years. The child home care supplement is means-tested and paid only for one child.

Table 17. Child home care allowance in 2016–2022, euro/month.

Year	Basic amount for the first child under 3	Basic amount for each additional child under 3 years	Basic amount for each child between 3–6 years	Full Supplement
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2016	341.27	102.17	65.65	182.64
2017	338.34	101.29	65.09	181.07
2018	338.34	101.29	65.09	181.07
2019	338.34	101.29	65.09	181.07
2020	341.69	102.30	65.73	182.86
2021	342.95	102.67	65.97	183.53
2022	350.27 (362.61 since Aug 2022)	104.86 (108.56 since Aug 2022)	67.38 (69.76 since Aug 2022)	187.45 (194.06 since Aug 2022)

*Example (2019):* The basic amount for a family with three children (aged 1, 2 and 4 years). Euro/month.

First child (1 year old)	338.34
Second child (2 years old)	101.29
<u>Third child (4 years old)</u>	<u>65.09</u>
Basic amount	504.72

### ***Means testing and taxation***

The child home care supplement depends on family monthly income and the size of the family. "The family" is in this case parents and children under 7 years but maximum two of them. Thus, the minimum family size is two (1 parent, 1 child) and the maximum four (2 parents, 2 children).

The full supplement is paid if the family monthly income is below an income limit which varies with family size. When income exceeds the limit the supplement is reduced by a certain percentage of the exceeding amount.

**Table 18. The income limits and reduction rates of child home care supplement in 2017–2022.**

Size of the family	Income level that entitles to a full supplement, euro/month	Reduction rate, %
2	1,160	11.5
3	1,430	9.4
4 or more	1,700	7.9

The family income concept includes the gross monthly earned and capital income subject to tax as well as some non-taxable incomes. However, the study grant, student housing supplement, child benefit, disability allowance (both for persons under 16 and for persons aged 16 or older), care allowance for pensioners, housing allowance for pensioners, general housing allowance and income support are excluded.

*Example (2019):* The basic amount and supplement for a family with 2 parents and 2 children (1 and 3 years), family income 2,000 euro/month. Euro/month.

Basic amount (338.34+101.29)	439.63
Supplement	
full supplement 181.07	
subtracted 7.9 % of (2,000–1,700) = 23.70	
supplement 181.07 – 23.70	157.37
Child home care allowance	597.01

Students can receive child home care allowance. In this case the allowance is regarded as income when determining the eligibility for student's financial support.

Some municipalities pay additional child home care subsidies. These municipalities decide themselves the type, size and entitlement conditions of the subsidy.

The child home care allowance is taxable income.

### ***Changes in benefit rules 2019–2022***

By legislation the basic amount and the full supplement are adjusted by national pension index. However, as an exception to this principle, in 2017 the benefit levels were reduced by 0.85 %, and in 2018–2019 the increased in line with the index was not done. In 2020, the euro amounts of child care allowances tied to the national pension index went up 1.0%, and in 2021 0.4%.

In August 2022, an additional increase was made to the child home care allowance scheme.

### ***EUROMOD modelling***

In EUROMOD the allowance is given to the parent with the lowest income. This is a reasonable assumption in most cases.

Students can receive child home care allowance. In this case the allowance is regarded as income when determining the eligibility for student's financial support. However, such simultaneously received benefits are not possible to take into account in simulations.

Some municipalities pay additional child home care subsidies. These municipalities decide themselves the type, size and entitlement conditions of the subsidy. These additional payments can't be simulated.

## **2.5.11 Guarantee pension (pmmtu\_s)**

### ***Brief description***

The guarantee pension was introduced in March 2011. It guarantees a certain level of pension to all pensioners.

### ***Eligibility conditions***

A person is eligible for the guarantee pension if he or she lives in Finland and

- 1) receives a pension which entitles him/her to guarantee pensions – these pensions include: old age pension or anticipated old age pension (at least 62 years old; since 2014 at least

63 years old if born in 1952 or later), disability pension (16–64 years old), and unemployment pension; or

2) is an immigrant and is at least 65 years old (if disabled, then 16–64 years old).

Part-time old-age pensioners or partial disability pensioners are not eligible for the guarantee pension.

### ***Maximum benefit amount***

The maximum amount of the guarantee pension is 834.52 euro/month in 2020. It is equal for singles and spouses. The maximum amount is indexed every year according to the national pension index (KEL-index).

If a person receives anticipated old-age pension or did so in the past, then the guarantee pension is paid at a reduced rate. The maximum guarantee pension is reduced by 0.4% for every month a person spent in early retirement. For example, if a person retires at 62 (and official retirement age is 65), the maximum guarantee pension is reduced by  $14.4\% = (65-62) \times 12 \times 0.4\%$ . This reduction is fixed for the rest of the life.

Table 19. Guarantee pension parameters 2019–2022.

	2019	2020	2021	2022
Full guarantee pension, euro/month	784.52	834.52	837.59	855.48 (885.63 since Aug 2022)
Minimum amount, euro/month	6.68	6.75	6.77	6.92 (7.16 since Aug 2022)
Percentage withdraw every month for anticipated pensions, %	0.4	0.4	0.4	0.4

### ***Means-testing and taxation***

The guarantee pension is means-tested against other pension income: old-age, disability and survivors pensions. The following incomes are excluded from the test: the child increase for pensions, front-veteran's supplements, care allowance for pensioners and disability allowance for persons aged 16 or older. Pension income is taken into account on annual basis and divided by the number of months in retirement. Payable amount of the guarantee pension is obtained by subtracting other pension income from the full (maximum) guarantee pension. Other income than pensions or wealth does not affect the guarantee pension.

In case the calculated guarantee pension is below the minimum threshold, then it is not paid out. The guarantee pension is taxable income.

### ***Changes in benefit rules 2019-2022***

In August 2022, an additional increase was made to the guarantee pension scheme.

### *EUROMOD modelling*

Part-time old-age pensioners or partial disability pensioners are not eligible for the guarantee pension. In EUROMOD they are identified as pensioners with positive number of months in work.

If a person receives anticipated old-age pension or did so in the past, then the guarantee pension is paid at a reduced rate. This condition can be simulated only for those who currently receive anticipated old-age pension. For all of them we assume that they retired at the age of 62.

The following incomes to be excluded from the income test are not identified in the data: the child increase for pensions, and front-veteran's supplements.

#### **2.5.12 Housing allowance for pensioners (bhope\_s)**

##### *Brief description*

The housing allowance for pensioners is paid to pensioners with low incomes. All households must pay their own share of the housing costs. This share consists of three parts: a) a flat "basic own responsibility", b) a means-tested "additional own responsibility" and c) costs exceeding the acceptable housing costs.

##### *Eligibility conditions*

The housing allowance for pensioners can be paid to rented, right-of-occupancy or owner-occupied permanent dwellings that are situated in Finland. The housing allowance can also be paid to the residential care home.

The persons, who receive earnings-related or national pension as old-age pension, disability pension or rehabilitation subsidy or receive guarantee pension, surviving spouse's pension, or workers' compensation pension, are eligible to the housing allowance for pensioners. However, the persons, who receive part-time old-age pension or partial disability pension, are not eligible for the housing allowance for pensioners.

If the eligible pensioner lives with a partner, who is not eligible for the housing allowance for pensioners, the whole household is however eligible for the housing allowance for pensioners. In that case the whole allowance is paid to the eligible person. If the partners are both entitled to the housing allowance for pensioners, the allowance is equally divided between both pensioners. If the pensioner lives with another member of the household who is not his or her partner, for example with children, the whole household is eligible for the general housing allowance, not for the housing allowance for pensioners. If there is a student in the household, the student is not pensioner's partner, he or she has no children and he or she is eligible for the student housing supplement, the housing costs are divided between the student and the other people. The student is eligible for the student housing supplement alone, and the pensioner and his or her possible partner are eligible for the housing allowance for pensioners.

##### *Benefit amount*

The amount of the housing allowance for pensioners is 85% of the acceptable housing costs exceeding the basic own responsibility and the additional own responsibility. The formula is:

$$\begin{aligned} & \text{housing allowance for pensioners} \\ &= 85\% \times (\text{acceptable housing costs} - \text{basic own responsibility} - \text{additional own responsibility}) \end{aligned}$$

If the household lives in a rented dwelling or residential care home, the acceptable housing costs include the rent and the separate water and heating charges. If the household lives in a right-of-occupancy dwelling or in the owner-occupied unit in a housing cooperative, the acceptable housing costs include the maintenance charge and the separate water and heating charges. The separate water and heating charges mean the charges that are paid separately for the rent or maintenance charge. If the water or heating charges are part of the rent or maintenance charge, they are not taken into account separately.

The separate water and heating charges are not based on true costs but on standard levels. The heating charges differ depending on which part of the country the dwelling is situated. There is no exact data about the heating cost categories available, but the following approximation can be used: if the dwelling is situated in Helsinki-Uusimaa (NUTS2 = FI1B, drgn2 = 2) or in South Finland (NUTS2 = FI1C, drgn2 = 3), use the heating cost category 1. If the dwelling is situated in West Finland (NUTS2 = FI19, drgn2 = 1), use the heating cost category 2. If the dwelling is situated in North and East Finland (NUTS2 = FI1D, drgn2 = 4), use the heating cost category 3. If the dwelling is built or modernised before 1974, the heating charge is 30 per cent higher than if the dwelling is built or modernised later. Because the information on the year of building or modernising is not available in the data, the charges with increase of 15% are applied to all cases. The heating charges are taken into account only to the extent that the size of the dwelling does not exceed the certain limit: 70 square metres to the person living alone, the increase of 15 square metres to the partner.

In the case of the owner-occupied single-family home (detached house), the acceptable housing costs include the maintenance charge, water charge, heating charge and the rent of plot. Not only the water and heating charges are now based on the standard levels but there are also standard levels for maintenance charges. The same heating cost categories, increase of 15% and limits for the size of the dwelling as described above are applied in the case of owner-occupied single family home too. The increase of 15% is also applied for the maintenance charge.

In addition, in the case of the right-of-occupancy and owner-occupied dwellings, the acceptable housing costs include interest payable on personal loans taken out to finance the purchase of the dwelling.

There are limits for the total sum of the acceptable annual housing costs. The limits differ according to municipality groups. There are no exact data about the municipality groups available, but quite good approximation is the following: if the household lives in Helsinki-Uusimaa (NUTS2=FI1B, drgn2 = 2), use the maximum housing costs in the municipality group 1. If the household lives in other part of the country, use the average of the maximum housing costs in the municipality groups 2 and 3.

The basic own responsibility per household is 616.46 euro/year in 2020.

**Table 20. Parameters of the housing allowance for pensioners in 2019–2022.**

	2019	2020	2021	2022
Allowance as a percentage	85	85	85	85
Water charge, euro/month/person	29.42	29.42	29.81	29.81
Heating charge, heating cost category 1, euro/month/square metre	1.27	1.32	1.32	1.32
Heating charge, heating cost category 2, euro/month/square metre	1.40	1.45	1.45	1.45
Heating charge, heating cost category 3, euro/month/square metre	1.55	1.60	1.60	1.60

Maintenance charge for owner-occupied single-family home, euro/month/person	42.32	43.28	43.44	44.37
Increase in heating and maintenance charges, if the dwelling is built or modernised before 1974, %	30	30	30	30
Maximum size of the dwelling for the heating charge, if the person lives alone, square metres	70	70	70	70
Increase to the maximum size of the dwelling for the heating charge, square metres per additional person	15	15	15	15
Basic own responsibility, euro/year	610.42	616.46	618.73	631.94
Coefficient for additional own responsibility, %	40	41.3	41.3	41.3
Minimum amount of allowance, euro/month	6.68	6.75	6.77	6.92

**Table 21. Maximum housing costs of the housing allowance for pensioners in 2019–2022.**

	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Maximum costs in municipality group 1, euro/year	8,243	8,360	8,433	8,613
Maximum costs in municipality group 2, euro/year	7,581	7,688	7,755	7,921
Maximum costs in municipality group 3, euro/year	6,651	6,745	6,804	6,949
Increase in maximum costs, when 1–2 children, %	-	-	-	-
Increase in maximum costs, when 3 or more children, %	-	-	-	-

### ***Means-testing and taxation***

The housing allowance for pensioners is means-tested against most own and partner's earned and capital income. The following incomes are not taken into account: front-veteran's supplements, study grant, care allowance for pensioners, disability allowance for persons aged 16 or older, home care allowance and income support. The wealth, except own dwelling, is also included in means-testing. Means-testing is included in the additional own responsibility component. Additional own responsibility is 41.3% of the income exceeding the certain income limits for different households types.

**Table 22. The income limits of the housing allowance for pensioners in 2019–2022, euro/year.**

	2019	2020	2021	2022
Single	8,676	9,300	9,334	9,534
Married or cohabiting; partner is not eligible for allowance	12,717	13,341	13,390	13,676
Married or cohabiting; partner is eligible for allowance	13,936	15,184	15,239	15,565

The minimum amount of the allowance is 6.92 euro/month in 2022. If both spouses receive housing allowance the minimum amount is 3.46 euro/month. If the allowance is below this threshold, it is not paid.

*Example (2019):* A single person with rent of 5,250 euro/year and annual income of 9,500 euro.

Basic own responsibility	610.42
Additional own responsibility $0.40 \times (9,500 - 8,676)$	329.60
<u>Own responsibility, total</u>	<u>940.02</u>
Benefit $0.85 \times (5,250 - 940.02)$	3,663.48

The monthly allowance is the annual allowance divided by 12 (305.29 euro in the example).

The housing allowance for pensioners is not taxable.

### ***Changes in benefit rules 2019–2022***

The amount of basic own responsibility, the income limits and the minimum amount of the allowance are indexed by national pension index.

Before the year 2015, the persons, who were under 65 years old and received only old-age pension or guarantee pension, were not eligible for the housing allowance for pensioners. On the other hand, all the persons, who were at least 65 years old, were eligible for the housing allowance for pensioners even if they receive no pension.

Before the year 2015, the pensioners, who lived with children, were eligible for the housing allowance for pensioners. In that case, the limit for acceptable housing costs was increased by 20% if there were one or two children aged less than 18 years in the household and by 40% if there were three or more such children. In addition, the pensioners, who lived with children, could choose, if they wanted, the general housing allowance instead of the housing allowance for pensioners. Before 2015, when there could be children in the household, the child increase for pensions and child benefit were not taken into account as income.

In 2017, the amount of basic own responsibility was reduced by 0.85%. In 2018 the maximum housing costs taken into account in the housing allowance for pensioners were increased by 1.8%, and the compensation for monthly maintenance costs of a detached house or cottage was increased to 42.32 euro (41.57 euro per month in 2017). In 2019, the maximum housing costs taken into account in the housing allowance for pensioners were again increased by 1.8% in all three municipality categories.

In 2020, the maximum housing costs taken into account in the housing allowance for pensioners were increased by 1.4% in all three municipality categories. In 2021, the increase was 0.9%.



### *EUROMOD modelling*

The following incomes to be excluded from the income test cannot be identified in the data: front-veteran's supplements, and home care allowance. In addition, due to lack of information, wealth is not taken into account in simulations.

#### **2.5.13 General housing allowance (bho00\_s)**

The description covers the years 2017–2022.

##### *Brief description*

General housing allowance is paid to low-income households to reduce their housing costs. The allowance can be paid to the households living in rented, right-of-occupancy or owner-occupied dwellings. When the general housing allowance is considered, the housing costs are taken into account only up to certain limits of the acceptable costs and the exceeding costs are always paid by households themselves. Depending on the income level of the household, 0–80 per cent of the costs below the limit of the acceptable costs are paid as general housing allowance.

##### *Eligibility conditions*

The general housing allowance can be paid to rented, right-of-occupancy or owner-occupied permanent dwellings that are situated in Finland.

The unit of entitlement is a household, where the household means all the persons living in the same dwelling. If there are only persons, who are eligible for the housing allowance for pensioners, and their partners in the household, the whole household is eligible for the housing allowance for pensioners, not for the general housing allowance. If in addition to these people, some other people, who are not eligible for the housing allowance for pensioners (e.g. children), live in the household, the whole household is eligible for the general housing allowance. If the student, who is eligible for the student housing supplement, lives in the household with other household members, the housing costs are divided between the student and the other people. The student is eligible for the student housing supplement alone, and the rest of the household is eligible for the general housing allowance. However, if the student has children, the whole household is eligible for the general housing allowance.

From August 2017, the student housing supplement will no longer be paid to most students. Students who study in Finland and who live in a rented dwelling can apply for the general housing benefit.

##### *Benefit amount*

The amount of the general housing allowance is 80 per cent of the acceptable housing costs exceeding the basic deductible. Thus, the formula is:

$$\text{general housing allowance} = 80\% \times (\text{acceptable housing costs} - \text{basic deductible})$$

If the household lives in a rented dwelling, the acceptable housing costs include the rent and the separate water and heating charges. If the household lives in a right-of-occupancy dwelling, the acceptable housing costs include the maintenance charge and the separate water and heating charges. In the case of the owner-occupied unit in a housing cooperative, the maintenance charge and the separate water and heating charges are acceptable. The separate water and heating charges mean the charges that are paid separately for the rent or maintenance charge. If the water or heating charges are part of the rent or maintenance charge, they are not taken into account

separately. The separate water and heating charges are not based on true costs but on standard levels. In the case of the owner-occupied single-family home (detached house), the acceptable housing costs include the maintenance charge. This charge is neither based on true costs but on standard levels.

If the dwelling is situated in a certain part of the country, the standard levels of the heating and maintenance charges are 4 or 8 per cent higher than in other parts of the country. The areas where the increases apply are situated mainly in North and East Finland (NUTS2 = FI1D, drgn2 = 4). As it is not possible to distinguish the areas with 4% increase from the areas with 8% increase, we use 6% increase as a proxy.

In the case of the right-of-occupancy and owner-occupied dwellings, the acceptable housing costs also include 73 per cent of the monthly interest payable on personal loans taken out to finance the purchase of the dwelling.

The acceptable housing costs are taken into account only up to the certain limits. The limit depends on the number of persons living in the household and the area the dwelling is situated. The precise information on the residence is not available in the data, but the following approximation can be used: if the household lives in Helsinki-Uusimaa (NUTS2=FI1B, drgn2 = 2), use the average of the maximum housing costs in municipality group 1 and 2. If the household lives in another part of the country, use the average of the maximum housing costs in municipality group 3 and 4.

If the household lives in a rented or right-of-occupancy dwelling, the sum of all the acceptable housing costs can be at most the maximum housing costs set by the legislation. In the case of the owner-occupied dwelling, the sum of the maintenance charge and the separate water and heating charges (= the maintenance costs) can be max 30 per cent of the maximum housing costs. In turn, 73 per cent of the exceeding maintenance costs and 73 per cent of the monthly interest payable on personal loans (= the financing costs) can be altogether maximum 70 per cent of the maximum housing costs.

**Table 23. Parameters of the general housing allowance in 2019–2022.**

	2019	2020	2021	2022
Allowance as a percentage	80	80	80	80
Water charge, euro/month/person	18	18	19	19
Heating charge, euro/month/1.person	41	41	41	42
Heating charge, euro/month/2.person and each next	14	14	14	14
Maintenance charge for owner-occupied single-family home, the size of the household is 1, euro/month	96	97	97	99
Maintenance charge for owner-occupied single-family home, the size of the household is 2, euro/month	115	116	117	119
Maintenance charge for owner-occupied single-family home, the size of the household is 3, euro/month	145	147	147	150
Maintenance charge for owner-occupied single-family home, the size of the household is 4, euro/month	171	173	174	177

Maintenance charge for owner-occupied single-family home, additional cost per person if more than 4 people live in the household, euro/month	53	53	53	55
Increase in heating and maintenance charges, if the household lives in Southern Savonia, Northern Savonia or North Karelia, %	4	4	4	4
Increase in heating and maintenance charges, if the household lives in Northern Ostrobothnia, Kainuu or Lapland, %	8	8	8	8
The portion of the exceeding maintenance costs and the monthly interest payable on personal loans that is taken into account, %	73	73	73	73
For owner-occupied dwelling: the portion of the maximum housing costs that is applied to the maintenance costs, %	30	30	30	30
For owner-occupied dwelling: the portion of the maximum housing costs that is applied to the financing costs, %	70	70	70	70
Basic deductible: parameter 1	0.42	0.42	0.42	0.42
Basic deductible: parameter 2	597	603	606	619
Basic deductible: parameter 3	99	100	100	103
Basic deductible: parameter 4	221	223	224	228
Privileged work income, euro/month/person with work income	300	300	300	300
Minimum basic deductible, euro/month	10	10	10	10
Minimum allowance, euro/month	15	15	15	15

**Table 24. Maximum housing costs in 2019, euro/month.**

The size of the household	Municipality group 1	Municipality group 2	Municipality group 3	Municipality group 4
1 person	516	499	396	349
2 persons	746	717	579	509
3 persons	951	903	734	651
4 persons	1111	1054	869	775
Additional cost per person, if more than 4 persons live in the household	+ 139	+ 132	+ 119	+ 114

**Table 25. Maximum housing costs in 2020-2021, euro/month.**

The size of the household	Municipality group 1	Municipality group 2	Municipality group 3	Municipality group 4
1 person	520	503	399	352
2 persons	752	722	583	513
3 persons	958	910	740	656
4 persons	1 120	1 062	876	781

Additional cost per person, if more than 4 persons live in the household	+ 140	+ 133	+ 120	+ 115
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Table 26. Maximum housing costs in 2022, euro/month.

The size of the household	Municipality group 1	Municipality group 2	Municipality group 3	Municipality group 4
1 person	537	520	413	364
2 persons	778	746	602	530
3 persons	990	941	764	678
4 persons	1157	1097	906	808
Additional cost per person, if more than 4 persons live in the household	+ 144	+ 137	+ 124	+ 119

### ***Means-testing and taxation***

Means-testing is handled via the basic deductible. The basic deductible (euro/month) is determined on the basis of the gross income of the household and the number of adults and children in the household (2020):

*basic deductible*

$$= 0.42 \times [\text{gross income of the household} - (603 + 100 * \text{the number of adults} + 223 * \text{the number of children under 18})]$$

The gross income of the household means the adults' income per month. All the incomes except the following are taken into account: child benefit, child increase for pensions, disability allowance for persons aged 16 or older, care allowance for pensioners, home care allowance, front-veteran's supplements, study grant and income support. Inheritance and gifts are not taken into account. Part of the work income (300 euro/month per person with work income) is privileged income. If the basic deductible is less than 10 euro/month, it is not taken into account.

The minimum amount of the allowance is 15 euro/month.

The general housing allowance is not taxable.

### ***Changes in benefit rules 2019–2022***

The money parameters of the basic deductible and the water, heating and maintenance charges are adjusted by national pension index by legislation. Maximum housing costs are adjusted by rent index, but the indexation was suspended for the year 2016. In 2017, the maximum housing costs were reduced by 5% in class 3 and 4 municipalities. Moreover, the 0.85% cut in the national pension index means that the rules concerning the basic deductible are tightened. In 2018, the parameters were not adjusted according to the indexes but kept at the same level as in 2017. In 2019, only the maximum housing costs allowed under the general housing allowance scheme were be adjusted in line with the cost-of-living index.

From the beginning of the September 2015, part of the work income is privileged income (implemented in policy year 2016).

From August 2017, students who study in Finland and who live in a rented dwelling can apply for the general housing benefit.

In the beginning of 2020 and 2021, the maximum housing costs allowed under the general housing allowance scheme were adjusted in line with the cost-of-living index.

### *EUROMOD modelling*

Before 2015, the policy rules were more complicated and thus the general housing allowance was not simulated in the model. Policy rules for 2016–2022 are implemented in the model, but the simulation is switched OFF in the baseline in order to be consistent with the previous years when the benefit was not simulated (i.e. it was taken from the input data). The simulation of general housing allowance for 2016–2022 can be activated using EPS (extended policy simulation) switch.

Incomes not taken in to account in housing allowance are the following: child benefit (*bch00\_s*), child increase for pensions (can't be identified in the data), disability allowance for persons aged 16 or older (*pdida*), care allowance for pensioners (*pdica and poaca*), home care allowance (can't be identified in the data), front-veteran's supplements (can't be identified in the data), study grant (*bed00\_s*) and income support (*bsa00\_s*).

### **2.5.14 Local authority income support / social assistance (*bsa00\_s*)**

#### *Brief description*

Local authority income support / social assistance is the last resort safety net for all persons and families whose net-of-tax income is less than a certain minimum level. This minimum income level consists of *basic amount* and *additional expenditures*. The basic amount is designed to cover the costs of e.g. food, cloths, transport and minor health care costs. Additional expenditures may consist of reasonable housing costs, child day care fee etc. For income support a separate judgement on the claimant's whole economic situation is always done. Until 2016, social assistance was administered and paid by the local authorities (local authority income support). Since 2017, the basic amount is paid by the Finnish Social Insurance Institution.

#### *Eligibility conditions*

The units of entitlement and income assessment are single persons and families. The right to claim the benefit does not depend on the marital or socioeconomic status with the exception of students. Students are in principal entitled to the benefit only if their income is low enough when also the student loan – realized or not – is taken into account. During the period when they are not studying, they are entitled to the benefit like all other people.

The need for income support is determined as expenditures minus net income and wealth. Expenditures consist of basic amount and additional (accepted) expenditures. The net income consists of earned and capital income after taxes, contributions and costs due to working (e.g. commute costs) as well as non-taxable income, including also housing benefits and child benefit. There are only few exceptions when income is not taken into account when the eligibility for income support is reviewed. Disability allowance (both for persons under 16 and for persons aged 16 or older), care allowance for pensioners and supplementary allowances of unemployment benefits (can't be identified in the data) are not taken into account. The incomes of the persons under 18 years old are not taken into account to the extent that the incomes exceed the expenditures (basic amount and additional expenditures) of this person. Only the part of the income that is below the basic amount (plus additional expenditure) is included in the means-test. In addition, at least 20% but max. 150 euro per month of income from work after taxes and

contributions is not taken into account (advantaged work income). The limit (20% / 150 euro) is applied to the work income of every family member separately. The wealth of the family is taken into account except for permanent residence, household goods and goods used at work or in study.

According to the law every family unit within a household can apply to income support separately (e.g. adult children can apply to income support separately from their parents). In practice, however, this is rarely realized.

The income support is calculated on monthly basis.

### ***Benefit amount***

The full basic amount of income support is 502.21 euro/month in 2020. The full basic amount is paid to single persons and the basic amount for single parents is increased by 14%. For other persons the basic amount is defined as a share of the full amount. If there is more than one child under 18 years old in the family, the basic amount for the second child is 5 percentage points less and for the third child or more 10 percentage points less than for the first child.

*Example (2018):* 2 parents, 3 children (3, 16 and 18 years). Euro/month.

Parents (2 x 0.85 x 491.21)	835.06
1st child (18 years) (0.73 x 491.21)	358.58
2nd child (16 years) (0.70 x 491.21)	343.85
3rd child (3 years) ((0.63 – 0.05) x 491.21)	284.90
Basic amount	1822.39

**Table 27. Income support parameters 2019–2022.**

	2019	2020	2021	2022
Full basic amount (singles), euro/month	497.29	502.21	504.06	514.82 (532.97 since Aug 2022)
Share of single parents, %	110	114	114	114
Share of other person 18 years or older (e.g. spouses), %	85	85	85	85
Share of child 18 years or older, %	73	73	73	73
Share of child 10–17 years, first child, %	70	70	70	70
Share of child under 10, first child, %	63	63	63	63
Deduction for second child under 18 years, %-points	5	5	5	5
Deduction for third and subsequent child under 18 years, %-points	10	10	10	10

***Means-testing and taxation***

While the income support is basic amount plus accepted additional expenditures minus net income and wealth, increase in net income decreases the benefit by the same amount (except for the types of income mentioned earlier).

*Example (2018):* 2 parents, 2 children (14 and 8 years), rent 500 euro/month, net unemployment benefit 800 euro/month, general housing allowance 300 euro/month, child benefit 199.72 euro/month. Euro/month.

<u>Expenditures:</u>	
a) Basic amount	
Parents (2 x 0.85 x 491.21)	835.06
1st child (14 years) (0.7 x 491.21)	343.85
2nd child (8 years) ((0.63 – 0.05) x 491.21)	284.90
Total basic amount	1,463.81
b) Additional expenditures	
Housing costs	500.00
Accepted expenditures	1,963.81
<u>Incomes:</u>	
Net benefit income	800.00
General housing allowance	300.00
Child benefit	199.72
Income	1,299.72
Income support (1,963.81 – 1,299.72)	664.09

The income support is not taxable.

***Changes in benefit rules 2019–2022***

The full basic amount is indexed every year according to the national pension index, but the index was negative in 2016 and the law was changed so that the amount of 2016 is the same as in the year 2015. In 2017–2019 the national pension index was freezed but the basic amount of social assistance was still adjusted as if the index would have been calculated normally.

Since Jan 2013, the supplementary allowance of unemployment benefit has not been taken into account when the eligibility for income support is reviewed.

The work income limit (20% / 150 euro) was applied at family level before 2015 and since Jan 2015 the limit has been applied at personal level.

In 2020, the basic amount of the single-parent supplement was increased as a separate measure. In 2019, it was 547.02 euro per month (basic amount for persons living alone + 10%), and in 2020, it went up to 572.52 euro per month (basic amount for persons living alone + 14%).

In August 2022, an additional increase was made to the guarantee pension scheme.

### *EUROMOD modelling*

The wealth test can't be simulated.

In the baseline the eligibility is modelled at the household level. Moreover, the households where the head of the household is self-employed are excluded from eligibility. Both adjustments are done in order to avoid over-simulation (that probably stems from imprecision of the input data and non-take-up). Full simulation of income support can be switched on if needed. Switching between take-up adjustment and full simulation is done via switchable policy BTA\_fi.

In the model, the simulations are done based on the annual income, because monthly incomes are not available.

## **2.6 Social insurance contributions**

### **2.6.1 Employee social contributions (tscee\_s and thl\_s)**

#### *Brief description*

There are four social contributions for employees:

- Earnings-related pension contribution (17–67 years old);
- Unemployment insurance contribution (17–64 years old);
- Daily allowance contribution (16–67 years old);
- Medical care contribution.

All the contributions are statutory. The first three contributions are fully deductible in personal taxation while the medical care contribution is “a tax-like payment” itself and is not deductible. The medical care contribution is paid on all earned income, e.g. on wage, pension and other benefit income. The medical care contribution and the daily allowance contribution are both health insurance contributions.

The earnings-related pension contribution must be paid if an employee is 17–67 years old. The monthly wage must be above the threshold: 60.57 euro/month in 2020. Responsible to pay the unemployment insurance contribution is an employee at the age of 17–64 years. For the daily allowance contribution the age limit is 16–67. The medical care contribution must always be paid regardless of the age.

The same income and age limits are applied to respective employer contributions.

#### *Rates and amounts*

The earnings-related pension contribution, unemployment insurance contribution and daily allowance contribution are calculated as a percentage share of the gross taxable wage (incl. taxable benefits-in-kind) and the medical care contribution is calculated as a percentage share of the local tax base.

In principal the same percentages are applied to all individuals and they are not dependent on e.g. employee's pension insurance regimes. But there are two exceptions: 1) the pension contribution is higher for employees who are 53–62 years old (during 2017–2025) and 2) the medical care contribution is higher for benefit income (incl. pensions) than for work income. The work income includes wage and earned income from self-employment.

The principle behind the higher (increased) medical care contribution is that it is paid only on income from which the daily allowance contribution is not paid. This means that it is paid from



the difference of the local tax base and the work income, if positive. The percentage of the increased contribution is the difference of percentages which are applied to benefit income and work income: 0.97% in 2020 (1.65%–0.68%). In 2020, if person's work income is less than 14,574 euro/year, the percentage for daily allowance contribution is 0.00% (see the following example).

*Example (2020):* The pension income is 21,000 euro/year, the wage 5,000 euro/year and the local tax base 24,000 euro/year. Euro/year.

Daily allowance contribution (5,000 x 0.00%)	0.00
“Standard” medical care contribution (24,000 x 0.68%)	163.20
Increased medical care contribution from pension income ((24,000–5,000) x 0.97%)	184.30
Total health insurance contribution	347.50

**Table 28. Social contribution rates of employees in 2019–2022.**

	2019	2020	2021	2022
Wage threshold for earnings-related pension contribution, euro/month	59.36	60.57	61.37	62.88
<i>Contributions based on gross wage</i>				
Earnings-related pension contribution:				
employee less than 53 years (since 2017, also more than 62 years), %	6.75	7.15	7.15	7.15
employee at least 53 years (since 2017, 53–62 years), %	8.25	8.65	8.65	8.65
Unemployment insurance contribution, %	1.50	1.25	1.40	1.50
Daily allowance contribution, %	1.54	1.18	1.36	1.18
Income limit for daily allowance contribution, euro/month	14,282	14,574	14,766	15,128
<i>Contribution based on local tax base</i>				
Medical care contribution:				
employment income, %	0.00	0.68	0.68	0.53
pension and benefit income, %	1.61	1.65	1.65	1.50

### ***Changes in employee social contribution rules in 2019–2022***

No main policy changes. In 2017–2019, the medical care contribution for employment income is 0.00%. Moreover, if person's work income is less than 14,282 euro/year (in 2019), the percentage for daily allowance contribution is 0.00%. This income limit is indexed. In 2018 it was 14,020 euro/year and in 2017 14,000 euro/year.

## 2.6.2 Employer social contributions (tscer\_s)

### *Brief description*

There are six statutory employer contributions:

- Earnings-related pension contribution (17–67 years old);
- Unemployment insurance contribution (17–64 years old);
- Health insurance contribution (16–67 years old);
- Accident insurance contribution;
- Group life insurance contribution (0–68 years old, excluding old-age pensioners).

The contribution to group life insurance is not statutory but based on trade union agreements. However, most employers are obligated to pay it.

The same age and income limits are applied to employer contributions as to employee contributions (see chapter Employee social contributions). There are no age or income limits to accident insurance contribution. The contribution to group life insurance must be paid for all employees under 68 years of age, but old-age pensioners are excluded.

### *Rates and amounts*

The base for all employer contributions is the gross wage paid to employees, including taxable benefits-in-kind.

The earnings-related pension contribution rates of employers differ depending on e.g. the wage sum paid by employer and employer responsibilities to pay disability pensions. The rates also differ in private, state and municipal sectors.

The unemployment insurance contribution rate depends on the wage sum paid by employer. Also the accident insurance contribution and the group life insurance contribution differ across employers. Only health insurance contribution rate is the same for all employers.

Table 29. Employer social contribution rates in 2019–2022.

	2019	2020	2021	2022
<i>Earnings-related pension contribution</i>				
Private sector, average, %	17.35	16.95	16.95	17.40
State, %	17.10	16.69	16.69	17.13
Municipalities, %	21.17	20.77	20.73	20.33
<i>Unemployment insurance contribution</i>				
Wage sum threshold, euro/year	2,086.5	2,125.5	2,169.0	2,197.5
Contribution under the wage sum limit, %	0.50	0.45	0.50	0.50
Contribution over the wage sum limit, %	2.05	1.70	1.90	2.05
Contribution, average, % <sup>[1]</sup>	1.50	1.26	1.42	1.51
Health insurance contribution	0.77	1.34	1.53	1.34
Accident insurance contribution, average, % <sup>[2]</sup>	0.75	0.70	0.70	0.70
Group life insurance contribution, average, % <sup>[2]</sup>	0.062	0.065	0.059	0.062

Sources: Confederation of Finnish Industries, Finnish Centre for Pensions, Social Insurance Institution of Finland, the Unemployment Insurance Fund.

Notes:

<sup>[1]</sup> Average in all sectors. The state employer is not obligated to pay the unemployment contribution.

<sup>[2]</sup> Average rate in private sector.

Table 30. Number of employees by sectors (thousands of persons) and as share of all employees in 2017-2020.

	2017	2018	2019	2020 <sup>[1]</sup>
<i>Employees (thousands of persons)</i>				
Private sector	1,652	1,696	1,720	1,671
State	132	135	138	143
Municipalities	476	486	502	505
Total	2,260	2,317	2,360	2,319
<i>Share of all employees, %</i>				
Private sector	73.1	73.2	72.9	72.1
State	5.8	5.8	5.8	6.2
Municipalities	21.1	21.0	21.3	21.8
Total	100.0	100.0	100.0	100.0

Source: Statistics Finland: Annual national accounts.

Note:

<sup>[1]</sup> Statistics for the year 2020 (preliminary figures on 9/5/2022) are the latest available, and thus the numbers are also used for the following years.

Table 31. Average estimated employer social contribution rates in 2019–2022, %.

	2019	2020	2021	2022
Earnings-related pension contribution	18.15	17.77	17.76	18.02
Unemployment insurance contribution	1.50	1.26	1.42	1.51
Health insurance contribution	0.77	1.34	1.53	1.34
Accident insurance contribution	0.75	0.70	0.70	0.70
Group life insurance contribution	0.062	0.065	0.059	0.062
Contribution, total	21.58	21.51	21.49	21.49

### *Changes in employer social contribution rules in 2019–2022*

No main policy changes.

### *EUROMOD modelling*

In EUROMOD database there is no information on employer contribution rates, which would be necessary to model the contributions accurately. There is no information on whether the employer is in private, state or municipal sector. To model the employer earnings related pension contribution average weighted contribution rate is used. This is calculated in three steps. Firstly,

there are average earnings related pension contribution rates for employers in different sectors. They are usually calculated by insurance corporations (see Table 29). Secondly, the relative size of private, state and municipal sectors based on the number of employees in each sector are taken into account (see Table 30). Finally, based on these, the weighted average earnings-related pension contribution rate across sectors is estimated (see Table 31).

### **2.6.3 Self-employed social contributions (tscse\_s and tscfr\_s)**

#### ***Brief description***

There are three statutory contributions which all self-employed have to pay:

- Earnings-related pension contribution (17–67 years old);
- Daily allowance contribution (16–67 years);
- Medical care contribution.

For farmers the *accident insurance contribution* and *group life insurance contribution* are also statutory. The group life insurance contribution is a very small fixed amount (15 euro/year in 2020), and other insurance schemes, like unemployment insurance contribution, are voluntary for self-employed.

The earnings-related pension contribution is possible to pay and deduct either personally or alternatively in business or farming. If paid in business or farming, the contribution is not anymore deductible in personal taxation.

To be obligated to pay the earnings-related pension contribution a self-employed must be 18–67 years old. The annual income must exceed a limit. The limit is lower for farmers than for other self-employed persons (entrepreneurs).

**Table 32. Income limits for pension contributions of the self-employed, 2019–2022, euro/year.**

	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Farmers	3,900	3,980	4,032	4,131
Entrepreneurs	7,799.37	7,958.99	8,063.57	8,261.71

For daily allowance contribution and medical care contribution of self-employed the same age limits are applied as for employees (see chapter Employee social contributions).

#### ***Rates and amounts***

The base for all social insurance contributions of self-employed persons are the so called YEL-income (entrepreneurs) and the MYEL-income (farmers). These are not real incomes but hypothetical corresponding the work income of self-employed. The size of this income is an estimation of what should be paid to an employee who would do the same work as the self-employed.

If an entrepreneur is less than 53 or more than 62 years old, the earnings-related pension contribution rate is 24.10 per cent in 2020. For entrepreneur at least 53 but at most 62 years old the rate is 25.60 per cent in 2020. For the first four years as an entrepreneur the earnings-related pension contribution rate is decreased by 22 percent.

In 2020, for farmers both of these contribution rates are the same but are used only if the annual income exceeds 43,814 euro. If income is less than 27,882 euro, the contribution rates are 13.014

and 13.824 per cent. Between 27,882 euro and 43,814 euro the farmer's contribution rate is increased linearly from 13.014 to 24.10 percent.

The base for daily allowance contribution is also the YEL- and MYEL-income. In case a self-employed person has wage income from other sources (than self-employment) the daily allowance contribution must also be paid from this income. The contribution rate from MYEL-income and the wage income is the same as employee's rate. To the YEL-income an increased daily allowance rate is applied: e.g. 1.33% instead of 1.18% in 2020.

The base for the medical care contribution is a hypothetical local tax base. To calculate this tax base the taxable earned work income is replaced by YEL- or MYEL-income and then tax deductions – except the pension contribution deduction – are subtracted from this income.

The accident insurance contribution is statutory for farmers. It consists of two components: a fixed amount (18.00 euro/year in 2020) and a MYEL-income related part (0.85% of the MYEL-income in 2020).

*Example (2019):* Earned income from self-employment is 22,000 euro/year, the wage from other activity 5,000 euro/year and the YEL-income 20,000 euro/year. Euro/year.

The “standard” daily allowance contribution (1.54% x (20,000+5,000))	385.00
The increased contribution from YEL-income ((1.77%–1.54%) x 20,000)	46.00
Total daily allowance contribution	431.00
If the local tax base is 21,000 euro, the medical care contribution is (0.00% x 21,000)	0.00

**Table 33. Social contribution rates and income limits of self-employed in 2019–2022.**

	2019	2020	2021	2022
<i>Earnings-related pension contribution</i>				
<i>Entrepreneurs:</i>				
less than 53 years or more than 62 years, %	24.10	24.10	24.10	24.10
at least 53 years and up to 62 years, %	25.60	25.60	25.60	25.60
<i>Farmers:</i>				
less than 53 years or more than 62 years, until 1st limit, %	13.014	13.014	13.014	13.014
less than 53 years or more than 62 years, after 2nd limit, %	24.10	24.10	24.10	24.10
at least 53 years and up to 62 years, until 1st limit, %	13.824	13.824	13.824	13.824
at least 53 years and up to 62 years, after 2nd limit, %	25.60	25.60	25.60	25.60
1st income limit, euro/year	27,322.93	27,882	28,248	28,942
2nd income limit, euro/year	42,936.11	43,814	44,390	45,481

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*Sickness insurance contribution*

## Daily allowance contribution

entrepreneurs, %	1.77	1.33	1.55	1.32
farmers, %	1.54	1.18	1.36	1.18
Medical care contribution, %	0.00	0.68	0.68	0.53
Accident insurance contribution for farmers				
Fixed amount, euro/year	16.00	18.00	18.00	12.00
Rate for MYEL-income, %	0.75	0.85	0.85	0.85

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***Changes in self-employed social contribution rules in 2019–2022***

No main policy changes.

***EUROMOD modelling***

For farmers, the group life insurance contribution, and other insurance schemes like unemployment insurance contribution, are not simulated in EUROMOD.

The earnings-related pension contribution is possible to pay and deduct either personally or alternatively in business or farming. If paid in business or farming, the contribution is not anymore deductible in personal taxation. Even if this is the usual case, it is assumed in EUROMOD that self-employed pay their earnings-related pension contribution personally and are entitled to deduct them in their personal taxation. The reason for these assumptions is the lack of information in the data about the treatment of the earnings-related pension contribution. Same assumptions are applied to all contributions of self-employed.

In simulations YEL- and MYEL-incomes are assumed to be the same as the actual earned income received from self-employment.

For the first four years as an entrepreneur the earnings-related pension contribution rate is decreased by 22 percent. This is not possible to simulate in the model.

**2.7 Direct taxes on earned income (tinna\_s, tinmu\_s and tincr\_s)****2.7.1 Tax unit**

In income taxation the tax unit is individual, with some exceptions.

**2.7.2 Tax allowances**

Personal taxation is based on net income. This means that all expenses related to each income source, so called natural allowances, are deductible from gross income. This “pure income” is the base for other tax allowances. In other words all tax allowances are deducted from this pure income. Tax allowances are deducted either a) in state and local taxation, b) only in state taxation or c) only in local taxation.

### *Tax allowance for entrepreneurial income*

In tax laws of 2017 a new allowance is stipulated for the income of self-employed people, the so called entrepreneurial allowance (*yrittäjävähennys*). It is a 5 % allowance for all entrepreneurial income of self-employed people. The allowance applies for total entrepreneurial income before it is split into labour income (earned income) and capital income and before other allowances are calculated. It is valid for all private small entrepreneurs (who do not make business in the form of a joint stock company), farmers and also for income from timber.

### *Allowances in state and local taxation*

**Standard allowance for wage expenses** is 100% of the wage income up to 750 euro/year in 2020, but not more than the gross wage. The allowance is deducted as a natural allowance from wage income. Other natural allowances are travel expenses to work, trade union dues, fee of unemployment fund and other natural expenses. Other natural expenses are deductible only on that part which exceeds the standard allowance.

**Pension contribution allowance** is based on employee and self-employed statutory pension contribution. Contributions are fully deductible. However, when calculating the medical care contribution of self-employed the contribution is not deducted.

**Unemployment contribution allowance** is based on employee statutory unemployment contributions. It is fully deductible. The contribution is voluntary for self-employed.

**Daily allowance contribution deduction** is based on an employee and self-employed statutory sickness daily allowance contribution. The contribution is fully deductible.

### *Allowances in state taxation*

**Pension income allowance** is at the maximum the full national pension multiplied by a coefficient of 3.726 (2020) minus the lowest income level in the state tax schedule (18,100 euro in 2020). The result is rounded up to the nearest 10 euro. The maximum allowance is thus 11,540 euro (in 2020). The deduction cannot be more than the amount of pension income. If pure earned income exceeds the maximum the allowance is decreased by 38% of the exceeding amount.

*Example (2019):* Full pension allowance in state taxation.

The full national pension/year $12 \times 628.85$	7,546.20
The full allowance $(3.867 \times 7,546.20) - 17,600$	11,590

### *Allowances in local taxation*

**Low earned income allowance** is 51% of gross work income which exceeds 2,500 euro up to limit of 7,230 euro. From income exceeding 7,230 euro the allowance is 28%. The maximum amount is 3,570 euro. The allowance starts to decrease by 4.5% when pure earned income exceeds 14,000 euro.

**Pension income allowance** is equal for single person and spouses. The maximum amount is the full national pension times 1.346 (in 2020) minus maximum amount of basic allowance. In 2010 the deduction linked to basic allowance was replaced with fixed deduction 1,480 euros. The

allowance cannot be more than pension income. If pure earned income exceeds the maximum allowance, the allowance is decreased by 51% of the exceeding income (in 2020).

**Student grant allowance** is at the maximum 2,600 euro (2020) but cannot be more than the amount of student grant. The allowance is reduced by 50% for every euro the pure earned income exceeds the full allowance.

**Basic allowance** equals earned income after all other local tax allowances if this income does not exceed 3,540 euro (2020). If the income after other tax allowances exceeds 3,540 euro the basic allowance is reduced by 18% of the exceeding income.

Changes of parameters of deductions in local taxation are shown in Table 34. Changes in pension income allowances are shown separately in Table 35. The income limit in state tax schedule can be picked up from Tables 36–41.

Table 34. Parameters of allowances in state and local taxation in 2019–2022.

	2019	2020	2021	2022
<b>Local and state taxation</b>				
Standard allowance for wage expenses	750	750	750	750
<b>Local taxation</b>				
Low earned income allowance, maximum, euro	3,570	3,570	3,570	3,570
Starting income limit, euro	2,500	2,500	2,500	2,500
Threshold 1, euro	7,230	7,230	7,230	7,230
Threshold 2, euro	14,000	14,000	14,000	14,000
Amount of allowance, before threshold 1, %	51	51	51	51
Amount of allowance, before threshold 2, %	28	28	28	28
Decrease of allowance, after threshold 2, %	4.5	4.5	4.5	4.5
Maximum of student grant allowance, euro	2,600	2,600	2,600	2,600
Decrease of student grant allowance, %	50	50	50	50
Maximum of basic allowance, euro	3,305	3,540	3,630	3,740
Decrease of basic allowance, %	18	18	18	18

Table 35. Parameters of pension income allowances in 2019–2022.

	2019	2020	2021	2022
Full national pension	7,546.20	7,954.32	7,983.48	8,154.00
Deduction in local taxation	1,480	1,480	1,480	1,480
Coefficient in state taxation	3.867	3.726	3.726	3.726
Decrease in state taxation, %	38	38	38	38
Coefficient in local taxation	1.395	1.346	1.346	1.346
Decrease in local taxation, %	51	51	51	51
Full amount in state taxation	11,590	11,540	11,150	11,190
Full amount in local taxation, singles	9,050	9,230	9,270	9,500



Full amount in local taxation, spouses	9,050	9,230	9,270	9,500
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### 2.7.3 Tax base

The earned income tax base is the sum of earned income subject to tax minus natural allowances and other tax allowances. The income subject to tax is the same in state and local taxation, but tax allowances usually differ and thus also the tax bases.

### 2.7.4 Tax schedule and local tax rates

In state taxation a progressive tax schedule is applied to earned income tax base. The limits and the rates of the income bands are shown in Tables 36–41. If the taxable income (after deductions) is exactly the same as the lowest income limit the state tax is 8 euro in all these years. If the taxable income is for example 26,000 the tax is  $8 + 0.0625 \times (25,300 - 16,900) + 0.175 \times (26,000 - 25,300) = 655.50$  euro (2017).

Table 36. The progressive state tax schedule on earned income in 2017.

Taxable income in state taxation, euro	Tax on lower limit, euro	Rate above the lower limit, %
16,900 – 25,300	8.00	6.25
25,300 – 41,200	533.00	17.50
41,200 – 73,100	3,315.50	21.50
73,100 –	10,174.00	31.50

Table 37. The progressive state tax schedule on earned income in 2018.

Taxable income in state taxation, euro	Tax on lower limit, euro	Rate above the lower limit, %
17,200 – 25,700	8.00	6.00
25,700 – 42,400	518.00	17.25
41,400 – 74,200	3,398.75	21.25
74,200 –	10,156.25	31.25

Table 38. The progressive state tax schedule on earned income in 2019.

Taxable income in state taxation, euro	Tax on lower limit, euro	Rate above the lower limit, %
17,600 – 26,400	8.00	6.00
26,400 – 43,500	536.00	17.25
43,500 – 76,100	3,485.75	21.25
76,100	10,413.25	31.25

Table 39. The progressive state tax schedule on earned income in 2020.

Taxable income in state taxation, euro	Tax on lower limit, euro	Rate above the lower limit, %
18,100 – 27,200	8.00	6.00
27,200 – 44,800	554.00	17.25
44,800 – 78,500	3,590.00	21.25
78 500 –	10,751.25	31.25

Table 40. The progressive state tax schedule on earned income in 2021.

Taxable income in state taxation, euro	Tax on lower limit, euro	Rate above the lower limit, %
18,600 – 27,900	8.00	6.00
27,900 – 45,900	566.00	17.25
45,900 – 80,500	3,671.00	21.25
80,500 –	11,023.50	31.25

Table 41. The progressive state tax schedule on earned income in 2022.

Taxable income in state taxation, euro	Tax on lower limit, euro	Rate above the lower limit, %
19,200 – 28,700	8.00	6.00
28,700 – 47,300	578.50	17.25
47,300 – 82,900	3,786.50	21.25
82,900 –	11,351.50	31.25

In local taxation municipal tax rates, church tax rates and medical care contribution percentages are applied to the tax base. Municipal tax rates and church tax rates are decided by municipalities and Churches and thus vary across municipals and Churches.

Table 42. Average municipal and church tax rates in 2019–2022.

	2019	2020	2021	2022
Average municipal tax rate, %	19.88	19.96	20.02	20.01
Average church tax rate, %	1.39	1.39	1.39	1.39

### 2.7.5 Special tax on pension income

Since 2013 a special tax on pension income shall be paid. It is part of the state income tax. In 2016, the tax was 6% on pension income exceeding the limit of 45,000 euro/year. Since 2017 the limit has been 47,000 euro/year and the tax rate 5.85 %.

### 2.7.6 Exemptions

Earned incomes are widely subject to tax. The most important exemptions are:

- Child benefit
- Housing allowances
- Livelihood support grant<sup>2</sup>
- Some stipends and scholarships
- 25% of dividends treated as earned income are non-taxable
- Local authority income support

### 2.7.7 Tax credits

**Low earned income tax credit** (*työtulovähennys*) in state taxation is 12.5% (in 2020) of the work income exceeding 2,500 euro. The maximum amount of credit is 1,770 euro. If pure income exceeds 33,000 euro the tax credit decreases by 1.84%. The tax credit is subtracted from the state tax, but if it cannot be subtracted or it can be subtracted only partly, the remaining amount is subtracted proportionally from local and church taxes and the sickness contribution. Work income is defined as wage, earned self-employment income and earned dividends. The low earned income tax credit is subtracted before any other tax credits.

Table 43. Low earned income tax credit in 2019–2022.

	2019	2020	2021	2022
Amount of credit from work income, %	12.2	12.5	12.7	13.0
Starting income limit, euro	2,500	2,500	2,500	2,500
Maximum amount, euro	1,630	1,770	1,840	1,930
Limit of pure income, euro	33,000	33,000	33,000	33,000
Decrease from pure income; %	1.72	1.84	1.89	1.96

**Deficit credit** (*alijäämähyvitys*) is a deviation from the principle that capital and earned incomes are taxed separately. If natural allowances and deductible interests exceed the gross capital income, the exceeding amount is denoted as “a deficit in the capital income type”. A person is entitled to subtract a share of this deficit (deficit credit) from earned income taxes (state tax, municipal tax, church tax and medical care contribution). The deficit credit is the deficit multiplied by capital income tax rate.

Deficit credit deviates also from the principle of individual taxation because there is an increase of deficit credit if there are children in the household. For spouses this increase is applied only to the spouse, whose state tax on earned income is larger. In addition the deficit credit, or a share of it, is possible to transfer to a spouse if it would be “unused” because of low taxes.

The maximum amount of deficit credit per person is 1,400 euro. This is increased by 400 euro if there is one child and by 800 euro if there are at least two children in the household. Thus, for a couple with two dependent children the maximum tax credit is 3,600 euro. That share of the deficit, which is based on interests of first owned dwelling, is multiplied by capital income tax rate plus 2 percentage points (32% instead of 30%). The same maximum limits are still applied.

<sup>2</sup> This is a child maintenance allowance paid in place of alimonies (in case a divorced parent can't pay the full amount).

Deficit credit is subtracted from earned income taxes in the following way. First 75% is subtracted from state tax on earned income. The rest of the credit (25%) is then subtracted from state tax (what is left), municipal tax, church tax and medical care contribution in the proportion of their respective shares. That share of the deficit credit, which is not deducted from earned income taxes, because no taxes are left, is converted into a loss. This loss is deductible from capital income over the next ten years.

For spouses with one child the calculation of the deficit credit is the following: if husband's state tax on earned income is bigger than wife's, his maximum tax credit is 1,800 euro (incl. child increase) and wife's 1,400 euro. If husband's earned income taxes are less than 1,800 euro, say 1,000 euro, the difference is transferable to the wife. This difference, 800 euro, is then subtracted from wife's taxes in the same way than from husband's taxes. In these parameters there have been no changes in the years 2007–2022.

The deficit credit is deducted after invalidity tax credit and maintenance tax credit.

**Special deficit credit** (*erityinen alijäämähyvitys*) is admitted on the base of voluntary pension insurance payments. Pension insurance payments are subtracted from capital income. If there is deficit in the capital income type, it is possible to subtract a share of voluntary pension insurance payment from earned income taxes. The special deficit credit is the insurance payment multiplied by capital income tax rate. The maximum deductible insurance payment is at most 5,000 euro and thus the maximum tax credit is 1,500 euro. There is no child increase in special deficit credit.

The subtraction of special deficit credit from earned income taxes differs slightly from deficit credit. At first 100% of the special deficit credit is subtracted from state tax. If the state tax is smaller than the deficit credit, the rest of it is subtracted from municipal tax, medical care contribution and church tax in the proportion of their respective shares. The special deficit credit, or a share of it, is possible to transfer to a spouse if credit would be “unused” because of low taxes.

That share of the deficit in capital income type, which is not possible to deduct from earned income tax is converted into a loss. The loss is deductible from capital income over the next ten years.

The special deficit credit is deducted after the deficit credit.

**Child credit** was a temporary tax credit for fiscal years 2015–2017. The credit was 50 euros per year for each child and it is granted for maximum four children (below 17 years old). Both parents could get the credit. For single parents the credit was doubled. If the combined personal pure earned and capital income (i.e. earned and capital income after natural allowances) exceeded 36 000 euros per year, the credit was diminished by 1 % of the difference between the income and the limit of 36 000 euros. The credit was subtracted from the state tax, but if the state tax was smaller than the credit, the rest was subtracted from municipal tax, medical care contribution and church tax in the proportion of their respective shares. The child credit was applied after the low earned income tax credit.

In addition there are three tax credits in the Finnish tax system: tax credit based on invalidity, on payments for maintenance of child and on domestic and reconstruction services. All the tax credits are non-refundable.

### *Changes in earned income tax rules in 2008–2022*

In 2007–2008 the low earned income tax credit was subtracted only from state tax. So if the state tax was smaller than the credit, the rest of the credit was lost. From 2009 onwards the rest of the

credit is subtracted from municipal tax, medical care contribution and church tax in the proportion of their respective shares.

In 2015 child credit was introduced. It was temporary and applied only in 2015–2017.

### *EUROMOD modelling*

Standard allowance is the only natural deduction simulated in the model. Other, not simulated, natural allowances are travel expenses to work, trade union dues, fee of unemployment fund and other natural expenses.

When calculating the medical care contribution of self-employed the pension contribution is not deducted. This exception is not taken into account in the model. It is assumed in simulations that entrepreneurs and farmers pay personally this contribution, and thus are entitled to deduction in personal taxation.

There is no information in the EUROMOD data about municipal tax rates and Church tax rates and thus weighted average tax rates are used in simulations. These rates for relevant policy years are shown in Table 42.

There are three tax credits in the Finnish tax system, which are not included in the model: tax credit based on invalidity, on payments for maintenance of child and on domestic and reconstruction services.

The increase in the maximum amount of deficit credit is not possible to simulate in EUROMOD.

## **2.8 Direct taxes on capital income tax (tiny\_s)**

### **2.8.1 Tax unit**

The tax unit is individual in capital taxation. Capital incomes are taxed only in state taxation.

### **2.8.2 Exemptions**

Capital incomes are widely subject to tax. The most important exemptions are:

- Dividends received from non-listed companies and treated as capital income, used to be non-taxable up to 90,000 euro if the net wealth of a company was large. In 2012 this limit was reduced to 60,000 euro. Since 2014, 25% of these dividends are taxable under the limit of 150 000 euros.
- 30% of dividends received from listed or non-listed companies (treated as capital income) used to be non-taxable. Since 2015 this non-taxable share is 15 %.
- Imputed rent of owned-occupied dwelling.

### **2.8.3 Tax allowances**

Some interests are subtracted from capital income as natural deductions. Most important natural allowances are interest expenses on mortgage, study and investment loans.

**Interest on mortgage loan** is subtracted from capital income. There is no limit for the amount of the deduction, but since 2012 only part of the interest can be deducted. In 2012 85%, in 2013

80%, in 2014 75%, in 2015 65%, in 2016 55%, in 2017 45%, in 2018 35%, in 2019 25%, in 2020 15%, in 2021 10%, and in 2022 5% can be deducted.

**Voluntary pension insurance payment allowance** is deducted from capital income with a limit of 5,000 euro.

#### **2.8.4 Tax base**

The capital income tax base is the sum of capital incomes subject to tax minus natural allowances, deductible interests and losses.

Only part of dividend income is taxable. In income taxation the dividends are divided into three parts: a tax-free part, taxable capital income and taxable earned income. There are different rules for dividends from companies whose shares are publicly traded (exchange-listed companies) and for other dividends.

#### **2.8.5 Tax rate**

Capital income was taxed with a flat tax rate in policy years 2007–2011. From 2012, a higher rate for capital incomes exceeding an annual income limit was introduced.

Table 44. Tax rates in capital income taxation 2019–2022.

	2019	2020	2021	2022
General tax rate, %	30	30	30	30
Limit for higher tax rate, euros/year	30,000	30,000	30,000	30,000
Higher tax rate, %	34	34	34	34

#### **2.8.6 Tax credits**

The tax credit for domestic and reconstruction services is the only tax credit which is subtracted (partly) from capital income tax. Firstly, it is subtracted from capital and earned state taxes in relation to their amounts. Secondly, if there is tax credit left, it is subtracted from other earned income taxes in the proportion of their respective shares.

#### ***Changes in capital income tax rules in 2008–2022***

There have been no main policy changes in capital income taxation in 2008–2011. In 2012 a tax scale with two different tax rates was introduced. The deductibility of mortgage interests has been reduced since 2012. In 2014 the rules for dividend incomes were reformed.

#### ***EUROMOD modelling***

In the EUROMOD the tax allowances for interest expenses on study and investment loans are not subtracted from capital income.

The losses are not included in simulations.

The tax credit for domestic and reconstruction services is not simulated in the model.

## **2.9 Broadcasting tax**

In 2013, a new tax was introduced: the so called broadcasting tax (*yleisradiovero*). It is designed to finance Finland's national public service broadcasting company Oy Yleisradio Ab operating several television and radio channels. The tax replaces TV licenses, which until 2012 were obligatory for all households owning a TV receiver.

The new tax is individual. Children under 18 years do not pay the tax. The tax base is pure taxable earned and capital income, i.e. taxable income, from which the so called natural deductions, for example, work expenses, have been made. Originally the tax was 0.68 per cent of the income, but not higher than 140 euro per year. If the calculated tax was less than 50 euro, it was not collected. So people with very low income were exempted from the tax. In 2014 these limits were raised to 143 and 51 euro respectively. In 2016 the second limit was raised to 70 euro.

Since 2018 the parameters of broadcasting tax are different. There is a minimum limit of 14,000 euro for the taxable income, and the tax is 2.5 per cent of the income exceeding this limit. The maximum amount of the tax is 163 euro.

## ***EUROMOD modelling***

### **2.10 Covid19 policies**

Finnish government implemented new and reformed existing benefits in response to the COVID outbreak in spring 2020. The following section documents the benefits for employees, unemployed and self-employed as well as eligibility criteria for the benefits.

Most of the implemented benefits in the next section follow existing benefit rules. Replacement rate, minimum and maximum follow the original benefit rules if not stated otherwise. Share paid by the state (or municipality or insurance or equivalent) is always 100%.

#### **2.10.1 Reformed unemployment benefits**

Unemployment benefits were reformed between from 16 March 2020 with minor changes to waiting period, maximum unemployment duration, and work requirement for earnings related unemployment benefit. Additionally, amount of exempt earnings was increased from 300 euro per month to 465 or 500 euro per month from 1 June 2020.

Table 45 shows the relevant change and comparison to original unemployment benefit schemes when possible. Replacement rate and other parameter values follow the original legislation. The five-day waiting period was abolished for temporarily laid off and newly unemployed. The work requirement for qualifying for earnings related unemployment benefit was reduced from 26 weeks to 13. Additionally, maximum unemployment benefit duration is unaffected if the person is laid off temporarily: unemployment days while temporarily laid off do not count towards maximum eligibility for earnings related unemployment allowance.

**Table 45. Temporary reforms to unemployment benefits in response to the COVID outbreak.**

<b>Policy</b>	<b>Duration</b>	<b>Original, 2020</b>	<b>Reformed, 2020</b>	<b>Reformed Policies</b>

The five-day waiting period <sup>[1]</sup>	16/3/2020– 31/12/2020, 1/1/2022– 28/2/2022			Earnings related unemployment benefit, Labour market subsidy, Basic unemployment benefit
The work requirement for qualifying for unemployment allowance	16/3/2020– 31/12/2020	Contribution period: At least 6 months in the last 28 months	At least 3 months in the last 28 months	Earnings related unemployment benefit (and Basic unemployment benefit after 1/7/2020)
Maximum unemployment benefit duration unaffected (unemployed full-time or part-time)	1/7/2020– 31/12/2020	Duration: 18.60 (400 days) 23.26 (500 days) 13.95 (300 days)		Earnings related unemployment benefit
Maximum unemployment benefit duration unaffected if laid off temporarily	16/3/2020– 31/12/2020	Duration: 18.60 (400 days) 23.26 (500 days) 13.95 (300 days)		Earnings related unemployment benefit

<sup>[1]</sup> Also applies to Temporary unemployment benefits for self-employed persons.

All unemployment benefits have exempt earnings of 300 euros per month. After the exempt threshold the unemployed benefit is cut by 0.5 euro for each earned euro earned from, for example, part-time work. Temporary raise to the exempt amount applicable to unemployment benefits was introduced from 1 June 2020 to 31 October 2020 and later continued until 30 November 2021. Unemployed can earn up to 465 euros, if the benefit is paid every four weeks, or up to 500 euros, if the benefit is paid on a monthly basis.

### ***EUROMOD modelling***

Given lack of data, the temporary reforms cannot be simulated in EUROMOD.

#### **2.10.2 Temporary unemployment benefits for self-employed persons**

##### **Brief description**

Since 16 March 2020, self-employed were able to apply for newly implemented benefit, *Temporary unemployment benefits for self-employed persons*. The benefit was continued until 30 November 2021 and again applied from 1 January 2022 to 28 February 2022.

The benefit follows labour market subsidy scheme, but only the basic amount of the benefit is paid. Neither child supplement nor supplementary allowance are paid for self-employed. Furthermore, the benefit is exempt from means-testing, but *conciliated adjustable unemployment benefit calculation* rules still apply and include earnings and net entrepreneurial income.

##### ***Eligibility conditions***

Self-employed are able to apply and receive for labour market subsidy if they are register as an unemployed jobseeker with the TE Services. Additionally, either their full-time employment in their business has ended, or if their income from self-employment, because of the epidemic, is less than 1,089.67 euro per month in 2020 and 2021, and 1,103.92 euro per month in 2022 (source: Kela.fi).



### ***Benefit amount***

Similarly to the labour market subsidy, *Temporary unemployment benefits for self-employed persons* equals the basic unemployment allowance. The basic amount is 33.66 euro per day in 2020, 33.78 euro per day in 2021, and 34.50 euro per day in 2022, similarly to labour market subsidy without child supplements.

Changes to *conciliated adjustable unemployment benefit* calculation introduced in previous section also applies to *Temporary unemployment benefits for self-employed persons* with benefit adjustment periods beginning between 1 June 2020 and 30 November 2021. Before 1 June 2020, the threshold amount was 300 euro per. After 1 June 2020, the threshold was 465 euros if the benefit was paid every four weeks, or up to 500 euros if the benefit was paid on a monthly basis. The income affecting the benefit adjustment include net entrepreneurial income after expenses, such as fixed-costs. If the self-employed receives income from paid work then adjustment includes earnings from work.

### ***Means testing***

Temporary unemployment benefits for self-employed persons benefit recipients are exempt from means-testing other than *Conciliated adjustable unemployment benefit calculation* present in Labour market subsidy scheme.

### ***EUROMOD modelling***

This policy can only produce results if the model is run in combination with the LMA add-on. The individuals that are selected to undergo transitions to monetary compensation schemes are defined in the TransLMA\_xx policy, which is switched on automatically by the add-on. For more information about the modelling of labour market transitions please consult the ‘Simulating labour market transitions in EUROMOD’ document.

Labour transition model based data are produced by Eurostat, using detailed distributional information on the loss of jobs and short-term work schemes from the Labour Force Survey and administrative data.

The impact across different categories of individuals, the duration of unemployment/absence and percentage of hours worked are modelled using the EU-LFS longitudinal and quarterly transitions as target.

For more information please consult the methodological note available at [9a70fb55-ceb7-d25a-1b31-ab0c030095d2 \(europa.eu\)](https://ec.europa.eu/eurostat/tgm/table.do?tab=table&init=1&language=en&plugin=1&code=9a70fb55-ceb7-d25a-1b31-ab0c030095d2).

### **2.10.3 Temporary financial assistance due to an epidemic outbreak**

Finnish government implemented new benefit for parents who were forced to take unpaid leave because of childcare responsibilities or who returned from abroad to Finland and were forced to take unpaid leave between 16 March 2020 and 13 May 2020. The benefit, *Temporary financial assistance due to an epidemic outbreak* follow the *minimum sickness allowance* scheme.

Around 1900 persons received the benefit in May 2020. Note that sick or quarantined persons are eligible for either *sickness allowance* or *sickness allowance on account of an infectious disease* (*Tartuntatautipäiväraha*).

### *Eligibility conditions*

Persons that are registered as an unemployed jobseeker or have been laid off temporarily are not eligible. Employed persons were eligible for the benefit in two cases:

First, if parent is at home on unpaid leave taking care of child(ren) and the childcare need is caused by COVID crisis then parent is eligible for the benefit. The child must be either in early education and care (under 7 years old) or in education (classes 1-3, around 7-9 years old). This option was available from 16 March 2020 to 13 May 2020.

Second, the persons who have returned to Finland from abroad and were forced to be placed in conditions equivalent to quarantine may be eligible for the benefit and the benefit duration is usually 2 weeks. This option was available if the person arrived in Finland from abroad before 14 May 2020, but after 14 May 2020 the benefit is usually unavailable.

### *Benefit amount*

The benefit amount follows the minimum sickness allowance or minimum parental leave benefit. The benefit amount is 28.94 euro per work day that corresponds 723.50 euro per month in 2020 and 29.05 euro per work day that corresponds 726.25 euro per month in 2021.

### *EUROMOD modelling*

Given lack of data and the low number of recipients, the temporary financial assistance due to an epidemic outbreak cannot be simulated in EUROMOD.

#### **2.10.4 Temporary compensation due to an epidemic outbreak for basic social assistance**

*Temporary compensation due to an epidemic outbreak for basic social assistance* grants persons receiving basic social assistance an additional 75.00 euro per month. The compensation is available from September 2020 to December 2020.

### *Eligibility conditions*

Two eligibility criteria state that: First, eligible person must have received basic social assistance between 1 March 2020 and 31 July 2020 and, second, person must have received basic social assistance in the previous month. The compensation does not require additional application and is paid automatically through Kela if the eligibility criteria are met. In summary, persons that received basic social assistance between 1 March 2020 and 31 July 2020, and between August and November 2020 are eligible for the compensation.

### *Benefit amount*

The benefit amount is 75.00 euro per person and the benefit is not subject to tax, does not affect means-testing of social assistance or any other benefit.

### *EUROMOD modelling*

This reform to the basic social assistance can only produce results if the model is run in combination with the full year adjustment extension.

### **2.10.5 Direct grants to self-employed**

In addition to state-guaranteed loans to businesses of different sizes the government implemented direct grants to self-employed. The grants were paid as a lump-sum benefit for the self-employed with fixed costs, such as rents or salaries, and reduction in income caused by the covid19 pandemic.

#### ***Benefit amount***

Benefit is a 2000 euro lump-sum grant that is administered by municipalities. Around 250 million euro was reserved to the *direct grants to self-employed* and distributed to the municipalities. The distributed amount was defined by number/ratio of self-employed residing in the municipality. Municipalities granted the direct grants and returned the left over grants to Ministry of Economic Affairs and Employment in fall 2020. 155 million euro was left over – the unused budget might be available during 2021. Based on the left over amount, approximately 47 500 self-employed use the grant in 2020.

#### ***EUROMOD modelling***

This policy can only produce results if the model is run in combination with the LMA add-on. The individuals that are selected to undergo transitions to monetary compensation schemes are defined in the TransLMA\_xx policy, which is switched on automatically by the add-on. For more information about the modelling of labour market transitions please consult the ‘Simulating labour market transitions in EUROMOD’ document. We select randomly the self-employed that are eligible for this benefit.

### **2.10.6 Reduction of pension contributions**

In response to covid19 pandemic the government simplified temporary laid off process and reduced pension contributions that are paid by employers through the remainder of 2020. The reduction is 2.6 percentage point that accounts for approximately 900 million euro in 2020. The change had no effect on employees’ contributions.

#### ***Rates and amount***

Table 29 and row “Private sector, average, %” presents the 2020 parameter (16.96 percent). The parameter was in use between 1/1/2020 and 30/4/2020 for five months. After 1/5/2020 the average contributions were reduced by 2.6 percentage points resulting to average of 14.35 percentage for remaining 7 months in 2020.

Resulting weighted average for 2020 is 15.6 percent (Private sector, average, %).

#### ***EUROMOD modelling***

This reform to the pension contribution can only produce results if the model is run in combination with the full year adjustment extension.

### **3. DATA<sup>3</sup>**

#### **3.1 General description**

The Finnish database is drawn from the UDB version of the European Statistics on Income and Living Conditions survey (EU-SILC) collected in 2020. EU-SILC is the main source of comparative statistics on income distribution and social exclusion in Europe. The survey is constructed by combining information from registers and interviews. Most of the information is from administrative registers, such as Statistics Finland's population statistics and Tax register. Typically many of the household classifications and some expenditures are based on interviews. For example, for income reference period of 2018, 99.0 % of all gross income was from registers and 1.0 % was from interviews. Similarly, 98.0 % of paid transfers was from registers and 2.0 % was from interviews.<sup>4</sup> Table 46 presents the basic information on current database. Changes to disaggregations in EUROMOD database FI\_2014\_a1 and forward are described in section 3.3.3.

The target group of the survey are households residing permanently in Finland at the end of the year 2018. Excluded are persons living in Finland temporarily or without address, institutionalized, living permanently abroad and asylum seekers.

The sample is based on a rotating panel where the same household is included in four consecutive years. The sample design is a two-phase stratified sampling. In the first phase a so-called master sample is created by drawing 50,000 target persons aged at least 16 years. People living in the same household-dwelling unit with the target person are identified using the domicile codes. In the second phase the actual sample, 5,000 household-dwelling units, is drawn from the master sample using the stratification rules.

The stratification is performed according to the available socio-economic and income information. The master sample is divided into socio-economic groups of employees, self-employed, farmers, pensioners, other and persons with no tax record. Further, these groups are divided into subgroups according to the household-dwelling unit's income subject to state taxation. Self-employed and household-dwelling units with high incomes have a higher probability to get into the sample than other groups. Besides the stratification criteria, the probability that a household-dwelling unit is included in the sample depends on the number of persons aged at least 16 years in the household-dwelling unit.

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<sup>3</sup> Description of the data is based on the quality description of Income Distribution Survey (Tulonjakotilasto) 2019 (Statistics Finland 2020) and the Final Quality Report relating to the Finnish EU-SILC 2019 (Statistics Finland 2022).

<sup>4</sup>Quality report for Finland, 2022: <http://ec.europa.eu/eurostat/web/income-and-living-conditions/quality/eu-and-national-quality-reports>

**Table 46. Basic information on EUROMOD database 2020**

	<b>Year 2020</b>
EUROMOD database	FI_2020_a1
Original name	UDB_cFI19D, -H, -P, -R
Provider	EUROSTAT
Year of collection	2020
Period of collection	01/2020 – 05/2020
Income reference period	2019
Coverage	Private households
Actual sample size	9,474 household-dwelling units 1st wave: 5,000 observations 2nd wave: 2,897 observations 3rd wave: 2,493 observations 4th wave: 2,213 observations
Accepted	9,646 household-dwelling units (23,879 individuals) 1st wave: 2,885 observations 2nd wave: 2,384 observations 3rd wave: 2,158 observations 4th wave: 2,047 observations
Non-response rate	1st wave: 46.9 % 2nd wave: 17.2 % 3rd wave: 12.7 % 4th wave 7.5 %

Source: The quality description of Income Distribution Survey (Tulonjakotilasto) 2019 (Statistics Finland 2020).

## **3.2 Sample quality and weights**

### **3.2.1 Non-response**

The total household-dwelling unit non-response rate to interviews in the first wave was 42.1 per cent. Non-response rates of the 13 population groups interviewed in the first wave are reported in Table 47. The non-response rates of employees are near to the national average. Farmers and pensioners in higher income class responded more often than other groups.

Table 47. Non-response rates of the stratificated population groups in the first wave.

Stratificated group	Non-response rate
Employees, lowest income class	58.0
Employees, 2nd lowest income class	50.3
Employees, 3rd lowest income class	42.4
Employees, highest income class	39.0
Self-employed persons, lower income class	47.8
Self-employed persons, higher income class	41.7
Farmers, lower income class	39.0
Farmers, higher income class	36.2
Pensioners, lower income class	46.4
Pensioners, higher income class	33.0
Others, lower income class	69.7
Others, higher income class	42.5
No tax record	.
Average	41.8

Source: The quality description of Income Distribution Survey (Tulonjakotilasto) 2019. In Finnish. (Statistics Finland 2020).

### 3.2.2 Weights

Every person and household in the EU-SILC data has a weight. First, the design weights are created according to the inclusion probabilities. Second, the non-response adjusted weights are created. Third, the non-response adjusted weights are calibrated with SAS macro CALMAR, so the distributions of the certain features are similar in the sample and in the target group. The features used in calibration are:

- 
- Region (Helsinki, capital region, statistical grouping of municipalities<sup>5</sup>)
- size of household-dwelling unit
- age
- gender
- Educational level of persons aged 16 or over amounts and recipients incomes from different sources
- number of persons in dwelling population living in dwelling units at risk of poverty (register based income concept)

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<sup>5</sup> Helsinki and other parts of the Helsinki Metropolitan area are shown separately in the division of regions. Rest of the Finland follows statistical groupings of municipalities. See Statistical grouping of municipalities. [https://www.stat.fi/meta/kas/til\\_kuntaryhmit\\_en.html](https://www.stat.fi/meta/kas/til_kuntaryhmit_en.html) Statistics Finland

### **3.3 Assumptions and imputations**

#### **3.3.1 Time period**

The reference periods of the Finnish survey follow mainly the general protocol for EU-SILC with minor differences. The income reference period of the EU-SILC 2020 is the calendar year 2019. Most income variables were collected from registries and refer to this period, i.e. the twelve month period before the survey year. The interview information was collected during January–May 2020. The reference period of the income variables and the period of socio-demographic and labour characteristics are thus different. However, the Finnish data collecting principle diverges from general EU-SILC instructions and the relevant interview information refers also to the end of income reference period (e.g. labour activity status). More information is available at the Final Quality Report relating to the Finnish EU-SILC 2019 (Statistics Finland 2020) and the Quality Report relating to the Finnish Income Distribution Survey 2019 (Statistics Finland 2020. In Finnish).

#### **3.3.2 Gross incomes**

In the EU-SILC 2019 all income variables are in gross terms except *hy020*, *hy022* and *hy023*. In addition, net amounts *py020n*, *py021n* and *hy100n* are provided in the data. No net-to-gross imputations are done.

#### **3.3.3 Imputed and disaggregated variables**

Variable *hy090g* includes interest, dividends and profit from capital investments in unincorporated business. For filling the missing items of this variable cold-deck and hot-deck methods were used.

Variable *hy030g*, imputed rent, is imputed by stratification method. External data of mean gross rents per square meter in dwellings of different sizes, types and municipalities is used.

The missing items in the housing costs *hh070* variable were imputed by using several, both non-parametric and parametric, statistical methods.

Variable *hh071*, mortgage principal payments, was imputed primarily by deductive method and secondarily for those ones whose mortgage capital was increased during the income reference year by cold-deck and hot-deck methods.

Net amounts *hy022*, *hy023* and *hy100n* were imputed by deductive and gross-net conversion imputation methods.

Some variables in UDB SILC are available only on household level and some monetary variables are aggregated in the EU-SILC but disaggregated in EMSD (EUROMOD database). These disaggregations are often necessary to make the simulations possible. For example, the investment income (*yi*) includes earned, capital and non-taxable income which are necessary to separate in order to simulate taxes and contributions. In addition there is information in the UDB SILC data which is not possible to decompose into any relevant and homogenous variables. The content of these “residual variables”, or “other income components”, is probably heterogeneous.

#### **Version history:**

***FI\_2014\_a1 and before:*** UDB version of the Finnish database bases on Income Distribution Survey of Statistics Finland. Until 2016 UDB version of EU-SILC was merged with variables from Income Distribution Survey (sometimes also refereed as Finnish national SILC). Last EUROMOD database to use the variables was FI\_2014\_a1.

**FI\_2015\_a1 t o FI\_2019\_a1:**EUROMOD database FI\_2015\_a1 and forward only includes variables from UDB EU-SILC. Disaggregated variables presented in 3.3.3 are less accurate in FI\_2015\_a2 and forward when compared to FI\_2014\_a1.

**FI\_2020\_a1:** FI\_2022\_a1 uses UDB SILC and national variables in EMSD as the main data source. FI\_2022\_a1 uses EMSD to disaggregate income component to individual level when the relevant data is available. However, individual level disaggregated variables that are related to some social security contributions and taxation are set to zero, since some relevant data is unavailable. Table 48 shows the aggregate EUROMOD variables which are imputed to disaggregated variables. The disaggregations are performed by using EMSD and eligibility criteria for benefits and household structure is used as background information. More information on the data source and disaggregation rules is presented in the DRD document.

**Table 48. The aggregate EUROMOD variables which are split.**

Aggregate variable	Description of aggregate variable	Imputed variable	Description of imputed variable	Simulated
tis	Personal income tax and social insurance contributions	tscee00	Earnings-related pension contribution and unemployment insurance contribution of employee	x
		tscse00	Earnings-related pension contribution of self-employed, earnings-related pension contribution of farmer, group life insurance contribution of farmer and accident insurance contribution of farmer	x
		Tscsi	Daily allowance contribution of health insurance	x
		Thl	Medical care contribution of health insurance	x
		Tin	Personal income tax	x
yse	Self-employment income	yse00	Earned income share of self-employment income	
		yse01	Capital income share of self-employment income	
yiy	Investment income	yiytx00a)	Earned income share of investment income	
		yiytx01	Capital income share of investment income	
		yiynt	Tax free income share of investment income	
bed	Education benefits	bed00	Study grant	x
		bedot	Other education benefits	
bun	Unemployment benefits	bunnc	Basic unemployment allowance	x
		bunct	Earnings-related unemployment allowance	x
		bunmt	Labour market subsidy	x
		bunot	Other unemployment benefits	
bhl	Health benefits	bhl00	Sickness leave benefit	
		bhlot	Employment injury benefits (and other health benefits)	
bfa	Family benefits	bma	Parental leave benefits	
		bcc	Child home care allowance	x
		bch	Child benefit	x
		bfaot	Other family benefits	
bsa	Social assistance benefits	bsa00	Local authority income support	x
		bsaot	Other social assistance benefits	



bho	Housing benefits	bho00	General housing allowance	x (since 2015)
		bhope	Housing allowance for pensioners	x
		bhoot	Other housing benefits	
pdi	Disability pension benefits	pdi00	Main component of disability pension	
		pdida	Disability allowance separated from disability pension	
		pdica	Pensioners' care allowance separated from disability pension	
		pdiot	Residual Disability allowance and rehabilitation separated from disability pension	
poa	Old age pension benefits	poa00	Main component of old age pension	
		poaca	Pensioners' care allowance separated from old age pension	

a) Set to zero.

### 3.4 Updating

The factors which are used to update monetary variables from the base year 2015 up to 2020 are shown in Appendix 1, Table A1. No other adjustments are done to the monetary variables. Neither is any structural change done to the demographic or labour market characteristics.

## **4. VALIDATION**

In this chapter statistics on EUROMOD benefits and taxes are compared with external sources. Tables A3.1 to A3.8 in Appendix 2 show the validation results of market incomes, the tax-benefit instruments which are included in EUROMOD but are not simulated, the tax-benefit instruments which are simulated in EUROMOD, as well as income distribution and poverty indicators. The numbers of income recipients and taxpayers as well as aggregate amounts are presented.

The sources of external statistics are based on administrative registers, like registers of Finnish Tax Administration, Social Insurance Institution of Finland (Kela) and Finnish Centre for Pensions (ETK). For some incomes and taxes there is no information on recipients or taxpayers available. The reason is that in register the information is often broken down into details. People may receive different incomes, or pay taxes, simultaneously and the recipients or tax payers are not possible to sum up.

The EUROMOD input data is based on the Finnish UDB SILC which is mainly collected from registers, so the overall match to external statistics should be quite good. However, the income concepts of the survey and administrative registers are not always comparable. The precise content of some imputed variables may not be known.

### **4.1 Aggregate Validation**

#### **4.1.1 Components of disposable income**

In this section, the main differences between the definition of disposable income in EUROMOD and EU-SILC are presented. According to EU-SILC, company car is included in the definition of disposable income and pension from individual private plans is not included. The former is not included in EUROMOD whereas the latter is included.

**Table 4.1 Components of disposable income**

	EUROMOD	EU-SILC
	<b>ils_dispy</b>	<b>HY020</b>
Employee cash or near cash income	+	+
Employer's social insurance contribution	0	0
Company car	0	+
Contributions to individual private pension plans	0	0
Cash benefits or losses from self-employment	+	+
Pension from individual private plans	+	0
<i>Unemployment benefits</i>	+	+
<i>Old-age benefits</i>	+	+
<i>Survivor' benefits</i>	+	+
Sickness benefits	+	+
<i>Disability benefits</i>	+	+
Education-related allowances	+	+
Income from rental of a property or land	+	+
<i>Family/children related allowances</i>	+	+
Social exclusion not elsewhere classified	+	+
<i>Housing allowances</i>	+	+
Regular inter-household cash transfer received	+	+
Interests, dividends, etc.	+	+
Income received by people aged under 16	+	+
Regular taxes on wealth	-	-
<i>Regular inter-household cash transfer paid</i>	-	-
<i>Taxes on income and SIC</i>	-	-

#### 4.1.2 Validation of market incomes

Table A3.1 and A3.2 show the annual number of recipients and annual aggregate amounts of market incomes. Both the number of recipients and the annual aggregate amount of earnings across all employees in EUROMOD is close (97% and 99%) to the register sources in the base year 2019. The discrepancies are large for some components of investment and self-employment incomes. These components are imputed, so lower precision is expected. In particular, the earned income share of dividend income can not be satisfactorily imputed from the SILC data.

#### 4.1.3 Validation of taxes and social insurance contributions

Table A3.3 and A3.4 present validation of taxes and social insurance contribution show the validation results of simulated benefits, taxes and social contributions. As described above the external numbers of recipients are not always available. For employers there is no external information about payers of social contributions. Self-employed persons paying contributions are clearly under-represented in the data. Farmers work injury and life insurance contributions are not presented because of their minor importance in aggregate level. The number of persons liable to capital income taxes is oversimulated, as the earned income share of dividend income and self-employed income can not be imputed satisfactory from the data. Number of payers of the state earned income taxes, municipal income tax, the medical care contributions, and the employee social insurance contribution, are close to external official statistics for 2019.

The aggregate amount of income taxes and social insurance contributions are overall close to the external official statistics. However, capital income tax total annual amount is undersimulated.

#### **4.1.4 Validation of benefits**

Table A3.5 and A3.6 present validation of benefits. Old-age pensions are covered quite well in the SILC data. The number of recipients and total annual amount of disability pensions are over-represented, however, the aggregate amount is quite close to external statistics. On the contrary, survivor's pensions, guarantee pensions and disability allowances are under-represented in the data and/or in the model. Disability pensions are overestimated because they include also other benefits than pensions that can not be successfully disaggregated.

Most means-tested and non-means-tested benefit simulated total recipients and total annual amounts are similar to external statistics. The recipients of basic unemployment allowance are lower in SILC because the variable excludes some items, which are included in external statistics. The local authority income support / social assistance is underestimated because in the baseline eligibility is simulated taken some of the non-take-up into account.

#### **4.2 Income distribution**

All results presented here concerning poverty and income distribution are computed for individuals according to their household disposable income (HDI) equivalised by the modified OECD equivalence scale. HDI are calculated as the sum of all income sources of all household members net of income tax and social insurance contributions. The weights in the OECD equivalence are: first adult=1; additional people aged 14+=0.5; additional people aged under 14=0.3. In all simulations 100% take-up of means-tested benefits (excl. local authority income support) is assumed.

Tables A3.7 provides the comparison of EUROMOD simulations and the EUROSTAT data for income years 2019–2022. External statistics from EUROSTAT are available only up to 2019. Means and medians are lower in EUROMOD. S80/S20-ratio and Gini-coefficient are lower than in the EUROSTAT statistics. The poverty rates are also underestimated both for men and women. The comparison shows the effects of variable imputations and simulations itself while the base data for 2018 income are the same.

The deciles income shares are quite close, except in the 1<sup>st</sup> decile in all years. The difference in the first decile comes from overstimulation of means-tested benefits and the 100% take-up assumption.

##### **4.2.1 Poverty**

In Table A3.8 poverty rates with several poverty lines and different age groups are presented. The overall poverty rates at the 60% threshold approximate quite well the EUROSTAT data. The differences are larger with lower poverty lines. With 60% threshold the variations are largest for the eldest persons. The EUROMOD overall relative poverty rates are slightly lower than the poverty rates reported in EUROSTAT.

#### **4.3 Summary of “health warnings”**

This final section summarizes the main findings in terms of particular aspects of the Finnish part of EUROMOD or its database. These should be borne in mind when using the model and interpreting the results.

- No adjustments have been made for demographic changes or changes in the composition of incomes since the base year 2018 (except those updating by indices and if the model is run in combination with the LMA add-on).
- The assumption of 100% take up of means-tested benefits overestimates the number of recipients and amounts of these benefits. However, in the baseline local authority income support is simulated taken into account non-take-up.
- Some income variables are imputed from aggregate EU-SILC variables. The information of these variables may be inaccurate and the content heterogeneous.
- One should be careful when interpreting the results for small subgroups.
- Some tax credits are not simulated or included in the data.
- The simulation of monetary compensation schemes (bwkmcse\_s and bwkmcsetx\_s) is triggered by the simulation of labour market transitions defined in policy TransLMA\_cc. This policy becomes operational if the model is run in conjunction with the LMA add-on. The nature of these simulations is still experimental and only partially validated. Users are encouraged to refer to the “Simulating labour market transitions in EUROMOD” document prior to their use.
- Labour market transitions are switched OFF in EUROMOD baselines. As a consequence, the simulation of monetary compensation schemes does not produce any effect in baseline simulations. Since all policies not linked to labour market transitions are fully functional, it is possible for disposable income in 2020 to be higher than disposable income in previous years.

## **5. REFERENCES**

### *Sources for tax-benefit descriptions and rules*

Kela, the Social Insurance Institution of Finland:

- Website: <http://www.kela.fi/web/en>
- Guidelines for benefits of Kela. The latest guidelines are available at the website of Kela. In Finnish.

Verohallinto, Tax Administration of Finland:

- Website: <https://www.vero.fi/en-US>

Eläketurvakeskus, The Finnish Centre for Pensions:

- Website: <http://www.etk.fi/en/>

Mela, the Farmers' Social Insurance Institution:

- Website: <http://www.mela.fi/en/>

### *Sources for data description*

The Final Quality Report relating to the Finnish EU-SILC 2017 (Statistics Finland 2018). Available at: <https://circabc.europa.eu/w/browse/d35d7d5f-bcad-4fa5-8de3-20a5537b04db>

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The quality description of Income Distribution Survey (Tulonjakotilasto) 2018 (Statistics Finland 2020). Available at: [https://www.stat.fi/til/tjt/2018/06/tjt\\_2018\\_06\\_2020-03-12\\_laa\\_001\\_fi.html](https://www.stat.fi/til/tjt/2018/06/tjt_2018_06_2020-03-12_laa_001_fi.html). In Finnish.

### *Sources for validation statistics*

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Social assistance 2014 – statistical report (National Institute for Health and Welfare 2015).

Social protection expenditure and financing – statistical reports for years 2007-2014 (National Institute for Health and Welfare).

Statistical database of taxable incomes (Statistics Finland).

Statistical database of the Finnish Centre for Pensions.

Statistical database of the Social Insurance Institution of Finland.

Statistics of the Farmers' Social Insurance Institution.

Statistical Yearbook of Kela, the Social Insurance Institution of Finland, 2017.

**ANNEX 1. UPDATING FACTORS**
**Table A1. Updating factors 2017-2022**

<b>Index</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Applied to variables:</b>
Index of wage and salary earnings (2005=100) <sup>[1]</sup>	135.0	137.3	140.1	142.9	146.2	150.2	yem, yse (yse00, yse01), kfb*, xmp, yivwg, kivho, ypt, yot
Earnings-related pension index (TEL) <sup>[2]</sup>	2534	2548	2585	2617	2631	2691	ypp, pdi*, poa*, psu, xpp
Index of investment income (2007=100) <sup>[3]</sup>	132.7	137.5	150.7	133.7	136.7	145.5	yyi (yytx00, yytx01, yynt), afc
Rent index (2007=100) <sup>[4]</sup>	135.3	136.9	138.5	140.1	141.3	140.8	ypr, tpr, xhc (xhct, xhcot), bho00
Index of mortgage interest (2010=100) <sup>[5]</sup>	52.6	50.0	47.7	44.0	40.5	39.9	xhcmomi
Consumer price index (2005=100) <sup>[6]</sup>	120.7	122.0	123.3	123.6	126.3	134.5	bedot
Index of previous year's earnings <sup>[7]</sup>	134.7	135.0	137.3	140.1	142.9	146.2	yempv, bma, bhl00, bhlot, bunot
National pension index (KEL) <sup>[8]</sup>	1617	1617	1617	1633	1639	1674	bsa (bsa00, bsat), bhoot, bfaot

[1] Source: Statistics Finland. Figure for 2021 is preliminary (Statistics Finland, available on 12/4/2022). Figure for 2022 is forecast of Ministry of Finance, available on 12/4/2022.

[2] Source: Finnish Centre for Pensions.

[3] Source: Statistics Finland, average dividend income per household. Figures for 2021–2022 are forecasts based on consumer price index below (12/4/2022).

[4] Source: Statistics Finland; figure for 2022 from the 4<sup>th</sup> quarter of 2021.

[5] Source: Bank of Finland, index of average interest for household mortgage loans; year 2022 incl. Jan-Feb.

[6] Source: Statistics Finland. Figure for 2022 is forecast of Ministry of Finance, available on 19/9/2022.

[7] See: Index of wage and salary earnings.

[8] Source: Social Insurance Institution of Finland.



## ANNEX 2. POLICY EFFECTS IN 2021-2022

### A. Baseline results

Table A1 and Figure A1 show the effect of policy changes in 2021-2022 on mean equivalised household disposable income by income component and income decile group, as a percentage of mean equivalised household disposable income in 2021. Each policy system has been applied to the same input data (2020 EUROMOD input data, 2019 income year) deflating monetary parameters of 2021 policies by the Eurostat's Harmonized Index of Consumer Prices (HICP).

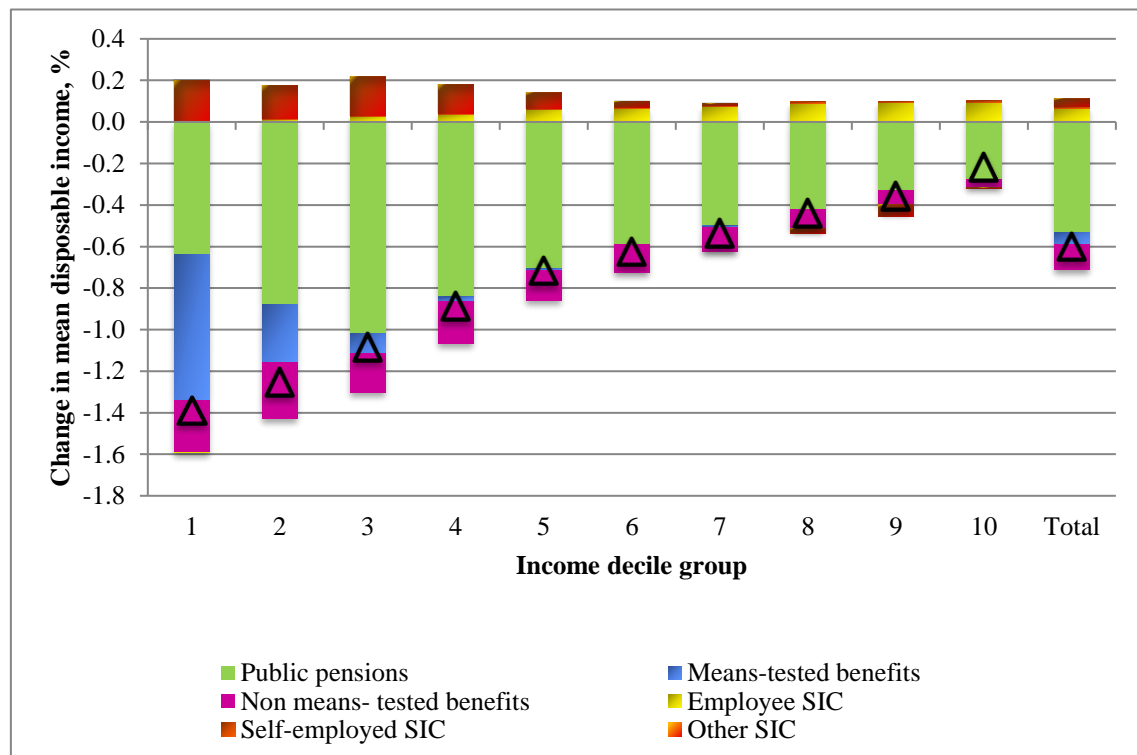
In 2022, the increase to the benefits amount that took place after June 30<sup>th</sup> are modelled in EUROMOD through an extension, and not reflected in the Policy effect results, that are based on the baseline results. The policy changes had a negative and regressive effect on the disposable income. All deciles experience a decrease in disposable income. The bottom decile decreases by 1.4 % and the top income decile decreases by 0.2%. The magnitudes of the changes are relatively small in the upper part of the distribution. The mean disposable income decreases by around 0.6%. The strongest negative effect is experienced by the first and second deciles, that decrease by 1.2%. The changes in public pensions are the main drivers of this decrease along the distribution, and means-tested benefits play also a major role for the first two deciles.

Table A2. Policy effects in 2021-2022, using the HICP-indexation, %.

Decile	Original income	Public pensions	Means-tested benefits	Non means-tested benefits	Employee SIC	Self-employed SIC	Other SIC	Direct taxes	Disposable income
1	0.00	-0.64	-0.70	-0.25	0.00	0.00	0.00	0.20	-1.39
2	0.00	-0.88	-0.28	-0.27	0.01	0.01	0.00	0.16	-1.25
3	0.00	-1.02	-0.09	-0.19	0.03	0.01	0.00	0.19	-1.09
4	0.00	-0.84	-0.02	-0.20	0.04	0.01	0.00	0.14	-0.89
5	0.00	-0.70	-0.01	-0.15	0.06	0.00	0.00	0.08	-0.72
6	0.00	-0.59	0.00	-0.14	0.06	0.00	0.00	0.03	-0.62
7	0.00	-0.50	-0.01	-0.12	0.07	0.01	0.00	0.01	-0.54
8	0.00	-0.42	0.00	-0.09	0.09	0.01	0.00	-0.02	-0.44
9	0.00	-0.33	0.00	-0.07	0.09	0.01	0.00	-0.06	-0.36
10	0.00	-0.28	0.00	-0.04	0.09	0.01	0.00	0.00	-0.22
Total	0.00	-0.53	-0.06	-0.12	0.07	0.01	0.00	0.04	-0.60

Notes: Shown as a percentage change in mean equivalised household disposable income by income component and income decile group. Each policy system has been applied to the same input data, deflating monetary parameters of 2022 policies by Eurostat's Harmonized Index of Consumer Prices (HICP).

Figure A1. Policy effects in 2021-2022, using the HICP-indexation, %.



### **ANNEX 3. VALIDATION TABLES**

**Table A3.1. Original income in EUROMOD - Number of recipients (thousands)**

	Simulated	EUROMOD				External				Ratio			
	(Y / N)	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
Earnings (ils_earn)													
employment income (yem)	N	2,822	2,822	2,822	2,822	2,897	2,833	N/A	N/A	0.97	1.00	N/A	N/A
earned income share of self-employment income (yse00)	N	332	332	332	332	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
capital income share of self-employment income (yse01)	N	278	278	278	278	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other original income (ils_origy - ils_earn)													
investment income (earned) (yiytx00)	N	178	178	178	178	119	94	N/A	N/A	1.50	1.91	N/A	N/A
other income (yot)	N	108	108	108	108	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
property income (ypr)	N	444	444	444	444	345	350	N/A	N/A	1.29	1.27	N/A	N/A
private pensions (ypp)	N	237	237	237	237	100	118	N/A	N/A	2.37	2.02	N/A	N/A
private transfers (ypt)	N	234	234	234	234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
maintenance payment (xmp)	N	488	488	488	488	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
investment income (non-taxable) (yiynt)	N	1,973	1,973	1,973	1,973	1,184	1,044	N/A	N/A	1.67	1.89	N/A	N/A
investment income (capital) (yiytx01)	N	2,358	2,358	2,358	2,358	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Continued...

Source		Comments
<b>Earnings (ils_earn)</b>		
employment income (yem)	Tax office	Table 1.1., item 4.1.A
earned income share of self-employment income (yse00)	Tax office	Table 1.1., item 4.6+4.7+4.8
capital income share of self-employment income (yse01)	Tax office	Table 1.1., item 5.1.8+5.1.9+5.1.10
<b>Other original income (ils_origy - ils_earn)</b>		
investment income (earned) (yiytx00)	Tax office	Table 1.1., item 4.11
other income (yot)	-	-
property income (ypr)	Tax office	Table 1.1., item 5.1.3
private pensions (ypp)	Tax office	Table 1.1., item 5.1.14

Continued...

	Source	Comments
private transfers (ypt)	-	-
maintenance payment (xmp)	-	-
investment income (non-taxable) (yiynt)	Tax office	Table 1.1., items 5.2.2+5.2.3+5.2.4
investment income (capital) (yiytx01)	Tax office	Table 1.1., items 5.1.4+5.1.5

**Table A3.2. Original income in EUROMOD - Annual amounts (millions)**

	Simulated (Y / N)	EUROMOD				External				Ratio			
		2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
<b>Earnings (ils_earn)</b>													
employment income (yem)	N	90,004	91,803	93,923	96,493	90,797	90,704	N/A	N/A	0.99	1.01	N/A	N/A
earned income share of self-employment income (yse00)	N	4,476	4,566	4,671	4,799	3,586	3,453	N/A	N/A	1.25	1.32	N/A	N/A
capital income share of self-employment income (yse01)	N	1,684	1,718	1,758	1,806	341	330	N/A	N/A	4.95	5.21	N/A	N/A
<b>Other original income (ils_origy - ils_earn)</b>													
investment income (earned) (yiytx00)	N	415	368	377	401	576	545	N/A	N/A	0.72	0.68	N/A	N/A
other income (yot)	N	144	147	150	154	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
property income (ypr)	N	1,771	1,791	1,807	1,800	1,887	1,907	N/A	N/A	0.94	0.94	N/A	N/A
private pensions (ypp)	N	1,659	1,680	1,689	1,727	545	621	N/A	N/A	3.04	2.70	N/A	N/A
private transfers (ypt)	N	315	321	329	338	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
maintenance payment (xmp)	N	709	723	740	760	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
investment income (non-taxable) (yiynt)	N	2,487	2,206	2,256	2,401	2,304	2,272	N/A	N/A	1.08	0.97	N/A	N/A
investment income (capital) (yiytx01)	N	3,571	3,168	3,239	3,448	2,589	2,120	N/A	N/A	1.38	1.49	N/A	N/A

**Table A3.3. Taxes and SIC - Number of payers (thousands)**

	Simulated	EUROMOD				SILC				Ratio				External				Ratio			
	(Y / N)	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
<b>Taxes (ils_tax)</b>																					
capital income tax (tiniy_s)	Y	2,040	2,074	2,080	2,084	0	0	0	0	0.00	0.00	0.00	0.00	1,446	1,326	N/A	N/A	1.41	1.56	N/A	N/A
state earned income tax (tinna_s)	Y	1,559	1,518	1,512	1,512	0	0	0	0	0.00	0.00	0.00	0.00	1,433	1,412	N/A	N/A	1.09	1.07	N/A	N/A
municipal income tax (tinmu_s)	Y	3,900	3,884	3,876	3,873	0	0	0	0	0.00	0.00	0.00	0.00	3,899	3,933	N/A	N/A	1.00	0.99	N/A	N/A
medical care contributions (tax) (thl_s)	Y	1,797	3,882	3,875	3,871	0	0	0	0	0.00	0.00	0.00	0.00	1,748	3,904	N/A	N/A	1.03	0.99	N/A	N/A
broadcasting tax (tbr_s)	Y	3,808	3,824	3,833	3,863	0	0	0	0	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
property tax (tpr)	N	1,291	1,291	1,291	1,291	1,291	1,291	1,291	1,291	1.00	1.00	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Employee Social Insurance Contributions (ils_sicce)</b>																					
employee social insurance contributions (tscee_s)	Y	2,677	2,677	2,677	2,677	0	0	0	0	0.00	0.00	0.00	0.00	2,625	2,579	N/A	N/A	1.02	1.04	N/A	N/A
<b>Self-employed Social Insurance Contributions (ils_sicse)</b>																					
self-employed contributions for entrepreneurs (tscse_s)	Y	101	101	102	102	0	0	0	0	0.00	0.00	0.00	0.00	211	211	216	N/A	0.48	0.48	0.47	N/A
self-employed contributions for farmers (tsctr_s)	Y	42	42	42	42	0	0	0	0	0.00	0.00	0.00	0.00	55	54	52	N/A	0.77	0.79	0.81	N/A
<b>Employer Social Insurance Contributions (ils_sicer)</b>																					
employer social insurance contributions (tsceer_s)	Y	2,826	2,826	2,826	2,826	2,808	2,808	2,808	2,808	1.01	1.01	1.01	1.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Credited Contributions (ils_sicct)</b>																					
<b>Other Contributions (ils_sicot)</b>																					

Continued...

Source		Comments
<b>Taxes (ils_tax)</b>		
capital income tax (tiniy_s)	Tax office	Table 3.1., item 1.1.1.2
state earned income tax (tinna_s)	Tax office	Table 3.1., item 1.1.1.1
municipal income tax (tinmu_s)	Tax office	Table 3.1., item 1.1.2
medical care contributions (tax) (thl_s)	Tax office	Table 3.1., item 1.1.5
broadcasting tax (tbr_s)	-	-
property tax (tpr)	-	-

Continued...

Source		Comments
<b>Employee Social Insurance Contributions (ils_sicee)</b>		
employee social insurance contributions (tscee_s)	Tax office	Includes pension and unempl. contr., not daily allow. contr., table 2.1, item 5.2
<b>Self-employed Social Insurance Contributions (ils_sicse)</b>		
self-employed contributions for entrepreneurs (tscse_s)	The Finnish Centre for Pensions (ETK)	Number of persons with YEL insurance on 31 December
self-employed contributions for farmers (tscfr_s)	The Farmers' Social Insurance Institution (Mela)	Number of persons with MYEL insurance on 31 December
<b>Employer Social Insurance Contributions (ils_sicer)</b>		
employer social insurance contributions (tscer_s)	Unemployment Insurance Fund	Unemployment Insurance Fund
<b>Credited Contributions (ils_sicct)</b>		
<b>Other Contributions (ils_sicot)</b>		



**Table A3.4. Taxes and SIC - Annual amounts (millions)**

	Simulated	EUROMOD				SILC				Ratio				External				Ratio			
	(Y / N)	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
Taxes (ils_tax)																					
capital income tax (tiniy_s)	Y	2,114	2,013	2,053	2,132	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,049	3,080	N/A	N/A	0.69	0.65	N/A	N/A
state earned income tax (tinna_s)	Y	5,962	5,956	6,005	6,168	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5,665	5,655	N/A	N/A	1.05	1.05	N/A	N/A
municipal income tax (tinmu_s)	Y	20,054	20,436	20,786	21,343	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19,646	20,147	N/A	N/A	1.02	1.01	N/A	N/A
medical care contributions (tax) (thl_s)	Y	441	962	973	838	0	0	0	0	0.00	0.00	0.00	0.00	443	959	N/A	N/A	0.99	1.00	N/A	N/A
broadcasting tax (tbr_s)	Y	504	507	509	514	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
property tax (tpr)	N	533	539	544	542	533	533	533	533	1.00	1.01	1.02	1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Employee Social Insurance Contributions (ils_sicee)																					
employee social insurance contributions (tscee_s)	Y	9,111	9,115	9,630	9,822	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8,982	8,667	1,241	N/A	1.01	1.05	7.76	N/A
Self-employed Social Insurance Contributions (ils_sicse)																					
self-employed contributions for entrepreneurs (tsce_s)	Y	854	858	885	902	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,076	1,070	1,075	N/A	0.79	0.80	0.82	N/A
self-employed contributions for farmers (tscfr_s)	Y	140	142	146	149	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	173	171	172	N/A	0.81	0.83	0.85	N/A
Employer Social Insurance Contributions (ils_sicer)																					
employer social insurance contributions (tscer_s)	Y	19,505	16,338	20,258	20,969	19,064	19,064	19,064	19,064	1.02	0.86	1.06	1.10	18,240	16,922	N/A	N/A	1.07	0.97	N/A	N/A
Credited Contributions (ils_sicct)																					
Other Contributions (ils_sicot)																					

**Table A3.5. Benefits - Number of recipients (thousands)**

	Simulated	EUROMOD				SILC				Ratio				External				Ratio			
	(Y / N)	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
Pensions (ils_pen)																					
old-age pensions (poa00)	N	1,320	1,320	1,320	1,320	1,320	1,320	1,320	1,320	1.00	1.00	1.00	1.00	1,332	1,346	1,358	N/A	0.99	0.98	0.97	N/A
disability pensions (pdi00)	N	275	275	275	275	275	275	275	275	1.00	1.00	1.00	1.00	195	192	186	N/A	1.41	1.43	1.48	N/A
survivors pensions (psu)	N	224	224	224	224	224	224	224	224	1.00	1.00	1.00	1.00	260	232	229	N/A	0.86	0.97	0.98	N/A
guarantee pension (pmmtu_s)	Y	48	110	110	110	0	0	0	0	0.00	0.00	0.00	0.00	109	114	117	N/A	0.43	0.96	0.94	N/A
disability allowance (pdida)	N	17	17	17	17	17	17	17	17	1.00	1.00	1.00	1.00	51	52	55	N/A	0.34	0.33	0.31	N/A
Care allowance for disability pensioners (pdica)	N	44	44	44	44	44	44	44	44	1.00	1.00	1.00	1.00	51	50	49	N/A	0.86	0.88	0.91	N/A
Care allowance for old-age pensioners (poaca)	N	86	86	86	86	86	86	86	86	1.00	1.00	1.00	1.00	163	160	158	N/A	0.53	0.54	0.54	N/A
Other disability pensions (pdiot)	N	132	132	132	132	132	132	132	132	1.00	1.00	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Means-tested benefits (ils_benmt)																					
Other education benefits (bedot)	N	87	87	87	87	87	87	87	87	1.00	1.00	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other unemployment benefits (bunot)	N	145	145	145	145	145	145	145	145	1.00	1.00	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other social assistance benefits (bsaot)	N	94	94	94	94	94	94	94	94	1.00	1.00	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
General housing allowance (bho00_s)	Y	424	414	411	408	455	455	455	455	0.93	0.91	0.90	0.90	380	403	392	N/A	1.12	1.03	1.05	N/A
Other housing benefits (bhoot)	N	13	13	13	13	13	13	13	13	1.00	1.00	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Study grant (bed00_s)	Y	260	261	257	270	304	304	304	304	0.86	0.86	0.84	0.89	315	320	320	N/A	0.83	0.82	0.80	N/A
Pensioner housing allowance (bhope_s)	Y	223	233	232	225	164	164	164	164	1.36	1.42	1.41	1.37	212	213	210	N/A	1.05	1.09	1.10	N/A
Labour market subsidy (bunmt_s)	Y	264	264	263	263	281	281	281	281	0.94	0.94	0.94	0.94	282	305	274	N/A	0.93	0.87	0.96	N/A
Child home care allowance (bcc_s)	Y	86	86	86	86	93	93	93	93	0.93	0.93	0.93	0.93	90	87	82	N/A	0.96	1.00	1.05	N/A
Local authority income support (bsa00_s)	Y	205	201	198	193	180	180	180	180	1.14	1.12	1.10	1.07	297	311	288	N/A	0.69	0.65	0.69	N/A
Non-means-tested benefits (ils_benntt)																					
Sickness leave benefit (bhl00)	N	185	185	185	185	185	185	185	185	1.00	1.00	1.00	1.00	162	155	161	N/A	1.15	1.19	1.15	N/A
Other sickness-related benefits (bhlot)	N	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Child benefit (bch_s)	Y	541	541	541	541	562	562	562	562	0.96	0.96	0.96	0.96	571	568	566	N/A	0.95	0.95	0.96	N/A
Other family benefits (bfaot)	N	89	89	89	89	89	89	89	89	1.00	1.00	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Basic unemployment allowance (bunnc_s)	Y	51	51	51	51	51	51	51	51	1.00	1.00	1.00	1.00	65	127	94	N/A	0.78	0.40	0.54	N/A
Earnings-related unemployment allowance (bunct_s)	Y	228	228	228	228	229	229	229	229	1.00	1.00	1.00	1.00	246	456	335	N/A	0.93	0.50	0.68	N/A
Parental leave benefits (bma)	N	164	164	164	164	164	164	164	164	1.00	1.00	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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	Source	Comments
Pensions (ils_pen)		
old-age pensions (poa00)	The Finnish Centre for Pensions (ETK)	-
disability pensions (pdi00)	The Finnish Centre for Pensions (ETK)	-
survivors pensions (psu)	The Finnish Centre for Pensions (ETK)	-
guarantee pension (pmmtu_s)	Kela	-
disability allowance (pdida)	Kela	-
care allowance for disability pensioners (pdica)	Kela (found under disability allowance)	-
care allowance for old-age pensioners (poaca)	Kela (found under disability allowance)	-
other disability pensions (pdiot)	-	-
Means-tested benefits (ils_benmt)		
other education benefits (bedot)	-	-
other unemployment benefits (bunot)	-	-
other social assistance benefits (bsaot)	-	-
general housing allowance (bho00_s)	Kela	-
other housing benefits (bhoot)	-	-
study grant (bed00_s)	Kela	-
pensioner housing allowance (bhope_s)	Kela	-
labour market subsidy (bunmt_s)	Kela	-
child home care allowance (bcc_s)	Kela	-
local authority income support (bsa00_s)	NIHW/THL	Number of households (total)
Non-means-tested benefits (ils_bennt)		
sickness leave benefit (bhl00)	Kela (Datawarehouse)	-
other sickness-related benefits (bhlot)	-	-
child benefit (bch_s)	Kela	-
other family benefits (bfaot)	-	-
basic unemployment allowance (bunnc_s)	Kela	-
earnings-related unemployment allowance (bunct_s)	Kela	-

Continued...

	Source	Comments
parental leave benefits (bma)	-	-
COVID-19 compensation paid to self-employed (bwkmcse_s)	-	-

**Table A3.6. Benefits - Annual amounts (million)**

	Simulated	EUROMOD				SILC				Ratio				External				Ratio			
	(Y / N)	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
Pensions (ils_pen)																					
old-age pensions (poa00)	N	26,499	26,827	26,971	27,586	26,499	26,499	26,499	26,499	1.00	1.01	1.02	1.04	26,648	27,653	28,261	N/A	0.99	0.97	0.95	N/A
disability pensions (pdi00)	N	3,141	3,180	3,197	3,270	3,141	3,141	3,141	3,141	1.00	1.01	1.02	1.04	2,449	2,430	2,407	N/A	1.28	1.31	1.33	N/A
survivors pensions (psu)	N	1,487	1,505	1,513	1,548	1,487	1,487	1,487	1,487	1.00	1.01	1.02	1.04	1,759	1,764	1,775	N/A	0.85	0.85	0.85	N/A
guarantee pension (pmmtu_s)	Y	59	99	98	99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	231	262	264	N/A	0.26	0.38	0.37	N/A
disability allowance (pdida)	N	34	35	35	36	34	34	34	34	1.00	1.01	1.02	1.04	113	117	123	N/A	0.30	0.30	0.28	N/A
care allowance for disability pensioners (pdica)	N	51	52	52	53	51	51	51	51	1.00	1.01	1.02	1.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
care allowance for old-age pensioners (poaca)	N	115	116	117	120	115	115	115	115	1.00	1.01	1.02	1.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
other disability pensions (pdiot)	N	454	460	462	473	454	454	454	454	1.00	1.01	1.02	1.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Means-tested benefits (ils_benmt)																					
other education benefits (bedot)	N	301	302	308	328	301	301	301	301	1.00	1.00	1.02	1.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
other unemployment benefits (bunot)	N	357	364	372	380	357	357	357	357	1.00	1.02	1.04	1.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
other social assistance benefits (bsaot)	N	124	126	126	129	124	124	124	124	1.00	1.01	1.01	1.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
general housing allowance (bho00_s)	Y	1,368	1,347	1,328	1,358	1,337	1,337	1,337	1,337	1.02	1.01	0.99	1.02	1,491	1,566	1,591	N/A	0.92	0.86	0.83	N/A
other housing benefits (bhoot)	N	6	6	6	6	6	6	6	6	1.00	1.01	1.01	1.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
study grant (bed00_s)	Y	484	497	493	554	437	437	437	437	1.11	1.14	1.13	1.27	412	438	446	N/A	1.17	1.13	1.10	N/A
pensioner housing allowance (bhope_s)	Y	528	566	571	568	412	412	412	412	1.28	1.37	1.39	1.38	616	636	647	N/A	0.86	0.89	0.88	N/A
labour market subsidy (bunmt_s)	Y	1,558	1,617	1,618	1,649	1,579	1,579	1,579	1,579	0.99	1.02	1.03	1.04	1,659	1,866	1,776	N/A	0.94	0.87	0.91	N/A
child home care allowance (bcc_s)	Y	268	270	271	276	184	184	184	184	1.46	1.47	1.47	1.50	225	210	191	N/A	1.19	1.28	1.42	N/A
local authority income support (bsa00_s)	Y	790	782	783	752	494	494	494	494	1.60	1.58	1.59	1.52	753	792	741	N/A	1.05	0.99	1.06	N/A
Non-means-tested benefits (ils_bennt)																					
sickness leave benefit (bhl00)	N	565	576	588	601	565	565	565	565	1.00	1.02	1.04	1.06	483	482	494	N/A	1.17	1.20	1.19	N/A
other sickness-related benefits (bhlot)	N	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
child benefit (bch_s)	Y	1,322	1,345	1,345	1,345	1,218	1,218	1,218	1,218	1.09	1.10	1.10	1.10	1,359	1,375	1,362	N/A	0.97	0.98	0.99	N/A
other family benefits (bfaot)	N	54	55	55	56	54	54	54	54	1.00	1.01	1.01	1.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
basic unemployment allowance (bunnc_s)	Y	184	191	192	196	149	149	149	149	1.24	1.29	1.29	1.32	210	397	377	N/A	0.88	0.48	0.51	N/A
earnings-related unemployment allowance (bunct_s)	Y	1,632	1,677	1,698	1,736	1,631	1,631	1,631	1,631	1.00	1.03	1.04	1.06	1,690	2,666	2,456	N/A	0.97	0.63	0.69	N/A
parental leave benefits (bma)	N	948	968	987	1,010	948	948	948	948	1.00	1.02	1.04	1.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COVID-19 compensation paid to self-employed (bwkmcse_s)	Y	N/A	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Table A3.7. Distribution of equivalised disposable income**

	EUROMOD				External				Ratio			
	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
Decile 1	4.59	4.62	4.59	4.54	4.20	4.30	N/A	N/A	1.09	1.08	N/A	N/A
Decile 2	5.73	5.79	5.76	5.73	5.60	5.70	N/A	N/A	1.02	1.02	N/A	N/A
Decile 3	6.59	6.64	6.61	6.59	6.50	6.60	N/A	N/A	1.01	1.01	N/A	N/A
Decile 4	7.51	7.55	7.54	7.53	7.50	7.60	N/A	N/A	1.00	0.99	N/A	N/A
Decile 5	8.45	8.50	8.51	8.51	8.40	8.50	N/A	N/A	1.01	1.00	N/A	N/A
Decile 6	9.43	9.48	9.49	9.47	9.40	9.40	N/A	N/A	1.00	1.01	N/A	N/A
Decile 7	10.51	10.56	10.55	10.57	10.50	10.50	N/A	N/A	1.00	1.01	N/A	N/A
Decile 8	11.82	11.85	11.88	11.87	11.90	11.70	N/A	N/A	0.99	1.01	N/A	N/A
Decile 9	13.68	13.70	13.73	13.73	13.80	13.80	N/A	N/A	0.99	0.99	N/A	N/A
Decile 10	21.69	21.30	21.36	21.46	22.40	22.00	N/A	N/A	0.97	0.97	N/A	N/A
Median	24,855	25,237	25,605	26,374	25,490	25,456	N/A	N/A	0.98	0.99	N/A	N/A
Mean	26,459	26,729	27,112	27,887	28,683	28,611	N/A	N/A	0.92	0.93	N/A	N/A
Gini	25.19	24.75	24.90	25.09	26.50	25.70	N/A	N/A	0.95	0.96	N/A	N/A
S80/20	3.43	3.36	3.39	3.43	3.72	3.58	N/A	N/A	0.92	0.94	N/A	N/A

**Table A3.8. At-risk-of-poverty rates (%) by gender and age**

	EUROMOD				External				Ratio			
	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
<b>40% median HDI by gender</b>												
Total	0.59	0.58	0.65	0.70	1.70	1.70	N/A	N/A	0.35	0.34	N/A	N/A
Males	0.80	0.77	0.86	0.92	2.10	2.00	N/A	N/A	0.38	0.39	N/A	N/A
Females	0.39	0.39	0.44	0.48	1.40	1.30	N/A	N/A	0.28	0.30	N/A	N/A
<b>50% median HDI by gender</b>												
Total	3.32	3.30	3.46	3.68	5.10	4.00	N/A	N/A	0.65	0.83	N/A	N/A
Males	3.86	3.89	3.95	4.25	5.50	4.30	N/A	N/A	0.70	0.90	N/A	N/A
Females	2.80	2.74	2.99	3.12	4.70	3.80	N/A	N/A	0.60	0.72	N/A	N/A
<b>60% median HDI by gender</b>												
Total	10.74	10.53	10.83	11.32	12.20	10.80	N/A	N/A	0.88	0.98	N/A	N/A
Males	11.13	10.93	11.10	11.59	12.40	11.00	N/A	N/A	0.90	0.99	N/A	N/A
Females	10.37	10.14	10.57	11.07	12.10	10.50	N/A	N/A	0.86	0.97	N/A	N/A
<b>70% median HDI by gender</b>												
Total	20.88	20.84	21.14	21.40	22.00	20.50	N/A	N/A	0.95	1.02	N/A	N/A
Males	20.16	20.06	20.36	20.49	21.20	19.00	N/A	N/A	0.95	1.06	N/A	N/A
Females	21.59	21.61	21.88	22.27	22.80	22.10	N/A	N/A	0.95	0.98	N/A	N/A
<b>60% median HDI by age group</b>												
0-15 years	10.71	10.13	10.46	11.27	11.60	8.90	N/A	N/A	0.92	1.14	N/A	N/A
16-24 years	19.26	19.22	19.29	19.79	21.50	20.70	N/A	N/A	0.90	0.93	N/A	N/A
25-49 years	9.54	9.27	9.47	9.87	9.60	7.80	N/A	N/A	0.99	1.19	N/A	N/A
50-64 years	9.06	9.10	9.24	9.63	9.60	9.10	N/A	N/A	0.94	1.00	N/A	N/A
65+ years	10.15	10.00	10.63	11.12	13.90	12.70	N/A	N/A	0.73	0.79	N/A	N/A