# EUROMOD Country Report

# POLAND (PL) 2020-2023

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EUROMOD version I6.0+

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 Poland. 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 I6.0+. 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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ANNEX 3. VALIDATION TABLES

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# **1. BASIC INFORMATION**

# **1.1** Basic information about the tax-benefit system

- The tax and benefit system in Poland is a unified national system. Local governments have some discretion over agricultural tax, real estate tax, tax on means of transport and some other charges like duty on possession of dogs which is levied on the dog owners.
- The fiscal year runs from 1<sup>st</sup> of January to 31<sup>st</sup> of December. The family benefits allowance period runs from 1<sup>st</sup> November to 31<sup>st</sup> October of the following calendar year for which the right to family benefits is granted.
- The state pension age in years 2005-2012 was 65 years for men, and 60 years for women. Beginning from January 2013 the state pension age started to grow gradually to reach 67 for men (born after 30.09.1953) and women (born after 30.09.1973). In 2017 the old retirement age was restored with the reform taking effect on 01.10.2017. Thus, the statutory retirement age is still 60/65 for women/men.
- Education in Poland is compulsory until the age of 18.
- Dependent child definitions are given in: The Natural Persons' Income Tax Act (*Ustawa* o podatku dochodowym od osób fizycznych), Family Benefits Act (*Ustawa* o świadczeniach rodzinnych) and State Support in Child-rearing Act (*Ustawa* o pomocy państwa w wychowywaniu dzieci).
- According to The Natural Persons' Income Tax Act dependent children are children:
  - a. aged less than 18;
  - b. who claim nursing benefit or nursing supplement or social pension irrespective of age;
  - aged less than 25 and in education if their taxable income during given tax year was below 12 times the amount of social pension (16061.28 PLN in 2022, 19061.28 PLN in 2023)
- Family Benefits Act defines a child as someone who is neither a parent nor married:
  - a. aged less than 25 and income dependent on parents;
  - b. aged 25 or more and possessing a medical certificate confirming severe disability if relative of such child claims nursing allowance or special nursing allowance due to taking care of such child.
- Lone parents are unmarried, widowed or divorced parents, rising their dependent children without help of any cohabitant partner
- Large families are defined as families with three or more children eligible for family benefit
- Spouses may tax their income jointly. They may pool their incomes and divide by two to determine the appropriate tax brackets. After the tax is calculated it is then multiplied by two. Lone parents can take advantage of joint taxation too. They are allowed to tax their income jointly with one of their children on similar rules as spouses do.
- Capital income is taxed at a flat rate of 19%. Farmers pay agricultural tax that is based on farm size and quality of the land area. Self-employment income may be taxed in one

of three different ways, with more than 54%<sup>1</sup> of the self-employed paying income tax according to the general progressive system.

- All individuals who earn an income need to file a tax return unless the only source of income is from a pension or if the individual is a farmer without non-farm work income.
- In the polish PIT system, tax bands and tax credits are not subject to indexation regime taking account of inflation. However, the values of: old-age pensions, disability pensions, survivor pensions, nursing supplement, as well as pre-retirement benefit, pre-retirement allowance, social pension, housing benefit and unemployed benefit, are subject to indexation meant to take into account the effect of inflation. Indexation of those benefits is conducted once per year in March.
- The values of family benefits and social assistance, as well as income thresholds used in means tests for the purpose of those benefits are verified once every three years. The verification process may result in indexation of benefits values and thresholds, however this is not compulsory and sometimes (i.e. 2009) the values might be kept unchanged. The indexation must account for change in the value of social minimum threshold which is set by the Institute of Labour and Social Studies. Indexation of social assistance is conducted in October while family benefits are indexed in November. The last audit of family allowance with supplements took place in 2021 and it resulted in the proposal of freezing family allowance values (apart from the care allowance, which has been increased) in consecutive years from November 2021 to October 2024. The last audit of allowances from social assistance which took place in 2021 increased thresholds and most benefits values and assumes those values to be fixed until the next verification in 2024.
- The means-tested benefit system determines entitlement using two values. For family benefits, the previous year's taxable income of the benefit unit is considered while for housing benefit, the value of the previous 3 months income of the benefit unit is considered. Eligibility for social assistance is determined based on both income and wealth evaluation (the latter is carried out by representatives from the local social assistance office).

# 1.2 Social benefits

# **Contributory benefits**

**Old-age pension** *(świadczenie emerytalne):* contributory benefit to workers who have attained the statutory retirement age conditional on contributory and non-contributory period. Pension amount varies with amount and years of contribution and is guaranteed not to be below a specified minimum level. Since January 2013 the statutory retirement age was gradually raised from the initial level of 65 (60) years for men (women) and was intended to reach 67 years for men in 2020 and women in 2040. In June 2017 the statutory retirement age value was 66 years and 3 months (61 years and 3 months) for men (women). Eligibility to old-age pension is conditioned on length of contributory and non-contributory period. Until 2013, contributory and non-contributory period amounted to 25 years for men and 20 years for women. After reform implemented in 2013 contributory period for women was aimed to reach 25 years in year 2022. In June 2017 minimum required contributory and non-contributory period for women was 22 years. Beginning from October 2017 the state pension age moved back to 65 (60) for men (women).

**Earlier old-age pension** *(świadczenie emerytalne):* men (women) born before 1st of January 1949 who have remained in employment relationship may acquire the full old-age pension at the

<sup>&</sup>lt;sup>1</sup> Source: Own calculations using: Central Statistical Office (2016a), Ministerstwo Finansów (2016c)

age of 60 (55) years if they can prove at least 35 (30) year long contributory and non-contributory period or 25 (20) year contributory and non-contributory period and have been recognised as completely incapable of work. The same qualification rules for earlier old-age pension apply to women who were born after 31st of December 1948 and before 1st of January 1953.

**Bridging old-age pension** (*emerytura pomostowa*): the bridging pensions system that came into force from 2009 assumes that people working in special conditions have the right to receive a bridging pension up to five years before reaching retirement age.

**Ex-officio old-age pension** *(emerytura z urzędu):* was introduced on 01.01.2006. The ex-officio pension is granted to a person born before 01.01.1949 who is a recipient of the disability pension, irrespective of whether this person meets the condition of the contributory and non-contributory period.

**Nursing supplement** (*dodatek pielęgnacyjny*): is paid to old-age pensioners who are aged 75 and above and to pensioners with severe disability.

**Pre-retirement benefits and allowances** (*zasilek przedemerytalny lub świadczenie przedemeytalne*): are financed by the Labour Fund and payable to individuals after at least 6 months of receiving unemployment benefit who have the status of unemployed and satisfy specific requirements concerning age and employment history.

**Disability pension** (*renta z tytułu niezdolności do pracy*): contributory benefit granted following a work accident or an occupational disease irrespective of duration of accident insurance period and date of incapacitation.

**Survivor's pension** (*renta rodzinna*): contributory benefit paid to eligible survivor(s) of a deceased person if the deceased met the contributory conditions.

**Thirteenth and fourteenth pensions** (*trzynasta i czternasta emerytura*): additional minimum pension to paid out once per year. The thirteenth pension is granted to anyone receiving a pension, while the fourteenth pension has an additional means-test.

**Maternity benefit** (*zasilek macierzyński*): is granted to an insured woman who within the period of sickness insurance or within the period of child care leave: gave birth to a child, took in a child under 1 year of age and applied for legal adoption or took in a child under 1 year of age to be raised in a foster family. The right to the maternity benefit is also awarded to an insured man who took a child to be brought up, under the similar rules, as those applied to insured women.

**Sickness allowances** (*zasilek chorobowy*): payments for periods of incapacity for work caused by an illness, accident or isolation due to an infectious disease. Sickness allowances are payable to employees starting from the 34<sup>th</sup> day of incapacity for work (continuous or otherwise) in a calendar year or from the 15<sup>th</sup> day (respectively) if the employee has reached age of 50 years. If the incapacity for work was caused by accident at work or occupational disease, sickness allowance is payable from the first day of incapacity for work. Sickness allowance is payable for the period in which a person is unable to work, however this period cannot exceed 182 days; and in case of incapacity for work caused by tuberculosis cannot exceed 270 days. From the 1<sup>st</sup> of January 2009 insured women have the right to the allowance (for a period not exceeding 270 days) if incapacity for work occurred during the period of pregnancy.

**Health rehabilitation benefits** (*świadczenie rehabilitacyjne*): granted to an insured person who has exhausted their entitlement to sickness allowance, but there is a good prognosis as to the restoration of their earning capacity. Rehabilitation benefits are disbursed in the form of monthly payments for a period not exceeding 12 months. A decision to grant health rehabilitation benefit is made by a doctor that is licensed to issue declarations of work capacity.

**Compensatory allowances** (*zasilek wyrównawczy*): granted to employees whose remuneration has been reduced as a result of occupational rehabilitation undertaken in order to adapt or retrain for a specific job. Only insured employees are entitled to the compensatory allowance. Compensatory allowance is financed by the Social Insurance Institution (ZUS) and can be paid directly by ZUS or through the employer.

**Care allowances** (*zasilek opiekuńczy*): payable to persons who are unable to work, because they have to take care of a sick child of up to 14 years of age or, in some cases, of a healthy child of up to 8 years of age, or another sick member of the family. These allowances are only available to persons who are subject to mandatory sickness insurance. In case of child care older than 14 years or in the event of taking care of other sick members of the family, the allowance is payable during a period of release from work, however it cannot be longer than 14 days per year. The total payment period of care allowance in respect of care of children and other family members may not exceed 60 days per year.

**Funeral grant** (*zasilek pogrzebowy*): is aimed at covering costs of funeral of insured persons, pensioners, retirees or recipients of pre-retirement allowances or benefits and members of their families.

**Unemployment benefits** (*zasilek dla bezrobotnych*): is granted to unemployed persons who have lost a job and met certain conditions over at least 365 days in the period of 18 months before the day of registration in the labour office. The conditions include contributory work requirements and active job search.

# **Family benefits**

**Family allowance** (*zasilek rodzinny*): means-tested grant to families that have dependent children. The Family allowance is paid until the child finishes education (usually to the age of 18). If the child continues education at school or university the allowance is paid until the age of 24. Family benefits are not taxable. In addition to the family allowance, the following supplements may also be granted:

**a**) **Supplement for child birth** (*dodatek z tytułu urodzenia dziecka*): a one-time lump sum grant paid upon the birth of a child.

**b) Parental leave supplement** (*dodatek z tytulu opieki nad dzieckiem w okresie korzystania z urlopu wychowawczego*): a supplement granted to a parent, factual or statutory guardian of a child, who takes parental leave to take care of at least one child aged 6 years or less. Supplement is payable within period of 24, 36 or 72 months at a monthly rate.

c) Supplement for lone parents who do not receive alimony payments (*dodatek z tytułu* samotnego wychowywania dziecka i na które nie ma możliwości zasądzenia alimentów): supplement paid to a lone parent who does not get alimony payments. The supplement has been paid since 01.09.2005

**d**) **Supplement for education and rehabilitation of a disabled child supplement** (*dodatek z tytulu kształcenia i rehabilitacji dziecka niepełnosprawnego*): is granted to the parent or guardian of a disabled child until the child attains the age of 16 years or 24 years if the disability is severe or moderate.

e) Supplement for bringing up a child in a multi-child family (*dodatek z tytułu wychowywania dziecka w rodzinie wielodzietnej*): the supplement is payable for the third and each subsequent child entitled to the family allowance.

**f**) **Supplement for starting the school year** (*dodatek z tytułu rozpoczęcia roku szkolnego*): the supplement is payable for each child in primary and secondary school;

**g)** Supplement for starting school outside the place of residence (dodatek z tytułu podjęcia nauki w szkole poza miejscem zamieszkania): the supplement is payable at monthly rate for 10 months (from September to June) if the child takes up education in a school outside of the place of residence.

Since January 2016 the amount of family allowance with its supplements is gradually withdrawn as income of a family increases above the income threshold.

Further components of family benefits include:

**Nursing benefit** (*zasilek pielęgnacyjny*): a benefit granted to a handicapped child, a handicapped person over 16 years of age who possess a medical certificate confirming severe disability, or to a person who is over 75 years old and is not eligible for the nursing supplement. The benefit may also be granted to a person older than 16 years of age with a medical certificate of moderate degree of disability if the disability occurred before the person reached the age of 21. The benefit is not granted to a person who is staying at an institution providing full time care if the services provided by the institution are financed by the state or the National Health Fund.

**Nursing allowance** (*świadczenie pielęgnacyjne*): a benefit granted to a parent, a factual or statutory guardian, who resigns from employment or other paid job in order to take care of a child possessing a certificate confirming his/her disability. It used to be a means tested benefit but since 1.01.2010 it has become a universal benefit. Since 2013 the eligibility criteria for nursing allowance are limited to parents of those children whose disability occurred before becoming 18 (or 25 in case of children that continued their education after 18<sup>th</sup> year of life).

**Special nursing allowance** (*specjalny zasilek opiekuńczy*): this benefit is addressed to those individuals who resign from employment or other paid job in order to take care of a dependant relative with valid certificate that confirms his/her disability. To become eligible one has to meet the income criterion which is calculated for the sum of income in both of families: the family of person that is taking care of disabled relative and of a family that person requiring care is staying with.

**Child birth allowance** (*jednorazowa zapomoga z tytulu urodzenia się dziecka*): one-off means tested benefit for parents of newly born children.

**Parental allowance** (*świadczenie rodzicielskie*): this benefit supports those parents of new born children that are not eligible to maternity leave allowance: students, employees on civil contracts (who have not paid sufficient social insurance contributions), individuals insured in Agricultural Social Insurance Fund (KRUS) or unemployed. The benefit amount is 1000 PLN per month, paid for the period of 52 weeks if the mother gave birth to one child and up to 71 weeks if mother gave birth to quintuplets.

### **Alimony support**

**Alimony advance** (*zaliczka alimentacyjna*): a payment made to lone parents for whom the court adjudicated the alimony, the execution of which was ineffective. The alimony advance was exempted from personal income tax and was not subject to an administrative and civil law execution. Alimony advance was paid from September 2005 to September 2008. In October 2008 it was replaced by grants from the alimony fund.

**Grant from alimony fund** (*świadczenie z funduszu alimentacyjnego*): is paid in situations in which the court was unable to obtain alimony from the absent parent. The alimony fund was closed down on 1<sup>st</sup> May 2004 and brought back in October 2008.

# **Housing support**

**Housing benefit** (*dodatek mieszkaniowy*): alongside social assistance and family allowance it is the main element of the system of public support for the poor in Poland. It is a means tested non-contributory benefit granted to families based on the size of their home and number of people in the household. The local government has some discretion over classification of housing costs for the purpose of determining the eligibility levels.

# Social assistance

**Social pension** (*renta socjalna*): provides compensation to individuals who are completely incapable to work due to an impairment of bodily functions which occurred before attaining the age of 18, or before attaining the age of 25, if the person concerned was still in education, e.g. university or other graduate and post-graduate studies.

**Social assistance** (*pomoc społeczna*): this is the main social assistance scheme in Poland. It is a non-contributory benefit for households that have insufficient resources while also meeting some specific social criteria. It is intended to benefit orphans, the disabled, unemployed, homeless, the chronically sick, pregnant women and those generally in poverty. Rules and general guidelines are set at the national level but benefit amounts are partly subject to the discretion of the local social assistance office and resources. The benefit is non-taxable and constitutes a 'safety net'. There are three main elements of the social assistance system: permanent compensation benefit, temporary social benefit and special purpose benefit in case of special circumstances. The social assistance benefits can also be divided into two groups: mandatory (obligatory) and non-mandatory (facultative) benefits.

- a) **Permanent compensation benefit** (*zasilek staly*): is an obligatory allowance granted to a person who is unable to work due to disability or age, and who does not qualify for social insurance payments or invalidity pension.
- **b) Temporary social assistance benefit** (*zasilek okresowy*): a grant made to a household that is experiencing financial problems caused by unemployment, prolonged illness(es), or disability and that have incomes lower than the social assistance threshold. The maximum amount of temporary social allowance is determined as the difference between the income criterion and income before receipt of TSA.
- c) Special circumstances benefit (*zasilek celowy*): is a facultative allowance paid in case of unforeseen events like natural disasters.

### **Childcare allowance (Family 500+ benefit)**

**Childcare allowance** (*świadczenie wychowawcze*): a benefit which is intended to give financial support to child rearing for families with children aged less than 18 years old. Implemented in April 2016, the allowance was a universal payment of 500PLN per month for every second child and any subsequent children. The allowance for the first child in the family (within the age range) was means-tested on total per capita family income (which excluded family benefits, housing support and social assistance benefits). In July 2019 the benefit was expanded to the first child in the family and means testing is abolished.

### Family care allowance

**Family care allowance** (*rodzinny kapital opiekuńczy*): universal benefit of 500 PLN per month for 2 years or 1000 PLN per month for 1 year paid for each second and subsequent child between

the ages of 12-35 months, with the aim of helping parents return to work. The benefit is exempt from taxation.

# Start of school year allowance (Good Start)

**Start of school year allowance** (*świadczenie Dobry Start*): universal benefit paid once a year for children up to the age of 20, starting the school year. Disabled children at school will receive it until they are 24 years of age. The amount of the benefit is 300 PLN. The benefit is exempt from taxation.

# **Employers' sickness benefit**

**Sickness benefit** (*zasilek chorobowy*) is payable to employees by the employer for the first 33 days of their sickness period.

# **1.3** Social contributions

There are separate social security systems for non-farmers and farmers. Social security contributions in the non-farm system are used to finance current *contributory benefits* as well as other *non-contributory benefits*. The contributions are divided into the employee and the employer parts and are used to finance: old-age pension insurance, disability and survivors' pension insurance, sickness and maternity insurance, work and occupational illness insurance and unemployment benefits. Most of these contributions fall within the auspices of Social Insurance Fund (Fundusz Ubezpieczeń Społecznych - FUS) that is part of Social Insurance Institution (Zakład Ubezpieczeń Społecznych - ZUS).

Farmers contribute to retirement and disability pension insurance and to accident, illness, maternity insurance and health insurance. Contributions are paid to Farmers Social Insurance Institution (Kasa Rolnicznego Ubezpieczenia Społecznego – KRUS).

**Old-age pension insurance** (*składka emerytalna*): this contribution is divided equally into the employers' and employees' parts. The self-employed also contribute, while in the case of an unemployed person who receives unemployment benefits, contributions are retained from the benefits. Contributed amounts are determined on the basis of gross income from work for employees with permanent job contracts. For employees with temporary job contracts, the obligation to make this contribution may depend on other factors.

**Disability insurance** (*składka rentowa*): up until June 2007 this contribution was made in equal parts by both employers and employees. In July 2007 and January 2008 these contributions were reformed and the employee and employer rates currently differ. Contributions are also withheld from unemployment benefits. Disability insurance guarantees benefits in case of loss of income due to disability.

**Sickness insurance** (*skladka chorobowa*): contribution made by employees to finance contributory sickness benefits. The self-employed may contribute voluntarily. Obligatory sickness insurance gives right to receive insurance and sickness allowance after 30 days of continuous sickness insurance.

**Work accident insurance** (*składka wypadkowa*): contribution made by employers on the basis of the degree of accident risk faced by employees.

**Labour Fund** (*Fundusz Pracy*): contributions made by employers to finance unemployment benefits, pre-retirement allowances and vocational activation programmes for people looking for work and/or people threatened by job loss.

**Health insurance** (*powszechne ubezpieczenie zdrowotne*): contributions made to finance benefits that cover preventive, diagnostic, therapeutical and rehabilitation costs. Practically all social groups are covered by obligatory health insurance. Health insurance gives the right to medical care which ensures health protection, disease and contusions prevention, early detection of illnesses as well as disability prevention.

**Farmer's old-age and disability insurance** (*skladka emerytalno-rentowa rolników*): contribution made by farmers in each quarter of the year, at a rate of 10% - 58% of the basic monthly old age pension depending on the size of the farm.

**Farmer's accident, sickness and maternity insurance** (*składka na ubezpieczenie wypadkowe, chorobowe i macierzyńskie*): contribution made by farmers at a quarterly rate fixed by the *Farmers' Social Insurance Council* towards expenditures associated with accident, sickness and maternity benefits and prevention and rehabilitation costs.

**Farmer's health insurance** (*składka na ubezpieczenie zdrowotne rolników*): remains one of changes introduced in Polish social security system in January 2012, since then farmers are obliged to pay health insurance contributions that are deducted quarterly and calculated on monthly amount basis.

# 1.4 Taxes

**Personal income tax** (*podatek dochodowy od osób fizycznych*): personal income tax is imposed on individual incomes at progressive rates of 12% and 32% from January 2022 (October 2019-December 2021 17% and 32%, January 2009 - September 2019 18% and 32%, and prior to this a 3-rate level was in operation: 19%, 30% and 40%). Since October 2019 employment income up to the threshold of 85528 PLN for anyone under the age of 26 is income tax exempt. A couple or a single parent may file taxes jointly, provided that for the whole tax year they did not earn income subjected to flat-rate taxation (an option available to the self-employed). A single parent or a couple making a joint tax declaration are allowed to set half of their taxable income against the tax schedule and then multiply the resulting tax due by two. Personal income tax however, does not apply to agricultural and self-employment incomes. Besides that, income from some other sources such as investments, incomes from property rent, interests, dividends or capital gains is taxed separately on a lump-sum basis.

**Agricultural tax** (*podatek rolny*): is levied on ownership, co-ownership, possession and copossession of agricultural arable lands or woods. Lands on which the agricultural tax is imposed are classified in the Register of Lands and Buildings. The tax base differs depending on whether land belongs to a farm or not. In case of farm land it is the number of *conversion hectares* (calculated on the basis of actual area, kind and quality of land and location in one of four tax zones, set depending on economic and climatic conditions of agricultural production). For other land it is the number of hectares.

**Real estate tax** (*podatek od nieruchomości*): is imposed on ownership, co-ownership, possession and co-possession of land, buildings, building structures and construction devices. Agricultural and forest lands do not fall within the scope of taxation. The tax base differs depending on the kind of real estate. Rates of real estate tax are set by the appropriate community council but rates cannot exceed statutory limits.

**Forestry tax** (*podatek leśny*): levied on forest land classified by the Register of Land and Building as forests, except for forests up to 40 years old, forests enlisted as relics or forests used for carrying out economic activities other than those connected with forestry. The tax base is the area of woodland given in hectares.

**Tax card** (*karta podatkowa*): lump-sum tax from small-scale entrepreneurial activities in craft and retail trade. The tax office (*Urząd Skarbowy*) decides which enterprise/activity qualifies to pay taxes under this rule.

**Lump sum tax from registered revenues** (*zryczałtowany podatek dochodowy od przychodów*): is applied to selected registered revenues and may be paid by taxpayers who in the previous year raised revenue from an economic activity at the amount not exceeding 2 million euro (9 654 400 PLN). The lump-sum tax rates differ depending on the kind of revenues received. Regardless of the revenue, the lump sum tax on registered revenue is levied on taxpayers who start carrying out a given activity in the tax year and are not taxed in the form of tax card.

**Tax on goods and services** (*podatek od towarów i usług VAT*): imposed on the supply of goods and services at each state of production and distribution process. Until December 2010 the basic rate was 22% and in 2011 it was raised to 23%, which is applied to most goods and services. Reduced rates apply to some categories of goods with the lower rate applying particularly to unprocessed or semi-processed products of agriculture, forestry, hunting and fishery. The 0% VAT rate is temporarily used for food products with foregoing 5% VAT rate in regard to anti-inflation shield (*tarcza antyinflacyjna*).

**Gambling tax** (*podatek od gier losowych*): is levied on revenues from activities related to the establishment and performance of gambling and mutual bets. Taxable base and rates differ depending on the kind of conducted gambling activities. Rates range from a low of 2% for revenues from mutual bets on competition of animals to 45% for casino gambles and machine/video lotteries.

**Solidarity tax** (*danina solidarnościowa*): is an additional tax rate of 4% for incomes exceeding 1 million PLN. It was introduced in 2019.

# 2. SIMULATION OF TAXES AND BENEFITS IN EUROMOD

# 2.1 Scope of simulation

In Table 2.1 benefits included in EUROMOD are divided into imputed ones, partially simulated, simulated and excluded ones. The lack of detailed information on contribution history is the main reason why values of some benefits are imputed from the dataset. In Table 2.2 taxes and social contributions are presented.

	Variable name(s)	Treatment in EUROMOD			Why not fully simulated?	
		2020	2021	2022	2023	
COVID compensation scheme (ee)	bwkmcee_s	S	-	-	-	Policy implemented in response to the COVID outbreak
COVID compensation scheme (se)	bwkmcst_s	S	-	-	-	Policy implemented in response to the COVID outbreak
Old-age pension	poa00	Ι	Ι	Ι	Ι	No data on contribution history
Disability pension	pdi00	Ι	Ι	Ι	Ι	No data on contribution history
Survivor's pension:	psu00	Ι	Ι	Ι	Ι	No data on contribution history
Pension for mothers of 4 or more kids	poa04_s	S	S	S	S	Partially imputed, no data on number of children
Thirteenth pension	boa13_s	S	S	S	S	

# Table 2.1 Simulation of benefits in EUROMOD

Fourteenth pension	boa14_s	-	S	S	S	
COVID SSC	bksic_s	S	-	-	-	Policy implemented in response to
exemption (ee)	UKSIC_5	3	-	-	-	the COVID outbreak
COVID SSC	bksicer_s	S	-	_	_	Policy implemented in response to
exemption (er)		5				the COVID outbreak
COVID SSC	bksesic_s	S	-	-	_	Policy implemented in response to
exemption (se)						the COVID outbreak
Unemployment benefits	bun_s	PS	PS	PS	PS	Eligibility and amount depend on contribution history. Simulation takes eligibility from data
Pre-retirement benefit and pre-retirement allowance	pyr	Ι	Ι	Ι	Ι	No data on contribution history
Maternity benefit	bma	Ι	Ι	Ι	Ι	No data on contribution history
Sickness benefit	bhl	I	I	I	I	No data on contribution history
Care benefit		Е	Е	Е	Е	No data on contribution history
Compensatory		E	Е	Е	Е	No data on contribution history
allowances						
Funeral benefit	psuot	Ι	Ι	Ι	Ι	No data on contribution history
Rehabilitation benefits	psuot	Ι	Ι	Ι	Ι	No data on contribution history
Social pension	pdinw	Ι	Ι	Ι	Ι	No data on disability history
Nursing supplement	poacm_s	S	S	S	S	
Nursing benefit	pdiuc_s	S	S	S	S	
Family allowance	bch00_s	S	S	S	S	
Supplement due to taking care of a child during childcare leave (childcare leave allowance)	bcc	Ι	Ι	Ι	Ι	No data on work history
Supplement for lone parents	bchlp_s	PS	PS	PS	PS	Eligibility from data
Supplement for child birth	bchba_s	S	S	S	S	
Supplement for large families	bchlg_s	S	S	S	S	
Supplement for starting the school year	bched_s	S	S	S	S	
Supplement for education outside place of living	bchot	Ι	Ι	Ι	I	No data on place of living
Supplement for education or rehabilitation of disabled child	bchdied_s	S	S	S	S	
Child birth allowance	bchuc_s	-	-	-	-	
		S	S	S	S	
Nursing allowance	bcrdi_s	PS	PS	PS	PS	Eligibility based on declaration of positive number of months of benefit take-up in the database
Special nursing allowance	bdinc_s	PS	PS	PS	PS	No data on persons taking care of family member from outside the household

Parental allowance	bchba01_s	S	S	S	S	
Housing benefits	bho_s	S/PS	S/PS	S/PS	S/PS	Eligibility from data or full simulation
Permanent social assistance	bsapm_s	S	S	S	S	
Temporary social assistance	bsatm_s	S	S	S	S	Eligibility is based on the wealth test
Childcare allowance	bchcc	S	S	S	S	
Family care allowance	bchfm	-	-	S	S	
Start of school year allowance	bed00	S	S	S	S	
Special circumstances social assistance	bsaot	Ι	Ι	Ι	Ι	

Notes: "-": policy did not exist in that year; "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 2.2 Simulation of taxes and social contributions in EUROMOD

	Variable	Treat	ment in	EURO	OMOD	Why not fully simulated?
	name(s)	2020	2021	2022	2023	
Personal income	tin_s	S	S	S	S	
tax						
Corporate income		Е	Е	Е	Е	No information available
tax						
Agricultural	tag_s	S	S	S	S	
income tax						
Forestry tax		Е	Е	Е	Е	No information available
Tax card and		E	Е	Е	Е	No information available
lump-sum revenue						
Gaming tax		E	Е	E	Е	No information available
Tax on goods and		E	Е	E	Е	No information available
services - VAT						
Excise duty		Е	Е	Е	Е	No information available
Old-age insurance		PS	PS	PS	PS	Amounts contributed by the central
						government from benefits are not taken
						into account (except unemployment
						benefit)
Disability		PS	PS	PS	PS	Amounts contributed by the central
insurance						government from benefits are not taken
						into account (except unemployment
						benefit)
Sickness insurance	tsceehl_s	S	S	S	S	
Work accident	tscerac_s	S	S	S	S	
insurance	tscerac_s					
Fund of	tscerei_s	S	S	S	S	
Guaranteed						
Employee Benefits						
Labour Fund	tscerui_s	S	S	S	S	
Health insurance	thl_s	PS	PS	PS	PS	Amounts contributed by the central
						government from benefits are not taken
						into account (except unemployment
						benefit)

Notes: "-" policy did not exist in that year; "E" policy is *excluded* from the model's scope as it is neither included in the microdata nor simulated by EUROMOD; "PS" policy is *partially simulated* as some of its relevant rules are not simulated; "S" policy is *simulated* although some minor or very specific rules may not be simulated.

During the period from 2020 to 2023 the following structural changes of simulated policies occurred:

- From July 2021 new rules of housing benefit means-testing. 30% (40% for one-person household) of average income is the means-tested threshold (the other two compulsory requirements are still the area of the house and the type of property). The amount of housing benefit is a sum of specific costs (adjusted to the house area limit) decreased by the adequate percentage (depends on the number of household members) of a sum of specific incomes. There is no longer an increase in this percentage, which depended on the income level (100% or 150% of the minimum pension). Since July 2021 there are three (15% for 1 person, 12% for 2-4 people, 10% for 5+ people) instead of six rates.
- From October 2021 pensioners meeting the means-test criteria are eligible for one additional pay-out equivalent to the minimum pension ("fourteenth pension").
- Since January 2022 the bottom personal income tax rate decreased from 17% to 12% (the reform was implemented in July, but will be applied retroactively to income since January). The tax-free allowance increased to 30,000 PLN per year and the threshold for the upper tax bracket increased to 120,000 PLN per year. HI is no longer deductible from the income tax.
- Since January 2022 parents of children between the ages of 12 and 35 months receive an additional 500 PLN per month for each second and subsequent child.

# 2.2 Order of simulation and interdependencies

Table 2.3 shows the order of simulation of Polish tax-benefit system in EUROMOD. Structural changes of policies in 2020-2023 included in the model's spine are reflected by on/off marks. The majority of policies are being simulated throughout the whole given period with exception one policy introduced in 2021: the the fourteenth pension. COVID response policies were only in place in 2020. Two EUROMOD modules: yem\_pl, output\_hh\_pl are switched off in the baseline.

At the very beginning of the model's spine, policy ConstDef\_pl defines as constants monthly minimum wage, standard number of hours work per week and, tax-free amount. Further, the uprating factors, income lists and tax units are defined. Right after, negative values of self-employment income are recoded as zero. The policy yem\_pl which in baseline is switched off makes possible the evaluation of applying minimum wage to all individuals reporting employment income below the existing minimum wage.

In 2020 the model includes additional policies simulating the response to COVID. They begin with the allocation of income losses for workers based on sectoral demand shocks, and their coverage by the wage compensation schemes implemented in response to COVID. Yemcomptime\_pl allocates the amount of time a worker will spend in one of the available schemes (from 0 to 3 months), followed by yemcomp\_pl which calculates the amount of the benefit for each worker. Following are recalculations of income resulting from reduced employment hours or furlough in yemadj\_pl. The same is applied for the self-employed in yemcompst\_pl, yemadt\_pl and yemads\_pl. Workers are then divided between furlough and the reduced hours scheme at random. Revenue losses are simulated for the additional option of retaining pre-COVID working hours while receiving financial support from the government to cover employment costs.

Because of the fact that unemployment benefit is subject to social security contributions, the unemployment benefit values are simulated before social security contributions. Social security contributions are calculated prior to personal income tax. Social security contributions for individuals with permanent or temporary contracts for both employee's and employer's parts of insurance are worked out in separate policy modules:  $sic_ee_pj_pl$ ,  $sic_er_pj_pl -$  for individuals with temporary contract.

For employee SSC and self-employed SSC COVID response exemptions of SSC payments for employees with lost hours in employment or in small firms are modelled in sic\_covid\_pl and sic\_se\_covid\_pl.

The policies simulating response to COVID 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\_pl 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.

The farmers' social security contributions and health insurance contributions, which are domain of Agricultural Social Insurance Fund are calculated in policies sic\_fr\_pl and tax\_hl\_fr\_pl. Health insurance for farmers was introduced in February 2012.

This is followed by the thirteenth pension and the fourteenth pension, ben\_13pen\_pl and ben\_14pen\_pl, which must be included in the tax base. Subsequently, ben\_pen04\_pl is imputed based on eligibility criteria and external statistics. Since we don't know how many children a pensioner had in their lifetime, we select those women who have reached the age of retirement and do not receive a pension, and randomly assign the benefit.

Due to different treatment of self-employed conducting non-agricultural economic activity than employees on contracts & farmers, social security contributions for self-employed are computed in yet another policy module, namely sic\_se\_pl.

Next, in policy modules: sic\_ma\_ee\_pl, sic\_ma\_er\_pl calculations of social security contributions for maternity benefit claimants are carried out, while module sic\_un\_pl returns values of contributions for unemployment benefit recipients.

After social security contributions, taxation policy related modules begin. Firstly, capital income tax value is assessed (tax\_kt\_pl). Maximum value of potential health insurance tax credit is calculated in tax\_hl\_mx\_pl policy (it is not deductible starting with 2022). Personal income tax (PIT) base is the result of operations conducted in policy module tax\_it\_tb\_pl. If there is a choice to decide whether to tax jointly or separately, individual tax amount from the output of tax\_it\_it\_pl and tax\_it\_lin\_pl policies are compared with joint tax amount from output of tax\_it\_jt\_pl policy module. Optimisation is performed in policy tax\_it\_pl which returns final simulated value of PIT. Thereafter, health insurance contributions payable to National Health Fund are evaluated in tax\_hl\_pl policy module.

The last tax modelled in the spine – agricultural tax is calculated in tax\_ag\_pl policy. After agricultural tax, imputation of farmers' income for the purpose of social assistance is done in ben\_inc\_pl policy.

The first benefit simulated after social security contributions and income taxes is nursing supplement. It is simulated in policy pen\_ns\_pl prior to nursing benefit (ben\_nb\_pl) and family allowance (ben\_fa\_pl). It is because of the fact that to become eligible for nursing benefit individual cannot receive nursing supplement. Nursing supplement is simulated before family allowance because its value is included in means-test for family allowance. To claim family allowance supplements family must be eligible to family allowance, so it is natural order to simulate family allowance supplements (ben\_fas\_pl) after main family allowance (ben\_fa\_pl). Since 2016 family allowance with supplements is gradually withdrawn (tapered at 100%) as income used for the purpose of means-test increases (ben\_fatpr\_pl).

Since the income criterion to child birth allowance, which became a means-tested benefit in 2013, uses the same income concept as family allowance, which includes nursing supplement, it is logical to simulate child birth allowance (ben\_cb\_pl) after nursing supplement and family allowance with its supplements.

Next in order of simulation is nursing allowance (ben\_na\_pl) which cannot be claimed if a person receives unemployment benefit. After nursing allowance, special nursing allowance is calculated (ben\_sna\_pl). It has similar requirements as nursing allowance – claimant cannot receive unemployment benefit at the same time, and additionally it is means-tested benefit which uses income concept from family allowance.

Parental allowance is simulated in policy ben\_pa\_pl. An eligible parent who receives the unemployment benefit or maternity benefit which is lower than parental allowance value is granted with top-up of those benefits. Within tax unit take-up of family allowance supplement due to childcare leave, nursing allowance or special nursing allowance excludes the eligibility to parental allowance.

Later housing benefit (ben\_ho\_pl) is simulated because of income concept used as a mean-test which includes unemployment benefit, family allowance with its supplements, nursing benefit, special nursing allowance.

Permanent social assistance and temporary social assistance are simulated in policy ben\_sa\_pl. While means-test for permanent social assistance takes into account unemployment benefit,

family allowance with supplements, nursing benefit, nursing allowance, special nursing allowance and housing benefit, the income concept used in mean-test for the purpose of temporary social assistance includes additionally the value of permanent social assistance.

Childcare allowance (introduced in April 2016). This benefit used the same income concept as the family allowance for the purpose of means-testing. However, the childcare allowance is not used in income concepts of other benefits such as the family allowance, child birth allowance, nursing allowance, special nursing allowance, housing benefit or social assistance. This is why the childcare allowance is one of the last operations in the model. Since October 2019, the childcare allowance is no longer subject to means testing, and is granted to every child.

The family care allowance (2022) and the start of school year allowance (2018) are the last policies simulated. They are neither subject to taxation nor included in the income assessment for any other benefits. They are universal, and due to their lack of interactions with other policy elements are simulated at the end of the policy spine.

Described order of simulation is justified. Family allowance with supplements, special nursing allowance, housing benefits, social assistance and childcare allowance - all depend on net incomes after income tax due. They are therefore simulated after the simulation of income taxes and social security contributions.

		1	1	1	
Policy	2020	2021	2022	2023	Description of the instrument and main output
ConstDef_pl	on	on	on	on	DEF: Constants
setdefault_pl	on	on	on	on	DEF: SET DEFAULT
Uprate_PL	on	on	on	on	DEF: UPRATING FACTORS
ILsDef_PL	on	on	on	on	DEF: STANDARD INCOME CONCEPTS
ILSUDBDef_PL	on	on	on	on	DEF: UDB STANDARD Income concepts
ILDef_PL	on	on	on	on	DEF: OTHER INCOME CONCEPTS
random_pl	on	on	on	on	DEF: Random Assignment
TransLMA_pl	off	off	off	off	DEF: Modelling labour market transitions (DO NOT SWITCH ON; ONLY WORKS WITH THE LMA
TUDaf DI	on	on	on	on	ADD-ON) DEF: ASSESSMENT UNITS
TUDef_PL	on switch	on switch	on switch	-	
yem_pl				switch	INC: Minimum wage
neg_pl	on	on	on	on	DEF: recode negative self-employment income to zero
yemcomp_pl	on	off	off	off	BEN: Wage compensation scheme Covid-19
yemeomp_pr	<b>U</b>				(Dofinansowanie wynagrodzeń) (ONLY WORKING WITH LMA ADD-ON in 2020)
yemcompst_pl	on	off	off	off	BEN: max 2080 PLN for temporary workers and
J 1 1 -1					self-employed (Świadczenie postojowe) (ONLY
					WORKING WITH LMA ADD-ON in 2020)
bun_pl	on	on	on	on	BEN: Unemployment insurance
ben_13pen_pl	on	on	on	on	BEN: Thirteenth pension (trzynasta emerytura)
ben_14pen_pl	n/a	on	on	on	BEN: Fourteenth pension (czternasta emerytura)
ben_pen04_pl	on	on	on	on	BEN: Pension for mothers with 4 or more kids
					(Emerytura matki 4+)
sic_ee_pj_pl	on	on	on	on	SIC: Employee (permanent contract)
sic_er_pj_pl	on	on	on	on	SIC: Employer (permanent contract)
sic_ee_tj_pl	on	on	on	on	SIC: Employee (temporary contract)
sic_er_tj_pl	on	on	on	on	SIC: Employer (temporary contract)
sic_fr_pl	on	on	on	on	SIC: Farmer
sic_ee_cr_pl	on	n/a	n/a	n/a	SIC: credit SIC for workers affected by COVID
sic_er_cr_pl	on	n/a	n/a	n/a	SIC: credit SIC for employers affected by COVID
tax_hl_fr_pl	on	on	on	on	TAX: Farmer health contribution
sic_se_pl	on	on	on	on	SIC: Self-employed
sic_se_cr_pl	on	n/a	n/a	n/a	SIC: credit SIC for self-employed without workers
sic_ma_ee_pl	on	on	on	on	"SIC: Maternity Leave Recipients (""employee"")"
sic_ma_er_pl	on	on	on	on	"SIC: Maternity Leave Provider (""employer"")"
sic_un_pl	on	on	on	on	SIC: Unemployment benefit recipients
tax_kt_pl	on	on	on	on	TAX: Lump-sum Capital Income Tax
tax_hl_mx_ee_pl	on	on	on	on	TAX: Maximum Health Insurance - employees
tax_hl_mx_se_pl	on	on	on	on	TAX: Maximum Health Insurance - self-employed
tax_hl_mx_pl	on	on	on	on	TAX: Maximum Health Insurance
tax_it_tb_pl	on	on	on	on	TAX: Income Tax Base
tax_it_it_pl	on	on	on	on	TAX: Income Tax: Individual Taxation
tax_it_lin_pl	on	on	on	on	TAX: Income Tax: Individual Taxation: linear tax
tax_it_jt_pl	on	on	on	on	TAX: Income Tax: Joint Taxation
tax_it_pl	on	on	on	on	TAX: Income Tax: optimisation
tax_hl_pl	on	on	on	on	TAX: Health Insurance
tax_ag_pl	on	on	on	on	TAX: Agricultural tax
ben_inc_pl	on	on	on	on	BEN: Farmer Income imputation
pen_ns_pl	on	on	on	on	BEN: Nursing supplement (dodatek pielęgnacyjny)
ben_nb_pl	on	on	on	on	BEN: Nursing benefit (zasiłek pielęgnacyjny)

Table 2.3 EUROMOD Spine: order of simulation, 2020 – 2023

ben_fa_pl	on	on	on	on	BEN: Family allowance
ben_fas_pl	on	on	on	on	BEN: Family allowance supplements
ben_fatpr_pl	on	on	on	on	BEN: Family allowance with supplements
ben_cb_pl	on	on	on	on	BEN: Child birth allowance
ben_na_pl	on	on	on	on	BEN: Nursing benefit (children & adults - since 31st
ben_sna_pl	on	on	on	on	of August 2008, no longer means-tested since 2010) BEN: Special nursing allowance (specjalny zasiłek opiekuńczy)
ben_pa_pl	on	on	on	on	BEN: Parental allowance (świadczenie rodzicielskie)
ben_ho_pl	on	on	on	on	BEN: Housing benefit
ben_sa_pl	on	on	on	on	BEN: Social assistance
ben_cca_pl	on	on	on	on	BEN: Child-care allowance (świadczenie
ben_scca_pl	n/a	n/a	on	on	wychowawcze) BEN: Additional care allowance for children between 12-35 months (rodzinny kapitał opiekuńczy)
ben_dca_pl	on	on	on	on	BEN: Disability-care allowance (500+ for disabled
-					adults)
ben_ssya_pl	on	on	on	on	BEN: Start of school year allowance (świadczenie
					dobry start):
tco_pl	switch	switch	switch	switch	DEF: Commodities
output_std_pl	on	on	on	on	Def: Standard Output Individual Level
output_std_hh_pl	off	off	off	off	Def: Standard Output Household Level

# 2.3 Policy switches

Uprating by Average Adjustment switch has been implemented in 2020. This allows for uprating pensions according to the regular rules of indexation when the switch is off, or according to the average rise in pensions when it is on.<sup>2</sup>

# 2.4 Social benefits

# 2.4.1 Unemployment benefit (*bun\_s*)

# • **Definitions**

The unemployment benefit covers unemployed people who have worked at least 1 year over the 18 months prior to the date of registration to the relevant labour office. The unit of analysis is an individual (tu\_individual\_pl).

# • Eligibility conditions

To become eligible one has to meet certain conditions. First of all, the person must be registered as unemployed in the relevant labour office. Secondly, the labour office is not able to provide neither offers of employment nor trainings, internships or public works for unemployed individual. Moreover, unemployed person must have working history of at least 1 year of work over the 18 months prior to the date of registration as unemployed person, and the person had worked for a salary which was equal at least to monthly minimum wage. Those conditions apply to the self-employed as well, however self-employed who pay SIC on preferential conditions during the first two years of running their business won't be eligible to the unemployment benefit if they close their business.

<sup>&</sup>lt;sup>2</sup> Policy switches are denoted with 'switch' in the policy spine (for a given policy year), while their default values (*on* or *off*) are set in a separate dialogue box in the model.

• Income test

Not applicable.

# • Benefit amount

Base amounts of unemployment benefit differ depending on period of payment. In the first three months individual is granted with higher amount of benefit [1] while in the remaining months the benefit amount is lowered [2].<sup>\*</sup>

	01.06.2019 - 31.05.2020	01.06.2020 - 31.08.2020	01.09.2020 - 31.05.2021	01.06.2021 - 31.05.2022		01.06.2023 - 31.05.2023
Amount [1]	861.40	881.30	1200.00	1240.80	1304.10	1491.90
Amount [2]	676.40	692.00	942.30	974.40	1024.10	1171.60

Table 2.4 Base ammount of unemployment benefit

Note: PLN per month

Source: Ministry of Labour and Social Policy

The duration of unemployment benefit payment period can be either 6 or 12 months. Benefit is granted for the period of 6 months in areas where unemployment rate is less than 150% of national average. 12 months benefit period is applied in areas where an unemployment rate is at least equal to 150% of national average, or if individual is over 50 years old and has working history period of at least 20 years, or if the claimant's spouse is unemployed too and not eligible to unemployment benefit and they have at least one dependent child under the age of 15.

In addition, base amounts of unemployment benefits are subject to a further decrease/increase conditional on duration of working history. As mentioned, to claim the unemployment benefit one has to meet the criterion of having a work history of at least 1 year. If the work history period is less than 5 years, the benefit amount is 80% of the base benefit amount and if one has work history period of at least 20 years of work, the benefit amount is 120% of the base benefit amount. In other cases the base benefit amount is granted.

# • EUROMOD notes

Simulation of unemployment benefit takes the eligibility from the data. In the simulation process, only those individuals who reported positive values of unemployment benefit (bun > 0) can be granted with the benefit (partially simulated).

		2020	2021	2022	2023
Eligibility	Contribution period	>= 365 calendar days over the last 18 months			
	Other conditions	registered at labour office	registered at labour office	registered at labour office	registered at labour office
	Eligibility of self-employed	Similar conditions	Similar conditions	Similar conditions	Similar conditions

<sup>\*</sup> numbers in square brackets appearing in descriptions of simulated policies refer to rows of Tables including information relevant to policies being described.

Payment	Contribution base	No, flat-rate benefit	No, flat-rate benefit	No, flat-rate benefit	No, flat-rate benefit
	Monthly base amount:	PLN 881.30 for three months, PLN 692.00 thereafter.	PLN 1240.80 for three months, PLN 974.40 thereafter.	PLN 1304.10 for three months, PLN 1024.10 thereafter.	PLN 1491.90 for three months, PLN 1171.60 thereafter.
	Flat payment: Percentage of base amount depending on work history:	1 to 5 years: 80%, 5 to 20 years: 100%, 20 years and more: 120%	1 to 5 years: 80%, 5 to 20 years: 100%, 20 years and more: 120%	1 to 5 years: 80%, 5 to 20 years: 100%, 20 years and more: 120%	1 to 5 years: 80%, 5 to 20 years: 100%, 20 years and more: 120%
Duration		6	6	6	6
	Special cases (in months)	0,	12 if: local unemployment rate >= 150% national average, OR working period >= 20 years and age >=50, OR if spouse is unemployed with no allowance and child aged <= 15.	0,	0,
Subject	Taxes	YES	YES	YES	YES
to	SIC	YES	YES	YES	YES

# 2.4.2 Nursing supplement (*poacm\_s*)

#### • **Definitions**

The nursing supplement provides support to pensioners older than 75 years or with a severe disability. The unit of analysis is the individual (tu\_individual\_pl).

# • Eligibility conditions

All pensioners aged 75 and more or those pensioners diagnosed with a severe disability. This is a non means-tested benefit.

#### • Income test

Not applicable.

# • Benefit amount

Table 2.6 Nursing supplement

Year	01.03.2020 -	01.03.2021 - 01.03.2022 -		01.03.2023 -	
rear	28.02.2021	28.02.2022	28.02.2023	29.02.2024	
Amount	229.91	239.66	256.44	294.39	

Note: PLN per month Source: Ministry of Labour and Social Policy

# 2.4.3 Nursing benefit (pdiuc\_s)

# • **Definitions**

The nursing benefit is a universal (non-contributory) benefit for disabled people. The unit of analysis is the individual. If the entitled person is a child, the benefit is paid to the parent/guardian (tu\_individual\_pl or tu\_fa\_bna\_pl). It has existed since 2004.

# • Eligibility conditions

It is a universal (non-contributory) benefit for disabled children, severely disabled working-age adults, severely disabled pensioners and people aged 75 or more with no disability. It is incompatible with receiving nursing supplement – only one of these can be received at any time.

### • Income test

Not applicable.

# • Benefit amount

Table 2.7 Nursing benefit

Year	since 01.11.2019	
Amount	215.84	

Note: PLN per month

Source: Ministry of Labour and Social Policy.

# • EUROMOD notes

In prevailing legislation moderately disabled persons above the age of 16 are eligible for nursing benefit on condition that disability occurred before that person turned 21. Since it is not possible to derive such information from input database, all moderately disabled persons over 16 are granted with nursing benefit in the model.

# 2.4.4 Family allowance (*bch00\_s*)

### • **Definitions**

This is an income-tested child benefit that requires the presence of dependent children in the family (tu\_fa\_bfa\_pl).

# • Eligibility conditions

Family allowance is granted to families with dependent children and income lower than a specified threshold. Until December 2015 Family allowance (with supplements) was withdrawn at a point threshold. From January 2016 the benefit (with supplements) is withdrawn gradually as family income exceeds the threshold (with a 100% taper rate). Dependent children are defined as aged below 18 or below 21 and in secondary school or below 24 if continues education or holds a certificate of disability.

### • Income test

The benefit is means-tested over the previous year using the personal income tax form. In January 2016 the system of point withdrawal of family allowance with its supplements was replaced with tapered withdrawal scheme (100% taper). To get the full amount of the allowance the net income (net of social security contributions, health insurance contributions and income

tax payments) per capita must be below a threshold [1] that is larger [2] if there is a disabled child in the family. The income test for farmers is applied on imputed income equal to the number of converted hectares times a specified amount (1/12 of imputed income) [3].

Year	2020	2021	2022	2023
Description meniod	01.11.2019 -	01.11.2020 -	01.11.2021 -	01.11.2022 -
Regulation period	31.10.2020	31.10.2021	31.10.2022	31.10.2023
[1]	674.00	674.00	674.00	674.00
[2]	764.00	764.00	764.00	764.00
[3]	226.25	270.33	318.25	274.00

Table 2.8 Family allowance thresholds

Note: PLN per month

Source: Ministry of Labour and Social Policy

### • Benefit amount

The base amounts of family allowance payments are given in the table below. However, since January 2016 Family allowance is tapered beyond the income threshold. When the income of a family exceeds income threshold, the Family allowance amount is pooled together with its supplements and lowered by the amount of the surplus of family income over the income threshold. The lowered amount of Family allowance with supplements may not be lower than the amount of 20 PLN per month.

Payment period is from 1st of September till 31st of August.

Table 2.9 Family allowance - benefit levels

Year	2020	2021	2022	2023
Regulation period	01.11.2019 - 31.10.2020		01.11.2021 - 31.10.2022	01.11.2022 - 31.10.2023
[1]	95.00	95.00	95.00	95.00
[2]	124.00	124.00	124.00	124.00
[3]	135.00	135.00	135.00	135.00

Note: PLN per month

Source: Ministry of Labour and Social Policy

# 2.4.5 Supplement for large families (*bchlg\_s*)

#### • **Definitions**

The supplement for large families provides support for families with three or more children. This benefit requires the presence of dependent children in the family (tu\_fa\_bfa\_pl).

### • Eligibility conditions

Supplement for large families is granted to one of the parents in a family with at least three children. To receive this form of support the family must be eligible to the family allowance.

#### Income test

To become eligible to the supplement for large families the claimant must be entitled to the Family allowance (bch00\_s) where respective income test applies (as described in point 2.4.4).

# • Benefit amount

The supplement paid per child amount at 80.00 PLN per month between November 2012 and October 2015, 90.00 PLN per month between November 2015 and October 2016, and 95.00 PLN per month since November 2016.

Table 2.9 Family allowance: supplement for large families

Years	2020	2021	2022	2023
Regulation	01.11.2019 -	01.11.2020 -	01.11.2021 -	01.11.2022 -
period	31.10.2020	31.10.2021	31.10.2022	31.10.2023
Amount	95.00	95.00	95.00	95.00

Note: PLN per month

Source: Ministry of Labour and Social Policy

# **2.4.6** Supplement for child birth (*bchba\_s*)

# • **Definitions**

The supplement for child birth integrates the family allowance of families with children under 1 year of age.

# • Eligibility conditions

Families with children (tu\_fa\_bfa\_pl) less than 1 year old and eligible to the main family allowance are also eligible to a supplement for child birth.

# • Income test

To become eligible to the supplement for child birth the claimant must be entitled to the family allowance (bch00\_s) where respective income test applies (as described in point 2.4.4)

# • Benefit amount.

Table 2.10 Family allowance supplement for child birth

Years	2006 - 2023
Amount	1000

Note: One-off payment, PLN Source: Ministry of Labour and Social Policy

# 2.4.7 Supplement for starting school year (*bched\_s*)

# • **Definitions**

The supplement for starting school year integrates the family allowance of families with children due to start of the school year. It aims at supporting families to meet the costs of buying schoolbooks and other material for the child starting the school year. This benefit requires the presence of dependent children in the family (tu\_fa\_bfa\_pl).

# • Eligibility conditions

Only one parent of the dependent child aged under 20 starting school year is eligible. The child must be attending either primary school, lower secondary school or upper secondary school. The benefit is paid once per year per child attending any grade of mentioned school types.

# • Income test

To become eligible to the supplement for starting school year the claimant must be entitled to the family allowance (bch00\_s) where respective income test applies (as described in point 2.4.4).

# • Benefit amount.

Table 2.11 Family allowance supplement for starting school year

Years	September 2006 - October 2024	
Amount	100	

Note: One-off payment, PLN Source: Ministry of Labour and Social Policy

# 2.4.8 Supplement for education or rehabilitation of disabled child (*bchdied\_s*)

# • **Definitions**

This supplement supports families with disabled children below age 24. It requires the presence of dependent children in the family (tu\_fa\_bfa\_pl).

# • Eligibility conditions

The benefit can be paid either to the father or the mother in families with disabled children aged below 24 years.

# • Income test

To become eligible to the supplement for education or rehabilitation of disabled child the claimant must be entitled to the family allowance (bch00\_s) where respective income test applies (as described in point 2.4.4).

# • Benefit amount

The amount of the benefit is different depending on whether the disabled child is aged below 5 years [1] or between 5 and 24 [2].

Table 2.12 Family allowance supplement for education or rehabilitation of disabled child
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Years	2017 - 2024
Regulation	November 2016 -
period	October 2024
[1]	90
[2]	110

Note: PLN per month

Source: Ministry of Labour and Social Policy

# **2.4.9** Supplement for lone parents (*bchlp00\_s*)

# • **Definitions**

This is a supplement for lone parent families that are meeting the low income criterion. It requires the presence of dependent children in the family (tu\_fa\_bfa\_pl).

# • Eligibility conditions

Lone parent families who are eligible for family allowance are also eligible for this supplement. It may not be combined with a social pension for a child.

# • Income test

To become eligible to the supplement for lone parents the claimant must be entitled to the family allowance (bch00\_s) where respective income test applies (as described in point 2.4.4).

# • Benefit amount

The amount of the benefit per child is reported in the table below [1]. A higher amount is paid for disabled children [2].

Years	2017-2024	
Regulation period	01.11.2016 - 31.10.2024	
[1]	193	
[2]	273	

Notes: PLN per month, from November 2016 benefit amount per all children must be below 386 PLN and in case of disabled children must be below 546 PLN. Source: Ministry of Labour and Social Policy

# **2.4.10** Child birth allowance (*bchuc\_s/bchbamtna\_s*)

# • **Definitions**

The child birth allowance is paid to parents of alive new-born children. This benefit requires the presence of dependent children in the family (tu\_fa\_bfa\_pl). It has existed since 2006.

# • Eligibility conditions

Since 2013, parents of new-born children need to meet the eligibility income test. Before 2013 the benefit used to be universal.

# • Income test

Since 01.01.2013 parents of alive new-born children must meet the income criteria of net income per capita below the amount of 1922 PLN per month.

# • Benefit amount

One-time payment per eligible child – the benefit amount is 1000 PLN.

# • EUROMOD notes

Before 2013, the child birth Allowance was a non means-tested benefit, the respective output variable in EUROMOD for policy years before 2013 is named *bchuc\_s*. From 2013 onwards the benefit is means-tested and the correspondent output variable in EUROMOD is *bchbamtna\_s*.

# 2.4.11 Nursing allowance (*bcrdi\_s*)

# • **Definitions**

This benefit is addressed to individuals who resign from employment to take care of a disabled family member with whom they remain in lineal consanguinity or with whom they are siblings (tu\_fa\_bna\_pl). It has existed since May 2005.

# • Eligibility conditions

Until 31st of August 2009, this benefit was restricted to parents of disabled children. From 1st of September 2009 it can be also granted to relatives remaining in lineal consanguinity with disabled individuals or to siblings of disabled individuals. Until 2010 nursing benefit was a means-tested benefit. From 01.01.2010 the income test for the benefit no longer exists. In 2013 the additional eligibility criteria related to history of disability was introduced. Since 2013 the benefit is granted for those individuals who take care of disabled persons whose disability started before reaching age of 18 (or age of 25 in case of those who studied at time when disability began).

### • Income test

Since 01.01.2010 this allowance is not means-tested.

# • Benefit amount

Fixed amount, which is independent from the number of disabled children in the family, was increased in July 2013, June 2014 and in January 2015 [1]. Since January 2012 until the end of 2014 claimants were also receiving supplements to the nursing allowance.

# • EUROMOD notes

Since nursing allowance is granted based on criterion of age when disability occurred and there is no such information in the dataset, the eligibility is modelled based on declaration of nursing allowance take-up in the dataset. For policy years 2009-2023 nursing allowance is granted based on bcrdimy > 0 condition. For policy year 2008 it is granted based on variable bcrchdimy (it also need to be greater than zero). For policy years 2005-2007 the benefit is granted based on declaration of positive value of benefit in survey data (bcrchdi >0).

Euromod reflects each specific policy implementation at the 30<sup>th</sup> of June of each year. Therefore not all values reported in Table 2.14 may be used in the model.

### Table 2.14 Nursing Allowance

Year	2020	2021	2022	2023
[1]	1830	1971	2119	2458

Note: PLN per month

Source: Ministry of Labour and Social Policy

# 2.4.12 Special nursing allowance (*bdinc\_s*)

### • **Definitions**

This policy is prevailing since 01.01.2013 and it is addressed to relatives taking care of their dependant relatives (tu\_fa\_pl). As opposed to nursing allowance, there is no criterion on the age when disability started. The benefit is also paid for individuals taking care of disabled family members living in another household, however it is means-tested benefit.

# • Eligibility conditions

This benefit is granted to individuals who resigned from work in order to take care of their dependant relatives. Individuals must not receive unemployment benefit or pre-retirement pension and take care of their disabled relatives.

### Income test

Net income per capita in a family of individual taking care of relatives added up to net income in the family of the dependent relative must be below the amount of 764 PLN per person per month.

Year	2020	2021	2022	2023
Regulation	01.11.2019	01.11.2020	01.11.2021	01.11.2022
period	31.10.2020	31.10.2021	31.10.2022	31.10.2023
[1]	764.00	764.00	764.00	764.00

Table 2.15 Special nursing allowance thresholds

Note: PLN per month

Source: Ministry of Labour and Social Policy

# • Benefit amount

Table 2.16 Special nursing allowance amounts

Year	November 2018 - 2023	
[1]	620	

Note: PLN per month

Source: Ministry of Labour and Social Policy

#### • EUROMOD notes

Due to limited information in SILC input data, it is impossible to simulate a part of special nursing allowance payments that are transferred to individuals who are voluntarily on leave and take care of their disabled relatives from outside their households. The model assumes that individuals who resigned from work in order to take care of their dependent relatives are people who are economically inactive or declared an other economic status and live in a household with a disabled relative. Students can also claim the special nursing allowance, but they need to prove that they have enough time to take care of the dependent relative (it is not modelled in EUROMOD).

# 2.4.13 Parental allowance (*bchba01\_s*)

# • **Definitions**

Family benefit meant to support parents of new born children who are not eligible to maternity leave allowance: students, employees on civil contracts (i.e. without social security contributions), individuals insured in Agricultural Social Insurance Fund (KRUS) or unemployed. One of the parents can also claim a top-up to maternity benefit or unemployment benefit if the value of one of those benefits is lower than 1000 PLN per month. The parental allowance payment period is 52 weeks, 65 weeks in case of birth of twins, 67 weeks for triplets, 69 weeks for quadruplets and 71 weeks for quintuplets.

# • Eligibility conditions

The benefit requires the presence of new born child in a family.

# • Income test

The benefit is non means-tested. However the eligibility to parental allowance is excluded by eligibility to family allowance supplement due to childcare leave, nursing allowance or special nursing allowance.

# • Benefit amount

1000 PLN per month. The benefit amount is irrespective of the number of children born in one confinement. The parent of a new born child who is eligible to either maternity benefit or unemployment benefit with benefit amount below 1000 PLN per month can claim top-up to one of those benefits equal to the difference between 1000 PLN and the value of maternity benefit or unemployment benefit.

# 2.4.14 Housing benefit (*bho\_s*)

# • **Definitions**

Family or household level benefit meant to support families with their housing expenditures. Expenses include rent and other housing related bills (gas, electricity, heating, water, etc.).

# • Eligibility conditions

This is an income-tested benefit with additional restrictions concerning flat size. The size limit for a 1 person household is  $35 \text{ m}^2$ . However the limit may be increased by 30% with proportional decrease in the amount of the benefit. The limits are given in the table below.

Number of people in household	Flat area	Extended flat area
1 person	35 m <sup>2</sup>	$+30\% = 45,5 \text{ m}^2$
2 people	40 m <sup>2</sup>	$+30\% = 52 \text{ m}^2$
3 people	45 m <sup>2</sup>	$+30\% = 58,5 \text{ m}^2$
4 people	55 m <sup>2</sup>	$+30\% = 71,5 \text{ m}^2$
5 people	65 m <sup>2</sup>	$+30\% = 84,5 \text{ m}^2$
(5+n) people	$65 m^2 + n*5 m^2$	$+30\% = 84,5 \text{ m}^2 + (n*30\%*5) \text{ m}^2$

### Table 2.17 Housing benefit flat area limits

Source: Ustawa z dn. 21 czerwca 2001 r. o dodatkach mieszkaniowych. Dz.U. 2001 nr 71 poz. 734

Besides an income-test, another form of eligibility test is applied here. Employees of the local entity which is administering the housing benefits, can verify the material situation of the applicants during a home visit. If during such a visit it would be noticed that the material situation within the household is better than the situation assessed through the means-test, the application for a housing benefit would be rejected.

# • Income test

To qualify for the housing benefit, housing income per capita for the last quarter had to be below 125% of the minimum pension for a multi-person household and 175% for a one-person household until the 30th of June 2021. Since July 2021 the income threshold is 40% of the average salary from the previous year for a multi-person household and 30% for a one-person household.

Income is gross income minus revenue costs, social security contributions, health insurance contributions and personal income tax. Social assistance is not included in the income test. The amount of paid alimony decreases the income concept used for the income test. There is a list of exact sources included in the income test

Farmers' income is computed on the basis of equivalence hectares and is augmented by the amount of family benefits.

Table 2.18 Minimum pension values until 2021, average salary from previous year since 2022

Year	2020	2021	2022	2023
Amount	1200.00	1250.88	5662.53	6346.15

Note: PLN per month

Source: Social Insurance Institution

# • Benefit amount

The amount is equal to the difference between expenditures and a fraction of the income. The fraction of the income depends on household size and used to depend on per capita income. The eligible amount is computed as:

# $HB = E - K^*(Y_{HB})$

where k equals to 10%, 12%, 15% or 20%.

The minimum HB amount had to be above 2% of minimum old-age pension until June 2021 and must be at least 0.5% of average salary since July 2021. The maximum value of housing benefit equals 70% of the expenses related to the normative area of the occupied dwelling or 70% of the actual expenses incurred for the apartment, if the area of the apartment is less than or equal to the normative area.

Table 2.19 Housing benefit	- housing costs 1	parameters until June 2	2021 and since July 2021

Period		<u>One person hh</u>		<u>2-4 people in the hh</u>		<u>5+ people in the hh</u>	
June	Income		150% - 175% of minimum pension	Below 100% of minimum pension	100% - 125% of minimum pension	Below 100% of minimum pension	100% - 125% of minimum pension
2021	К	15%	20%	12%	15%	10%	12%
Since July	Income	Below 40% of average salary		Below 30% of average salary		Below 30% of average salary	
2021	K	15	5%	129	%	109	6

Source: Ustawa z dn. 21 czerwca 2001 r. o dodatkach mieszkaniowych. Dz.U. 2001 nr 71 poz. 734

# • EUROMOD notes

Eligibility test for the housing benefit consists of two stages: the income-test and the home visit by housing benefit officer. If during the visit housing benefit officer would assess that household's material situation is better than the situation evaluated in the income test the application for housing benefit would be rejected. The results of home visits paid by housing benefit officers are not modelled in EUROMOD. Therefore, it is assumed that the housing benefit is being transferred to those households that declare eligibility for a housing benefit in input dataset.

# 2.4.15 **Permanent social assistance** (*bsapm\_s*)

# • **Definitions**

The permanent allowance is a specific permanent social assistance allowance for a person incapable of working due to disability or age, who is not entitled to social insurance invalidity pension (tu\_fa\_bsa\_pl). The benefit constitutes a complement to income, up to the amount of a specified income criterion.

# • Eligibility conditions

To be eligible one must have disability of significant or moderate degree or be unable to work due to age, whereby the age limit is the same as retirement age. See income thresholds in Table 2.20.

# • Income test

If an individual is not a farmer the income test is based on net income per capita (excluding investment income, incidental benefits), and if individual is a farmer the income measure is hectare-based imputed earnings plus non-work income.

# • Benefit amount

The amount corresponds to the difference between a threshold and total household income. The amount of permanent allowance may not be lower than 30 PLN per month.

Year	2019 - 2021	2022 - 2023
Regulation period	01.10.2018 - 31.12.2021	since 01.01.2022
[1]	701	776
[2]	528	600

Table 2.20 Permanent [1] and temporary [2] social assistance thresholds

Note: PLN per month

Source: Ministry of Labour and Social Policy

# **2.4.16** Temporary social assistance (*bsatm\_s*)

# • **Definitions**

A grant made to persons who are experiencing financial problems (income lower than the specified legal income criterion), caused by unemployment, chronic illness(es), or disability; or to persons who have incomes lower than the social assistance threshold and are still ineligible for social protection ( $tu_fa_bsa_pl$ ).

# • Eligibility conditions

To be eligible a household income per capita must be below the specified threshold and a household must pass an informal test conducted by a local social assistance representative. The income thresholds are the same as in permanent social assistance. (see Table 2.20)

# • Income test

The income concept is the same as for permanent social assistance.

# • Benefit amount

The amount corresponds to the difference between a threshold and total household income with a threshold calculated as for permanent social assistance. The amount must not be lower than 20 PLN.

Table 2.21 Permanent [1] and temporary [2] social	l assistance maximum amounts
---	------------------------------

Year	2019-2021	2022-2023
Regulation period	01.10.2018	01.01.2022
[1]	645	719
[2]	418	600

Note: PLN per month.

Source: Ministry of Labour and Social Policy

# • EUROMOD notes

# Eligibility test conducted by a Local Social Assistance Representative

The payment of social assistance is conditional on an assessment by the Local Social Assistance Centre (MOPS). Thus although there is no official wealth or assets test, a visit by the MOPS representative acts as such an informal test. In the model we introduce a type of wealth-test to mimic the local authority discretion concerning the eligibility assessment.

We estimate a probability (probit) model of receiving temporary social assistance on a set of household characteristics for the entire population. Exogenous variables include: flat size, region, number of people living in the household, dummies for possession of colour TV set, computer, washing machine, bath shower, capacity to face unexpected financial expenses, capacity to afford paying for one week annual holiday away from home.

The estimates are then used to generate an expected receipt probability value for each household and we set a uniform wealth threshold above which a family is eligible to receive the assistance conditional on passing also the income means-test. The threshold is calibrated in order to reflect the correct number of recipients of temporary social assistance according to official statistics.

# Central versus local funding of Temporary Social Assistance:

The Central Government is obliged to pay 50% [1] of eligible amount in case of multi-person household and 50% [2] in a case of single-person household (co\_bsatmefna) while the rest of the eligible amount may be paid by the local government. In the model it is assumed that local government pays 0% [3] of the amount at its disposal due (co\_bsatmefmu).

The model allows to choose between the effective amount (co\_bsatmefna+ co\_bsatmefmu) and the entitled amount (co\_bsatmen).

Table 2.22 Temporary social assistance – theoretical and modelled funding proportions

Year	2020	2021	2022	2023
[1]	50%	50%	50%	50%
[2]	50%	50%	50%	50%
[3]	0%	0%	0%	0%

Source: Ministry of Labour and Social Policy

Table 2.23 presents the estimation of share of local government spendings in funding of temporary social assistance statutory amounts. In years 2016-2018 proportions of local government spending in statutory amount of temporary social assistance varied from 1.1% to 1.3%. As we can see the amount of spending on temporary social assistance fell substantially between 2016 and 2018. While one of the reasons behind it are good overall economic conditions, part of the reduction is due to the fall in the number of applications for TSA which resulted from the roll-out of the new childcare allowance benefit (see below).

Year	2019	2020	2021
Statutory amount guaranteed			
by central government	537.9	564.0	531.1
(millions of PLN)			
Theoretical spending of local			
government	537.9	564.0	531.1
(millions of PLN)			
Theoretical total spending of			
central & local government	1075.8	1128.0	1062.2
(millions of PLN)			
Actual spending of local			
government	14.6	15.1	14.0
(millions of PLN)			
Proportion of local			
government spending to	1.4%	1.3%	1.3%
theoretical spending in %			

Table 2.23 Temporary social assistance – estimation of actual funding proportions

Source: Own calculations using Ministerstwo Pracy i Polityki Społecznej (2019b-2021b)

### 2.4.17 Childcare allowance (*bchcc\_s*)

#### • **Definitions**

Monthly child benefit that requires the presence of underage (younger than 18 years old) child(ren) in the family (tu\_bchcc\_pl). Its purpose is to partially cover the expenses related to the care and upbringing of the child. It has existed since April 2016.

# • Eligibility conditions

From April 2016 to June 2019 childcare allowance ("500+") was granted to families as a universal benefit for every second and any subsequent underage child. To claim the allowance for the first (oldest) underage child a family needed to have income below a specified threshold. Since July 2019 childcare allowance is universal for every underage child.

#### • Income test

The benefit was means-tested until June 2019, but only concerning payments for the first child (oldest child within the age range 0-17). In case of the second and any subsequent child, the allowance was granted irrespective of income. The income concept used in the means-test was the same as for the family allowance (see section 2.4.4). It used family income from the previous year: net income (net of social security contributions, health insurance contributions and income tax payments). Family income per capita had to be below 800 PLN per month (1200 PLN per month if there is a disabled child in a family). The income test for farmers was applied on imputed income equal to the number of converted hectares times a specified amount which is the same as in family allowance for farmers means-test (274 PLN per hectare in 2023). As of July 2019 the

income test for the first child has been waived and the allowance is granted to all underage children.

# • Benefit amount

The benefit amount is 500 PLN per month. Payment period in the first year of childcare allowance is from the 1st of April till the 30th of September. In the following years payment period was intended to last from the 1<sup>st</sup> of October in a given year till the 30<sup>th</sup> of September of the following year. Since 2021 the period is from the 1<sup>st</sup> of June to the 31<sup>st</sup> of May of the next year.

# 2.4.18 Family care allowance (*bchscc\_s*)

# • **Definitions**

This is a non-income tested child benefit for each second and subsequent child between the ages of 12 and 35 months (tu\_bchfa\_pl).

# • Eligibility conditions

The child is eligible from the 12<sup>th</sup> month until the 35<sup>th</sup> month of their life. The parents can also opt to double the allowance for the duration of one year if they so choose, as opposed to distributing the allowance over the course of two years.

# • Income test

The benefit is granted to all parents, regardless of income. The benefit is non-taxable and is not included in calculations for eligibility for any other benefits.

# • Benefit amount

The benefit amount is 500 PLN, once per month for two years (or 1000 PLN monthly for one year).

# **2.4.19** Start of school year allowance (*bed00\_s*)

# • **Definitions**

This is a non-income tested child benefit for each child at the start of their school year that requires the presence of dependent children in the family (tu\_bchcc\_pl). It has existed since 2018.

# • Eligibility conditions

The student is eligible until they turn 20, or 24 if they have a disability. If the dependent child reaches the age limit before the start of the school year, but within the same calendar year in which the benefit is claimed then they are still eligible. Children that are attending kindergarten are not eligible, nor are university students.

# • Income test

The benefit is granted to all parents, regardless of income. The benefit is non-taxable and is not included in calculations for eligibility for any other benefits.

# • Benefit amount

The benefit amount is 300 PLN, once per year.

# **2.4.20** Thirteenth pension (*boa13\_s*):

# • **Definitions**

This is a non-means tested benefit for all pensioners amounting to one extra payout of the minimum pension in May of each year. It has existed since 2019.

# • Eligibility conditions

Anyone who was receiving a pension in May 2019 and is receiving it in April in the next years, receives the additional benefit.

# • Income test

There is no income test. However, the benefit is included in the income base for taxation.

# • Benefit amount

The benefit amount is equivalent to the minimum pension (1588.44 PLN gross, 1445.48 PLN net in 2023), it is a one-time/year payout.

# 2.4.21 Fourteenth pension (*boa14\_s*):

# • **Definitions**

This is a means-tested benefit for pensioners amounting to one extra pay out of the minimum pension each year. It has existed since 2021.

# • Eligibility conditions

Anyone who is receiving a pension in a stated month of a given year and meets the means-testing criteria receives the additional benefit.

# • Income test

The sum of all pensions and old-age benefits received by the pensioner cannot exceed an income threshold (of 2900 PLN/month). Beyond this threshold the benefit is withdrawn at a rate of 1 to 1. The benefit is included in the income base for taxation.

# • Benefit amount

The benefit amount is equivalent to the minimum pension (1588.44 PLN in 2023), it is a one-time/year payout.

# **2.4.22** Pension for mothers with 4 or more kids (*poa04\_s*):

# • **Definitions**

This benefit grants the minimum national pension to mothers (or single fathers) who have raised 4 or more kids. It has existed since 2019.

# • Eligibility conditions

Must be a mother (or single father) who raised 4 or more kids and did not meet the required minimum time in work to be eligible for the national pension.

# • Income test

There is no income test. However, the benefit is included in the income base for taxation.

# • Benefit amount

The benefit amount is equal the minimum national pension, once per month.

# 2.5 Social contributions

# 2.5.1 Employee social contributions

# • Liability to contributions

Social security contributions are paid by both the employer and the employee. While old-age pension insurance and disability insurance contributions are levied on employee and employer, sickness insurance is being paid only by an employee. The tax unit for the purpose of employee's social contributions is tu\_individual\_pl.

# • Income base used to calculate contributions

All rates are applied to the same income base, which is gross income, defined as:

gross income = net income + IT + HI + employee part of SSCs,

where: IT = personal income tax; HI –=health insurance contributions.

Gross income does not include the part of social security contributions that are being paid by the employer.

Incomes from temporary labour contracts may or may not be included in the social security income base. With minor exceptions, a temporary job income is excluded from the SSC income base if the job is performed in addition to a permanent job and if it is performed for a different employer than the one of the permanent job. Due to the lack of detailed data, all temporary work incomes earned in addition to permanent work incomes are excluded from the social security income base. Old-age pension insurance and disability insurance contributions are also paid on unemployment benefits and maternity benefits. Other benefits are excluded from social security contributions.

For the purpose of old-age pension insurance and disability insurance contributions, the gross income base is limited: contributions are paid as long as the annual cumulative gross income is below a threshold. The threshold is computed as 30 times the average monthly wage indicator, estimated for a given year by the government and published in the state budget.

Table 2.24 Old-age pension and disability insurance – income thresholds (annual in PLN)

Year	2020	2021	2022	2023
Threshold for old-age pension insurance and disability insurance	156,810	157,770	177,660	208,050

Source: Zakład Ubezpieczeń Społecznych (2022e).

#### • Contribution rates

	Total contribution rate (%)	Employee rate (%)
Old-age pension insuran	<b>ce</b> 19.52	9.76
<b>Disability insurance</b>	8.00	1.5
Sickness insurance	2.45	2.45
	1 (2022)	

Table 2.25 Employee social security contribution rates (since January 2012)

Source: Zakład Ubezpieczeń Społecznych (2022e).

# 2.5.2 Employer social contributions

# • Liability to contributions

Employers share the burden of old-age pension insurance and disability insurance contributions together with employees. However, work accident insurance, contributions to Labour Fund & Fund of Guaranteed Employee's Benefits are levied only on employers. The tax unit used for the purpose of employer's social contributions is tu\_individual\_pl.

# • Income base used to calculate contributions

Gross income described in the section devoted to employee social contributions does not include the part of social security contributions, which are paid by the employer. The total cost to the employer is therefore gross income plus the employer's part of social security contributions. For the purpose of assessment of employer's social contributions the same income thresholds as in case of employee's contributions are being applied.

# • Contribution rates

# Table 2.26 Employer social security contribution rates (since April 2018)

	Total contribution rate (%)	1. 2
Old-age pension insurance	19.52	9.76
Disability insurance	8.00	6.5
Sickness insurance	2.45	_
Work accident insurance	from 0.67 to 3.33	from 0.67 to 3.33
Labour Fund	2.45	2.45
ınd of Guaranteed Employee Benefits	0.10	0.10

Source: Zakład Ubezpieczeń Społecznych (2022e).

# 2.5.3 Social contributions of farmers

# • Liability to contributions

Individual farmers and their families, who conduct farming activities on their own behalf, are eligible for social insurance according to Agricultural Social Insurance Fund (KRUS) principles. The KRUS contributions are quarterly lump-sum payments. Old age pension and disability insurance contributions are pooled together, while for the purpose of work accident insurance, sickness insurance and maternity insurance individual have to pay another contribution.

#### • Income base used to calculate contributions

The fact of being a farmer conducting an agricultural activity on area of size of at least 1 conversion hectare is condition required to be eligible for social security contributions for farmers.

#### • Contribution rates

People insured in KRUS paid the following quarterly amounts of contributions, per person in PLN:

Table 2.27 Old age pension quarterly amounts for farmers conditional on farm area (1st quarter 2020 – 4th quarter 2023)

		Farm's size					
Year	Year Quarter	up to 50 ha	50ha _ 100ha	100ha _ 150ha	150ha _ 300ha	more than 300 ha	
2020	1 <sup>st</sup>	282	621	957	1296	1635	
2020	2 <sup>nd</sup>	291	642	990	1341	1692	
2020	3 <sup>rd</sup>	291	642	990	1341	1692	
2020	4 <sup>th</sup>	291	642	990	1341	1692	
2021	1 <sup>st</sup>	291	642	990	1341	1692	
2021	2 <sup>nd</sup>	303	669	1032	1398	1764	
2021	3 <sup>rd</sup>	303	669	1032	1398	1764	
2021	4 <sup>th</sup>	303	669	1032	1398	1764	
2022	1 <sup>st</sup>	303	669	1032	1398	1764	
2022	2 <sup>nd</sup>	324	714	1104	1494	1887	
2022	3 <sup>rd</sup>	324	714	1104	1494	1887	
2022	4 <sup>th</sup>	324	714	1104	1494	1887	
2023	1 <sup>st</sup>	324	714	1104	1494	1887	
2023	2 <sup>nd</sup>	429	945	1458	1974	2487	
2023	3 <sup>rd</sup>	429	945	1458	1974	2487	
2023	4 <sup>th</sup>	429	945	1458	1974	2487	

Source: Kasa Rolniczego Ubezpieczenia Społecznego: KRUS w liczbach

Table 2.28 Work Accident, sickness and maternity insurance contribution rates of KRUS ( $1^{st}$  quarter 2020 –  $4^{th}$  quarter 2023)

Work accident, sickness and maternity insurance	1 <sup>st</sup> quarter	2 <sup>nd</sup> quarter	3 <sup>rd</sup> quarter	4 <sup>th</sup> quarter
2020	126	126	126	126
2021	126	126	126	126
2022	180	180	180.	180
2023	180	180	180.	180

Source: Kasa Rolniczego Ubezpieczenia Społecznego: KRUS w liczbach

# 2.5.4 Self-employed social contributions

#### • Liability to contributions

Self-employed conducting non-agricultural economic activity.

#### • Income base used to calculate contributions

The income base for this form of employment is self-declared, with a minimum declared income base set at 60% of the average monthly gross income anticipated in given year. There is a second rate for anyone who's revenue is below 2.5 times the minimum wage – in this case, income base is 30% of the national minimum wage. The rates of SSCs for self-employed (entrepreneurs) are the sum of the rates for employee and employer. Sickness insurance for the self-employed is voluntary.

#### • Contribution rates

# Table 2.29 Self-employed social contributions (2020-2023)

Year	Rate	Minimum income base	Old-age pension insurance	Disability insurance	Sickness insurance	Work accident insurance	Labour Fund
2020	Regular	3136.20	19.52%	8.00%	2.45%	0.67% - 3.33%	2.45%
2020	Small	780.00	19.52%	8.00%	2.45%	0.67% - 3.33%	0%
2021	Regular	3155.40	19.52%	8.00%	2.45%	0.67% - 3.33%	2.45%
2021	Small	840.00	19.52%	8.00%	2.45%	0.67% - 3.33%	0%
2022	Regular	3553.20	19.52%	8.00%	2.45%	0.67% - 3.33%	2.45%
2022	Small	903.00	19.52%	8.00%	2.45%	0.67% - 3.33%	0%
2023	Regular	4161.00	19.52%	8.00%	2.45%	0.67% - 3.33%	2.45%
2023	Small	1047.00	19.52%	8.00%	2.45%	0.67% - 3.33%	0%

Note: PLN per month. The "small" rate applies to anyone who's revenue is below 2.5 times the minimum wage, in which case the income base is 30% of the national minimum wage. Source: Zakład Ubezpieczeń Społecznych (2022f).

# • EUROMOD notes

While sickness insurance for the self-employed is voluntary and the income base for this form of employment is self-declared (with a minimum declared income base set at 60% of the average monthly gross income anticipated in the given year), we assume that all self-employed minimize their Social Security Contributions (SSC) by declaring the minimum income base and by opting out of the sickness insurance.

There is also a case of 30% multiplier that is used to assess social security contributions liability for self-employed who are either disabled or are conducting non-agricultural economic activity for less than 24 months. Self-employed who fulfil those requirements can use a reduced rate of 30% instead of the standard rate of 60%, to assess their social security contribution base. Rate of 30% is not modelled in EUROMOD. Table 2.30 summarizes the proportion of the self-employed who use the rate of 30% to assess SIC base to total number of self-employed SIC contributors. In 2019 those self-employed who paid preferential SIC (excluding Labour Fund contributions) accounted for 16.7% of the total number of self-employed, while in 2020 it was 17.2%. Preferential SIC from self-employed (excluding Labour Fund contributions) in 2019 and 2020 accounted for 4.8% and 5.5% of the total revenues, respectively (Table 2.31).

Table 2.30 Proportion of contributors of preferential self-employed SIC to the total number of self-employed SIC contributors (2020-2023)

SIC for:	2020	2021	2022	30.06.2023
Retirement and disability pension	17.2%	17.3%	16.7%	18.4%
Sickness insurance	16.6%	16.6%	16.1%	17.7%
Work accident insurance	17.2%	17.3%	16.7%	18.4%
Labour Fund	n/a	n/a	n/a	n/a

Note: The ratios are proportions of monthly averages within the years.

Source: Zakład Ubezpieczeń Społecznych (2020b-2022b, 2020c-2022c, 2020d-2022d).

Table 2.31 Proportion of aggregated values of contributions from preferential self-employed SIC contributors to the total value of self-employed SIC contributions (2020-2023)

SIC for:	2020	2021	2022	2023
Retirement and disability pension	5.5%	6.1%	5.6%	
Sickness insurance	5.1%	5.5%	5.2%	
Work accident insurance	5.6%	6.1%	5.7%	
Labour Fund	n/a	n/a	n/a	

Note: The ratios are proportions of monthly averages within the years. Source: Zakład Ubezpieczeń Społecznych (2020b-2022b, 2020c-2022c, 2020d-2022d).

In EUROMOD it is assumed that self-employed people pay the accident insurance rate for entrepreneurs who employ up to 9 persons. Table 2.32. shows how this rate [1].

Table 2.32 Accident insurance rate for self-employed hiring less than 10 persons (April 2018-2023)

	Year	Since April 2018			
	[1]	1.67%			
і т.п.	$[] = \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right)$				

Source: Zakład Ubezpieczeń Społecznych (2022e).

#### 2.5.5 Health insurance contributions

#### **Employee's health insurance contributions:**

• Liability to contributions

In general, individuals liable to employee social security contributions are obliged to pay health insurance contributions.

#### • Income base used to calculate contributions

Health insurance (HI) contributions are considered to be social security contributions, however, they are calculated according to different principles. While sickness insurance finances replacement benefits during prolonged sickness or maternity leave, health insurance finances the National Health Fund, which is the public healthcare management institution.

The income base for HI contributions for work contracts is lower than for SSCs; it is equal to the gross income minus the employee part of SSC. i.e.

# HI income base = net income + IT + HI = gross income - employee part of SSC

# **Contribution rates**

As of January 2022, HI contributions are no longer linked to the personal income tax (PIT). Before January 2022, the HI dues paid on any particular work contract could not exceed the PIT dues paid on that contract. Also, 7.75% of the HI income base was deducted from the calculated PIT dues. In other words:

- if the calculated PIT dues were lower than 7.75% of the HI income base then the actual HI dues were equal to the calculated PIT dues and the actual PIT paid was zero;
- if the calculated PIT dues exceeded 7.75% of the HI income base, but did not exceed 9.0% of the HI income base, then the actual HI dues were equal to the calculated PIT dues, while actual PIT dues were equal to the difference between the calculated PIT dues and the amount of deduction (7.75% of the HI income base)
- if the calculated PIT dues exceeded 9% of the HI income base, then the actual HI dues were equal to 9.0% of the HI income base, while the actual PIT dues were equal to the difference between the calculated PIT dues and the amount of deduction (7.75% of the HI income base).

Since HI contributions are no longer deductible from the PIT, low-income earners who would see an increase in their HI dues as a result of the reform may abide by the old system.

Year	HI Paid	HI Deducted
2007-2021	9.00 %	7.75 %
2022-2023	9.00 %	0 %

Table 2.33 Employees' health insurance rates (2007 - 2023)

Source: Ministry of Health

# Health insurance contributions for self-employed:

# Liability to contributions

Self-employed conducting non-agricultural economic activity.

# Income base used to calculate contributions

The self-employed pay health insurance contributions according to the same rates and personal income tax deduction rules as employees. However, just like in the case of SSCs a minimum HI income tax base limit applies, which results in the self-employed paying a lump-sum amount of contributions. Interestingly, the HI income base limit is higher than the SSC income base limit (75% of the average monthly gross income in business sector in the previous year's last quarter, instead of 60% of the overall average monthly gross income anticipated in the given year), even though the HI income base for work contracts is lower than the SSC income base. In addition HI dues for self-employed can exceed IT dues, but still only 7.75% of the HI income base limit can be deducted from the income tax dues. As of January 2022, HI is non-deducible, just as for employees. However, for the self-employed who opt for the flat tax of 19%, their rate of HI contributions is reduced to 4.9%. Base for health insurance contributions depends on the form of taxation, revenues or income value. The minimum base since 2022 is the minimum wage and the contribution year starts in February and ends in January the following year. Contribution rates for scale tax payers are shown in Table 2.34.

Year	HI income base (minimum since 02.2022)	HI dues (minimum since 2022)	IT-deductible dues
2020	4026.01	362.34	312.02
2021	4242.38	381.81	328.78
January 2022	4665.78	419.92	0
February 2022 - January 2023	3010.00	270.90	0
February 2023 - January 2024	3490.00	314.10	0

#### Table 2.34 Health insurance for self-employed (monthly)

Note: PLN per month Source: Ministry of Health

#### Farmers' health insurance contributions:

#### • Liability to contributions

Since the changes in the act that defines rules of the farmer's health insurance system that were introduced in Poland in January 2012, farmer's health insurance contributions are no longer paid from budgetary funds to such extent as before the changes. Farmers are obliged to pay health insurance contributions from their own funds depending on their farm size measured in conversion hectares and type of agricultural activity (with some exceptions).

Farmers' health insurance contributions are paid each quarter in the same periods as described in case of farmers' old-age pension, disability, work accident, sickness and maternity insurance. To become liable to farmers' health insurance contributions one has to meet certain criteria like:

- to be a person eligible for farmers' social security contributions or to be an inmate closely related to such person;
- be a farmer or farmer's inmate not eligible for social contributions from Social Insurance Fund;
- be a person eligible for old-age/disability pension from Farmers Social Insurance Institution;
- be family members of farmers, farmers' inmates, pensioners from Farmers Social Insurance Institution, who are not eligible for health insurance on basis of employee/selfemployed health insurance system.
- Income base used to calculate contributions

Farmers' health insurance contributions are calculated on basis of area of arable land measured in conversion hectares.

#### • Contribution rates

According to the new rules, farmers' health insurance monthly contribution amounts to 1 PLN per insured farmer and 1 PLN per household member in particular agricultural holding, multiplied by number of conversion hectares. If the farm's size is less than 6 conversion hectares health insurance contributions are paid from budgetary funds. Moreover, farmers' health insurance contribution amounts vary depending on whether farm is ran jointly with production in special agricultural sector or only in self-contained special sector of agricultural production.

#### Table 2.35 Farmers' health insurance monthly contribution rates depending on type of

Type of agricultural holding	Insured farmer	Household member
Farm sized less than 6 conversion hectares	financed from budget	financed from budget
Farm sized 6 or more conversion hectares	1 PLN per person multiplied by number of conversion hectares	1 PLN per person multiplied by number of conversion hectares
Farm sized less than 6 conversion hectares jointly with production in special agricultural sector	9% of declared income from activity in special sector of agricultural production (not less than 9% of minimal wage) per person	financed from budget
Farm sized 6 or more conversion hectares jointly with production in special agricultural sector	9% of declared income from activity in special sector of agricultural production (not less than 9% of minimal wage) per person	1 PLN per person multiplied by number of conversion hectares
Self-contained special sectors of agricultural production	9% of declared income from activity in special sector of agricultural production (not less than 9% of minimal wage) per person	in 2012 it used to be 9% of base amount of 33,4% of average salary in non-financial corporations sector in 4 <sup>th</sup> quarter of previous year per person, since 2013 the salary from the year that was two years before the current year is applied

agricultural holding and insured person's status (from February 2012)

Source: Kasa Rolniczego Ubezpieczenia Społecznego: ZADANIA KRUS: Ubezpieczenia zdrowotne

#### 2.6 Personal income tax

#### **2.6.1** Tax unit

Personal income tax in Poland is an individual system, but couples (as well as single parents), can file a joint tax return. In case of joint filing, the tax is levied on the average taxable income, and then the tax dues are multiplied by two. This can lower the tax liability if the two persons individually would fall into different income brackets. For example, if one of these individuals has no income or almost no income in a given year, they benefit from joint filing by claiming two universal tax credits.

# 2.6.2 Exemptions

The list of tax-exempt incomes includes more than 100 categories, most importantly:

- non-contributory benefits (social assistance, family benefits and housing benefits),
- disability pensions for war veterans,
- student scholarships,
- alimonies paid to children.

Regular old-age and disability pensions are not tax exempt. As of October 2019, employment income up to the threshold of the first tax bracket for anyone under the age of 26 is income tax exempt. Income from farm activity or self-employment is taxed according to special rules, described in a separate section below.

Incomes from capital gains are taxed according to separate rules, described in the separate section below.

# 2.6.3 Tax allowances

In June 2023 the list of tax allowances included:

- revenue costs,
- charitable donations,
- housing loan (mortgage) interest,
- medical rehabilitation expenses,
- internet access expenses,
- contributions to Individual Pension Security Account,
- tax deduction for volunteer blood-donors,
- purchase of new technologies,
- research and development expenses.

# **Revenue costs**

The amount of revenue costs allowance depends on the type of the work contract. On most temporary labour contracts, the allowance is equal to 20% of gross income. On some types of temporary contracts, such as scientific or artistic activities, the rate of allowance is 50%. However, due to the lack of detailed data, in the model we assume the basic 20% rate for all temporary work contracts.

The revenue cost allowance for permanent work contracts is a lump-sum amount, which depends on two factors:

- whether the employee has one or more permanent jobs,
- whether the job (jobs) is outside the area of residence.

The table below gives the amounts of revenue cost exemptions on permanent work incomes from 2020 till 2023 in PLN.

Table 2.36 Cost exemptions limit on permanent work income (annual in PLN since 2020).

	Number of jobs	2020 - 2023
Ich(c) within the residence area	1	3000
Job(s) within the residence area	>1	4500
Job(s) outside of the residence area	1	3600
	>1	5400

Source: Ministry of Finance

#### • EUROMOD notes

In the model we assume that all persons have one job performed at the area of residence.

#### Charitable donations

Donations made for purposes related to religion and for public utility organizations are deductible up to 6% of the taxable income. Since 2019 there is no limit for the deduction of donations to the church's charitable and welfare work. However, if the donation is made to an individual or entity that engages in certain activities, the deduction is not allowed.

Table 2.37 Charitable donations

Donation type	Year	deduction limit (% of taxable income)	
donations for churches	2019-2023	no limit	
other donations	2019-2023	6	
Source: Ministry of Finance			

#### Housing loan (mortgage) interest

Interests on mortgage loan are deductible if the credit was taken between the 1st of January 2002 and the 1st of January 2007 to build or purchase residential property. However, to qualify for the deduction, the construction must have been completed within the 3 years from the end of the calendar year the building permit was issued.

Year	deduction limit (amount of mortgage loan, PLN )
2011-2020	325,990
2021	349,090
2022-2023	374,290
n	

Source: Ministry of Finance

In 2007 housing loan (mortgage) interest deduction was withdrawn. However, it is treated as an acquired right and may be claimed by those who got a housing loan between 2002-2006 up to the end of 2027.

#### **Medical rehabilitation expenses**

Taxable income may be also decreased by expenses incurred for the purposes of medical rehabilitation

# Table 2.39 Medical rehabilitation expenses allowance

	Year	deduction limit (PLN per year)	
Medical rehabilitation expenses allowance	2003-2023	2280	
Source: Ministry of Finance			

# • EUROMOD notes

Medical rehabilitation expenses allowance is not modelled in EUROMOD.

#### **Internet access expenses**

Internet access expenses are deductible up to 760 PLN per annum. Since 2013 internet expenses allowance is restricted to taxpayers who have not used this allowance more than once. It can be used only in two consecutive years.

# • EUROMOD notes

Since it is impossible to identify those taxpayers who have not used this allowance for at least two years, the value of internet access expenses allowance is set to 0 since 2013.

# Payments to Individual Pension Security Accounts

Since 2012 individuals who pay contributions to their Individual Pension Security Accounts can deduct the amount of those contributions from their tax base. However, the deducted amount is limited to a particular amount each year. In 2012 and 2013 the deduction could not exceed 4% of the individual's retirement insurance contribution base from the previous year, with a certain maximum. Moreover, those individuals whose yearly salary in 2011 and 2012 was below the yearly minimum wage could apply the deduction limit of 4% of the minimum wage. From 2014 to 2020 every contributor to Individual Pension Security Account has a deduction limit of 120% of the average projected monthly salary. Since 2021 self-employed individuals performing non-agricultural activity have a higher limit - 180% of average projected monthly salary.

Year	2020	2021	2022	2023
Deduction limit	6272.40	6310.80	7106.40	8322.00
Deduction limit for self-employed	6272.40	9466.20	10659.60	12483.00

Source: Ministry of Finance

# • EUROMOD notes

This deduction is not modelled in EUROMOD.

# **Tax deduction for volunteer blood-donors**

Volunteer blood-donors can deduct from their taxable income 130 PLN per litre of donated blood, plasma or other blood particles. The deduction cannot exceed 6% of individual's taxable income.

# • EUROMOD notes

This deduction is not modelled in EUROMOD.

# Purchase of new technologies

Until the 31<sup>st</sup> of December 2015 the self-employed conducting non-agricultural economic activity could deduct from their taxable income 50% of the value of purchased intangible assets including patents, results of research & development works that are innovative and have not been used worldwide for more than 5 years since implementation. If the entrepreneur couldn't deduct full amount of deduction because of low taxable income, the remaining part of deduction could be used within three years. This deduction was withdrawn and from 2016 to 2018 it functioned as an acquired right. Entrepreneurs conducting business in special economic zones were not eligible for this tax deduction.

# • EUROMOD notes

This deduction is not modelled in EUROMOD.

# **Research and development expenses**

Since the 1<sup>st</sup> of January 2016 entrepreneurs can deduct from their taxable income the expenses on research and development activities. This deduction is intended to replace deduction for purchase of new technologies. The possible amount of deduction is varying depending on category of costs connected with research and development activity and size of company. Entrepreneurs could deduct 10% - 30% as of 2016, 30% - 50% as of 2017, 100% - 150% in 2018 - 2021, and 100% - 200% since 2022 of employers costs connected with salaries of employees conducting research and development work. The second category of costs includes:

- purchases of raw materials and resources used in the R&D process;
- expert reports, opinions, consulting services and purchase of research results from scientific entities defined in Act on the Principles of Financing Science used for the purpose R&D activity;
- charges for the use of research equipment used in R&D activity.

Micro, small and medium sized business entities (according to classification from the Act on Entrepreneurs' Law) can deduct up to 200% of the costs mentioned in the second category. Large business entities can deduct up to 100% of the cost from this category. If the entrepreneur couldn't deduct full amount of deduction because of low taxable income, the remaining part of deduction can be used within 6 years (3 years before 2018). Entrepreneurs conducting business in special economic zones are not eligible for this tax deduction.

# • EUROMOD notes

This deduction is not modelled in EUROMOD.

# 2.6.4 Tax base

The tax base is gross income which is equal to the gross income minus social security contributions and tax allowances (deductions). Health insurance contributions are not subtracted from gross income (they are included in the income tax base), but they were linked with income tax until 2021 as described in a separate section above. As described in the "tax unit" section, the average income tax base is used for couples and single parents filing a joint tax return with their spouse or dependent child respectively.

# 2.6.5 Tax schedule

There are only 2 brackets in Poland. Since October 2019, employment income up to 85,528 PLN for anyone under the age of 26 is income tax exempt:

	2020-2021		-0	22-2023		
Bracket number	Lower limit	Upper limit	Rates	Lower limit	Upper limit	Rates
1	0	85,528	17%	0	120,000	12%
2	85,528	-	32%	120,000	-	32%

Table 2.41 Tax schedule (2020-2023)

Source: Ministry of Finance

#### 2.6.6 Tax credits

# Tax credits depending on tax rate and tax-free amount

Before 1st January 2017

• Universal tax credit: each taxpayer may deduct a specified amount per year from his/her tax dues. This tax credit is equivalent to a tax-free income bracket.

Table 2.42a Universal tax credit (before 2017)

	2009-2016	
Universal tax credit (in PLN)	556.02	
Source: Ministry of Finance		

After 31<sup>st</sup> December 2016 until 31<sup>st</sup> December 2021

• Between 2017 and 2021 tax credit included withdrawal rate. Withdrawal rate depended on annual taxable income. The credit was increased in 2018. The rules of tax credit calculations in 2021 are presented in table 2.42b.

# Table 2.42b Tax credit in 2018

Taxable income	Tax credit
0 - 8,000	1,440
8,000 - 13,000	1,440 - 883.98*(taxable income - 8,000)/5000
13,000 - 85,258	556.02
85,528 - 127,000	556.02 - 556.02*(taxable income - 85,529)/41,472
127,000 -	0

Source: Ministry of Finance

Since January 2022

• Universal tax credit: each taxpayer may deduct a specified amount per year from his/her tax dues. This tax credit is equivalent to a tax-free (30,000 PLN per year) income bracket. Since January 2022 families with four or more children are granted an additional tax free allowance of 85,528 PLN per year.

Table 2.42c Tax credit since 2022

	2022-2023		
Universal tax credit (in PLN)	3,600 = 30,000 * 12%		
Comment Minister of Finance			

Source: Ministry of Finance

# Child tax credit

The child tax credit was introduced in 2007 as a non-refundable tax credit of a fixed amount per child per month. Since 2013 there has been an income threshold for parents of only one child - the credit is granted to spouses and lone parents whose yearly taxable income does not exceed 112,000 PLN (and 56,000 PLN in case of an unmarried parent). There is no thresholds for parents

of at least 2 children. Self-employed whose income is not taxed in accordance with general income tax regulation with progressive tax rates are not eligible for the child tax credit. Since tax year 2013 taxpayers entitled to child tax credit deduct higher values of CTC per 3<sup>rd</sup>, 4<sup>th</sup> and any subsequent dependent child. After changes which applied to incomes from tax year 2014 onwards, CTC became a refundable tax credit. After the reform those who pay SIC and HI are eligible to a top-up of CTC which is limited up to the amount of their contributions.

	2014 2022
	2014-2023
per 1 <sup>st</sup> or 2 <sup>nd</sup> child	1112.04
per 3 <sup>rd</sup> child	2000.04
per 4 <sup>th</sup> or any subsequent child	2700.00
Source: Ministry of Finance	

Table 2.43 Child tax credit maximum values (PLN per year, 2014-2023)

#### Heath insurance contributions tax credit

Part of health insurance was deductible until 2022 (7.75% of the HI income base, as described above; see Table 2.33).

#### • EUROMOD notes

The value of universal tax credit in Poland is defined in The Natural Persons' Income Tax Act. In personal income taxation the tax base which is free of taxation is derived by division of UTC value by tax rate in the first tax bracket (18% until September 2019, 17% starting in October 2019, and 12% starting in January 2022). Thus the value of taxable income which was free of taxation was equal to 3,089 PLN (until December 2016) or up to 6,600 PLN (in 2017), up to 8,000 PLN (in 2018 - 2021), and 30,000 PLN since January 2022 per year. However, the amendment of The Tax Ordinance Act that came into force on the 1<sup>st</sup> of January 2006 instituted that both tax base and tax liability are rounded to full units of PLN. Tax base and tax liability ending with less than 0.50 PLN are rounded down to the nearest integer, while values ending with at least 0.50 PLN are rounded up to the nearest integer. Two stages of rounding – the first applied to tax base and the second regarding to tax liability – caused that in 2008 - 2016 incomes up to 3,091.49 PLN, up to 6,601.49 in 2017 and 8,001.49 in 2018 per year were free of taxation. The rounding of tax base and tax liability is not conducted in EUROMOD.

In the Polish tax law, one of conditions defining a dependent child to the child's income which is required to be less or equal to the tax-free amount. In EUROMOD, for the purpose of dependent child identification, the value of 3,089 PLN per year was used until 2021, and 12 times the value of the social pension since 2022.

#### 2.7 Other taxes

#### **2.7.1** Income tax for farmers (agricultural tax)

Incomes from agricultural activities, with the exception of revenue from special branches of agricultural production, are not liable to personal income tax. Such incomes are subject to an agricultural tax. The tax base is measured in *"conversion hectares"* (calculated on the basis of actual area, type and quality of land and location in one of four tax zones, depending on economic and climatic conditions of agricultural production). The annual rate of the tax amounts to the pecuniary equivalent of 2.5 quintals of rye per 1 conversion hectare of farm land and 5 quintals

of rye per non-farm land. The pecuniary equivalent is based on the average purchase price of rye in 11 quarters proceeding the quarter proceeding tax year (3 quarters until 2013).

	2020	2021	2022	2023
Amount of agricultural tax per:				
1 conversion hectare	146.15	146.38	153.70	185.125
1 hectare	292.30	292.75	307.40	370.25
1 quintal of rye	58.46	58.55	61.48	74.05

Source: Ministry of Finance

#### 2.7.2 Income tax for self-employed.

Individuals who carry out business activities may opt to choose a flat-rate taxation of their business incomes at the rate of 19 %, equal to the rate of CIT. That is why instead of being taxed according to the general personal income tax rules with progressive tax rates, self-employed can choose to be taxed according to this flat tax rate. However, with the flat rate taxation the taxpayer is deprived of right to some allowances and to the tax credits. Some self-employed (such as hairdressers) can also opt for a lump-sum tax option or for a flat-rate tax levied on revenues (costs cannot be deducted; the rate differs depending on the type of activity). For those that report earning self-employment income in the data, we calculate the flat rate of 19% (linear tax) and apply a tax optimisation procedure to assign the form of taxation that is most beneficial to the tax unit. This entails the calculation of income tax according to three possible schemes – individual progressive scale, joint progressive scale, and the individual flat tax.

# 2.7.3 Income tax on capital gains

Dividends are excluded from the overall income. In general, there is no special tax rate for capital gains in Poland:

- Capital gains, such as the gains from savings accounts, mutual funds and stock exchange, are taxed at source according to a 19% flat rate, with no allowances or deductions. For stock exchange, the tax base is a net gain.
- The sale of real estate by an individual is taxable at the rate of 19% of the sale price but if the real estate is sold more than 5 years after it was purchased the capital gain is exempt from tax.

# 2.7.4 Income tax on registered revenues

Taxpayers can choose to tax their incomes from rents according to general (progressive) income tax rules, or according to special rules (no allowances or credits with two tax brackets). We assume that incomes from rents are taxed according to general rules.

Income tax on rents rates as of 2023:

- 17% (20% in 2003 2020) for people who are classified as having a free profession (*wolny zawód*) such as painters, actors, singers, translators, architects, lawyers etc.,
- 15%, e.g. brokerage in the sale of motorcycles, photographers, sport and recreation,
- 14%, e.g. health care, architecture, specialised design,

- 12%, e.g. issuing offline computer games, software advisory,
- 10%, e.g. real estate transactions on own account,
- 8.5% up to 100,000 PLN and 12.5% over 100.000 PLN, e.g. research and development activity, rental of own immobility,
- 8,5%, e.g. museums, libraries, firefighting
- 5.5%, e.g. building activity, commissions on one-time public transport tickets,
- 3%, e.g. gastronomy up to 1.5% alcohol, animal production, sea fishers,
- 2%, e.g. not industrially processed plant and animal products.

# 2.7.5 Tax card

Tax card is a form of taxation addressed primary to small business entities such as craftsmen or tradesmen. This form of taxation does not require keeping books of account. Taxes are paid on monthly regular basis, tax amounts depend on type of activity and its scale, number of employed persons, number of inhabitants in the place where activity is conducted. To become eligible to this form of taxation, entrepreneur must submit application to head of local tax office who decides whether claimant qualifies to this type of taxation or not. Base tax amounts paid on basis of this form of taxation have increased in each year. This form of taxation is not simulated in EUROMOD.

# 2.8 COVID response policies (2020)

# • **Definitions**

Firms can receive a variety of financial support from the government if they are affected by COVID. The magnitude of support varies depending on the size of the firm, the scale of impact resulting from COVID and the ensuing lockdown, and the form of employment of the worker. A firm may choose to apply for various sources of support, but may only receive one source of funding for each worker. COVID response policies are intended to help maintain the employment of workers for the duration of the lockdown, thus they are available for anywhere from 1 - 3 months, and are provided in the form of partial wage compensation and SSC exemptions aimed at lowering labour costs. In our simulations we do not pass on reductions in employer SSC payments as we cannot expect such a short-term programme to be passed over to workers through increases in wages. For employees working in firms which can demonstrate revenue losses during the COVID lockdown there are three main sources of wage compensation as a means of employment protection.

# • Eligibility conditions

Firms can apply for a range of compensation depending on their size and scale of losses.

# • Income test

There is no income test. However, the benefit is included in the income base for taxation and SSC. SSC can also be reduced as part of the scheme.

# • Benefit amount

The benefit amount varies depending on the above-mentioned factors. One option is for the firm to furlough workers, in which case the employees receive the minimum wage (2600 PLN per month), with the firm and the government each covering 50% of the salary. Alternatively, they may reduce a worker's hours to 80% of their pre-pandemic working hours up to a minimum salary of 2600 PLN per month. In this case the firm will receive 50% of the employees reduced salary up to 2079 PLN per month. Alternatively, if a firm can demonstrate revenue losses in the range of 30% - 50%, 50% - 80% or over 80%, they can apply for a wage compensation scheme with the value of 1300 PLN, 1820 PLN or 2340 PLN per month per worker respectively. Civil contract workers and the self-employed without any employees are eligible for an alternative benefit of 2080 PLN per month if they or their firm can demonstrate revenue losses resulting from COVID. In this case the wage compensation is not dependent on a reduction of working hours or furlough. Furthermore, all workers in small firms (less than 10 employees) are exempt from paying SSC for three months, while workers on furlough are exempt from SSC, while those with reduced hours can deduct up to 373 PLN per month.

# • EUROMOD notes

In the simulated wage compensation schemes furloughed or reduced working hours are randomly allocated to those identified as most at risk to demand shocks during the lockdown. 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). We do not model the compensation related to the firms losses, since we do not have statistics on the firms benefitting from this scheme, and because this scheme can be considered as a firm subsidy.

This policy <u>can only produce results if the model is run in combination with the LMA add-on</u>. The individuals that are selected to undergo transitions to monetary compensation schemes are defined in the TransLMA\_pl 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.

# **3. DATA**

#### 3.1 General description

The primary database used for the purpose of microsimulation in EUROMOD is the UDB SILC. However, supplementary database had been provided by CSO for the purpose of income variables disaggregation which is described more precisely in section 3.3.3 of the report.

Table 3.1 EUROMOD database description

EUDOMOD detabase	2020
EUROMOD database	2020
Original name	UDB EU-SILC
Provider	GUS
Year of collection	2020
Period of collection	April – June
Income reference period	2019
Data version	EU-SILC Cross UDB 2020 – version of 2021-09
Sample size	15,281
Response rate	83.5%

The survey unit is the household and all the household members who were at least 16 years old by December 31, 2019. The survey does not cover collective accommodation households (such as boarding house, workers' hostel, pensioners' house or monastery), except for the households of the staff members of these institutions living in these buildings in order to do their job (e.g. hotel manager, tender etc.). The households of foreign citizens should participate in the survey.

#### **Definition of the household**

Household is a group of persons related to each other by kinship or not, living together and sharing their income and expenditure (multi-person household) or a single person, not sharing their income or expenditure with any other person, whether living alone or with other persons (one-person household). Family members living together but not sharing their income and expenditure with other family members make up separate households. The household size is determined by the number of persons comprised by the household.

The household composition did not account for:

- individuals over 15 years of age, absent from the household for education purposes, living in boarding houses, students' hostels or private dwellings;
- persons in prison;
- persons absent from the household at the time of the survey, staying at education centres, welfare houses or hospitals, if their real or intended stay outside the household is more than 6 months;
- persons (household's guests) staying in the household at the time of the survey who have been or intended to be there for less than 6 months;
- persons renting a room, including students (unless they are treated as household members);
- persons renting a room or bed for the time of work in a given place (including such works as land melioration, geodetic measurements, forest cut-down or building constructions);
- persons living in the household and employed as au pairs, helping personnel on the farm, craft apprentices or trainees.

#### Weights

A two-stage sampling scheme with differentiated selection probabilities at the first stage was used. Prior to selection, sampling units were stratified. The first-stage sampling units (primary sampling units - PSU) were enumeration census areas, while at the second stage the selection of dwellings was conducted. All the households from the selected dwellings are supposed to enter the survey.

According to Central Statistical Office (2016d): "The strata were the regions (voivodships or parts of a voivodship, according to NUTS 2 classification) and within the regions primary sampling units were classified by class of locality. In urban areas census areas were grouped by size of town13. Big cities formed independent strata, but in the five largest cities districts were treated as strata. In rural areas strata were represented by rural gminas of a subregion or of a few neighbouring powiats. Altogether, 254 strata were distinguished."

It was decided that the sample should include about 24 000 dwellings in the first year of the survey (2005). Proportional allocation of dwellings to particular strata was applied. The number of dwellings selected from a particular stratum was in proportion to the number of dwellings in the stratum. Furthermore, the number of the first-stage units selected from the strata was obtained by dividing the number of dwellings in the sample by the number of dwellings determined for a given class of locality to be selected from the first-stage unit. In towns with over 100 000 population 3 dwellings per PSU were selected, in towns with 20-100 thousand population – 4 dwellings per PSU, in towns with less than 20 000 population – 5 dwellings per PSU, respectively. In rural areas 6 dwellings were selected from each PSU.

Design factor – DB080 is equal to the dwelling sampling fraction reciprocal in the h-th stratum. DB080 weights were adjusted with the use of household non-response rates estimated for each class of locality separately.

Class of locality	Completeness rate
Poland	0.835
Warsaw	0.585
Towns 500 000 – 1 000 000 inhabitants	0.725
Towns 100 000 – 500 000 inhabitants	0.867
Towns 20 000 – 100 000 inhabitants	0.889
Towns less than 20 000 inhabitants	0.863
Rural areas	0.864

Table 3.2 Descriptive statistics – interview response rates

#### Non-response

Household non-response rate was 25.9%. The number of contacted households was 18,310 out of 18,387 in the sample and 15,301 interviews were conducted. The main reason for lack of contact was "There is no dwelling at the address" (60 cases). The main reason of non-responding was "Refusal to co-operate" (1,564 cases) and "Inability to make contact with the household" (196 cases).

The number of accepted interviews for people at age of 16 or more was 28,843. There were 19,281 face to face interviews and 9,625 proxy interviews among them. The interviewers decided on proxy interviews only if the substitute respondents were well informed about the situation

in the household and there was no other possibility to get the information. Proxy interviews were performed in the following situations:

- 1. no contact with the respondent because of long-term absence (e.g. work in another town or abroad);
- 2. respondent's disability, illness or pathology (such as alcoholism);
- 3. according to other members of the household, the respondent was only available late at night and was not willing to participate in such a long interview, while at the same time the proxy could provide detailed information, even based on the documents, such as tax statements.

# 3.2 Data adjustment

No household was dropped from the sample. There were no adjustments of weights performed as well.

# **3.3** Imputations and assumptions

# 3.3.1 Time period

Socio-demographic information in EU-SILC 2020 - such as age, marital status, household composition, education, living condition, health, refer to year of data collection (2020).

Information on labour market activity and working history covers partially year of data collection and in some characteristics refer to year 2019. This includes information on working status in 2020, attributes of employing company (such as size and sector) or changes of labour market activities in year 2019 and reasons of that changes.

The EU-SILC UDB information on incomes refers to the year 2019. It includes i.e. employment income, self-employment income, unemployment benefits, old-age benefits, survivor' benefits, sickness benefits, disability benefits. Monetary amounts in the original variables are usually denoted in yearly amounts in Euro.

For most income variables, information on for how many months given income source or benefit was received is available. In ascertainment of few benefits take-up period in months, additional information from Central Statistical Office played important role, like for example in case of family benefits, unemployment benefits or social assistance.

In EUROMOD database monetary amounts from EU-SILC data which are expressed in annual amounts were divided by 12 and are denoted in national currency.

# 3.3.2 Gross incomes

Although the official publication entitled: "Incomes and living conditions of the population in Poland (report from the EU-SILC survey of 2020)" which had been published by the Central Statistical Office contains a section devoted to data imputation, the description of imputation process applied to missing gross income variables is very general and it does not clearly state which methods were applied in imputation of particular gross/net income variables.

The report suggests that missing income data was imputed with either use of stochastic or deterministic imputation methods and it describes downsides and strengths of both imputation methods groups. Moreover, it mentions that in the imputation process of missing data or incomplete survey data, such methods as hot-deck method, regression imputation with randomly

selected empirical residuals, regression deterministic imputation and deduction imputation were used.

# **3.3.3 Disaggregation of harmonized variables**

# Indicators provided by the Polish Central Statistical Office

Annual information for incomes is available in UDB SILC. The main disadvantage of this dataset is the fact that incomes are aggregated into a limited number of broad income categories and that the data does not include specific crucial information from the point of view of microsimulation, such as disability status, flat size and farm size.

One important consequence of income aggregation in UDB SILC is that the same source of income may appear in several aggregated categories. In the case of Poland this applies in particular to:

- 1) nursing benefit, which falls into either: old-age benefits, disability benefits or income received by individuals aged under 16,
- 2) survivor's pension, which may be included in survivor pensions, old-age benefits or income received by individuals aged under 16,
- 3) retirement pension which may be included in old-age benefits or family related benefit (if a person is below the statutory retirement age and retired in order to take care of a disabled child).

The primary database for the purpose of microsimulation in EUROMOD is the UDB SILC. On a special request from the Polish partner, the Centre for Economic Analysis, the Polish CSO prepared an additional database with data on flat size, farm size, disability levels and dummy variables indicating receipt of a specific income item (without amounts). Thanks to this information, we can identify, for example, that nursing allowance or family allowance was reported by a specific household, but we have no information about the amounts. The dataset provided by the Polish Central Statistical Office was used to generate microsimulation indicators which were matched with the UDB SILC database. A complex set of imputations has been applied to this combined data to disaggregate some elements of the aggregated UDB incomes, which has substantially improved the quality of data validation process and subsequently also the simulations. We are very grateful to the representatives of the Polish CSO for making the indicator data available and for their helpful assistance. Below we refer to this database as the SILC national indicator database (SILC-NID).

PLEASE NOTE – any EUROMOD analysis using the data for Poland must, in addition to the general data acknowledgement include the following statement: "Microsimulation SILC indicator dataset complementing the Polish UDB SILC database was provided for the purpose of income source identification in EUROMOD by the Polish Central Statistical Office."

# Income disaggregation

Incomes aggregation in UDB SILC is presented below.

Table 3.3 Income aggreagtion in UDB SILC 2020

UDB-SILC variable		Non-simulated	Simulated
Cash employee income or near cash income	py010g	Labour Act employment, Civil Law employment, Maternity leave benefit, Sickness benefit	
Self-employment income	py050g	Business self-employment income, Agricultural self-employment income.	
Unemployment benefits	py090g	Pre-retirement allowance, Pre-retirement benefits, Employment gratuity	Unemployment benefits (partially)
Old-age benefits	py100g	Old-age pension, Supplements to pensions, Retirement gratuity, Rehabilitation allowance, Survivor's pension, structural pension	Nursing allowance Nursing supplement
Survivor' benefits	py110g	Survivor's pension, Supplements to pensions	
Sickness benefits	py120g	Sickness benefits, Compensation for injury	
Disability benefits	py130g	Disability pension, training supplement, rehabilitation allowance, Social pension Special scholarship for disabled student Supplements to pensions	Nursing benefit
Family/children related allowances	hy050g	Supplement to lone parent Supplement for education outside living place) Alimony down payment, Old-age pension Supplements to pensions	Family allowance, childcare leave supplement, Supplement to lone parent, Supplement for large families, Child birth supplement, Education and rehabilitation of disabled child, Supplement for starting school, One-off child birth benefits, Maternity benefit, Nursing allowance, Special nursing allowance, childcare allowance, start of school year allowance
Social exclusion	hy060g	Other special allowances from Social Assistance, Other financial support from NGOs	Permanent Social Assistance, Temporary Social Assistance

Income received	hy110g	Survivor's pension, Scholarship,	Nursing benefit	
by people aged				
under 16				

The variables from SILC were separated into EUROMOD variables using the variables from the SILC-NID as follows:

Table 3.4 Data	disaggreation	using nationa	1 indicators	(EU-SILC ->	> EUROMOD)
				(	

	SILC variables				
	py090g	py130g	py100g	py110g	hy100g
EUROMOD variables:					
bun	bun				
pyr	pyr				
ysv	ysv				
pdi00		pdi00	poadp		
poa00			poa00 poafr poasp		nau sh
psu00		ndina	psu_poa	psu00	psu_cb
pdiuc pdinw		pdiuc pdinw	poa_pdiuc		psu_uc
bed		pdiiw pdist			psu_ed
		puisi			psu_ea psu_emp
poaot psuot			poart	psu_dg	

Variables written in italics (e.g. poadp, poafr, poasp, psu\_poa, psu\_cb,psu\_uc, psu\_ed, psu\_emp, pdist, poart, psu\_dg) are not included in the final dataset. They are components of EUROMOD variables. After disaggregating SILC variables and aggregating components into EUROMOD variables one may assume that:

- 1. a number and a value for old-age pension (poa00) should be smaller in Euromod than in UDB (py100g) since some observations are re-classified as disability pension (pdi00) or survivor pension (psu00) or nursing benefit (pdiuc) or other old-age benefit (poaot);
- 2. a number and a value for disability pension (pdi00) should be similar to the values in UDB. However some observations for disability pensions from UDB were re-classified into nursing benefit (pdiuc) or social pension (pdinw) or education benefit (bed) while some observations from py100g were added to pdi00;
- 3. a number and a value for survivor pension (psu00) should be significantly above values in UDB due to survivor pensions paid to children that are part of hy100g and the pensions paid to widows in retirement age that are included in py100g;
- 4. nursing benefit (pdiuc) is imputed from components of py130g, py110g and hy100g;
- 5. social pension (pdinw) is part of py130g;
- 6. other old-age benefit (poaot) includes severance payment to retirees;
- 7. Other survivor pensions (psuot) includes death grant;
- 8. "Incomes received by people aged under 16" (hy110g) included in survivor pension (psu00), nursing benefit (pdiuc) and education benefits (bed) are allocated to the main person in a household (int\_order = 1).

Special treatment was applied to family benefits (hy050g). The variable includes main family allowance, supplements to it, maternity benefit and other minor transfers. Family allowance is often main object of policy change that is why it is important to separate simulated and non-simulated incomes. Otherwise, we would not be able to correctly define incomes while simulating housing benefit and social assistance and it would be impossible to measure hypothetical disposable income. Components of hy050g were identified by comparison of the declarations in the SILC-NID data with system values.

Simulated and in UDB		Non-simulated and in UDB		
bch00	Main family allowance	bcc	Childcare leave supplement	
bchlp00	Main lone parent supplement	bchunlp	Minor lone parent supplement	
bchlg	Large family supplement	bchoe	Outside education	
bchba	Child birth supplement	bma	Maternity benefit	
bchuc	Universal child birth allowance	bfaam	Alimony Fund allowance	
bcrdi	Nursing allowance	bchfsa	Foster family benefit	
bdinc	Special nursing allowance			
bchcc	Childcare allowance			
Simulated	l but not in UDB			
bchdied	Education and rehabilitation supp.			
bched	Starting school supp.			
bed00	Start of school year allowance			

# Table 3.5 Disagregation of family benefits (hy050g)

Social exclusion benefits (hy060g) are split into three variables: permanent social assistance (bsapm), temporary social assistance (bsatm) and other social assistance (bsaot).

# Table 3.6 Disagregation of social exclusion benefits (hy060g)

Simulated and in UDB		Non-simulated and in UDB	
bsapm	Permanent social assistance	bsaot	Special social assistance and help from NGO's
bsatm	Temporary social assistance		

#### **Farmer status imputation**

Social security contributions for farmers and agricultural tax are based on the size of arable land. This makes it necessary to identify famers in the model. While creating EUROMOD dataset, the main information used to derive farmer status was question dg4 which is collected at the household level. This question gives answer to whether particular household conducted agricultural activity in 2019. In order to impute the farmer status from household level data, additional conditions were checked for in Euromod's dataset 2020. Imputation includes two stages. In the first stage a person is classified as a farmer if she/he:

- 1. is a member of a household conducting agricultural activity and
- 2. has economic status either of farmer, employer/self-employed, employee, inactive person or status 'other' and
- 3. is older than 15 years old and
- 4. does not have employee cash or near cash income

A person is not classified as a farmer if they use a farm and income from self-employment is not declared but income from paid-employment is positive. If the number of farmers identified by the first stage is lower than the number of household members paying farmer social contributions in the household (question dg10), an additional round of imputation is conducted. The second round of imputation is performed with use of the same conditions as those enumerated in the first stage of imputation.

#### **Imputed housing rent**

Values for mortgage interest per square metre are imputed if a reported value is above the median. The imputation is based on a linear prediction with flat size, degree of urbanization, dwelling type, number of rooms available to the household, household size, household type and total disposable household income.

# 3.4 Uprating

To account for any time inconsistencies between the input dataset and the policy year, uprating factors are used. Each monetary variable (i.e. each income component) is updated so as to account for changes in the non-simulated variables that have taken place between the year of the data and the year of the simulated tax-benefit system. Uprating factors are generally based on changes in the average value of an income component between the year of the data and the policy year.

As a rule, uprating factors are provided both for simulated and non-simulated income components present in the input dataset. Note however that in the case of simulated variables, the actual simulated amounts are used in the baseline rather than the uprated original variables in the dataset. Uprating factors for simulated variables are provided so as to facilitate the use of the model in cases when the user wishes to turn off the simulation of a particular variable. The list of uprating factors as well as the sources used to derive them can be found in Annex 1 (Table 8.1).

# 4. VALIDATION

# 4.1 Aggregate Validation

EUROMOD results are validated against external benchmarks. Detailed comparisons of the number of people receiving a given income component and total yearly amounts are shown in Annex 3. Both market incomes and non-simulated taxes and benefits in the input dataset as well as simulated taxes and benefits are validated against external official data. The main discrepancies between EUROMOD results and external benchmarks are discussed in the following subsections. Factors that may explain the observed differences are also discussed.

# 4.1.1 Components of disposable income

The components of disposable income used in EUROMOD and in EU-SILC data are listed in the table below. Although almost all income components from the table are present in both concepts of disposable income, there are some differences between disposable income calculated in EUROMOD and in EU-SILC.

While fringe benefits, such as company cars are present in EU-SILC disposable income, EUROMOD disposable income (ils\_dispy) does not include them. The values of pensions from individual private plans are included in EUROMOD disposable income while in EU-SILC this value is omitted. Finally, the repayments/receipts for tax adjustment are not taken into account in EUROMOD, while in EU-SILC they are present.

Total disposable household income in EU-SILC (HY020) is computed as the sum of all household members' gross personal income components and gross income components at household level minus: regular taxes on wealth, regular inter-household cash transfer paid, tax on income and social insurance contributions. What in EU-SILC variables notation can be denoted as:

$$\begin{split} HY020 &= \sum PY010G + \sum PY021G + \sum PY050G + \sum PY080G + \sum PY090G + \sum PY100G + \\ \sum PY110G + \sum PY120G + \sum PY130G + \sum py140G + HY040G + HY050G + HY060G + \\ HY070G + HY080G + HY090G + HY110G - HY120G - HY130G - HY140G \end{split}$$

The standard disposable income in EUROMOD (ils\_dispy) is calculated as follows:

ils\_dispy = Original income (ils\_origy) + benefits (ils\_ben) - taxes (ils\_tax) - employee social insurance contributions (ils\_sicee) - self-employed social insurance contributions (ils\_sicee).

	EUROMOD	EU-SILC
	ils_dispy	HY020
Employee cash or near cash income	yem	py010g
Employer's social insurance contribution	tscer_s	py030g
Company car	-	py021g
Contributions to individual private pension plans	xpp	py035g
Cash benefits or losses from self-employment	yse	py050g
Pension from individual private plans	урр	py080g
Unemployment benefits	bun_s	py090g
Old-age benefits	poa	py100g
Survivor' benefits	psu00, psuot,	py110g
	psuor	
Sickness benefits	bhl	py120g
Disability benefits	pdi00, pdinw,	py130g
	pdiuc_s	
Education-related allowances	bched_s,	py140g
Income from contel of a property or land	bchdied_s	$h_{\rm rel} 0.40$ a
Income from rental of a property or land $\sum_{i=1}^{n} \frac{1}{i!} $	ypr	hy040g
Family/children related allowances	bch00_s, bchba_s,	hy050g
	bchlp00_s, bchlg_s, bchuc_s,	
	bchbamtna_s,	
	bdinc_s	
	bchot	
Social exclusion not elsewhere classified	bsapm_s, bsatm_s	hy060g
Housing allowances	bho_s	hy070g
Regular inter-household cash transfer received	ypt00,	hy080g
	yptmp	
Interests, dividends, etc.	yiy	hy090g
Income received by people aged under 16	yot	hy110g
Regular taxes on wealth	tpr	hy120g
Regular inter-household cash transfer paid	xmp	hy130g
Tax on income and social contributions	ils_tax	hy140g
	ils_sicee	
	ils_sicse	1 147
Repayments/receipts for tax adjustment	0	hy145n

#### Table 4.1 Components of disposable income

#### 4.1.2 Validation of market incomes

Macrovalidation tables are included in Annex 3. Simulations are done using policy rules valid as of the 30th June.

The first step of validation concerns the components of market income in scope of recipient numbers and its aggregated values. Relevant values are included in Table A3.1 for number of recipients and in Table A3.2 for values of aggregates. Limited availability of external statistics restricts the validation of market income components. Those statistics that are accessible refer to the numbers of recipients and the values of employment and self-employment income.

The number of permanent employment income recipients in EU-SILC (12,068 thousand recipients) fits well with the values reported by CSO for years 2020-2021. The ratios between EUROMOD and external statistics fall in the range between 100% and 102%. The agriculture

self-employment income recipients number accounts for 833 thousand individuals in EUROMOD database and it is under the number reported by external statistics with a ratio equal to 87%. Non-agriculture self-employment income recipients number accounts for 2,335 thousand individuals in EUROMOD database and it is above the number reported by external statistics with ratios equal to 119-122%.

Aggregated values of 2020 permanent employment income in the EUROMOD database are exactly the same as values presented in external statistics. Relevant ratios for years 2020 and 2021 equal to 100% and 96%. The value of self-employment income is not possible to compare with external statistics, as the administrative data aggregates the self-employed with employers, meaning that the income of business owners is included the total value. Furthermore, as it is stated in the list of EU-SILC target variables<sup>3</sup>: "collection of accurate income information from the self-employed is one of the most problematic areas for surveys". The self-employed often do not separate their business and personal finances while they are responding to survey questions. Moreover, it is said that the self-employed are less likely than the employed to respond to income surveys, which results in a higher level of item non-response. Finally, the financial and accounting framework used in the construction of national accounts by statisticians does not relate well to those used by the self-employed.

# 4.1.3 Validation of taxes and social insurance contributions

Table A3.3 contains the validation of the number of simulated taxes/social security contributions payers. The number of employees who contribute to social insurance looks poorly identified by the model. The simulation for 2020 returns 135% of the number of employees paying SIC, with the ratio slightly decreasing to 133% in 2020 and 131% in 2021 and 2022. When it comes to aggregated values, the simulation for 2020 returns 58% of contributions paid by employees, 54% in 2021 and 59% in 2022. However, it is important to highlight that EUROMOD output and external data are measured using different units: EUROMOD output counts the number of payers in a year; external statistics measure the average monthly number of payers. The latest statistic for the number of persons employed in the "shadow economy" is from 2022, and is estimated at around 342 thousand<sup>4</sup>. This supports the assumption that unregistered employment is the main reason for the observed differences both in the case of the simulated number of contributions payers and simulated aggregated values as well. The same arguments are valid for simulated employer contributions.

The simulated number of the self-employed who pay social security contributions is 15% above the figure sourced from external data for 2020 and 2022 and 12% in 2021. When it comes to aggregated values simulated for 2020, the simulated values of self-employed contributions are 63% above benchmark value, with an oversimulation of 37%-38% in 2021-2022. Similar explanations to those described above for employees apply for the self-employed too. The model simulates the number of contributors in a year, while administrative data is expressed as a monthly average. Moreover, there is also a concern about unregistered economic activity of the selfemployed that is not reflected by the model. The number of self-employed who contribute for illness insurance is over-simulated because the model assumes that it is paid by all self-employed, while the contribution is voluntary. Moreover, part of the observed discrepancies might, to some extent, be explained by the application of the 60% rate used to calculate the income base for selfemployed social contributions. In reality, the self-employed running a business for less than two years and those who are disabled can use a reduced rate of 30% to calculate the income base for self-employed social security contributions. The simulated number of payers of social contributions for farmers has ratios of 181% and 187% in 2020 and 2021%.

<sup>&</sup>lt;sup>3</sup>Eurostat (2016).

<sup>&</sup>lt;sup>4</sup> Central Statistical Office (2019b).

Ratio for the number of income tax payers for 2020 is simulated with an accuracy of 89%, increasing to 91% in 2021, when compared to external statistics. There is a significant drop in the number of taxpayers in 2022 resulting from the increase of the tax free allowance from PLN 8,000 to PLN 30,000 per year. The aggregated value for personal income tax is oversimulated by 16% in 2020, 10% in 2021 and undersimulated by 36% in 2022. Again, the 2022 tax reform led to significant reduction in income tax revenues. This effect is oversimulated, since the reform cuts taxes for a vast majority of the income distribution, but increases taxes for the richest households. These missing top incomes in the data mean that these additional revenues from the reform are missing in the simulated income tax revenues.

#### 4.1.4 Validation of benefits

Table A3.5 present a validation of the number of recipients of benefits. Looking closer to subgroups of pensioners reveals an oversimulation in the number of retirement pension recipients with a ratio of 117% for 2020 and a ratio of 118% in the group of disability pension recipients for 2020. At the same time the number of survivor's pension recipients is undersimulated in 2020-2022 with ratios of 52%-53%. The undersimulation of the number of survivors pension recipients may be partially explained by the fact that those benefits can be perceived by their claimants as either old-age (retirement) or disability pensions and incorrectly reported in the survey data. If one would add up the numbers of recipients of disability, retirement and survivor's pensions and compare it with the relevant sum of external statistics then the ratio of accuracy would be 92%-93%. This shows that in general the information about recipients of disability, old-age and survivors pensions in EUROMOD is accurate. The number of recipients of the social pension and early retirement pension is not very accurate in the data with ratios of 89% and 153% respectively in 2021. Unfortunately, the statistics that allow for the validation of the number of recipients of other non-simulated benefits included in Table A3.5 are not provided in publicly available sources.

In general, the validation of non-simulated pension aggregated amounts result in similar observations as in the case of recipient numbers. Overall simulated amount of pensions in Table A3.6, which includes disability pensions, old-age pensions, survivors pension and pre-retirement benefit is almost the same as aggregated amount in external statistics. In income reference year 2019 disability pension amounts are undersimulated with ratios of 81%-84%, and survivor pension amounts have a ratio of 40%-44%. Undersimulation of survivors benefit aggregated amounts has the same explanation as in the case of number of recipients. Taking all old-age benefits together, they are simulated with an accuracy of 107% in 2020, which is quite close to the official statistics. The claimants of those benefits presumably reported them in the survey as old-age pensions. Similarly, as in case of the number of recipients, there is no clear explanation of deviations of simulated values of pre-retirement benefits from the values reported in official statistics.

The property tax validation shows that households included in the data paid 16% of the total value reported by the Ministry of Finance in 2020 and 2022, which may be accurate because, except for households, private companies and state entities are also liable to pay property tax.

The validation of the number of recipients of family allowance and its supplements is hampered due to the fact that the EUROMOD output in this case is on a family level and most official statistics concerning family benefits reflect the number of children. The only external statistics concerning family benefits expressed in number of families eligible are those about families claiming family allowance and supplement due to childcare leave. The number of recipients of main family allowance is undersimulated by the model. For 2021, the model simulates that 605 thousand of families were eligible to family allowance. This number accounts for 89% of the families reported in official statistics.

Aggregated amounts of simulated family benefits in Table A3.6 show that eligibility identification is the main problem in case of family benefits simulation. Simulated values of family allowance range between 67% to 76% of relevant administrative data, while ratios of simulated values of supplement for child birth vary from 67% to 88% in 2020-2022 Aggregated values of the supplement for starting the school year are not much similar compared to benchmark statistics, capturing 65% to 74% of the supplement. Simulated values of the supplement for large families accounts for 54% to 67% of external statistics, while the supplement for lone parents ranges between 54% to 64% of the benchmark data. The simulated aggregated amount of child-birth allowance is oversimulated by 23%-31% in 2020-2022.

Identification of recipients of the nursing benefit also proved challenging. It is an important condition since according to the criteria for claiming the nursing benefit individuals above 16 years old with a moderate degree of disability can claim the benefit if their disability started before reaching the age of 21. This factor is being controlled in the simulation of the nursing benefit by the condition that an individual with a moderate degree of disability is granted the benefit if he declared take-up of the benefit in the national SILC data.

The simulated number of nursing benefit recipients has a ratio ranging from 91% in 2022 to 122% in 2020 comparing to the numbers reported in official statistics. The oversimulation of number of nursing benefit recipients in 2020 might be explained by the fact that this benefit is partially simulated based on the declaration of take-up in the data.

The simulated number of recipients of the unemployment benefit for 2020-2022 is 168 thousand, while in official statistics it is 114-160 thousand. This slight oversimulation in EUROMOD occurs because it is the total number of recipients in a year, while external source gives a monthly average number of recipients. It is impossible to know the duration for which each recipient continues to receive the benefit. The duration varies depending on the conditions of unemployment, and thus they are often paid for less than 12 months. Still, some of the benefits are paid for 12 or even 18 months. Hence, it seems that the SILC database could represent unemployment benefit claimants accurately, but there are challenges in calibrating the value of the benefit, with a ratio of 42% in 2020 to 66% in 2022.

The simulation for 2020 identifies 88% of the aggregate value of housing benefits that year, but this grows to 104% in 2022. Unfortunately, the government only releases data on the number of benefits paid, rather than the number of recipients. The real eligibility test for housing benefit consists of the income test and an informal assets test by local administration, while the simulation of housing benefit recipients number is based on fulfilment of income eligibility criteria and declaration of benefit take-up in input data. Since there is no set duration for benefit eligibility, it is not possible to assess the number of recipients based on the number of paid out benefits. On the other hand, the aggregate value of the start of school year allowance was simulated with 99% accuracy in 2022.

# 4.2 Income distribution

All income distribution results presented here 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.

#### 4.2.1 Income inequality

In Table A3.7 we present income distribution indicators such as decile shares in the population, median and mean equivalised incomes, Gini coefficient and income quantile ratio. In income reference year 2019, shares of the lower income decile groups are almost exactly simulated, with ratios of +/-3%, while the 10<sup>th</sup> decile group is undersimulated by 2% and the 1<sup>st</sup> decile is oversimulated by 3%.

Median equivalised incomes and mean incomes are 100% and 97% of the benchmark in 2020, respectively. The Gini coefficient is simulated quite accurately (98% and 99%) according to external statistics from 2020 and 2021. Income quantile ratio simulated in EUROMOD is equal to 96% in 2020 and 98% in 2021.

# 4.2.2 Poverty rates

Validation of at risk of poverty rates calculated using EUROMOD is presented in Table A3.8. For 2020, the simulated number of individuals below 40% of the median household disposable income is slightly undersimulated, with a ratio of 86% and 84% in 2021. The simulated proportion of individuals below 50% median household disposable income poverty line is closer to the benchmark for 2020 and 2021 (96% and 97%). At the same time the simulated number of people with income below 60% median household disposable income is simulated with 97% accuracy in 2020 and 103% in 2021, with the same simulated share of population living with income below 70% of the median HDI..

The simulated share of people from different age groups living with income below 60% of the median HDI in 2020 is 76% for population aged 0-15, 100% for population aged 16-24, 87% for population aged 25-49, 100% for the population aged 50-64 years and 118% for the population aged 65+. Data for the following year (2021) in most cases are slightly less accurate when compared to external statistics.

#### 4.3 Summary of "health warnings"

Some particular aspects should be borne in mind while using the Polish part of EUROMOD:

- 1) the weights do not control for different sources of non-response;
- 2) many sources of income are combined into one variable in EU-SILC what makes difficult to separate:
  - a) agricultural and business self-employment incomes and employment statuses;
  - b) temporary and permanent employment incomes and statuses;
  - c) work employment and sickness benefit;
- 3) simulated and non-simulated supplements to family allowance.
- 4) there are concerns that declarations on self-employment are not reliable;
- 5) the model assumes full benefit take-up and full compliance with taxes;
- 6) grey economy influence is not taken into account by the model;
- 7) tax card and lump-sum tax are not modelled in EUROMOD;
- 8) for the purpose of revenue costs assessment it is assumed that one job is performed by employees and self-employed at the area of residence;

- 9) lowered income base for disabled self-employed and those conducting business activity for less than 2 years is not modelled in EUROMOD.
- 10) The simulation of monetary compensation schemes (benefit for persons working under civil law contracts and self-employed person, SSC exemption for small firms, salary co-financing for firms with sufficient revenue losses, salary co-financing for workers with reduced working hours, and the furlough scheme) 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.
- 11) 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 2021 to be higher than disposable income in previous years.

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#### **ANNEX 1. UPRATING FACTORS**

Index	Income Source/index type	2020	2021	2022	2023
\$f_h_cpi	Eurostat / Harmonized Indices of Consumer Prices (HICP)	136.2	141.77	161.97	179.68
\$f_lab_cost	Central Statistical Office / Statistical Bulletin / Average monthly wages and salaries – grand total, IV-VI	5024.48	5504.52	6156.25	7124.26
\$f_ret_pen	Central Statistical Office / Statistical Bulletin / Average monthly retirement pay and pension in PLN / from non-agricultural social security system / retirement pay	2544.6	2711.42	2995.29	3562.7
\$f_dis_pen	Central Statistical Office / Statistical Bulletin / Average monthly retirement pay and pension in PLN / from non-agricultural social security system / disability pension	2061.96	2147.16	2344.41	2754.33
Sf_fam_pen	Central Statistical Office / Statistical Bulletin / Average monthly retirement pay and pension in PLN / from non-agricultural social security system / family pension	2261.56	2421.49	2629.5	3068.88
\$f_gdp	Central Statistical Office / National accounts / The CSO information on quarterly GDP estimate / Gross Domestic Product	2295232.2	2463885.5	2823983.4	3184519.2

#### Table 8.1 Raw indicies for deriving EUROMOD uprating factors

Source: Central Statistical Office (2019b-2022b), Eurostat

Variable	Variable label	Update factor	Factor reference				
variable	v ar lable label	Opuate factor	name				
afc	assets: financial capital	Growth of HICP	\$f_h_cpi				
aoc	assets : other capital	Growth of HICP	\$f_h_cpi				
bch	benefit : child	Growth of HICP	\$f_h_cpi				
bch00	benefit : child : main/basic	Growth of HICP	\$f_h_cpi				
bchba	benefit : child : birth/adoption	Growth of HICP	\$f_h_cpi				
bchdied	benefit : child : disability : education	Growth of HICP	\$f_h_cpi				
bched	benefit : child : education	Growth of HICP	\$f_h_cpi				
bchlg	benefit : child : large family	Growth of HICP	\$f_h_cpi				
bchcc	benefit : child : childcare allowance	Growth of HICP	\$f_h_cpi				
bed00	benefit : child : start of school year	Growth of HICP	\$f_h_cpi				
bchlp	benefit : child : lone parent	Growth of HICP	\$f_h_cpi				
bchlp00	benefit : child : lone parent : main/basic	Growth of HICP	\$f_h_cpi				
bchot	benefit : child : other	Growth of HICP	\$f_h_cpi				
bec	benefit : child care	Growth of HICP	\$f_h_cpi				
bee	benefit : child : unconditional/universal	Growth of HICP	\$f_h_cpi				
benue	benefit : child : unemployment : lone	Glowin of filer	-				
bchunlp	parent	Growth of HICP	\$f_h_cpi				
berdi	benefit : caring : disability	Growth of HICP	\$f_h_cpi				
bdinc	benefit : disability : non-contributory	Growth of HICP	\$f_h_cpi				
bed	benefit : education	Growth of HICP	\$f_h_cpi				
bfa	benefit : family	Growth of HICP	\$f_h_cpi				
bfaam	benefit : family : unpaid alimony	Growth of HICP	\$f_h_cpi				
bfaot	benefit : family : other	Growth of HICP	\$f_h_cpi				
bhl	benefit : health	Growth of HICP	\$f_h_cpi				
bho	benefit : housing	Growth of HICP	\$f_h_cpi				
bma	benefit : maternity	Growth of HICP	\$f_h_cpi				
bot	benefit : other	Growth of HICP					
bsa	benefit : social assistance	Growth of HICP	\$f_h_cpi \$f_h_cpi				
bsaot	benefit : social assistance : other	Growth of HICP	\$f_h_cpi \$f_h_cpi				
		Growth of HICP	\$f_h_cpi				
bsapm	benefit : social assistance : permanent benefit : social assistance : permanent :		\$f_h_cpi				
bsapmot	other	Growth of HICP	\$f_h_cpi				
bsatm	benefit : social assistance : temporary	Growth of HICP	\$f_h_cpi				
bun	benefit : unemployment	Growth of HICP	\$f_h_cpi				
		Growth of					
hur	hanafit : aarly ratiramant	average	\$f rot non				
byr	benefit : early retirement	retirement pensions	\$f_ret_pen				
kfb	in kind : fringe benefit	Growth of HICP	\$f h oni				
		Growth of HICP	\$f_h_cpi \$f_h_cpi				
kfbcc kivho	in kind : fringe benefit : company car	Growth of HICP	\$f_h_cpi \$f_h_cpi				
KIVIIO	in kind : imputed value : housing	Growth of	\$f_h_cpi				
pdi	pension : disability	average	\$f_dis_pen				
	-	disability	-				
		pensions					
		Growth of					
pdi00	pension : disability : main/basic	average	\$f_dis_pen				
r	r and a sub-line j + main busic	disability	+				
		pensions					
		Growth of					
pdinw	pension : disability : not working	average	\$f_dis_pen				
Pantw	pension . disability . not working	disability	φı_uis_pen				
		pensions					

#### Table 8.2 Uprate factors

pdiuc poa	pension : disability : unconditional/universal pension : old age	Growth of average disability pensions Growth of average retirement pensions	\$f_dis_pen \$f_ret_pen
poa00	pension : old age : main/basic	Growth of average retirement pensions	\$f_ret_pen
poaab	pension : old age : abroad	Growth of average retirement pensions	\$f_h_cpi
poacm	pension : old age : complement	Growth of average retirement pensions	\$f_ret_pen
poacmdi	pension : old age : complement : disability	Growth of average retirement pensions	\$f_ret_pen
poacmoa	pension : old age : complement : old age	Growth of average retirement pensions	\$f_ret_pen
poacmsu	pension : old age : complement : survivors	Growth of average retirement pensions	\$f_ret_pen
poafr	pension : old age : farmer	Growth of average retirement pensions	\$f_ret_pen
poaot	pension : old age : other	Growth of average retirement pensions	\$f_ret_pen
psu	pension : survivors	Growth of average survivors pensions	\$f_fam_pen
psu00	pension : survivors : main/basic	Growth of average	\$f_fam_pen

		survivors pensions Growth of	
psuor	pension : survivors : orphan	average survivors pensions	\$f_fam_pen
		Growth of	
psuot	pension : survivors : other	average survivors	\$f_fam_pen
		pensions Growth of	
		average	
		survivors	
psuwd	pension : survivors : widow	pensions Growth of	\$f_fam_pen
pyr	pension : early retirement	retirement penisons	\$f_ret_pen
tad	tax : repayments/receipts	No uprating	\$f_one
tin	tax : income tax	No uprating	\$f_one
tis	tax : income tax and sics	No uprating	\$f_one
tpr	tax : property tax	Growth of HICP	\$f_h_cpi
tscee	tax : sic : employee	No uprating	\$f_one
tscer	tax : sic : employer	No uprating	\$f_one
tscse	tax : sic : self-employed	No uprating	\$f_one
хсс	expenditure : child care	Growth of HICP	\$f_h_cpi
xcd	expenditure : charitable donations	Growth of HICP	\$f_h_cpi
xcmie	expenditure : communication : internet	Growth of HICP	\$f_h_cpi
xhc	expenditure : housing cost	Growth of HICP	\$f_h_cpi
xhc00	expenditure : housing cost : main/basic	Growth of HICP	\$f_h_cpi
xhchm	expenditure : housing cost : house maintenance	Growth of HICP	\$f_h_cpi
xhcmo	expenditure : housing cost : mortgage payment (interest+capital)	Growth of HICP	\$f h oni
xiiciiio	expenditure : housing cost : mortgage payment (interest+capital) : mortgage	Growth of HICP	\$f_h_cpi
xhcmomc	capital		\$f_h_cpi
	expenditure : housing cost : mortgage	Growth of HICP	ф1_n_•р1
	payment (interest+capital) : mortgage	Growin of filer	
xhcmomi	interest		\$f_h_cpi
xhcot	expenditure : housing cost : other	Growth of HICP	\$f_h_cpi
xhcrt	expenditure : housing cost : rent	Growth of HICP	\$f_h_cpi
Allert	expenditure : housing cost : rent expenditure : housing cost : service	Growth of HICP	\$1_11_\$P1
xhcsc	charges		\$f_h_cpi
	expenditure : housing cost : service	Growth of HICP	+- <u>_</u> <u>-</u> -F-
xhcscel	charges : electricity	Growth of HICP	\$f_h_cpi
xhcscht	expenditure : housing cost : service charges : heating	Glowin of HICF	\$f h oni
xilesent	expenditure : housing cost : service	Growth of HICP	\$f_h_cpi
xhcscrf	charges : refuse	Glowin of filer	\$f_h_cpi
Allesell	expenditure : housing cost : service	Growth of HICP	φı_n_cpi
xhcscwt	charges : water	Glowin of filer	\$f h oni
xishl	•	Growth of HICP	\$f_h_cpi \$f_h_cpi
	expenditure : insurance : health care expenditure : imputed value : housing	Growth of HICP	\$f_h_cpi
xivhcrt	cost : rent	Crowth of MCD	\$f_h_cpi
xmp	expenditure : maintenance payment expenditure : private pension	Growth of HICP Growth of	\$f_h_cpi
xpp	(voluntary)	average salary	\$f_lab_cost
yds	income : disposable	No uprating	\$f_one

ydses_o	income : equivalized disposable income: original SILC	No uprating	\$f_one
yuses_0	oliginal bille	Growth of	φi_one
yem	income : employment	average salary	\$f_lab_cost
J *	I J	Growth of	
yempj	income : employment : permanent job	average salary	\$f_lab_cost
		Growth of	
yemtj	income : employment : temporary job	average salary	\$f_lab_cost
		Growth of	
yivwg	income : imputed value : wage/salary	average salary	\$f_lab_cost
yiy	income : investment	Growth of GDP	\$f_gdp
yot	income : other	Growth of HICP	\$f_h_cpi
		Growth of	
		retirement	
урр	income : private pension	penisons	\$f_ret_pen
ypr	income : property	Growth of GDP	\$f_gdp
yprrt	income : property : rent	Growth of HICP	\$f_h_cpi
ypt	income : private transfers	Growth of HICP	\$f_h_cpi
ypt00	income : private transfers : main/basic	Growth of HICP	\$f_h_cpi
	income : private transfers : maintenance	Growth of HICP	
yptmp	payment		\$f_h_cpi
yseag	income : self-employment : agriculture	Growth of HICP	\$f_h_cpi
ysebs	income : self-employment : business	Growth of GDP	\$f_gdp
		Growth of	
ysv	income : severance pay	average salary	\$f_lab_cost

#### ANNEX 2. POLICY EFFECTS IN 2022-2023

Table A1 and Figure A1 show the effect of 2023 policies on mean equivalized household disposable income by income component and income decile group. This effect is estimated as the difference between simulated household net income under the 2023 tax-benefit policies (deflating monetary parameters by Eurostat's Harmonized Index of Consumer Prices, HICP) and net incomes simulated under 2022 policies, as a percentage of mean equivalized household disposable income in 2022.

Table A1 and Figure A1 show that between 2022 and 2023 the average equivalised household disposable income (HDI) - measured in real values - from 2023 decreased by 2.18%. This change was mainly driven by a decrease in public pensions (by 0.77%) and increase in direct taxes (by 0.85%). The overall policy effect is negative for the whole distribution. The lowest loss occurred among households in the four top deciles (-1.87% to -2.03% of equivalised HDI), while households in the bottom decile had the biggest loss (4.20% of equivalised HDI). Public pensions shrank by 0.77% on average, with households in the bottom decile losing as much as 1.62% of disposable income. Means-tested and non-means tested benefits also shrank, overall by 0.10% and 0.33% of disposable income, respectively, which was equal to 0,59% and 0,70% in the 1<sup>st</sup> decile.

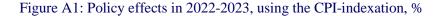
The income group which lost the least was the 10<sup>th</sup> income decile, with an average decrease of equivalised HDI of 1.48%. Households in the bottom deciles saw significant losses from the freezing of means-tested benefits. The higher the decile was, the lower the loss was.

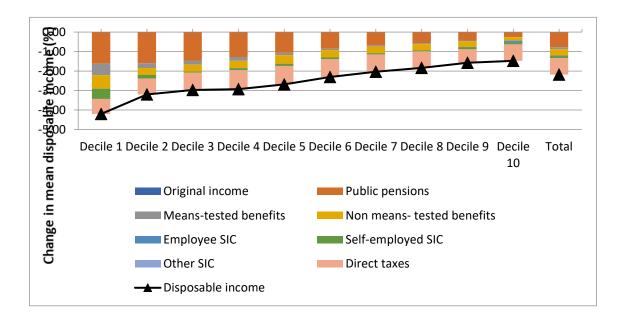
Inflation in 2022 and 2023 was the highest as of the 21<sup>st</sup> century in Poland and there were not many changes in the tax-benefit system, which caused such negative results.

	Original income	Public pensions	Means- tested benefits	Non means- tested benefits	Employee SIC	Self- employed SIC	Other SIC	Direct taxes	Disposable income
Decile 1	0.00	-1.62	-0.59	-0.70	0.00	-0.51	0.00	-0.77	-4.20
Decile 2	0.00	-1.60	-0.25	-0.35	0.00	-0.19	0.00	-0.81	-3.20
Decile 3	0.00	-1.46	-0.21	-0.36	0.00	-0.06	0.00	-0.89	-2.97
Decile 4	0.00	-1.28	-0.20	-0.38	0.00	-0.10	0.00	-0.97	-2.93
Decile 5	0.00	-1.07	-0.13	-0.44	0.00	-0.11	0.00	-0.94	-2.68
Decile 6	0.00	-0.86	-0.07	-0.37	0.00	-0.09	0.00	-0.91	-2.30
Decile 7	0.00	-0.68	-0.06	-0.35	0.00	-0.06	0.00	-0.89	-2.03
Decile 8	0.00	-0.57	-0.06	-0.32	0.00	-0.05	0.00	-0.84	-1.84
Decile 9	0.00	-0.43	-0.04	-0.28	-0.01	-0.11	0.00	-0.69	-1.57
Decile 10	0.00	-0.25	-0.01	-0.18	-0.10	-0.09	0.00	-0.85	-1.48
Total	0.00	-0.77	-0.10	-0.33	-0.02	-0.10	0.00	-0.85	-2.18

Table A1: Policy effects in 2022-2023, using the CPI-indexation, %

Notes: shown as a percentage change in mean equivalised household disposable income by income component and income decile group. Income decile groups are based on equivalised household disposable income in 2022, using the modified OECD equivalence scale. Each policy system has been applied to the same input data, deflating monetary parameters of 2023 policies by Eurostat's Harmonized Index of Consumer Prices (HICP).





ANNEX 3. VALIDATION TABLES

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

	Simulated		EURON	10D			Extern	al		Ratio						
	(Y / N)	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023			
Earnings (ils_earns)																
employment income, permanent job (employment contract) (yempj)	N	12,068	12,068	12,068	12,068	11,872	12,071	NaN	NaN	1.02	1.00	NaN	NaN			
employment income, temporary job (different than employment contract) (yemtj)	N	2,870	2,870	2,870	2,870	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
self-employment income from agriculture (yseag)	N	833	833	833	833	954	954	NaN	NaN	0.87	0.87	NaN	NaN			
self-employment income from business (non-agricultural) (ysebs)	N	2,335	2,335	2,335	2,335	1,920	1,956	NaN	NaN	1.22	1.19	NaN	NaN			
covid-19 compensation paid by the firm (yemmc_s)	Y	0	0	0	0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
Other original income (ils_origy - ils_earns)																
investment income (yiy)	N	374	374	374	374	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
other incomes (yot)	N	79	79	79	79	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
income : private pension (ypp)	N	6	6	6	6	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
property income (ypr)	N	482	482	482	482	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
main private transfer (ypt00)	N	0	0	0	0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
received maintenance payment (yptmp)	N	285	285	285	285	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
Maintenance obligation (xmp)	N	477	477	477	477	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			

Comments
Concise Statistical Yearbook of Poland ;
NOMINAL INCOME OF THE HOUSEHOLDS
-
Concise Statistical Yearbook of Poland ;
NOMINAL INCOME OF THE HOUSEHOLDS
Concise Statistical Yearbook of Poland ;
NOMINAL INCOME OF THE HOUSEHOLDS

Continued		
	Source	Comments
covid-19 compensation paid by the	-	-
firm (yemmc_s)		
Other original income (ils_origy -		
ils_earns)		
investment income (yiy)	-	-
other incomes (yot)	-	-
income : private pension (ypp)	-	-
property income (ypr)	Concise Statistical Yearbook of Poland ; NOMINAL INCOME OF THE HOUSEHOLDS SECTOR ; Property	-
main private transfer (ypt00)	-	-
received maintenance payment	-	"do 30 września 2008 r. — zaliczka
(yptmp)		alimentacyjna", więc już tego nie ma
Maintenance obligation (xmp)	-	"do 30 września 2008 r. — zaliczka

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

	Simulated		EURON	MOD			Extern	al		Ratio						
	(Y / N)	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023			
Earnings (ils_earns)																
employment income, permanent job (employment contract) (yempj)	N	664,974	696,242	787,995	888,147	662,640	728,160	NaN	NaN	1.00	0.96	NaN	NaN			
employment income, temporary job (different than employment contract) (yemtj)	N	113,829	119,182	134,888	152,032	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
self-employment income from agriculture (yseag)	N	23,326	24,177	26,829	27,641	21,124	24,873	NaN	NaN	1.10	0.97	NaN	NaN			
self-employment income from business (non-agricultural) (ysebs)	N	98,866	103,515	117,156	132,047	26,449	29,474	NaN	NaN	3.74	3.51	NaN	NaN			
covid-19 compensation paid by the firm (yemmc_s)	Y	0	0	0	0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
Other original income (ils_origy - ils_earns)																
investment income (yiy)	N	1,324	1,421	1,628	1,836	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
other incomes (yot)	N	403	419	479	531	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
income : private pension (ypp)	N	57	58	59	63	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
property income (ypr)	N	4,245	4,557	5,222	5,889	43,191	49,609	NaN	NaN	0.10	0.09	NaN	NaN			
main private transfer (ypt00)	N	0	0	0	0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
received maintenance payment (yptmp)	N	2,359	2,445	2,713	2,795	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			
Maintenance obligation (xmp)	N	3,513	3,656	4,177	4,634	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN			

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

	Simulated	EUROMOD				SILC				Ratio				External				Ratio			
	(Y / N)	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
Taxes (ils_tax)																					
Personal income tax (tin_s)	Y	23,409	23,551	15,863	18,048	0	0	0	0	0.00	0.00	0.00	0.00	26,449	26,019	NaN	NaN	0.89	0.91	NaN	NaN
Agricultural tax (tag_s)	Y	1,071	1,071	1,071	1,071	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Health insurance contributions (non-	Y	23,427	23,503	23,026	23,446	0	0	0	0	0.00	0.00	0.00	0.00	24,963	25,329	25,424	NaN	0.94	0.93	0.91	NaN
agricultural ZUS>NFZ) (thl_s)																					
tax : capital taxation : simulated (tkt_s)	Y	374	374	374	374	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Health insurance contributions (agricultural KRUS>NFZ) (tfrhl_s)	Y	2,495	2,495	2,495	2,495	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Real estate tax (tpr)	N	11,459	11,459	11,459	11,459	11,459	11,459	11,459	11,459	1.00	1.00	1.00	1.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Employee Social Insurance																					
Contributions (ils_sicee)																					
Employee's social insurance	Y	14,395	14,395	14,395	14,395	0	0	0	0	0.00	0.00	0.00	0.00	10,838	10,985	10,994	NaN	1.33	1.31	1.31	NaN
contributions (ZUS old-age and disability + sickness) (tscee_s)																					
Employee's social insurance	Y	293	293	293	293	0	0	0	0	0.00	0.00	0.00	0.00	276	263	251	NaN	1.06	1 1 1	1.17	NaN
contributions on maternity leave		255	255	255	235	Ū	0	0	Ū	0.00	0.00	0.00	0.00	270	205	231	INCIN	1.00	1.11	1.17	TACTA
(tscmaee_s)																					
Self-employed Social Insurance																					
Contributions (ils_sicse)																					
Farmers' social insurance contributions (KRUS) (tscfr_s)	Y	1,632	1,632	1,632	1,632	0	0	0	0	0.00	0.00	0.00	0.00	900	875	NaN	NaN	1.81	1.87	NaN	NaN
Self-employed social insurance	Y	1,803	1,810	1,797	1,804	0	0	0	0	0.00	0.00	0.00	0.00	1,568	1,619	1,566	NaN	1.15	1.12	1.15	NaN
contributions (ZUS old-age and disability																					
+ sickness) (tscse_s) Employer Social Insurance Contributions																					
(ils_sicer)																					
Employers' social contributions (tscer_s)	Y	14,395	14,395	14,395	14,395	13,435	13,435	13,435	13,435	1.07	1.07	1.07	1.07	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Employer's social insurance contributions	Y	293	293	293	293	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
on maternity leave (tscmaer_s)																					
Credited Contributions (ils_sicct)																					
tax : sic : unemployed : employer :	Y	168	168	168	168	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
simulated (tscuner_s)							-	-	-												
COVID credited employee SIC (tscctee_s)	Y	0	NaN	NaN	NaN	0	NaN	NaN	NaN	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
COVID credited employer SIC (tsccter s)	Y	0	NaN	NaN	NaN	0	NaN	NaN	NaN	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Simulated		EUROMOD				SILC					Ratio				External				Ratio			
	(Y / N)	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023		
COVID credited self-employed SIC	Y	0	NaN	NaN	NaN	0	NaN	NaN	NaN	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN		
(tscctse_s)																							
Other Contributions (ils_sicot)																							

Continued		
	Source	Comments
Taxes (ils_tax)		
Personal income tax (tin_s)	Concise Statistical Yearbook of Poland ; THE STATE BUDGET ; personal income	-
Agricultural tax (tag_s)	Concise Statistical Yearbook of Poland ; LOCAL GOVERNMENT UNIT BUDGETS ;	-
Health insurance contributions (non-	zestawienie ubezp zdrowotne wg grup tytułów ubezp ; OSOBY OBJĘTE	-
agricultural ZUS>NFZ) (thl_s)	OBOWIĄZKOWYM UBEZPIECZENIEM ZDROWOTNYM	
tax : capital taxation : simulated (tkt_s)	-	-
Health insurance contributions	INFORMACJA O ŚWIADCZENIACH PIENIĘŻNYCH Z UBEZPIECZENIA SPOŁECZNEGO	-
(agricultural KRUS>NFZ) (tfrhl_s)	ROLNIKÓW ; PRZYPIS SKŁADEK NA UBEZPIECZENIE ZDROWOTNE	
Real estate tax (tpr)	-	-
Employee Social Insurance		
Contributions (ils_sicee)		
Employee's social insurance	zestawienie ubezp emer-rent wg grup tytułów ubezp	-
contributions (ZUS old-age and disability		
+ sickness) (tscee_s)		
Employee's social insurance	zestawienie ubezp chorobowe wg grup tytułów ubezp	-
contributions on maternity leave		
(tscmaee_s)		
Self-employed Social Insurance		
Contributions (ils_sicse)		
Farmers' social insurance contributions	KWARTALNA INFORMACJA STATYSTYCZNA ; PRZYPIS I WPŁYWY NALEŻNOŚCI Z	
(KRUS) (tscfr_s)	TYTUŁU SKŁADEK NA UBEZPIECZENIE SPOŁECZNE ROLNIKÓW WEDŁUG	
Self-employed social insurance	zestawienie ubezp emer-rent wg grup tytułów ubezp , zestawienie ubezp	-
contributions (ZUS old-age and disability	chorobowe wg grup tytułów ubezp , zestawienie ubezp wypadkowe wg grup	

 contributions (ZUS old-age and disability
 chorobowe wg grup tytułów ubezp, zestawienie ubezp wypadkowe wg grup

 + sickness) (tscse\_s)
 tytułów ubezp

 Employer Social Insurance Contributions (tscer\_s)
 Concise Statistical Yearbook of Poland ; NOMINAL INCOME OF THE HOUSEHOLDS SECTOR

 Employer's social insurance contributions

on maternity leave (tscmaer\_s)

Credited Contributions (ils_sicct)	
tax : sic : unemployed : employer : -	-
simulated (tscuner_s)	

Source	Comments
COVID credited employee SIC (tscctee_s) -	-
COVID credited employer SIC (tsccter_s) -	-
COVID credited self-employed SIC -	-
(tscctse_s)	
Other Contributions (ils_sicot)	

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

	Simulated		EURO	MOD			SIL	C			Rat	tio			Exte	rnal			Rat	io	
	(Y / N)	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
Taxes (ils_tax)																					
Personal income tax (tin_s)	Y	74,120	80,637	43,662	60,077	0	0	0	0	0.00	0.00	0.00	0.00	63,797	73,606	68,107	NaN	1.16	1.10	0.64	NaN
Agricultural tax (tag_s)	Y	2,050	2,053	2,156	2,596	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1,619	1,649	1,694	NaN	1.27	1.24	1.27	NaN
Health insurance contributions (non-	Y	81,660	84,904	91,745	103,841	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	85,256	96,818	116,185	NaN	0.96	0.88	0.79	NaN
agricultural ZUS>NFZ) (thl_s)																					
tax : capital taxation : simulated	Y	251	270	309	349	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
(tkt_s)																					
Health insurance contributions (agricultural KRUS>NFZ) (tfrhl_s)	Y	559	559	559	559	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3,508	3,602	3,602	NaN	0.16	0.16	0.16	NaN
Real estate tax (tpr)	N	3,772	3,926	4,486	4,976	3,772	3,772	3,772	3,772	1.00	1.04	1.19	1.32	24,216	26,117	28,058	NaN	0.16	0.15	0.16	NaN
Employee Social Insurance Contributions (ils_sicee)																					
Employee's social insurance	Y	100,513	105,056	118,873	134,209	0	0	0	0	0.00	0.00	0.00	0.00	172,185	194,648	202,877	NaN	0.58	0.54	0.59	NaN
contributions (ZUS old-age and																					
disability + sickness) (tscee_s) Employee's social insurance	Y	504	528	597	673	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	2,436	2,469	2,502	NaN	0.21	0.21	0.24	NaN
contributions on maternity leave		504	520	297	075	INGIN	Indin	INDIN	INGIN	INGIN	INCIN	INGIN	INCIN	2,430	2,409	2,302	INdiv	0.21	0.21	0.24	INGIN
(tscmaee_s)																					
Self-employed Social Insurance																					
Contributions (ils_sicse)																					
Farmers' social insurance contributions (KRUS) (tscfr_s)	Y	2,850	2,934	3,433	4,164	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1,687	2,047	2,271	NaN	1.69	1.43	1.51	NaN
Self-employed social insurance	Y	18,648	18,830	21,284	24,763	0	0	0	0	0.00	0.00	0.00	0.00	11,459	13,757	15,461	NaN	1.63	1.37	1.38	NaN
contributions (ZUS old-age and																					
disability + sickness) (tscse_s) Employer Social Insurance																					
Contributions (ils_sicer)																					
Employers' social contributions	Y	153,648	160,610	181,734	205,161	82,234	82,234	82,234	82,234	1.87	1.95	2.21	2.49	150,264	158,894	NaN	NaN	1.02	1.01	NaN	NaN
(tscer_s) Employer's social insurance	Y	728	762	863	972	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
contributions on maternity leave		720	702	805	572	INCIN	Indin	INGIN	INGIN	INGIN	INCIN	INGIN	INCIN	INGIN	INGIN	INCIN	INdiv	INCIN	INCIN	INCIN	INGIN
(tscmaer_s)																					
Credited Contributions (ils_sicct)																					
tax : sic : unemployed : employer :	Y	151	217	228	261	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
simulated (tscuner_s)																					
COVID credited employee SIC	Y	0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
(tscctee_s)			b I - b 1	p.1 - n.1	61 - F1	61 - 6 <sup>+</sup>	B1 - B2	<b>NI - NI</b>	p.1	N.I N.I.	NI - N <sup>1</sup>	NL-NI	NI - N	61 - 6 <sup>1</sup>	p.1 - p.1	<b>b</b> 1 - <b>b</b> 1	NI - N	N1 - N7	NI - N7	NIZAL	NI-c MI
COVID credited employer SIC (tsccter s)	Y	0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
		I			l				I					I							

Simulated		EURON	IOD			SILC	:			Rat	io			Exterr	nal			Rat	io	
(Y / N)	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
Y	0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
		(Y / N) 2020	(Y / N) 2020 2021	(Y / N) 2020 2021 2022	(Y / N) 2020 2021 2022 2023	(Y / N) 2020 2021 2022 2023 2020	(Y / N) 2020 2021 2022 2023 2020 2021	(Y / N) 2020 2021 2022 2023 2020 2021 2022	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023 2020	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021	(Y / N) 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022 2023 2020 2021 2022

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

	Simulated		EURO	MOD			SIL	C			Rat	io			Exter	nal			Rat	io	
	(Y / N)	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
Pensions (ils_pen)																					
pension : survivors : other (psuot)	N	3	3	3	3	3	3	3	3	1.00	1.00	1.00	1.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Pre-retirement allowance and benefit	N	92	92	92	92	92	92	92	92	1.00	1.00	1.00	1.00	73	60	49	NaN	1.25	1.53	1.88	NaN
(pyr)																					
Disability pension (agricultural and non- agricultural) (pdi00)	N	1,051	1,051	1,051	1,051	1,051	1,051	1,051	1,051	1.00	1.00	1.00	1.00	892	847	804	NaN	1.18	1.24	1.31	NaN
Social pension (pdinw)	N	256	256	256	256	256	256	256	256	1.00	1.00	1.00	1.00	287	289	291	NaN	0.89	0.88	0.88	NaN
Retirement pension (agricultural and non- agricultural) (poa00)	N	8,296	8,296	8,296	8,296	8,296	8,296	8,296	8,296	1.00	1.00	1.00	1.00	7,090	7,101	7,140	NaN	1.17	1.17	1.16	NaN
old-age pension from abroad (poaab)	N	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Farmer's structural pension (poafr)	N	15	15	15	15	15	15	15	15	1.00	1.00	1.00	1.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
pension : old age : other (poaot)	N	68	68	68	68	68	68	68	68	1.00	1.00	1.00	1.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
orphan pension (psuor)	N	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Survivors pension (agricultural and non-	N	697	697	697	697	697	697	697	697	1.00	1.00	1.00	1.00	1,340	1,333	1,320	NaN	0.52	0.52	0.53	NaN
agricultural) (psu00)																					
Means-tested benefits (ils_benmt)																					
Special attendance allowance	Y	21	21	19	18	25	25	25	25	0.84	0.84	0.75	0.71	32	22	13	NaN	0.67	0.97	1.42	NaN
(implemented in 2013) (bdinc_s)																					
Social assistance benefits : permanent benefit (bsapm_s)	Y	132	131	129	130	81	81	81	81	1.63	1.62	1.59	1.60	181	174	167	NaN	0.73	0.75	0.78	NaN
Social assistance benefits : temporary	Y	33	32	32	31	53	53	53	53	0.61	0.59	0.60	0.58	270	251	228	NaN	0.12	0.13	0.14	NaN
benefit (bsatm_s)			52	52	51	55	55	55	55	0.01	0.00	0.00	0.50	270	201	220	Ittart	0.12	0.10	0.11	TTGTT
Housing allowance (bho_s)	Y	86	89	99	99	134	134	134	134	0.64	0.66	0.74	0.74	215	207	221	NaN	0.40	0.43	0.45	NaN
other child benefits (bchot)	N	418	418	418	418	418	418	418	418	1.00	1.00	1.00	1.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Supplement to the family allowance due	N	23	23	23	23	23	23	23	23	1.00	1.00	1.00	1.00	39	32	13	NaN	0.59	0.71	1.70	NaN
to taking care of a child during child-care																					
leave (bcc)	N	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	NION	NeN	NeN	NeN	NeN	NeN	NeN	NeN
benefit for unemployed lone parents (bchunlp)	N	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
benefit : social assistance : other (bsaot)	N	84	84	84	84	84	84	84	84	1.00	1.00	1.00	1.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
· · · ·																					
One-off subsidy due to giving birth to a	Y	256	242	199	165	0	0	0	0	0.00	0.00	0.00	0.00	209	190	152	NaN	1.22	1.28	1.31	NaN
child ("becikowe" means-tested since																					
2013) (bchbamtna_s)																					
Family allowance (bch00_s)	Y	654	605	469	440	755	755	755	755	0.87	0.80	0.62	0.58	822	679	553	NaN	0.80	0.89	0.85	NaN
Maternity allowance due to parental leave (reform in 2016) (bchba01_s)	Y	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	79	73	62	NaN	0.00	0.00	0.00	NaN

					-																
	Simulated		EURO	MOD			SIL	C			Rat	io			Exter	rnal			Rat	io	
	(Y / N)	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
Parental supplementary benefit ("Mama 4+" implemented in March 2019) (poa04_s)	Y	52	52	52	52	0	0	0	0	0.00	0.00	0.00	0.00	52	55	56	NaN	1.00	0.95	0.93	NaN
Supplementary benefit for persons incapable of independent existence ("500+" implemented in October 2019) (bsvca_s)	Y	1,348	1,372	1,419	1,508	0	0	0	0	0.00	0.00	0.00	0.00	350	387	388	NaN	3.85	3.54	3.65	NaN
Supplement to the family allowance due to giving birth to a child (bchba_s)	Y	62	59	47	37	44	44	44	44	1.39	1.32	1.05	0.84	98	83	62	NaN	0.63	0.71	0.75	NaN
Supplement to the family allowance due to education and rehabilitation of a disabled child (bchdied_s)	Y	88	80	64	59	0	0	0	0	0.00	0.00	0.00	0.00	114	107	100	NaN	0.77	0.75	0.64	NaN
Supplement to the family allowance due to beginning of a school year (bched_s)	Y	506	468	352	332	0	0	0	0	0.00	0.00	0.00	0.00	1,912	1,679	1,438	NaN	0.26	0.28	0.25	NaN
Supplement to the family allowance due to single parenthood (bchlp00_s)	Y	27	27	26	26	50	50	50	50	0.55	0.55	0.53	0.52	80	73	64	NaN	0.34	0.37	0.41	NaN
Supplement to the family allowance due to multi-children parenthood (bchlg_s)	Y	145	131	105	97	150	150	150	150	0.96	0.87	0.70	0.65	297	258	249	NaN	0.49	0.51	0.42	NaN
Non-means-tested benefits (ils_bennt)																					
Maternity allowance (bma)	N	293	293	293	293	293	293	293	293	1.00	1.00	1.00	1.00	699	669	635	NaN	0.42	0.44	0.46	NaN
scholarships (bed)	N	151	151	151	151	151	151	151	151	1.00	1.00	1.00	1.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
benefit : health (bhl)	N	161	161	161	161	161	161	161	161	1.00	1.00	1.00	1.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
severance payment (ysv)	N	12	12	12	12	12	12	12	12	1.00	1.00	1.00	1.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
"Good Start" benefit (since July 2018) (bed00_s)	Y	3,276	3,276	3,274	3,276	2,410	2,410	2,410	2,410	1.36	1.36	1.36	1.36	4,394	4,391	4,635	NaN	0.75	0.75	0.71	NaN
Thirteenth pension (boa13_s)	Y	10,302	10,302	10,302	10,302	0	0	0	0	0.00	0.00	0.00	0.00	9,800	9,800	9,700	NaN	1.05	1.05	1.06	NaN
covid-19 compensation paid by the state (bwkmcee_s)	Y	0	NaN	NaN	NaN	0	NaN	NaN	NaN	0.00	NaN	NaN	NaN	28,300	NaN	NaN	NaN	0.00	NaN	NaN	NaN
demurrage (bwkmcst_s)	Y	0	NaN	NaN	NaN	0	NaN	NaN	NaN	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Unemployment benefit (bun_s)	Y	168	168	168	168	168	168	168	168	1.00	1.00	1.00	1.00	160	114	115	NaN	1.05	1.47	1.46	NaN
Nursing allowance (pdiuc_s)	Y	923	923	923	923	366	366	366	366	2.52	2.52	2.52	2.52	907	912	924	NaN	1.02	1.01	1.00	NaN
Nursing supplement to old-age pension (poacm_s)	Y	4,183	4,183	4,183	4,183	2,264	2,264	2,264	2,264	1.85	1.85	1.85	1.85	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Nursing benefit (children & adults - since 31st of August 2008, no longer means- tested since 2010) (bcrdi_s)	Y	198	198	198	198	163	163	163	163	1.22	1.22	1.22	1.22	164	191	218	NaN	1.21	1.04	0.91	NaN
Child-raising benefit ("500+" implemented in April 2016) (bchcc_s)	Y	4,176	4,176	4,177	4,176	3,788	3,788	3,788	3,788	1.10	1.10	1.10	1.10	6,471	6,480	6,876	NaN	0.65	0.64	0.61	NaN

	Simulated		EURO	MOD			SIL	С			Rat	io:			Exte	rnal			Rat	io	
	(Y / N)	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
other benefits (bot)	N	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Fourteenth pension (boa14_s)	Y	NaN	9,850	9,421	9,407	NaN	0	0	0	NaN	0.00	0.00	0.00	9,100	9,200	9,000	NaN	NaN	1.07	1.05	NaN
Family Care Capital (implemented in 2022) (bchscc_s)	Y	NaN	NaN	492	492	NaN	NaN	0	0	NaN	NaN	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

continueu		
	Source	Comments
Pensions (ils_pen)		
pension : survivors : other (psuot)	-	-
Pre-retirement allowance and benefit	Concise Statistical Yearbook of Poland ; GROSS UNEMPLOYMENT BENEFITS, PRE-	-
(pyr)	RETIREMENT ALLOWANCES AND BENEFITS ; pre-retirement allowance + pre-	
Disability pension (agricultural and non-	Concise Statistical Yearbook of Poland ; RETIREES AND PENSIONERS / 10^3 $^{st}$	-
agricultural) (pdi00)	AVERAGE MONTHLY GROSS RETIREMENT AND OTHER PENSIONS * 12 ; non-	
Social pension (pdinw)	Concise Statistical Yearbook of Poland ; GROSS SOCIAL PENSION ; Average	-
Retirement pension (agricultural and non	- Concise Statistical Yearbook of Poland ; RETIREES AND PENSIONERS / 10^3 *	-
agricultural) (poa00)	AVERAGE MONTHLY GROSS RETIREMENT AND OTHER PENSIONS * 12 ; (non-	
old-age pension from abroad (poaab)	-	-
Farmer's structural pension (poafr)	-	-
pension : old age : other (poaot)	-	-
orphan pension (psuor)	-	-
Survivors pension (agricultural and non-	Concise Statistical Yearbook of Poland ; RETIREES AND PENSIONERS Annual	•
agricultural) (psu00)	averages / 10^3 * AVERAGE MONTHLY GROSS RETIREMENT AND OTHER	
Means-tested benefits (ils_benmt)		
Special attendance allowance	-	-
(implemented in 2013) (bdinc_s)		
Social assistance benefits : permanent benefit (bsapm_s)	Sprawozdanie MRiPS-03	-
Social assistance benefits : temporary	Sprawozdanie MRiPS-03	-
benefit (bsatm_s)		
Housing allowance (bho_s)	BDL ; Number and amount of dwelling allowances paid to the users	-
other child benefits (bchot)	-	-
Supplement to the family allowance due	-	-
to taking care of a child during child-care		
leave (bcc)		
benefit for unemployed lone parents	-	-
(bchunlp)		
benefit : social assistance : other (bsaot)	-	-
One-off subsidy due to giving birth to a	-	-
child ("becikowe" means-tested since		
2012 (hebbamtna c)		

2013) (bchbamtna\_s)

Continued		
	Source	Comments
Family allowance (bch00_s)	Concise Statistical Yearbook of Poland ; FAMILY BENEFITS	-
Maternity allowance due to parental	-	-
leave (reform in 2016) (bchba01_s)		
Parental supplementary benefit ("Mama	INFORMACJA O ŚWIADCZENIACH PIENIĘŻNYCH ; RODZICIELSKIE ŚWIADCZENIA	-
4+" implemented in March 2019)	UZUPEŁNIAJĄCE	
(poa04_s)		
Supplementary benefit for persons	INFORMACJA O ŚWIADCZENIACH PIENIĘŻNYCH ; ŚWIADCZENIA UZUPEŁNIAJĄCE	-
incapable of independent existence	DLA OSÓB NIEZDOLNYCH DO SAMODZIELNEJ EGZYSTENCJI	
("500+" implemented in October 2019)		
(bsvca_s)		
	Concise Statistical Yearbook of Poland ; FAMILY BENEFITS	-
to giving birth to a child (bchba_s)		
Supplement to the family allowance due	Concise Statistical Yearbook of Poland ; FAMILY BENEFITS	-
to education and rehabilitation of a		
disabled child (bchdied_s)		
Supplement to the family allowance due	Concise Statistical Yearbook of Poland ; FAMILY BENEFITS	-
to beginning of a school year (bched_s)		
Supplement to the family allowance due	Concise Statistical Yearbook of Poland ; FAMILY BENEFITS	-
to single parenthood (bchlp00_s)		
Supplement to the family allowance due	Concise Statistical Yearbook of Poland ; FAMILY BENEFITS	-
to multi-children parenthood (bchlg_s)		

Non-means-tested benefits (ils_bennt)		
Maternity allowance (bma)	INFORMACJA O WYBRANYCH ŚWIADCZENIACH PIENIĘŻNYCH ; ZASIŁKI	-
scholarships (bed)	-	-
benefit : health (bhl)	INFORMACJA O WYBRANYCH ŚWIADCZENIACH PIENIĘŻNYCH ; ABSENCJA	
severance payment (ysv)	-	-
"Good Start" benefit (since July 2018)	BDL ; Dobry Start	-
(bed00_s)		
Thirteenth pension (boa13_s)	https://alebank.pl/13-emerytura-tegoroczny-koszt-swiadczenia-to-131-mld-zl-	-
covid-19 compensation paid by the state	Ważniejsze informacje z zakresu ubezpieczeń społecznych	-
(bwkmcee_s)		
demurrage (bwkmcst_s)	-	-
Unemployment benefit (bun_s)	Concise Statistical Yearbook of Poland ; GROSS UNEMPLOYMENT BENEFITS, PRE-	-
Nursing allowance (pdiuc_s)	-	-
Nursing supplement to old-age pension	-	-
(poacm_s)		

	Source	Comments
Nursing benefit (children & adults - since	: -	-
31st of August 2008, no longer means-		
tested since 2010) (bcrdi_s)		
Child-raising benefit ("500+"	BDL ; ŚWIADCZENIA Z PROGRAMU RODZINA 500 PLUS ; Świadczenie	-
implemented in April 2016) (bchcc_s)	wychowawcze	
other benefits (bot)	-	-
Fourteenth pension (boa14_s)	·	-
Family Care Capital (implemented in	•	-
2022) (bchscc_s)		

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

	Simulated	EUROMOD				SIL	.C		Ratio				External				Ratio				
	(Y / N)	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
Pensions (ils_pen)																					
pension : survivors : other (psuot)	N	10	10	11	11	10	10	10	10	1.00	1.01	1.03	1.11	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Pre-retirement allowance and benefit	N	1,069	1,076	1,105	1,186	1,069	1,069	1,069	1,069	1.00	1.01	1.03	1.11	1,029	883	768	NaN	1.04	1.22	1.44	NaN
(pyr)																					
Disability pension (agricultural and non- agricultural) (pdi00)	N	16,216	16,322	16,754	17,976	16,216	16,216	16,216	16,216	1.00	1.01	1.03	1.11	20,087	19,854	20,053	NaN	0.81	0.82	0.84	NaN
Social pension (pdinw)	N	3,097	3,118	3,200	3,434	3,097	3,097	3,097	3,097	1.00	1.01	1.03	1.11	4,044	4,275	4,595	NaN	0.77	0.73	0.70	NaN
Retirement pension (agricultural and non agricultural) (poa00)	N	210,620	212,003	217,617	233,480	210,620	210,620	210,620	210,620	1.00	1.01	1.03	1.11	204,631	219,281	241,408	NaN	1.03	0.97	0.90	NaN
old-age pension from abroad (poaab)	N	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Farmer's structural pension (poafr)	N	226	227	233	250	226	226	226	226	1.00	1.01	1.03	1.11	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
pension : old age : other (poaot)	N	398	400	411	441	398	398	398	398	1.00	1.01	1.03	1.11	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
orphan pension (psuor)	N	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Survivors pension (agricultural and non- agricultural) (psu00)	N	15,753	15,856	16,276	17,462	15,753	15,753	15,753	15,753	1.00	1.01	1.03	1.11	35,889	38,163	40,952	NaN	0.44	0.42	0.40	NaN
Means-tested benefits (ils_benmt)																					
Special attendance allowance (implemented in 2013) (bdinc s)	Y	158	158	142	134	179	179	179	179	0.88	0.88	0.79	0.75	235	162	99	NaN	0.67	0.98	1.43	NaN
Social assistance benefits : permanent benefit (bsapm s)	Y	615	611	713	702	491	491	491	491	1.25	1.24	1.45	1.43	995	948	1,016	NaN	0.62	0.64	0.70	NaN
Social assistance benefits : temporary benefit (bsatm_s)	Y	155	153	177	167	292	292	292	292	0.53	0.52	0.60	0.57	564	531	527	NaN	0.27	0.29	0.34	NaN
Housing allowance (bho_s)	Y	511	555	760	845	334	334	334	334	1.53	1.66	2.28	2.53	581	615	731	NaN	0.88	0.90	1.04	NaN
other child benefits (bchot)	N	4,473	4,473	4,473	4,473	4,473	4,473	4,473	4,473	1.00	1.00	1.00	1.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Supplement to the family allowance due to taking care of a child during child-care leave (bcc)	N	252	264	299	337	252	252	252	252	1.00	1.05	1.19	1.34	176	145	114	NaN	1.43	1.82	2.61	NaN
benefit for unemployed lone parents (bchunlp)	N	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
benefit : social assistance : other (bsaot)	N	47	49	56	62	47	47	47	47	1.00	1.04	1.19	1.32	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
One-off subsidy due to giving birth to a child ("becikowe" means-tested since 2013) (bchbamtna_s)	Y	256	242	199	165	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	208	190	152	NaN	1.23	1.28	1.31	NaN
Family allowance (bch00_s)	Y	1,638	1,505	1,134	1,050	2,618	2,618	2,618	2,618	0.63	0.57	0.43	0.40	2,324	1,992	1,683	NaN	0.70	0.76	0.67	NaN
Maternity allowance due to parental leave (reform in 2016) (bchba01_s)	Y	0	0	0	0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Parental supplementary benefit ("Mama 4+" implemented in March 2019) (poa04_s)	Y	751	783	838	994	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	427	462	495	NaN	1.76	1.70	1.69	NaN

	Simulated		EUROI	MOD			SIL	С			Rat	io			Exter	nal			Rat	io	
	(Y / N)	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
Supplementary benefit for persons incapable of independent existence ("500+" implemented in October 2019) (bsvca_s)	Y	6,618	6,870	7,149	7,834	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	2,114	2,152	NaN	NaN	3.25	3.32	NaN
Supplement to the family allowance due to giving birth to a child (bchba_s)	Y	60	57	42	34	674	674	674	674	0.09	0.08	0.06	0.05	77	65	62	NaN	0.78	0.88	0.67	NaN
Supplement to the family allowance due to education and rehabilitation of a disabled child (bchdied_s)	Y	112	104	81	75	0	0	0	0	0.00	0.00	0.00	0.00	142	133	124	NaN	0.79	0.78	0.65	NaN
Supplement to the family allowance due to beginning of a school year (bched_s)	Y	78	72	54	51	0	0	0	0	0.00	0.00	0.00	0.00	115	97	83	NaN	0.68	0.74	0.65	NaN
Supplement to the family allowance due to single parenthood (bchlp00_s)	Y	99	98	94	91	498	498	498	498	0.20	0.20	0.19	0.18	182	166	147	NaN	0.54	0.59	0.64	NaN
Supplement to the family allowance due to multi-children parenthood (bchlg_s)	Y	203	190	150	129	2,502	2,502	2,502	2,502	0.08	0.08	0.06	0.05	328	285	275	NaN	0.62	0.67	0.54	NaN
Non-means-tested benefits (ils_bennt)																					
Maternity allowance (bma)	N	4,476	4,687	5,305	5,979	4,476	4,476	4,476	4,476	1.00	1.05	1.19	1.34	8,955	9,023	9,131	NaN	0.50	0.52	0.58	NaN
scholarships (bed)	N	411	411	411	411	411	411	411	411	1.00	1.00	1.00	1.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
benefit : health (bhl)	N	1,190	1,246	1,410	1,589	1,190	1,190	1,190	1,190	1.00	1.05	1.19	1.34	22,933	24,527	25,488	NaN	0.05	0.05	0.06	NaN
severance payment (ysv)	N	165	181	202	234	165	165	165	165	1.00	1.10	1.23	1.42	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
"Good Start" benefit (since July 2018) (bed00_s)	Y	1,371	1,371	1,371	1,371	1,009	1,009	1,009	1,009	1.36	1.36	1.36	1.36	1,317	1,318	1,390	NaN	1.04	1.04	0.99	NaN
Thirteenth pension (boa13_s)	Y	12,363	12,887	13,790	16,365	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	11,750	12,259	13,100	NaN	1.05	1.05	1.05	NaN
covid-19 compensation paid by the state (bwkmcee_s)	Y	0	NaN	NaN	NaN	NaN	NaN	28,300	NaN	NaN	NaN	0.00	NaN	NaN	NaN						
demurrage (bwkmcst_s)	Y	0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN						
Unemployment benefit (bun_s)	Y	672	968	1,017	1,164	955	955	955	955	0.70	1.01	1.06	1.22	1,592	1,827	1,533	NaN	0.42	0.53	0.66	NaN
Nursing allowance (pdiuc_s)	Y	2,419	2,419	2,419	2,419	927	927	927	927	2.61	2.61	2.61	2.61	2,350	2,352	2,396	NaN	1.03	1.03	1.01	NaN
Nursing supplement to old-age pension (poacm_s)	Y	11,541	12,030	12,872	14,777	5,726	5,726	5,726	5,726	2.02	2.10	2.25	2.58	1,217	NaN	NaN	NaN	9.48	NaN	NaN	NaN
Nursing benefit (children & adults - since 31st of August 2008, no longer means- tested since 2010) (bcrdi_s)	Y	4,343	4,678	5,029	5,834	2,666	2,666	2,666	2,666	1.63	1.75	1.89	2.19	3,558	4,460	5,463	NaN	1.22	1.05	0.92	NaN
Child-raising benefit ("500+" implemented in April 2016) (bchcc_s)	Y	39,395	39,395	39,395	39,395	27,796	27,796	27,796	27,796	1.42	1.42	1.42	1.42	39,976	39,892	42,044	NaN	0.99	0.99	0.94	NaN
other benefits (bot)	N	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Fourteenth pension (boa14_s)	Y	NaN	11,688	12,309	14,412	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	10,600	11,000	11,400	NaN	NaN	1.06	1.08	NaN
Family Care Capital (implemented in 2022) (bchscc_s)	Y	NaN	NaN	3,137	3,137	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

# Table A3.7. Distribution of equivalised disposable income

		EURON	10D			Externa	al		Ratio					
	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023		
Decile 1	3.62	3.65	3.58	3.46	3.50	NaN	NaN	NaN	1.03	NaN	NaN	NaN		
Decile 2	5.52	5.56	5.53	5.44	5.40	NaN	NaN	NaN	1.02	NaN	NaN	NaN		
Decile 3	6.69	6.70	6.71	6.63	6.60	NaN	NaN	NaN	1.01	NaN	NaN	NaN		
Decile 4	7.66	7.68	7.73	7.67	7.60	NaN	NaN	NaN	1.01	NaN	NaN	NaN		
Decile 5	8.62	8.59	8.67	8.61	8.60	NaN	NaN	NaN	1.00	NaN	NaN	NaN		
Decile 6	9.60	9.60	9.64	9.63	9.50	NaN	NaN	NaN	1.01	NaN	NaN	NaN		
Decile 7	10.73	10.73	10.79	10.81	10.80	NaN	NaN	NaN	0.99	NaN	NaN	NaN		
Decile 8	12.11	12.09	12.13	12.19	12.20	NaN	NaN	NaN	0.99	NaN	NaN	NaN		
Decile 9	14.29	14.27	14.24	14.38	14.30	NaN	NaN	NaN	1.00	NaN	NaN	NaN		
Decile 10	21.17	21.13	20.97	21.18	21.50	NaN	NaN	NaN	0.98	NaN	NaN	NaN		
Median	36,683	38,331	44,283	48,509	36,853	NaN	NaN	NaN	1.00	NaN	NaN	NaN		
Mean	39,521	41,313	47,434	52,052	40,704	NaN	NaN	NaN	0.97	NaN	NaN	NaN		
Gini	26.20	26.08	26.02	26.57	26.80	26.30	NaN	NaN	0.98	0.99	NaN	NaN		
S80/20	3.88	3.84	3.87	3.99	4.03	3.91	NaN	NaN	0.96	0.98	NaN	NaN		

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

			Extern	al		Ratio						
	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
40% median HDI by gender												
Total	3.97	3.80	4.13	4.60	4.60	4.50	NaN	NaN	0.86	0.84	NaN	NaN
Males	3.85	3.74	4.05	4.48	4.80	5.00	NaN	NaN	0.80	0.75	NaN	NaN
Females	4.08	3.85	4.21	4.71	4.40	4.00	NaN	NaN	0.93	0.96	NaN	NaN
50% median HDI by gender												
Total	8.08	7.88	8.08	8.75	8.40	8.10	NaN	NaN	0.96	0.97	NaN	NaN
Males	7.66	7.52	7.59	8.28	8.20	8.30	NaN	NaN	0.93	0.91	NaN	NaN
Females	8.48	8.22	8.54	9.20	8.50	7.90	NaN	NaN	1.00	1.04	NaN	NaN
60% median HDI by gender												
Total	14.32	14.07	14.55	15.06	14.80	13.70	NaN	NaN	0.97	1.03	NaN	NaN
Males	13.10	12.97	13.23	13.84	14.10	13.20	NaN	NaN	0.93	0.98	NaN	NaN
Females	15.45	15.10	15.78	16.20	15.40	14.10	NaN	NaN	1.00	1.07	NaN	NaN
70% median HDI by gender												
Total	21.88	21.70	21.90	22.59	22.60	21.00	NaN	NaN	0.97	1.03	NaN	NaN
Males	20.06	19.89	20.01	20.62	21.40	20.10	NaN	NaN	0.94	0.99	NaN	NaN
Females	23.59	23.38	23.66	24.42	23.60	21.90	NaN	NaN	1.00	1.07	NaN	NaN
60% median HDI by age group												
0-15 years	10.51	10.86	11.25	12.17	13.90	13.50	NaN	NaN	0.76	0.80	NaN	NaN
16-24 years	18.59	18.71	19.46	19.86	18.60	18.00	NaN	NaN	1.00	1.04	NaN	NaN
25-49 years	10.40	10.47	10.53	11.12	11.90	11.50	NaN	NaN	0.87	0.91	NaN	NaN
50-64 years	16.83	16.43	16.77	16.99	16.80	14.50	NaN	NaN	1.00	1.13	NaN	NaN
65+ years	20.61	19.24	20.64	20.99	17.50	15.20	NaN	NaN	1.18	1.27	NaN	NaN