

EUROMOD

COUNTRY REPORT



SLOVENIA (SI)

2009-2013

Nataša Kump, Mitja Čok, Boris Majcen

24/02/2014



EUROMOD is a tax-benefit microsimulation model for the European Union (EU) that 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 has been enlarged to cover 27 Member States and is updated to recent policy systems using data from the European Union Statistics on Income and Living Conditions (EU-SILC) as the input database, supported by DG-EMPL of the European Commission.

This report documents the work done in one annual update for Slovenia. This work was carried out by the EUROMOD core developer team, based mainly in ISER at the University of Essex, in collaboration with a national team.

EUROMOD coordinator: Holly Sutherland
EUROMOD coordination assistant: Cara McGenn
EUROMOD developer responsible for Slovenia: Jekaterina Navicke
National team for Slovenia: Nataša Kump, Mitja Čok, Boris Majcen

The results presented in this report are derived using EUROMOD version G2.0. EUROMOD is continually being improved and the results presented here may not match those that would be obtained with later versions of EUROMOD.

For more information, see: <http://www.iser.essex.ac.uk/research/euromod>

This document is supported by the European Union Programme for Employment and Social Solidarity – PROGRESS (2007-2013).

This programme is managed by the Directorate-General for Employment, social affairs and equal opportunities of the European Commission. It was established to finally support the implementation of the objectives of the European Union in the employment and social affairs area, as set out in the Social Agenda, and thereby contribute to the achievement of the Lisbon Strategy goals in these fields.

The seven-year Programme targets all stakeholders who can help shape the development of appropriate and effective employment and social legislation and policies, across the EU-27, EFTA-EEA and EU candidate and pre-candidate countries.

PROGRESS mission is to strengthen the EU contribution in support of Member States' commitment. PROGRESS is instrumental in providing analysis and policy advice on PROGRESS policy areas; monitoring and reporting on the implementation of EU legislation and policies in PROGRESS policy areas; promoting policy transfer, learning and support among Member States on EU objectives and priorities; and relaying the views of the stakeholders and society at large

For more information see: <http://ec.europa.eu/progress>

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

CONTENTS

1.	BASIC INFORMATION	1
1.1	Basic information about the tax-benefit system	1
1.2	Social Benefits	3
1.3	Social contributions	8
1.4	Taxes	9
2.	SIMULATION OF TAXES AND BENEFITS IN EUROMOD	12
2.1	Scope of simulation	12
2.2	Order of simulation	16
2.3	Policy switches	17
2.4	Social benefits	18
2.4.1	Credited social contributions up to full working time for parents of children under three/six (tsctfa01_s, tsctfa02_s)	18
2.4.2	Credited social contributions for parents of four or more children who exit labour market (tsctfa03_s, tsctfa04_s)	19
2.4.3	Unemployment wage compensation (bunct_s)	19
2.4.4	Parental (maternity) payment (bmact_s)	22
2.4.5	Parental allowance (bmanc_s)	23
2.4.6	Birth grant (bchba_s)	23
2.4.7	Large family allowance (bchlg_s)	24
2.4.8	Social assistance (bsa_s)	25
2.4.9	Income support (bsapm_si)	28
2.4.10	Housing benefit (bho_s)	29
2.4.11	Child benefit (bchmt_s)	30
2.5	Social contributions	33
2.5.1	Employee social contributions (tscee_s), (tscebe_s)	34
2.5.2	Employer social contributions (tsceer_s)	35
2.5.3	Self-employed social contributions (tscese_s)	35
2.5.4	Credited social contributions (tsctfa*_s, tscthl01_s, tsct*_s)	36
2.6	Personal income tax (tin_s)	36
2.6.1	Tax unit	37
2.6.2	Exemptions	37
2.6.3	Tax allowances	37
2.6.4	Tax base	42
2.6.5	Tax schedule	42
2.6.6	Tax credits	44
2.7	Payroll taxes	44
2.7.1	Payroll tax on wages	44
2.7.2	Tax on contractual work	45

3. DATA	45
3.1 General description	45
3.2 Sample quality and weights	46
3.2.1 Non-response	46
3.2.2 Weights	47
3.2.3 Item non-response and under-reporting	47
3.3 Data adjustment	48
3.4 Imputations and assumptions	48
3.4.1 Time period	48
3.4.2 Gross incomes	49
3.4.3 Other imputed variables	49
3.5 Updating	50
4. VALIDATION	51
4.1 Aggregate Validation	51
4.1.1 Components of disposable income	51
4.1.2 Validation of incomes inputted into the simulation	52
4.1.3 Validation of outputted (simulated) incomes	54
4.2 Income distribution	57
4.2.1 Income inequality	57
4.2.2 Risk-of-poverty rates	57
4.2.3 Validation of minimum wage	58
4.3 Summary of “health warnings”	58
5. REFERENCES	59
ANNEX I: UPDATING FACTORS	60
ANNEX II: VALIDATION	62

1. BASIC INFORMATION

1.1 Basic information about the tax-benefit system

- The tax-benefit system is a unified, national system.
- The "fiscal year" runs from January 1 to December 31. Benefit levels are mostly adjusted once a year in January in line with the consumer price index.
- The last pension reform was implemented in January 2013. Full pensionable age is set at 65 for both men and women. Due to transition period full pensionable age is set at 63.5 for men and 61.5 for women in 2013. This means that insured persons retiring prior to the full pensionable age receive "penalties". There are numerous exemptions to the penalty rule. It has to be stated that the retirement prior to full pensionable age is also conditional on the accumulation of a sufficient number of qualifying years.
- Minimum school leaving age is 15. The definition of dependent children differs for tax and for benefit purposes. For tax purposes, dependent children are defined as: (a) children aged less than 18; (b) children in full-time education aged less than 26 and (c) unemployed children at age 18 or above without own income or with own income less than family allowance for dependent child. The definition of dependent children for benefit purposes is more rigorous; the dependent children are defined as children aged less than 18 or aged less than 26 if the child continues with full-time education. Irrespective of above definition, children should not be employed or married, should not have children and must cohabit with parents in order to be considered dependent children.
- Since 2012, when Exercise of Rights to Public Funds Act has been enacted, the lone parent or single-parent family definition is much stricter. It is a union of one parent and children, whereas the other parent had died and the child does not receive any support after the deceased parent, or if the other parent is unknown, or if the child does not receive any income support from the other parent. This means that a union of a child and one parent, receiving maintenance payment from the other parent, is not treated as a single-parent family. Large family is a family with three or more children.
- The income tax system is an individual system, with the spouses being assessed independently.
- Before 2005, all income sources were taxed in the same manner. Since 2006, separate taxation of dividends, capital gains and interest (with a 20% flat tax rate) has been in force. Flat tax rate for capital incomes (dividends, capital gains and interests) was increased to 25% in 2013.
- The annual tax return for the calendar year, which is also the tax year, must be submitted to the Tax Administration by all taxpayers, who have received any type of income subject to tax, higher than general tax allowance. Income threshold is somewhat higher for pensioners. In his tax return, a taxpayer provides information on all types of income subject to tax, amounts of advance PIT paid during the year, employee social security contributions and tax allowances. Withholdings usually do not match the exact amount due in financial year because of some incomes on irregular basis and some additional allowances that are not taken into account during the year. Since tax year 2007, Tax Administration has been sending informative calculation of PIT to taxpayers according to administrative records. If taxpayers do not lodge an appeal, this informative calculation is considered to be a final tax provision.

- There is no unique indexing regime for taxes and benefits, although there are indexing rules for particular benefits. Family benefits, social assistance and housing benefit are up-rated once a year in January in line with consumer price index. Unemployment benefits are dependent on minimum wage changes. Pension up-rating is established in pension legislation. From September 2005 pensions were up-rated twice a year regarding the growth of average gross wage in Slovenia (something less, as at least 0.5 percentage points is subtracted from the wage growth). However, the growth of pensions lagged behind the wage growth because of this 0.5 percentage point and some other rather complicated details. Since 2013, when new legislation was enacted, pensions are up-rated every year in February according to the following formula: 60% of average gross wage growth in previous year compared to the average wage in year before plus 40% of the average consumer price index growth in previous year compared to the year before. Income tax thresholds, income tax allowances and tax credits are up-rated in December each year according to consumer price index in November. Since 2010, the indexation regime has been temporarily changed through intervention acts due to economic crises. Pensions have been uprated twice in 2011 (less than initially set by pension legislation) and once in 2013. Social benefits have been uprated only once in 2011, with the exception of the minimum income which was uprated twice in 2013.
- Most benefits depend on annual income. Exceptions are social assistance, income support (since 2012) and housing benefit where three months income prior to the submission of the claim is taken into account. Social contributions and benefits are delivered on a monthly basis. Exceptions are large family supplement which is delivered once a year and birth grant which is delivered only at the birth of child. Income tax liability is based on annual income and allowances and thresholds are referred to in annual terms.
- The new regulation, adopted in July 2010, has introduced profound changes in the non-contributory means-tested social benefits. The implementation of these acts was delayed from June/September 2011 to 1st January 2012 because some of data registers would not be available before the end of 2011. The Exercise of Rights to Public Funds Act (2010) regulates cash benefits (child allowance, cash social assistance, pension support and national educational grant), subsidies and payments from public sources, introducing many novelties in order to increase justice, simplify the system, make it more transparent and efficient, and alleviate abuse. The order in which to apply for cash benefits is defined, as is the definition of the family, and income and property to be taken into account in means testing. The Social Benefits Act (2010) enacted a higher amount of the minimum income and a new equivalence scale that includes work incentives.
- The most important cash benefits can be exercised by the applicant according to the following set order: 1) child benefit, 2) social assistance, 3) income support and 4) state scholarship. This order is very important as family income, a subject of income test, includes also previous social benefits.
- In November 2010, Act of Intervention Step because of Economic Crises was adopted. According to this Act, the indexation of social benefits in 2011 amounted only to a quarter of regular indexation. Besides, indexation of pensions and civil servants wages was limited. In December 2011 Act of Additional Intervention Step in 2012 was adopted because of Economic Crises. This act limited the amount of basic minimum income to 260 EUR (instead of 288 EUR as stated in Exercise of Rights to Public Funds Act) and increased minimum income for children and income support recipients through higher weights. This Act has also abolished indexation of social benefits and decreased wages of civil servants.

- In May 2012, Public Finance Balance Act was adopted in order to lower public expenses and high deficit which tends to increase. This act, which has come into force on June 1, 2012, tightens the eligibility conditions and reduces benefits amounts. Some measures are permanent while others are temporary; the measures which regulate family benefits (parental payment, child benefit, birth grant, large family allowance, parental allowance and national scholarships) will be in force until the year when GDP growth reaches 2.5%. Until the end of December 2014, the basic minimum income is set to 260 EUR and social benefits, with exception of minimum income, are not be subject to any indexation.

1.2 Social Benefits

Sick leave payment (*bolniško nadomestilo*): contributory; it is paid by compulsory health insurance from the 31st day of absence from work (prior is paid by employer) and depends on the physicians' (or, where applies, the National Health Insurance Institute's medical board) assessment of the state of sickness. There are no waiting days for this benefit. If absence from work is longer than one year or if there is no prospect of recuperation, the insured person can be referred to the invalidity board at the Institute for Pension and Disability Insurance. The amount of *wage compensation* depends on the insured person's average monthly salary in calendar year prior to sick-leave, the cause of absence and valorisation method. It amounts from 80% to 100% of the average monthly. It is subject to income tax. Public Finance Balance Act, adopted in May 2012, reduces the wage compensation during sick leave in most cases by 10 percentage points.

Funeral costs refund (*pogrebna*): contributory; it is payable to the person who paid for the funeral, provided that the deceased was employed (or insured); amounts to 80% of the average inevitable funeral costs in Slovenia.

Death benefit (*posmrtnina*): contributory; it is payable to family members supported by the deceased (who was employed or insured), ranges from 100% to 150% of the guaranteed gross wage. The exact amount is established by National Health Insurance Institute.

Parental (maternity) payment (*starševsko nadomestilo*): contributory. The total leave associated with childbirth consists of maternity leave (3 months) and child care and protection leave (9 months) and amounts to 365 days. In some cases parental leave is prolonged. Eligibility to wage compensation during parental leave is held by persons who were insured for at least 12 months in the last three years before the start of the individual part of parental leave. Wage compensation during the maternity leave and the child care and protection leave amounts to 100% of the average monthly gross wage of the entitled person during the 12 months prior to the leave. Before Public Finance Balance Act was enacted, the minimum wage compensation amounted to 55% of the minimum wage and the maximum compensation was 2.5 times the average wage in Slovenia. Since June 2012, Public Finance Balance Act has lowered wage compensation during the child care and protection leave to 90% of the base (average monthly gross wage during the 12 months prior to the leave) and sets its maximum to 2 times average wage in Slovenia. In cases when the base is equal or below the amount of minimum wage, the wage compensation during the child care and protection leave still amounts to 100% of the base.

Paternal leave (*očetovsko nadomestilo*): contributory. It lasts 90 days. Fathers are obliged to use at least 15 days during the maternal leave, while the rest of the 75 days can be used until a child's age of eight. During the first 15 days of the paternal leave, the father is entitled to 100% wage compensation, while for the rest of the 75 days only the social security contributions based on the minimum wage are paid. It is subject to income tax.

Old age pension (*starostna pokojnina*): contributory. The pension is calculated as a percentage of the pension base, which is simply the best consecutive 19-years average of net wages. This

period is gradually increasing to 24 years in 2018. The pension is then computed using this pension base, accrual rates and the pension qualifying period. Net pension is subject to income tax, but due pensioners tax credit and seniors tax allowance most of pensions remain untaxed.

Survivor pension (*družinska pokojnina*): contributory. Pensions are granted to family members of the deceased. Except for the spouse, which does not have to fulfil this condition, it is required for the other members that they were dependent on the income of the deceased. The spouse can receive a widow's pension, provided an age criterion is met (53 in 2007-2012, 53.5 in 2013 and a half of year more every year up to 58 years in 2022); if the spouse was not an insured person, he/she could obtain a widow's pension 5 years before the above mentioned age (from 48 in 2007-2017 up to 53 years in 2022). Children can receive a survivors pension up to the age of 26, provided they annually submit an attestation of school attendance. The computation of survivor pension is extremely non-transparent, particularly with regard to the widows pension. As a general rule, the amount of survivors' pension is dependent on the invalidity pension the deceased would have received, the pensions if the deceased had been retired, potential beneficiaries and their sources of income. Survivor pension is subject to income tax. Same rules are in force as for old age pensions, except considering the number of beneficiaries.

War and farmers pension (*vojaške in kmečke pokojnine*): contributory. War veterans and farmers retire under special conditions. War and farmers pensions are subject to tax.

Disability - invalidity pension (*invalidska pokojnina*): contributory. The granting of disability pensions depends on the cause of disability. In case of an occupational disease or employment injury, the insured person can obtain a pension regardless of his insurance period. If the cause of disability is illness or off-the-job injury, a sufficient insurance period is required. As a general rule, the insurance period must cover at least one third of the period from age 20 to the date of the occurrence of disability. The computed disability pension is still somewhat higher than the old-age pension for two reasons: first, there are no penalties for pensioning prior to full pensionable age, and, second, the minimum disability pension is more generous. Part-time invalidity pension is also possible. Disability-invalidity pensions are subject to tax.

Wage compensation for disabled workers (*nadomestila za delovne invalide*): contributory. There are few benefits: disbursements for disabled insured persons who are reassigned to new jobs, for persons who are involved in occupational rehabilitation, for persons who have temporarily withdrawn from active labour force and are temporarily unemployed. Wage compensation is subject to tax.

Attendance supplement (*dodatek za pomoč in postrežbo*): contributory; for old-age, survivor and disability pensioners whom the assistance and care by another person is indispensable; not subject to tax. Recipients of social assistance whom the assistance and care by another person is indispensable are also eligible to attendance supplement.

Pension support for pensioners (*varstveni dodatek*): contributory; old-age, survivor and disability pensioners with very low pensions and pension qualifying period less than 40/38 years; it is subject to tax. This benefit has been abolished since January 1st 2012. Women older than 63 years, men older than 65 years and persons permanently incapable to work may apply for income support which no longer depends on the right to contributory pension.

Income support (*varstveni dodatek*): Income support is a social protection benefit, enacted from January 2012, and intended for persons, who cannot ensure their financial security due to circumstances beyond their control. It replaces pension support for pensioners and state pension which have been abolished. Persons, who are permanently unemployable or permanently incapable for work or women older than 63 years or men older than 65 years, whose family income (defined in the same way as for social assistance) does not exceed the minimum income

amount, are eligible for income support. Income support is also means tested in the same way as social assistance (social assistance included into family income).

Disability supplement for disabled (*invalidnina za telesno okvaro*): contributory; for all insured disabled persons; not subject to tax.

Yearly bonus for pensioners (*letni dodatek*): contributory. Persons who qualify for old-age pension, survivor pension or invalidity benefits (who not receive wage) are eligible to yearly bonus for pensioners. The amount of this benefit depends on the level of pension and type of pension (or benefit). It is paid once a year and is subject to tax.

Unemployment wage compensation (*denarno nadomestilo med brezposelnostjo*): is a contributory benefit for the unemployed who were employed for at least 12 months in the last 18 months prior to the termination of employment and are covered by unemployment insurance. The basis for determining the level of unemployment compensation is a twelve months' average gross wage of the unemployed person prior to unemployment. The legislation changed in 2011. Before, the benefit level amounted to 70% of the basis in the first three months and 60% thereafter. The minimum benefit level was equal to the guaranteed wage net of contributions and taxes while the maximum level was three times the lowest possible unemployment compensation. Duration of unemployment wage compensation varied from 3 to 24 months depending on the length of insurance period. Those unemployed, who were older than 55 and had been lacking up to three years until retirement, had their pension and disability insurance contributions paid by the employment service until they retire. The legislation has changed in January 2011. Unemployment wage compensation is a benefit for unemployed who were employed for at least 9 months in the last 24 months prior to the termination of employment (not by their own fault or will) and are covered by unemployment insurance. Duration of unemployment wage compensation varies from 3 to 25 months depending on the length of insurance period. The benefit level amounted to 80% of the basis in the first three months and 60% thereafter. The minimum benefit level was equal to the 350 EUR while the maximum level was three times the minimum. In June 2012, Public Finance Balance Act has lowered the amount of benefit to 50% of the basis after one year and set maximum amount to 892.50 EUR. The beneficiaries are paid health-, pension- and disability insurance. Unemployment compensation is subject to personal income tax.

Unemployment assistance (*denarna pomoč med brezposelnostjo*): is a means-tested contributory benefit payable once the unemployment wage compensation has been exhausted. An eligibility criterion is income per family member. In the last three months it must not exceed 80% of the guaranteed wage and the family's social security must be endangered. It amounts to 80% of the net guaranteed wage. The beneficiaries have their health insurance contributions paid by the Employment Office. The length of provision is 15 months. In case of older unemployed lacking up to three years to the retirement (and having minimum chances of getting a job) it can be prolonged until the fulfillment of the retirement conditions. Unemployment assistance is not subject to personal income tax. Since 15th July 2006, unemployment assistance has been abolished and there were no new beneficiaries after this date. Only beneficiaries who gained right to unemployment assistance before this date kept receiving it afterwards until the right expired.

Social contributions up to full working time for parents of children under three (*pravica do plačila prispevkov iz naslova krajšega delovnega časa*): contributory. One of the parents, with a child up to three years and working at least half-time, has the right to have social security contributions up to full working time (based on minimum wage) paid from the state budget. This benefit is subject to tax. Since January 2007 this right had been extended to parents with at least two children until the sixth year of the youngest child.

Credited social contributions for parents of four or more children who exit the labour market (*pravica do plačila prispevkov zaradi zapustitve trga dela*): contributory. One of the parents who exits the labour market due to nursing and caring for four or more children, until the youngest child reaches the age of ten, is entitled to credited social security contributions on the basis of a minimum wage. This benefit is subject to tax.

Compensation for lost income due to care of child who need special care (*delno plačilo za izgubljen dohodek*): contributory. One of the parents will be entitled to a partial compensation for lost income if he/she stops working or reduces working hours due to care of a child who need special care. The compensation will be equal to the minimum wage (or its proportional part, depending on the working hours). This benefit is subject to tax.

Parental allowance (*starševski dodatek*): non-contributory; granted to persons who are not eligible for the insurance-based wage compensation during the parental leave. Qualified is a mother who is a national of Slovenia and has a permanent residence in Slovenia and is not receiving any wage compensation. A child must be a national of Slovenia and the father must not receive any parental leave wage compensation. The father is qualified if the mother dies, abandons a child, is not able to live and work independently, or if she, during the period of entitlement, enters into employment or self-employment. It is not means-tested. Parental allowance is not subject to income tax. Public Finance Balance Act has increased parental allowance amount to 55% of net minimum wage (251 EUR in June 2012).

Birth grant (*pomoč ob rojstvu otroka*): non-contributory; universal non means-tested benefit for a child born in Slovenia, if the mother or the father has permanent residence in Slovenia. This benefit is granted either in-kind or in cash. It is one-time benefit and not subject to income tax. Public Finance Balance Act has introduced income test for this benefit and since June 2012 only families with net family income per family member below 64% of average net wage have been eligible.

Child benefit (*otroški dodatek*): non-contributory means-tested benefit held by one of the parents for a child residing in Slovenia. Child benefit is paid only in case if income per family member, in the calendar year prior to the submission of a claim, was below the average wage in Slovenia. The level of child benefit depends on the average monthly income per family member in a calendar year prior to the submission of a claim and the birth order of a child. Up to 2012, the right to a child benefit was held until the child reaches 18 years of age, as well as for the period in which the child continues with full-time education, provided the child was less than 26 years of age. Since January 2012, the child benefit has been held only until the child reaches 18 years of age, regardless further enrolment in regular education. Child benefit is not subject to income tax. Public Finance Balance Act has abolished right to child benefit for parents in 7th and 8th income bracket and has lowered child benefit amount for parents in 5th and 6th income bracket by 10%.

Large-family supplement (*dodatek za veliko družino*): a non-contributory universal non means-tested transfer to families with three or more children. Eligible are families with three or more children below age 18 or older, if fulfilling the age and status conditions for the entitlement to a child benefit. The level of benefit is paid once a year and is not subject to income tax. Public Finance Balance Act has introduced income test for this benefit and since June 2012 only families with net family income per family member below 64% of average net wage have been eligible.

Childcare supplement (*dodatek za nego otroka*): non-contributory; it is non means-tested benefit, paid for seriously ill children and physically or mentally handicapped children. The level of benefit amounted to 21,060 SIT (87.9 EUR) per month in 2006 (in for the period

recommended by a medical expert commission, but not longer than his/her 18th birthday or until age 26 if in schooling). Childcare supplement is not subject to income tax.

National scholarship (*republiška štipendija*): non-contributory. Amount of scholarship depends on student's family income per capita, students' grades and commuting or accommodation. In 2008, a new law was adopted and the income threshold per capita was set at 60% - 65% of minimum wage. In 2009, income threshold per capita was increased to 65% - 68% of minimum wage. Since January 2012, pupils and students younger than 18 years, have no longer been eligible to national scholarship and income threshold per family member has been set to 64% of net average wage. Public Finance Balance Act has decreased this threshold to 53% of net average wage in June 2012.

State pension (*državna pokojnina*): is a non-contributory means-tested benefit disbursed to persons who do not have a pension in their own right, are at least 65 years old and have resided in Slovenia for at least 30 years (between age 15 and 65). The amount of this benefit is 33.3% of the lowest pension base. Most recipients of this benefit are women. Net pension is subject to income tax, but due pensioners tax credit and senior tax allowance it effectively remains untaxed. This benefit has been abolished since January 1st, 2012. Women older than 63 years, men older than 65 years and persons permanently incapable to work may apply for income support which no longer depends on the right to contributory pension.

Housing benefit (*subvencija najemnine*): is non-contributory, means-tested and covers part of rent for a person whose family income does not exceed certain threshold. Share of covered rent depends on the size of apartment and beneficiary's income, and must not exceed 80% of respective non-profit rent. It is not subject to tax.

Social assistance (*socialna pomoč*): non-contributory; the benefit level is the difference between the minimum income for a single person or a family and their own income net of taxes and compulsory social security contributions. The basic amount of minimum income is set by the law and adjusted once a year in January according to the change in the costs of living in the last year. Social assistance is not subject to income tax or social security contributions. The minimum income has been increased by new Social Benefits Act in January 2012 and work incentives have been introduced within social assistance.

Supplement for persons at social risk (*dodatek za socialno ogrožene*): non-contributory. It was a one-time lump sum benefit introduced to mitigate the economic crisis in 2009 (introduced in July). Recipients of social assistance in July were eligible regardless their income. Supplement amounted to 200 EUR for families on social assistance and 160 EUR for single persons on social assistance. There were also some other groups of persons, who might have been eligible if their net income in July had not exceeded 313 EUR: recipients of parental payments and parental allowance, recipients of unemployment wage compensation, pensioners and disabled workers, who receive wage compensation. There were two levels of supplement; 120 EUR for persons with income below 268 EUR and 80 EUR for persons with incomes between 268 EUR and 313 EUR.

- *Not strictly benefits*

Sick leave payments paid by employers (*bolniško nadomestilo*): is payable to employees by employer for the first 30 days of sickness. It amounts to 100% of the average monthly salary in previous month in case of soldiers and civil invalids from wartime, occupational disease, employment injury, transplantation of tissues or organs for the benefit of others, donation of blood and quarantine. It drops to 90% if the insured person is absent from work due to illness, or 80% in case of non-employment related injuries, nursing of a close family member, escort of others, or during the period of qualifying for rehabilitation of a handicapped child at home.

Public Finance Balance Act, adopted in May 2012, reduces the wage compensation during sick leave in most cases by 10 percentage points.

Entitlement payments from the Guarantee Fund (*pravica v primeru insolventnosti delodajalca*): are granted to those workers who lost their jobs due to the initiation of bankruptcy proceedings, forced settlement or liquidation of a commercial company from the court register under the provisions of the Act on Financial Operations of Companies. Guarantee Fund provides unpaid wages, wage compensations (up to the ceiling amounting to half of minimum wage) and compensation for dismissal (up to the ceiling amounting to half of minimum wage).

Maintenance replacement (*nadomestilo preživnine*) is provided by the Maintenance Fund and is intended for beneficiaries – children – who have been allocated maintenance under a final court ruling, a temporary injunction or an agreement with the Social Security Department, but which the person liable is not paying. It is deemed that a person liable to pay maintenance is defaulting on payment if maintenance has not been paid for three consecutive months or is being paid irregularly. The level of maintenance replacement depends on the age of the child.

Childcare subsidy for pre-school childcare (*znižano plačilo vrtca*) amounts to 23%-100% of the price of services; the percentage depends on family income per member, and to certain extent also on family assets. The difference between the prices and fees collected from parents is covered from the municipal budgets.

Subsidized school meals (*subvencije šolske prehrane*) are intended for children in primary and secondary schools. Subsidies amount to 1/3 of school meal price for children in primary school and to 1/6 or 1/3 of price for children in secondary school. This benefit is means-tested.

Subsidized meals for high-school students (*subvencionirana študentska prehrana*): Each high-school student is entitled to one subsidized meal for every working day (with exception in period of July 15th to August 15th). Subsidy amounts to 2.63 EUR per day.

Subsidized commuting for children in primary schools as well as secondary and high school students (*subvencija šolskih prevozov*) who daily travel to school. The subsidy depends on the distance and income.

Textbook funds (*učbeniški sklad*) provided to all children in primary schools who can borrow textbooks from school for free. Children in secondary schools can borrow textbook from school for fee which can be higher than 1/3 of textbook price.

Foster allowances (*dohodki, ki jih prejema oseba za oskrbo otroka v rejniški družini*) are paid to families looking after children in foster care.

1.3 Social contributions

There are four types of compulsory social security contributions, which are paid both by employer and employee: (1) for pension and disability insurance (they are paid to the Pension Insurance Fund), (2) for health insurance (they are paid to the Institute of Health Insurance), (3) for unemployment insurance (they are paid to the central government), (4) for maternity leave insurance (they are paid to the central government). Within the system there are many varieties with regard to these contributions, which depend on the socio-economic status of the insured person. The most important are as follows.

Employee and employer social security contributions (*prispevki za socialno varnost za zaposlene*): If a person is an employee (in a dependent job), the base for contributions is the amount of the gross wage, which also includes gross leave pay, fringe benefits and remuneration of expenses related to work above a certain threshold. The total rate of contribution for

employees amounts to 22.10% and 16.10% for employers. There is no upper ceiling but there is a lower ceiling in amount of minimum wage. The contributions for employees are paid as a withholding tax by employers, who deduct them from wages.

Self-employed social security contributions (*prispevki za socialno varnost za samozaposlene*): The self-employed are supposed to pay both employee and employer social security contributions at the same rates (22.10% and 16.10%). Social security contributions are calculated on the basis of schedule presented in the Table 17, which is graduated in relation to self-employed profit (revenue minus expenses) from pre-previous year (i.e. profit reported in last tax return). The base cannot be less than national minimum wage.

Social security contributions for people receiving social security benefits (*prispevki za socialno varnost za prejemnike socialnih transferjev*): The social security contributions for pensions and pension benefits are paid at the rate of 5.96% on a (artificially) grossed pension, for maternity payment, paternal payment and wage compensation for disabled workers at the rate of 38.2%, for unemployment benefit at the rate of 37.67% on a gross amount of unemployment wage compensation and at the rate of 12.92% for unemployment assistance. In the case of parental payments, unemployment benefit and wage compensation for disabled workers the “employee” part of social security contributions is withheld from the gross benefit amount, i.e. effectively paid by the recipient.

Credited social security contributions: There are credited social security contributions for parents: (a) up to full working time for part-time-working parents with children under 3 or 6 years; (b) paternal payment after 15th day and (c) for a parent who exits the labour market due to the care for four or more children. Besides, health insurance contributions on pensions (paid by Pension Fund to the Health Insurance Company) and health insurance contributions on unemployment assistance (paid by Employment Service to the Health Insurance Company) are also considered credited social security contributions. The “employer” part of social security contributions on parental payments and wage compensation for disabled workers (16.10%), on unemployment benefit (15.57%) and total social security contributions (12.92%) form unemployment assistance could be considered as credited contributions. However in external statistics these contributions are treated as transfers between public funds.

1.4 Taxes

Personal income tax (*dohodnina*): it is taxed at the individual level and is levied on six categories of income: income from employment, business income, income from basic agriculture and forestry, income from rents and royalties, and other income accruing to persons liable to tax in the Republic of Slovenia. Most social benefits, which are not wage compensation, are not subject to personal income tax. Revised personal income tax regulation was adopted in 2006, when flat tax rate for capital income was enacted. However there have been numerous amendments to this law since then.

Derivative instruments gains tax (*davek od dobička od odsvojitve izvedenih finančnih instrumentov*): was introduced in July 2008. The tax is payable by resident individuals and is levied on the difference between the value of the derivative instrument upon disposal and its acquisition value. It is levied at degressive rates depending on the period of holding (from 20% to 0% (tax exemption) when the period of holding is longer than 20 years). Gains realized from short-term contracts are taxed at 40%.

Payroll tax (*davek na izplačane plače*): was levied on employers who are obliged to pay social security contributions, usually those employing people on a permanent basis. The tax was applied to each gross wage or salary on a progressive basis (i.e. at progressive rates). This tax

was not applied to the self-employed. According to law on payroll tax this tax has been abolished since 2009.

Tax on contractual work (*poseben davek na določene prejemke*): is applied to contractual temporary work. The tax is levied at the flat rate of 25% on gross payments and it is paid by employer.

Taxation of winnings from conventional games of chance (*davek na dobitke od iger na srečo*): Winnings from lotteries, raffles, scratch lotteries, bingo, betting and similar games of chance organized in Slovenia are subject to a 15% tax if the prize exceeds EUR 300. In the taxation of winnings the gross principle is used. No deductions are allowed. The tax is withheld by the gaming operator.

Tax on gambling and concession fee (*davek od iger na srečo*): are levied on the gross gaming revenue (GGR) of an operator of games of chance. Two tax rates on gambling of 5% and 18% apply, depending on the type of game. Additionally, operators of games of chance are subject to a 5% to 45% concession fee on GGR.

Inheritance and gift tax (*davek na dediščine in darila*): applies to transfers of property. The tax is paid by an individual who is the testamentary heir or the heir at law for inheritance tax purposes and the recipient for gift tax purposes. Taxpayers are divided into four categories according to their relationship with the deceased or donor. Tax rate varies from 5% to 30%.

Property tax (*davek od premoženja*): there are two types of duties on possession of real property. One is a duty, called “charge for the use of building land” and other is property tax. Charge is levied on vacant and constructed building land in possession of legal persons and individuals. Charge is set by local communities for vacant building land based on the area of the building land planned for building, and for constructed building land based on the useful area of the residential house or business premises thereon. Property tax is a tax on buildings in possession of individuals. The tax is levied at different rates depending on the type and value of the premises.

Water vessel tax (*davek na vodna plovila*): is levied on vessels longer than five metres registered in Slovenia or registered in other countries but owned by Slovenian residents. The taxpayers are the owners. The tax is levied for the calendar year, based on the length of the vessel and its engine power.

Motor vehicle tax (*davek na motorna vozila*): For passenger motor vehicles which are put into circulation in Slovenia for the first time (first registration in Slovenia) motor vehicle tax is paid. Import and acquisition of motor vehicles from other EU Member States are also taxed. Tax base is selling price excluding taxes. From the 1st of March 2010 the tax rates depend on the environmental criteria (CO₂ and Euro emission standards), and the rates are from 0.5% to 28% for petrol cars and from 1% to 31% for diesel cars. In the case of diesel motor vehicles particulate matter (PM) emissions are also considered. Tax rates for motorcycles and camper vans are set upon engine capacity in the range from 1.5% to 5% for motorcycles and 6% to 18% for camper vans.

Circulation tax (*letni davek na motorna vozila*) is defined as an annual fee on the use of motor vehicles and is imposed on vehicles registered in Slovenia. The rates are set according to different categories of vehicles, and the outstanding amount is calculated in proportion to the duration of the registration period.

Value added tax (*davek na dodano vrednost*): is charged and paid on supplies of goods and performed services within the territory of Slovenia and the importation of goods into the EU. The standard VAT rate is 20%. A reduced rate of 8.5% applies mostly to foodstuffs, public

passenger transport, pharmaceuticals products, medical equipment, hotel accommodation, books, newspapers and periodicals. The Value Added Tax Act specifies several categories of goods and services that are exempt from VAT, such as medical services, childcare, etc. Since July 1st 2013, the VAT rates are increased to 22% for standard rate and 9.5% for reduced rate.

Excise duties (*trošarine*): are levied on tobacco products, alcohol and alcohol beverages, mineral oils, electricity and gas.

Tax on insurance premiums (*davek na promet zavarovalnih poslov*): is levied on insurance premiums and is payable by insurance companies and other legal providers of insurance services within the Slovenia. The tax rate is 6.5%.

Tax on transfer of immovable property (*davek na promet nepremičnin*): is levied on transfer of immovable property, if VAT has not been charged on such transfer. It is applied to the market value of immovable property transferred. In general, the taxpayer is the seller of the immovable property. The tax rate is 2% of the market value of the transaction.

Customs duties (*carine*): are levied on goods upon importation into the Community customs territory from third countries not belonging to that territory. The rates of duties are laid down in the Common Customs Tariff of the Community and are applied in accordance with the common customs legislation of the EU.

2. SIMULATION OF TAXES AND BENEFITS IN EUROMOD

2.1 Scope of simulation

Not all the taxes and benefits mentioned in the previous section are simulated by EUROMOD. Some are beyond its scope entirely and are neither included in the EUROMOD database nor in its output income variables. Others are not possible to simulate accurately with the available data. They are included in the database and may be chosen as components of output variables, but the rules governing them may not be changed by the model. Table 1 and Table 2 classify each of the main tax-benefit instruments (and some minor ones introduced above) into one of these three groups and provides a brief explanation as to why the instrument is not fully simulated if this is the case.

Table 1 Simulation of benefits in EUROMOD

	Variable name(s)	Treatment in EUROMOD					Why not fully simulated?
		2009	2010	2011	2012	2013	
Wage compensation due to temporary incapacity for work	-	E	E	E	E	E	No data on contribution history and incapacity for work
Funeral costs refund	-	E	E	E	E	E	No data on event occurrence
Death benefit	-	E	E	E	E	E	No data on event occurrence
Parental (maternity) payment	bmact	I/PS	I/PS	I/PS	I/PS	I/PS	No data on contribution history
Paternal payment	bcrbafh	I	I	I	I	I	No data on contribution history
Old age pension	poa	I	I	I	I	I	No data on contribution history.
Pension support for old-age pensioners	poa	-	-	-	-	-	It is included in old-age pension together with eventual attendance and disability supplement, thus it is not possible to divide the amount.
Pension support for pensioners	psact	I	I	I	-	-	No data on contribution history.
Income support	bsapm				S	S	
Survivor pension	psu	I	I	I	I	I	No data on contribution history and eligibility.
Pension support for survivor pensioners	psu	-	-	-	-	-	It is included in survivor pension together with eventual attendance and disability supplement, thus it is not possible to divide the amount.
War and farmers pension	Poa, psu, pdi	IA	IA	IA	IA	IA	No data on contribution history and eligibility.
Disability - invalidity pension	pdi	I	I	I	I	I	No data on contribution history and disability occurrence.

Pension support for disability pensioners	pdi	-	-	-	-	-	It is included in invalidity pension together with eventual attendance and disability supplement, thus it is not possible to divide the amount.
Attendance supplement	poa, pdi, psu	I	I	I	I	I	No information on disability occurrence; No data on contribution history and disability occurrence; it is included in old-age, survivor and disability pension and wage compensation for disabled workers.
Disability supplement for disabled	pdi	I	I	I	I	I	
Yearly bonus for pensioners	poa, pdi, psu	IA	IA	IA	IA	IA	No data on contribution history and eligibility. Wage compensation for disabled workers includes also eventual disability supplement.
Wage compensation for disabled workers	bdirw	I	I	I	I	I	No data on contribution history and work readiness. The benefit has phased out since 2006 and has become very minor; therefore we do not simulate it.
Unemployment wage compensation	Bunct	I/PS	I/PS	I/PS	I/PS	I/PS	Data available is not sufficient to simulate eligibility.
Unemployment assistance	bunmt	I	I	I	-	-	
Compensation for lost income due to care of child who need special care	bfa	I	I	I	I	I	
Parental allowance	bmanc	S	S	S	S	S	
Birth grant	bchba	S	S	S	S	S	
Child benefit	bchmt	S	S	S	S	S	
Large-family supplement	bchlg	S	S	S	S	S	
Childcare supplement	bfa	I	I	I	I	I	Data available is not sufficient to simulate eligibility conditions.
National scholarship	bed	I	I	I	I	I	Data available is not sufficient to simulate eligibility cond. National scholarship is included among all scholarships.
State pension	poanc	I	I	I	-	-	No information available – recipients are included among old-age recipients
Housing benefit	bho	S	S	S	S	S	
Social assistance	bsa	S	S	S	S	S	
Supplement for persons at social risk	-	E	-	-	-	-	One time lump sum benefit introduced in July 2009.

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; “IA”: included in the microdata in an aggregated variable but not simulated; “PS” *partially simulated* as some of its relevant rules are not simulated; “S” *simulated* although some minor or very specific rules may not be simulated.

Table 2 Simulation of taxes and social contributions in EUROMOD

	Variable name(s)	Treatment in EUROMOD					Why not fully simulated?
		2009	2010	2011	2012	2013	
Employee social security contributions	tscee*	S	S	S	S	S	
Employer social security contributions	tscer*	S	S	S	S	S	
Self-employed social security contributions	tscse*	S	S	S	S	S	
Credited social contributions up to full working time for parents of children under three/six	tscctfa01, tscctfa02	S	S	S	S	S	
Credited social contributions for parents of four or more children who exit labour market	tscctfa03, tscctfa04	S	S	S	S	S	
Personal Income Tax	tin	S	S	S	S	S	
Payroll tax	tpa	-	-	-	-	-	Abolished in 2009
Tax on contractual work	taj	S	S	S	S	S	
Taxation of winnings from conventional games of chance	-	E	E	E	E	E	Information n/a
Derivative instruments gains tax	-	E	E	E	E	E	Information n/a
Tax on gambling	-	E	E	E	E	E	Information n/a
Inheritance and gift tax	-	E	E	E	E	E	Information n/a
Property tax	tpr	I	I	I	I	I	Information n/a
Water Vessel Tax	-	E	E	E	E	E	Information n/a
Motor vehicle tax	-	E	E	E	E	E	Information n/a
Circulation tax	-	E	E	E	E	E	Information n/a
Value added tax	-	E	E	E	E	E	Information n/a
Excise duties	-	E	E	E	E	E	Information n/a
Tax on insurance premiums	-	E	E	E	E	E	Information n/a
Tax on transfer of immoveable property	-	E	E	E	E	E	Information n/a
Tax on transfer of immoveable property	-	E	E	E	E	E	Information n/a
Customs Duties	-	E	E	E	E	E	Information n/a

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; “IA”: included in the microdata in an aggregated variable 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.

- **Structural changes between 2009 and 2010**

New special tax allowance for Slovenian residents who are cross border working migrants was introduced.

- **Structural changes between 2011 and 2012**

The new regulation, adopted in July 2010, introduced profound changes in the non-contributory means-tested social benefits. The implementation of these acts was delayed from June/September 2011 to 1 January 2012 because some of the data registers would not be available before the end of 2011. The Exercise of Rights to Public Funds Act (2010) regulates cash benefits (child benefits, cash assistance, income support and national scholarship), subsidies and payments from public sources, introducing many novelties in order to increase

justice, simplify the system, make it more transparent and efficient, and alleviate abuse. The order in which to apply for cash benefits is defined, as is the definition of the family, and income and property to be taken into account in means testing. The Social Benefits Act (2010) enacted a higher amount of the minimum income and a new equivalence scale that includes work incentive. The most important cash benefits can be exercised by the applicant according to the following set order: 1) child benefit, 2) social assistance, 3) income support and 4) state scholarship.

According to new legislation adopted in July 2010, a single-parent family is a union of one parent and children, whereas the other parent had died and the child does not receive any support after the deceased parent, or if the other parent is unknown, or if the child does not receive any income support from the other parent. This means that a union of a child and one parent receiving maintenance payment from other parent is not treated as a single-parent family.

In December 2011, Act of Additional Intervention Step in 2012 because of Economic Crises was adopted which limited the amount of basic minimum income to 260 EUR (instead of 288 EUR as stated in Exercise of rights to public funds Act) and maintained initially set amount of minimum income for children and income support recipients through higher weights. This Act has also abolished indexation of social benefits and wages of civil servants. In May 2012, Public Finance Balance Act was adopted in order to lower public expenses and high deficit which tends to increase. This act, which has come into force on June 1st 2012, tightens the eligibility conditions and reduces benefits amounts. Some measures are permanent while others are temporary; the measures which regulate family benefits (parental payment, child benefit, birth grant, large family allowance, parental allowance and national scholarships) will be in force until the year when GDP growth reaches 2.5%. Until the end of December 2014, the basic minimum income is set to 260 EUR and social benefits, with exception of minimum income, are not be subject to any indexation.

- *Structural changes between 2012 and 2013*

A fourth income tax bracket of 50% is introduced for taxable income above 70,907.2 EUR per year. At the same time, the upper limit for tax bracket of 27% is increased from 15,681.03 EUR to 18,960.28 EUR. Tax allowance for incomes from student work is lowered to 75% of standard allowance. Employer social contributions levied from contractual work income are increased from 6% to 8.85%.

Flat tax rate for capital incomes (dividends, capital gains and interests) is increased from 20% to 25%. Income from rents is moved out of PIT tax base and is taxed with flat tax rate of 25% with standard costs of only 10% instead of 40% as with previous rules.¹ Since March 2013, unemployed persons younger than 30 years, who were employed for at least 6 months in the last 24 months prior to the termination of employment, have been eligible for two months of receiving of unemployment wage compensation.

¹ New rules apply income from rent in 2014 when incomes collected in 2013 are taxed.

2.2 Order of simulation

The following table shows the order in which the main elements of the Slovenian system in 2009-2013 are simulated, i.e. spine. Despite the fact, that Slovenian system experienced few structural changes within this period, we use one table to display policy simulations over the seven years' span. The spine structure is identical for all analysed years, although some policies cover only few years within the seven years span.

The defined order shows the start of Slovenian policy simulations with the minimum wage, which is followed with the simulation of contributory unemployment wage compensation and contributory parental payment. Note that the simulation of these policies is not included in the baseline simulation; that is, for the baseline results both employment income and unemployment benefits are read directly from the input data. The only exception is parental payment in 2012 and beyond which is included in the baseline simulation.

The next policy calculates tax on contractual work and payroll tax. The following four policies concern the simulation of the social insurance contributions: for employers, for employees, for self-employed and credited social security contributions for parents (contributions up to full working time for parents of children under three and for parents of four or more children who exit labour market). Next, personal income tax after standard and family tax allowances is calculated.

Following the contributions and taxes, the benefits are simulated. New legislation in 2012 requires new order of benefits simulation. According to the Exercise of Rights to Public Funds Act, the beneficiary must apply for benefits in the following set order:

1. child benefit;
2. cash social assistance;
3. income support;
4. state scholarship.

This set order is very important as the income, which is the basis for income test, includes also benefits to which the applicant was or would be entitled, if this he/she enforced or would enforce this right in accordance with the order as stipulated above.

Despite legal changes, the same spine, with few changes, has been retained. Parental allowance is followed by “new” child benefit for 2012 and 2013 (policy is set off for years 2009-2011), birth grant and large family allowance (the last two benefits are means tested from year 2012 on). The two means-tested benefits, social assistance and housing benefit, depend on income after income tax and employee and self-employed contributions. They are therefore simulated after the simulation of income taxes and contributions. The housing benefit income test takes account of parental allowance and social assistance. Furthermore, the child benefit income test (before 2012) takes account of social assistance and housing benefit. Therefore “old” child benefit policy for years 2009 -2011 comes after social assistance and housing benefit (it is set off for 2012). Finally, other credited social insurance contributions are simulated: health insurance contributions on pensions and unemployment assistance and employer part of social insurance contributions on benefits. No changes to the order of simulation are made in 2013.

Table 3 EUROMOD Spine: order of simulation, 2009-2013

Policy	Grp/No	SI_2009	SI_2010	SI_2011	SI_2012	SI_2013	Comment
▶ Uprate_SI		on	on	on	on	on	DEF: UPGRATING FACTORS
▶ ConstDef_si		on	on	on	on	on	DEF: CONSTANTS
▶ ILDef_SI		on	on	on	on	on	DEF: INCOME CONCEPTS
▶ TUDef_SI		on	on	on	on	on	DEF: ASSESSMENT UNITS
▶ neg_si		on	on	on	on	on	SWITCH: Non-negative income
▶ yem_si		off	off	off	off	off	SWITCH: minimum wage
▶ bunct_si		off	off	off	off	off	BEN: Unemployment wage compensation 2006-2012
▶ bmacro_si		off	off	off	on	on	BEN: parental (maternity) payment
▶ tpa_si		on	on	on	on	on	TAX: Payroll tax and tax on contractual work (employers)
▶ tscer_si		on	on	on	on	on	SIC: Social Insurance Contributions for Employers
▶ tscee_si		on	on	on	on	on	SIC: Social Insurance Contribution for Employees
▶ tscse_si		on	on	on	on	on	SIC: Social Insurance Contributions for Self-Employed
▶ tscctfa_si		on	on	on	on	on	SIC: Credited social contributions up to full working time for parents
▶ tinta01_si		on	on	on	on	on	TAX: standard allowances
▶ tinta02_si		on	on	on	on	on	TAX: family allowances
▶ tin_si		on	on	on	on	on	"TAX: Income tax; total allowance, schedule and tax credits"
▶ bmacro_si		on	on	on	on	on	BEN: Parental Allowance
▶ bchmt_si		off	off	off	on	on	BEN: Child benefit
▶ bchba_si		on	on	on	on	on	BEN: Birth Grant
▶ bchlg_si		on	on	on	on	on	BEN: Large family allowance
▶ bsa_si		on	on	on	on	on	BEN: Social assistance
▶ bsapm_si		n/a	n/a	n/a	on	on	BEN: Income support
▶ bho_si		on	on	on	on	on	BEN: Housing benefit
↑ bchmt_si		on	on	on	off	off	BEN: Child benefit (repetition of policy with order 18)
▶ tsccthl_si		on	on	on	on	on	SIC: Credited health insurance contributions
▶ output_std_si		on	on	on	on	on	DEF: STANDARD OUTPUT INDIVIDUAL LEVEL
▶ output_std_hh_si		off	off	off	off	off	DEF: STANDARD OUTPUT HOUSEHOLD LEVEL

2.3 Policy switches

There are two standard switches included into the spine (see above):

- **neg_si**: switched ON by default
 - recodes negative income to zero; currently this policy only recodes negative self-employment income to zero, initial value stored in *i_yse00*
- **yem_si**: switched OFF by default

if hourly wage is lower than hourly minimum wage recalculate in accordance to the minimum wage, ignoring overtime hours of work; if ON overwrites *yem00* also adjusts and overwrites taxable part of employment income *yemtx*.

2.4 Social benefits

The amount of some social benefits depends on the level of average, guaranteed and minimum wage. The 2006-2013 amounts are presented in the table below.

Table 4 Average gross wage, minimum wage and guaranteed wage amounts, 2006-2013

	Gross average wage (per month), in EUR	Net average wage (per month), in EUR	Gross minimum wage (per month), in EUR	Gross guaranteed wage (per month), in EUR	Net guaranteed wage (per month), in EUR
2006	1,212.80	773.42	511.60	233.07	181.56
2007	1,284.79	834.50	521.80	237.73	185.19
2008	1,391.43	899.80	566.53	-	-
2009	1,438.96	930.00	589.19	-	-
2010	1,494.88	966.62	734.15	-	-
2011	1,524.65	987.39	748.10	-	-
2012	1,525.47	991.44	763.06	-	-
2013*	1,512.89	991.26	783.66	-	-

Note: Data for 2013 refer to period January-June 2013.

2.4.1 Credited social contributions up to full working time for parents of children under three/six (tsctfa01_s, tsctfa02_s)

- *Definitions*

One of the parents, who nurses and cares for a child until the child's third year of age, has the right to part-time work. Part-time work includes at least a half of the normal obligation for weekly working hours. The employer ensures the worker the right to the salary on the basis of actual working hours, while the Republic of Slovenia ensures the payment of credited contributions for the difference up to full-time work on the basis of a proportional share of the minimum wage. Since 2007, one of the parents, nursing and caring for two children, may extend this right until the younger child reaches the age of six years.

- *Eligibility conditions*

One of the parents who nurses and cares for a child until the child's third year of age and works part-time. In case of two children, this right might be extended until the younger child reaches the age of six years from 2007 onwards. Part-time work include at least a half of the normal obligation for weekly working hours – at least 20 hours. The right is granted also to self-employed parents.

- *Income test*

Not applicable.

- *Benefit amount*

The Republic of Slovenia ensures the payment of social security contributions for the difference up to full-time work on the basis of a proportional share of the minimum wage. Credited social security contributions (employee part) are part of the gross income for assessing family income for means-tested benefits, but it is not taxed with personal income tax. For example, if an eligible employee works 60% part time, then the employee and employer social security

contributions (or self-employed social security contributions in case of self-employment) are paid based on 40% of the minimum wage.

- ***EUROMOD notes***

Although this policy is named a credited social contribution, it is treated as a benefit in the Slovenian legislation. Therefore, we describe the policy here and only mention it later in the chapter about social security contributions.

2.4.2 Credited social contributions for parents of four or more children who exit labour market (tscctfa03_s, tscctfa04_s)

- ***Definitions***

The payment of credited contributions for one parent of four or more children who exits labour market is ensured.

- ***Eligibility conditions***

One of the parents, who exits the labour market due to nursing and caring for four or more children until the youngest child reaches the age of ten, is entitled to credited employee and employer or self-employed contributions on the basis of a minimum wage.

- ***Income test***

Not applicable.

- ***Benefit amount***

The Republic of Slovenia ensures the payment of social security contributions based on the minimum wage. Paid social security contributions are part of the gross income, but they are not taxed with personal income tax.

- ***EUROMOD notes***

Although this policy is named a credited social contribution, it is treated as a benefit in the Slovenian legislation. Therefore we describe the policy here and only mention it later in the chapter about social security contributions.

2.4.3 Unemployment wage compensation (bunct_s)

- ***Definitions***

It is a contributory benefit for the unemployed who were earlier employed.

- ***Eligibility conditions***

The legislation has changed in January 2011. Before, eligible were unemployed who were employed for at least 12 months in the last 18 months prior to the termination of employment (not by their own fault or will) and were covered by unemployment insurance. Since 2011, eligible have been unemployed who had been employed for at least 9 months in the last 24 months prior to the termination of employment (not by their own fault or will) and have been covered by unemployment insurance. Duration of unemployment wage compensation varies from 3 to 25 months depending on the length of insurance period:

Table 5 Duration of the entitlement to unemployment wage compensation before 2011

Insurance record	Duration of the entitlement
1-5 years	3 months
5-15 years	6 months
15-25 years	9 months
Over 25 years	12 months
Over 25 years and over age of 50	18 months
Over 25 years and over age of 55	24 months

Table 6 Duration of the entitlement to unemployment wage compensation since 2011

Insurance record	Duration of the entitlement
6 months if person is younger than 30 years*	2 months*
9 months-5 years	3 months
5-15 years	6 months
15-25 years	9 months
Over 25 years	12 months
Over 25 years and over age of 50	19 months
Over 25 years and over age of 55	25 months

* since April 2013

In March 2013, amendment to the Labour market regulation act was adopted. Since then, unemployed persons younger than 30 years, who were employed for at least 6 months in the last 24 months prior to the termination of employment (not by their own fault or will) and were covered by unemployment insurance, have been also eligible. The duration of their entitlement is 2 months.

Unemployment wage compensation is conditioned on active search of employment, work readiness, readiness for attending interviews or training courses and accepting referrals to active labour market programmes.

- ***Income test***

Not applicable.

- ***Benefit amount***

Before 2011, the basis for determining the level of unemployment compensation was a twelve months' average gross wage of the unemployed person prior to unemployment. The benefit level amounted to 70% of the basis in the first three months and 60% thereafter. The minimum benefit level was equal to the 45.56% of gross minimum wage while the maximum level was three times the minimum. In January 2011 legislation changed and the benefit level amounted to 80% of the basis in the first three months and 60% thereafter. The minimum benefit level was equal to the 350 EUR while the maximum level was three times the minimum. Since June 2012, Public Finance Balance Act has introduced three changes: (a) the basis for determining the level of unemployment compensation is a eight months' average gross wage of the unemployed person prior to unemployment, (b) benefit level amounts to 50% of the basis after the one year of receiving the benefit and (c) the maximum benefit level is set to 892.50 EUR. Since March 2013, the basis for determining the basis for the level of unemployment compensation for persons younger than 30 years (who were employed between 6 and 9 months in the last 24 months period prior to the termination of employment) is a five months' average gross wage of the unemployed person prior to unemployment.

The beneficiaries pay employee part of health-, pension- and disability insurance, while the employer part is paid by Employment service of Slovenia. Up to 2010, those unemployed, who were lacking up to three years until retirement, have had their pension and disability insurance contributions paid by the employment service until they retire. New legislation in 2011 shortened the period from three to one year before the retirement conditions are met, but amendment to the Labour market regulation act in 2003 prolonged the period to two years. So, currently beneficiaries are unemployed, who are lacking up to two years until retirement. Paid social security contributions are part of the gross income, but they are not taxed with personal income tax.

- **EUROMOD notes**

The simulation of unemployment wage compensation is switched off in the model by default.

Effectively, this benefit is only partly simulated using the information about actual receipt. But rather than simply using the observed receipt as part of the eligibility criteria, all eligibility rules in full detail are covered. However, as not all required information (e.g. work history) is available several assumptions are made, among else considering some rules automatically fulfilled for those in receipt. This approach is chosen so that the benefit can be also modelled for those currently employed if needed (e.g. to simulate their entitlement if they become unemployed, for replacement rates calculations).

Unemployment duration (*lunmy_s*) is set equal to the maximum of observed unemployment duration (*lunmy*) and observed benefit receipt (*bunmy*). If modelling unemployment benefit for those currently employed, unemployment duration is set equal to the reported number of months in employment in the current year (*liwmy*), once contribution history (see the next step) is modelled. It is effectively also assumed that unemployment spells start in the reference year.

Modelled contribution history is based on the reported number of months in employment (*liwmy*), controlling for the total number of months in work (*liwwh*).

- For those currently employed (*ils_earn* != 0 & *lunmy_s* = 0 & *bunct* = 0), this is used.
- For those currently unemployed (*lunmy_s* > 0) and in receipt (*bunct* > 0), this is set at least equal to the minimum qualifying period.
- For those currently unemployed (*lunmy_s* > 0) and not in receipt (*bunct* = 0), this is set to zero.

At this point, working age people who are unemployed (*lunmy_s* > 0), have sufficient contribution history, are not in education, do not receive old-age pension or self-employment income are considered eligible. It is assumed that all of them are involuntary unemployed and capable and available for work (there is a variable in the SILC data identifying the latter but only filled in for those currently unemployed).

Benefit duration (*bunmy_s*) is calculated according to the rules above, using modelled contribution history, while also controlling for the unemployment duration (*lunmy_s*).

Benefit entitlement is calculated based on previous earnings and benefit duration, subject to the lower and upper thresholds. For those currently employed, current earnings are used. For those currently unemployed and in receipt, previous earnings are used which have been imputed by reversing unemployment insurance benefit rules. For those currently unemployed and not in receipt, imputed wage is used. There is no monthly information on earnings, so average annual figures are used. Finally, benefit amount is adjusted with the number of months in receipt (*bunmy_s*).

Paid pension and disability insurance contributions by the employment service for those unemployed, who are older than 55 and are lacking up to three years until retirement, are not simulated.

2.4.4 Parental (maternity) payment (bmact_s)

- **Definitions**

It is a contributory benefit for mother/father on parental leave.

- **Eligibility conditions**

The total leave associated with childbirth consists of maternity leave (3 months) and child care and protection leave (9 months) and amounts to 365 days. In some cases parental leave is prolonged. Eligibility to wage compensation during parental leave is held by persons who were insured for at least 12 months in the last three years before the start of the individual part of parental leave.

- **Income test**

Not applicable.

- **Benefit amount**

Before June 2012, wage compensation during the maternity leave and the child care and protection leave amounted to 100% of the average monthly gross wage of the entitled person during the 12 months prior to the leave. The minimum wage compensation amounted to 55% of the minimum wage and the maximum compensation was 2.5 times the average wage in Slovenia. The upper limit was applied only to the benefit during child care and protection leave and was not applied during the first three months of the maternity leave. Since June 2012, Public Finance Balance Act has lowered wage compensation during the child care and protection leave to 90% of the base (average monthly gross wage during the 12 months prior to the leave) and set its maximum to 2 times average wage in Slovenia. In cases when the base is equal or below the amount of minimum wage, the wage compensation during the child care and protection leave still amounts to 100% of the base. The wage compensation during maternity leave rules are not changed.

- **EUROMOD notes**

The simulation of wage compensation during parental leave is switched off by default for years between 2009 and 2011 and switched on from year 2012 on. Since June 2012, replacement rate for the child care and protection leave has dropped to 90% and available data on the benefit amount from year 2009 are less suitable than simulated data.

This benefit is only partly simulated using the information about actual receipt. However, as not all required information (e.g. work history) is available several assumptions are made, among else considering some rules automatically fulfilled for those in receipt.

Base for compensation during parental leave is estimated on previously predicted hourly wage, hours worked per week and average number of weeks per month. Hours worked per week are estimated as follows:

- For those in receipt and with $lhw = 0$, it is set to 40.
- For those in receipt and with $lhw > 0$, the actual lhw is used, but it is capped to 40.

The number of months in receipt of compensation during parental leave is estimated as the ratio of actual amount received per year and 100% of predicted base (as replacement rate was 100% in years before June 2012).

Benefit entitlement is then calculated based on the calculated base and benefit duration, subject to the lower and upper thresholds.

2.4.5 Parental allowance (bmanc_s)

- *Definitions*

Parental allowance is granted to one of the parents who is not eligible for the insurance-based wage compensation during the parental leave. Qualified is a parent who is a national of Slovenia, has a permanent residence in Slovenia and is not receiving parental (maternity) payment. A child must be a national of Slovenia and the father must not receive any parental leave wage compensation. Most usually, mother is qualified for parental allowance; the father is qualified only in case if mother dies, abandons a child, is not able to live and work independently, or if she, during the period of entitlement, enters into employment or self-employment. There is no means test.

- *Eligibility conditions*

Parental allowance is granted to parents who are not eligible for the insurance-based wage compensation during the parental leave. The benefit is paid only to parents with children aged less than one year, who receive no contributory parental payments and has no employment or self-employment income.

- *Income test*

Not applicable.

- *Benefit amount*

The 2006-13 parental allowance benefit rates are indicated below. The amount of parental allowance has been substantially increased to 55% of net minimum wage in June 2012. It lasts 365 day as parental leave. The amount does not change in case of twins, triplets, etc. The benefit level was adjusted once a year in January in line with the consumer price index until 2011 and according to intervention legislation thereafter. Parental allowance is not subject to income tax.

Table 7 Parental allowance rates, EUR per month, 2006-2012

	2006	2007	2008	2009	2010	2011	2012	2013
Parental allowance	170.88	175.15	181.46	188.90	193.24	195.56	251	251

- *EUROMOD notes*

In the implementation it is assumed that the mother receives parental allowance unless father is a lone parent.

2.4.6 Birth grant (bchba_s)

- *Definitions*

Birth grant is a benefit for a child born in Slovenia, if the mother or the father has permanent residence in Slovenia. This benefit is granted either in-kind or in cash.

- *Eligibility conditions*

Access to birth grant is limited to families with a dependent baby aged less than one year. Until the year 2012 it was a universal, non means-tested, while means test was introduced in June 2012.

- *Income test*

Birth grant was not subject to income test before June 2012. Since then, only parents whose net family income per family member (family members are parents and dependent children according to the definition on pp. 2) is below the 64% of net average wage are eligible for birth grant. Income definition is the same as for child benefit income test.

- *Benefit amount*

The 2006-13 birth grant benefit rates are indicated below. It is one-time benefit, not subject to income tax.

Table 8 Birth grant rates, EUR, 2006-2012

	2006	2007	2008	2009	2010	2011	2012	2013
Birth grant	244.16	250.26	259.27	269.90	276.11	279.42	280.75	280.75

2.4.7 Large family allowance (bchlg_s)

- *Definitions*

Large-family supplement is a transfer to families with three or more children.

- *Eligibility conditions*

Access to large family allowance is limited to families with three or more dependent children residing in Slovenia under the condition that the child is a national of the Republic of Slovenia or the child is not a national of the Republic of Slovenia, on the condition of reciprocity (i.e. bilateral convention between two countries). Eligible are families with three or more children below age 18 or older, if fulfilling the age and status conditions for the entitlement to a child benefit; i.e. aged less than 26 and involved in full time education.

- *Income test*

Birth grant was a universal non means-tested benefit before June 2012. Since then, only parents whose net family income per family member is below the 64% of net average wage are eligible for birth grant.

- *Benefit amount*

The level of benefit is paid once a year and it differs according to the size of family. The benefit level is adjusted once a year in January in line with the consumer price index and is not subject to income tax. The 2006-13 large family allowance rates are indicated below.

Table 9 Large family allowance, EUR, 2006-2012

	2006	2007	2008	2009	2010	2011	2012	2013
Large family allowance: 3 dependent children	342.18	350.73	363.36	378.26	386.96	391.60	393.46	393.46
Large family allowance: 4 or more dependent children	417.29	427.72	443.12	461.29	471.90	477.56	479.83	479.83

2.4.8 Social assistance (bsa_s)

- *Definitions*

Social assistance is means-tested benefit and is intended to ensure the minimum income for residents of Slovenia. The benefit level is the difference between the minimum income of the household and household's income in previous three months which is the base for income test. Social assistance has experienced major changes in 2012, therefore we describe both systems; old system before 2012 and new system in 2012.

- *Eligibility conditions*

In accordance with the Social Assistance Act, beneficiaries are citizens of the Republic of Slovenia permanently residing in Slovenia and aliens in possession of a permit for permanent residence in Slovenia. The right to financial social assistance can also be exercised by persons in respect of whom this right is recognised by international instruments binding on the Republic of Slovenia. Financial social assistance is available for beneficiaries who are unable to provide minimum income resources for themselves or their family members for reasons beyond their control and who have exercised their right to financial benefits pursuant to other regulations.

When assessing the eligibility, the account is taken of the ceiling as well as of the fact whether an individual or family has assets enabling subsistence, whether all other rights were exercised (social assistance is the last of the rights within the system, eligible when all other subsistence options are exhausted) and whether the person concerned is active in seeking solutions to his/her problem. The latter is of particular importance to all who can work and must be registered with the Employment Service of Slovenia, participate in offered programmes of active employment policy and actively seek employment.

Social assistance is means tested and before 2012, financial social assistance was not granted to a single person or a family with savings or property amounting to or exceeding the level of 60 % of minimum incomes.

Since 2012, new means test has been introduced. It should be noted that means test is taken into account for all social benefits. The person's assets include immovable property, vehicles, vessels, ownership shares in companies or cooperatives, securities, cash assets on transaction or other bank account (savings and other cash assets) and other movable assets. The person's assets do not include the apartment, where the person resides, to the value of the appropriate apartment (the Social Assistance Act states what appropriate apartment is), personal vehicle or single-track vehicle to the value of 28-times of the basic minimum income amount, assets that provide income, higher than double the gross minimum salary and also assets in some other cases. Assets are considered in such way that the income of persons is increased by a fictively determined income, namely in the amount of annual interest calculated on the value of assets, which are considered. The average annual interest rate for households for time deposits from 1

to 2 years for the year prior to the year when the application is submitted according to the Bank of Slovenia's information is considered.

- **Income test**

Period: 2007-2011

The family income should be below family minimum income. Family income which is the base for income test is net of taxes and consists of: taxable employment and self-employment income, contractual work incomes, student work incomes, all pensions, unemployment wage compensation, wage compensation for disabled workers, unemployment assistance, parental and paternal payments, parental allowance, capital income, rents, compensation for lost income due to care for child with special needs, social contributions up to full working time for parents working part-time, the difference between received and paid maintenance payments. Personal income tax and employee social security contributions are subtracted.

The amount of the monthly minimum income for individual family members is determined in proportion to the minimum income using the following scale:

- first adult person in the family: 1
- every next adult person in the family: 0.7
- child up to 18 years of age or child aged 18-25 if in full-time education: 0.3.

The amount of the minimum income for a single-parent family is increased by 30 % of the basic amount of the minimum income. The 2006-11 basic amounts of the minimum income are listed below.

Table 10 Minimum income rates, EUR per month, 2006-2011

	2006	2007	2008	2009	2010	2011
Minimum income	200.56	205.57	212.97	221.70	226.80	229.52

Financial social assistance is not granted to a single person or a family with savings or property amounting to or exceeding the level of 60% of minimum incomes. For the purposes of income test, property shall exclude:

- the apartment in which an individual person or family live and which is set forth in regulations governing housing relations as an adequate apartment,
- property generating income which is observed in the determination of one's own income,
- objects which, pursuant to the regulations governing the execution of judgements in civil matters and the insurance of claims and
- personal vehicles up to the value of 35 minimum wages.

Period: 2012-2013

The Social Benefits Act (2010) introduces new equivalence scale which was enforced in January 2012. The new equivalence scale also includes work incentive (additional weight of 0.28 for 60-128 hours of work per month and 0.56 for more than 128 hours of work per month). The weights differ for the first and further children, and also according to the status of a higher secondary school student (additional weight of 0.1 to compensate for the education related costs since these students are not eligible for the national educational grant). Consequently, the weights are defined for 13 family member types, which is evident from Table 11.

Table 11 Equivalence scales for social assistance, from 1 January 2012

Weight	Family member
1	The first adult
1.28	The first adult working 60-128 hours/month
1.56	The first adult working more than 128 hours/month
0.7	Single person aged 18-25, living with parents and registered as unemployed
0.8	Single person - permanently unemployable, or permanently incapable of work, or older than 63 (a woman) / 65 (a man) - living with persons who have sufficient means of subsistence for themselves and are not their family members (according to the definition in the Act)
1	An adult in full-day institutional care
0.5	Each further adult
0.64	Each further adult working 60-128 hours/month
0.78	Each further adult working more than 128 hours/month
0.8	The first child: the oldest child who is not a higher secondary education
0.7	Further child who is not in higher secondary education
0.99	The first child: the oldest child who is in higher secondary education
0.89	Further child who is in higher secondary education

Social Benefits Act (2010) introduces a higher level of basic minimum income which is equal to is EUR 288.81 from 1st January 2012. However, the Act of Additional Intervention Step in 2012 because of Economic Crises lowered the amount of basic minimum income to 260 EUR (from initially set value of 288.81 EUR) from the first day the Social Benefits Act was enforced. As already stated, basic amount of minimum income is an exception and is indexed twice a year. Therefore the amount of basic minimum income is increased in February 2013 (to 261.56 EUR and August 2013 (265.22 EUR) In case of a child in a single-parent family (according to new legislation), the minimum income for a family is increased by 10 per cent of basic amount of the minimum income for each child.

Table 12 Minimum income rates, EUR per month, by 30st June

	2012	2013
Minimum income	260.00	261.56

Family income which is the base for income test is net of taxes and consists of: taxable employment and self-employment income (when self-employment income is lower than gross minimum wage, 75% of gross minimum wage is taken into account), contractual work incomes, student work incomes, all pensions, unemployment wage compensation, wage compensation for disabled workers, unemployment assistance, parental and paternal payments, parental allowance, capital income, rents, compensation for lost income due to care for child with special needs, social contributions up to full working time for parents working part-time, national scholarship (without supplements), the difference between received and paid maintenance payments. Personal income tax and employee social security contributions are subtracted. Child benefits are included in family income, while birth grant and large family allowance are not.

- **Benefit amount**

The benefit level is the difference between minimum income for the family and family actual income net of taxes and compulsory social security contributions.

- *EUROMOD notes*

We take into account total annual income and not income in three previous months.

Asset test is not simulated due to data constraints.

Weights for persons older than 63 (a woman) / 65 (a man) - living with persons who have sufficient means of subsistence for themselves and are not their family members are not simulated by the model due to data constraints.

2.4.9 Income support (bsapm_si)

- *Definitions*

Income support is a social protection benefit, enacted from January 2012, and intended for persons, who cannot ensure their financial security due to circumstances beyond their control. It replaces pension support for pensioners and state pension which both have been abolished.

- *Eligibility conditions*

Persons, who are permanently unemployable or permanently incapable for work or women older than 63 years or men older than 65 years, whose family income (defined in the same way as for social assistance) does not exceed the minimum income amount, are eligible for income support. Income support is also means tested in the same way as social assistance (social assistance included into family income).

- *Income test*

The Social Benefits Act (2010) introduces new equivalence scale for income support which was enforced in January 2012. The amount of minimum income for income support beneficiaries is increased in relation to the basic amount of the minimum income as evident from Table 13.

Table 13 Equivalence scales (supplements to basic amount of minimum income), from 1 January 2012

Weight supplements	Family member
0.73	The single person
0.73	The only adult person in the family
0.73	The first adult person in the family, in which its other adult family members also fulfil the conditions for income support
0.36	For other adult person in the family, in which its other adult family members fulfil the conditions for income support (with higher weight) or have the status of an active person

Family income, which is the base for income test, is net of taxes and consists of: taxable employment and self-employment income, contractual work incomes, student work incomes, all pensions, unemployment wage compensation, wage compensation for disabled workers, unemployment assistance, parental and paternal payments, parental allowance, capital income, rents, compensation for lost income due to care for child with special needs, social contributions up to full working time for parents working part-time, national scholarship (without supplements), the difference between received and paid maintenance payments. Personal income tax and employee social security contributions are subtracted. Child benefits and social assistance are included in family income, while birth grant and large family allowance are not.

- ***Benefit amount***

The benefit level is the difference between minimum income for the family and family actual income net of taxes and compulsory social security contributions.

- ***EUROMOD notes***

We take into account total annual income and not income in three previous months.

Asset test is not simulated due to data constraints.

Weights for persons older than 63 (a woman) / 65 (a man) - living with persons who have sufficient means of subsistence for themselves and are not their family members are not simulated by the model due to data constraints.

2.4.10 Housing benefit (bho_s)

- ***Definitions***

Housing benefit is means-tested and covers part of rent for a person whose family income does not exceed certain threshold. The share of covered rent depends on the size of apartment and beneficiary's income, and must not exceed 80% of respective non-profit rent. There were no changes in eligibility conditions, income test and benefit amount for this benefit in 2012.

- ***Eligibility conditions***

Access to housing benefit is limited only to households renting and paying profit or non-profit rent with income under certain threshold.

- ***Income test***

Income threshold is the sum of (a) minimum income (the same as for social assistance according to previous / new legislation) for particular household, (b) 30% of net family income and (c) estimated non-profit rent. Households above threshold are not eligible at all.

The family income should be below family minimum income. Family income, which is the base for income test, is net of taxes and consists of: taxable employment and self-employment income, contractual work incomes, student work incomes, all pensions, unemployment wage compensation, wage compensation for disabled workers, unemployment assistance, parental and paternal payments, parental allowance, capital income, rents, compensation for lost income due to care for child with special needs, social contributions up to full working time for parents working part-time, national scholarship (without supplements), the difference between received and paid maintenance payments. Personal income tax and employee social security contributions are subtracted. Child benefits, social assistance, income support and national scholarship are included in family income, while birth grant and large family allowance are not.

Estimated annual non-profit rent depends on the flat size. The maximum flat size taken into account when estimating non-profit rent depends on the number of family members:

Table 14 Maximum flat size for housing benefit, 2006-2013

The number of family members	Maximum flat size
1 family member	30 m ²
2 family members	45 m ²
3 family members	55 m ²
4 family members	65 m ²

5 family members	75 m ²
6 family members	85 m ²
more than 6 family members	85 m ² +6 m ² for 7 th and each subsequent member

Estimated annual non-profit rent is calculated as follows (S = flat size in square meters):

- $(270 * 2.63 * S * 1.057 * \text{factor})$ if $S \leq 30$
- $(270 * 2.63 * S * 1.024 * \text{factor})$ if $S > 30$ & $S \leq 45$
- $(270 * 2.63 * S * 1.000 * \text{factor})$ if $S > 45$ & $S \leq 65$
- $(270 * 2.63 * S * 0.966 * \text{factor})$ if $S > 65$ & $S \leq 75$
- $(270 * 2.63 * S * 0.950 * \text{factor})$ if $S > 75$

In 2006 factor amounted to 0.0446 and in 2007 to 0.0468. It has not changed since then.

- ***Benefit amount***

The benefit level is the difference between income threshold for the household and household income which is the base for income test. The benefit cannot be higher than 80% of estimated non-profit rent (*MOD: Estimated non-profit rent*). Housing benefit is not subject to income tax.

- ***EUROMOD notes***

There is no information about the actual flat size in the data, so the family-size-dependent maximum flat size is assumed in the estimation of the non-profit rent.

Asset test is not simulated due to data constraints.

2.4.11 Child benefit (bchmt_s)

- ***Definitions***

Child benefit has experienced major changes since 2012, therefore we describe both systems - old system before year 2012 and new system in year 2012. Before 2012, child benefit was a means-tested benefit, held by one of the parents for a child residing in Slovenia. The right to a child benefit was held until the child had reached 18 years of age, as well as for the period in which the child continues with full-time education, but only until the child reaches 26 years of age. Child benefit was paid only in case if income per family member, in the calendar year prior to the submission of a claim, was below the average gross wage in Slovenia.

Since 2012, the right to child benefit has been granted to one of the parents or any other person, namely for a child that resides in the Republic of Slovenia and is younger than 18 years, and who also fulfils all other conditions. Children aged 18 years or older are no longer eligible to child benefit.

- ***Eligibility conditions***

Access to child benefit is limited to families with dependent child residing in Slovenia under the condition that:

- a. the child is a national of the Republic of Slovenia;
- b. the child is not a national of the Republic of Slovenia, on the condition of reciprocity (i.e. bilateral convention between two countries).

- ***Income test***

Access to child benefit is restricted to those families below an income threshold. Income test differs before year 2012 and from year 2012 on.

Before 2012, income threshold was set as income per family member compared to average gross wage. Family income, which was the base for income test, was gross income and consisted of: employment and self-employment income, contractual work incomes, all contributory pensions and yearly bonus for pensioners, disability supplement, unemployment wage compensation, wage compensation for disabled workers, unemployment assistance, parental and paternal payments, parental allowance, capital income, royalties, rents, imputed income from land, compensation for lost income due to care for child with special needs, social contributions up to full working time for parents working part-time, social assistance, housing benefit, scholarship, the difference between received and paid maintenance payments. Families above threshold were not eligible at all.

Since 2012, income threshold is set as income per family member compared to average net wage. The family income, which is the base for income test, is net of taxes and consists of: taxable employment and self-employment income, contractual work incomes, student work incomes, all pensions, unemployment wage compensation, wage compensation for disabled workers, unemployment assistance, parental and paternal payments, parental allowance, capital income, rents, compensation for lost income due to care for child with special needs, social contributions up to full working time for parents working part-time, national scholarship (without supplements), the difference between received and paid maintenance payments. Personal income tax and employee social security contributions are subtracted. Child benefit is the first benefit in series, which means no subsequent benefits (social assistance, income support and state scholarship) are included into family income.

Besides that, a new means test has been introduced. It should be noted that the same assets are taken into account for all social benefits (more details about means testing are described in chapter 2.4.8.).

Families above threshold are not eligible for child benefits.

- ***Benefit amount***

The benefit is paid per month (12 times a year) per eligible child. Before 2012, the amount of benefit depended on the family income per family member in comparison to average gross wage and the number of eligible children. There were 8 income brackets. The 2006-11 rates are listed in table below.

Table 15 Child benefit rates, EUR per month, 2006-2011

Gross family income per family members as percentage of average gross wage in Slovenia	2006	2007	2008	2009	2010	2011
1st child						
to 15%	92.14	94.44	106.06	110.41	112.95	114.31
more than 15% to 25%	78.78	80.75	90.68	94.40	96.57	97.73
more than 25% to 30%	60.05	61.55	69.12	71.95	73.6	74.48
more than 30% to 35%	47.36	48.54	54.51	56.74	58.05	58.75
more than 35% to 45%	38.72	39.69	44.57	46.40	47.47	48.04
more than 45% to 55%	24.54	25.15	28.24	29.40	30.08	30.44
more than 55% to 75%	18.40	18.86	21.18	22.05	22.56	22.83
more than 75% to 99%	16.02	16.42	18.44	19.20	19.64	19.88
2nd child						
to 15%	101.36	103.89	116.67	121.45	124.24	125.73
more than 15% to 25%	87.09	89.27	100.25	104.36	106.76	108.04
more than 25% to 30%	67.10	68.78	77.24	80.41	82.26	83.25
more than 30% to 35%	54.04	55.39	62.20	64.75	66.24	67.03
more than 35% to 45%	45.19	46.32	52.02	54.15	55.4	56.06
more than 45% to 55%	30.71	31.48	35.35	36.80	37.65	38.1
more than 55% to 75%	24.54	25.15	28.24	29.40	30.08	30.44
more than 75% to 99%	22.16	22.71	25.51	26.56	27.17	27.5
3rd and each subsequent child						
to 15%	110.58	113.34	127.28	132.50	135.55	137.18
more than 15% to 25%	95.35	97.73	109.75	114.25	116.88	118.28
more than 25% to 30%	74.15	76.00	85.35	88.85	90.89	91.98
more than 30% to 35%	60.84	62.36	70.03	72.90	74.58	75.47
more than 35% to 45%	51.62	52.91	59.41	61.85	63.27	64.03
more than 45% to 55%	36.85	37.77	42.41	44.15	45.17	45.17
more than 55% to 75%	30.71	31.48	35.35	36.80	37.65	38.1
more than 75% to 99%	28.29	29.00	32.57	33.91	34.69	35.11

Lone parents were entitled to 10% higher child benefit. Additionally, pre-school child who was not enrolled in pre-school education was entitled to a 20% higher child benefit.

Since 2012, the amount of benefit depends on the family income per family member in comparison to average net wage and the number of eligible children. The number of income brackets is the same as in previous system, while the benefit amounts differ according to educational level of a child.

In June 2012, Public Finance Balance Act abolished the right to child benefit for parents in 7th and 8th income bracket and lowered child benefit amount for parents in 5th and 6th income bracket by 10%. Child benefit amounts, valid from June 1st 2012, are evident from the table below.

Table 16 Child benefit rates, EUR per month, 2012-2013

Net monthly income per person in % of net average wage	Child benefit for a child in elementary school or until 18 years of age (in euro)			Child benefit for a child in high school or until 18 years of age (in euro)		
	1st child	2nd child	3rd and every additional child	1st child	2nd child	3rd and every additional child
to 18%	114.31	125.73	137.18	168.31	179.73	243.55
more than 18 to 30%	97.73	108.04	118.28	142.73	153.04	206.88
more than 30 to 36%	74.48	83.25	91.98	110.48	119.25	162.89
more than 36 to 42%	58.75	67.03	75.47	85.75	94.03	128.58
more than 42 to 53%	43.24	50.45	57.63	61.24	68.45	92.94
more than 53 to 64%	27.4	34.29	41.14	39.1	45.99	64.05

Lone parents (according to new stricter definition) are entitled to a 10% higher child benefit. Additionally, pre-school child, who is not enrolled in pre-school education, is entitled to a 20% higher child benefit.

- **EUROMOD notes**

Asset test is not simulated due to data constraints. The increase of child benefits in single parent families is not simulated for year 2012, due to new stricter definition of single-parent family and lack of needed data. 20% higher child benefits are also not simulated due to data constraints.

2.5 Social contributions

There are four types of compulsory social security contributions, which are paid both by employer and employee: (1) for pension and disability insurance (they are paid to the Pension Insurance Fund), (2) for health insurance (they are paid to the Institute of Health Insurance), (3) for unemployment insurance (they are paid to the central government), (4) for maternity leave insurance (they are paid to the central government).

There are also some social security contributions for benefits. Employee part of these contributions (unemployment wage compensation, parental payments, wage compensation for disabled workers, compensation for lost income due to care for child with special needs and compensation for lost income due to care for child with special needs) is included among employee social contributions, although they are paid from the institution which disburses the benefit.

The “employer” part of social security contributions on benefits (parental payments, wage compensation for disabled workers, unemployment wage compensation, compensation for lost income due to care for child with special needs, compensation for lost income due to care for child with special needs, unemployment assistance and pensions) could be considered as credited contributions. However, in external statistics these contributions are treated as transfers between public funds.

As already mentioned, there are also credited social security contributions for parents:

- part time work of parents with children under 3/6 - up to full working time,
- paternal payment after 15th day, and
- parents who exits the labour market due to the care for four or more children.

Besides, there are also credited health insurance contributions on pensions (paid by Pension Fund to the Health Insurance Company) and health insurance contributions on unemployment assistance (paid by Employment Service to the Health Insurance Company).

Minimum base for social contributions at the level of minimum wage is in force for taxable employment income and wage compensation for sick leave. It means that the social contributions are paid from minimum wage if reference earnings (employment income and wage compensation for sick leave) are lower than minimum wage. Employee and employer contributions are paid by employer. New Pension and Disability Insurance Act, enforced at the beginning of 2013, gradually increases minimum base for social contributions up to 60% of average wage in 2021, but the minimum base is still set at the level of minimum wage in 2013 and 2014.

New pension legislation introduced reduced social security contributions for employing first job seekers and older workers from July 2013. Employers can apply for 50% refund of employer social contributions paid for the first year of employment of the first-job seeker, and for 30% refund for the second year. The additional condition is that the employment contract is permanent and signed for at least two years and that the employee is younger than 26 years (or is a mother with a child up to three years of age). Similarly, employer social contributions are 30% lower for employees who are older than 60 years and 50% lower for employees who have already fulfilled early retirement conditions.

- ***EUROMOD notes***

Reduced social security contributions are not the part of 2013 system in EUROMOD as those came into force after 30th June 2013. The minimum base condition is not modelled due to data constraints.

2.5.1 Employee social contributions (tscee_s), (tscbe_s)

Employee social contributions are paid at a flat rate 22.1% of reference earnings. Reference earnings are: taxable employment income and wage compensation for sick leave. Employee part of social contributions is paid also from some benefits: compensation for lost income due to care for child with special needs, maternity and paternal payments, unemployment wage compensation, compensation for lost income due to care for child with special needs and wage compensation for disabled workers. There is no upper earnings threshold. The base for contributions includes also some fringe benefits and remuneration of expenses related to work above certain threshold.

The rates of employee social contributions are the following:

- a. for pension and disability insurance: 15.5%;
- b. for health insurance: 6.36%;
- c. for unemployment insurance: 0.14%
- d. for maternity leave insurance: 0.1%

In case the reference earnings are lower than minimum wage the procedure is as follows:

1. employee social security contributions are paid from reference earnings and
2. from the difference between reference earnings and minimum wage:
 - a. the social contributions for unemployment insurance: 0.14 % - and
 - b. social contributions for maternity leave insurance: 0.1%.

Health social insurance contributions are not paid.

- **EUROMOD notes**

Due to data reasons, the base consists (only) of: taxable employment income and wage compensation for sick leave. Employee part of social contributions for benefits consists of unemployment wage compensation, wage compensation for disabled, maternity and paternity payment. Employee part of social contributions on benefits (tsbe_s) is added to employee social contributions (ils_sicee) in the output and has to be subtracted to get contributions paid actually by employees. The minimum base condition is not modelled due to data constraints.

2.5.2 Employer social contributions (tscr_s)

Employer social contributions are always paid in line with employee social security contributions. In addition, there are also some incomes where only employer social contributions are paid. The rates of contributions are the following:

- a) for pension and disability insurance:
 - 8.85% - the base is the same as for employee social contributions,
 - 6% - the base is income from contractual work (8.85% since 2013);
- b) for health insurance:
 - 6.56% - the base is the same as for employee social contributions;
- c) for occupational disease and employment injury insurance contributions:
 - 0.53% - the base is the same as for employee social contributions less unemployment insurance benefit;
- d) for unemployment insurance:
 - 0.06% - the base is the same as for employee social contributions;
- e) for maternity leave insurance:
 - 0.1% - the base is the same as for employee social contributions.

In case the reference earnings are lower than minimum wage the procedure is as follows:

1. employer social security contributions are paid from reference earnings and
2. from the difference between reference earnings and minimum wage:
 - a. social contributions for pension and disability insurance (employee and employer part): 24.35 %
 - b. the social contributions for unemployment insurance 0.06 %;
 - c. social contributions for maternity leave insurance: 0.1%.

Health social insurance contributions are not paid.

- **EUROMOD notes**

The minimum base condition is not modelled due to data constraints.

2.5.3 Self-employed social contributions (tscse_s)

Self-employed social security contributions are calculated on the basis of the following schedule, which is graduated in relation to self-employed profit (revenue minus expenses). The base cannot be less than national minimum wage.

Table 17 Self-employed social contributions, tax base

Profit	Tax base for contributions
if profit > 0 & profit ≤ minimum wage	minimum wage
if profit > minimum wage & profit ≤ average gross wage	0.6*average gross wage
if profit > average gross wage & profit ≤ 1.5*average gross wage	0.9*average gross wage
if profit > 1.5 average gross wage & profit ≤ 2.0*average gross wage	1.2*average gross wage
if profit > 2.0 average gross wage & profit ≤ 2.5*average gross wage	1.5*average gross wage
if profit > 2.5 average gross wage & profit ≤ 3.0 average gross wage	1.8*average gross wage
if profit > 3.0 average gross wage & profit ≤ 3.5 average gross wage	2.1*average gross wage
if profit > 3.5 average gross wage	2.4*average gross wage

Minimum base is minimum wage and upper earning threshold is 2.4*average gross wage. Self-employment contribution rates correspond to the sum of employee and employer contributions rates, i.e. 22.1% + 16.1%=38.2%.

- **EUROMOD notes**

Data on self-employment income in EU SILC include self-employment income which is taxed with social contributions and also other types of income (agriculture income, part of employment income to align with labour economic status) which are partly gained through survey. Therefore, the identification of self-employed persons who are obliged to pay social insurance contributions is needed. In 2009 and onwards, we identify them by comparing gross and net self-employment income in EU-SILC (py050g and py050n). When net self-employment income is lower than gross self-employment income, we assume that social insurance contributions were paid and we consider them as self-employed who are obliged to pay contributions. In years before 2008, we identify this group of self-employed by setting the condition in connection to labour status (les = 2).

2.5.4 Credited social contributions (tsctfa*_s, tscthl01_s, tsct*_s)

The base for credited social security contributions for parents is an appropriate percentage of minimum wage in case of part time work or the total amount of minimum wage. All social security contributions are paid (38.2% in total). (See sections 2.3.1 and 2.3.2.)

The base for credited health insurance contributions on pensions is the amount of pensions multiplied by a factor (1.573), while the contribution rate is 5.96%. The base for credited health insurance contributions on unemployment assistance is the benefit amount and the contribution rate is 12.92%. Note that these contributions are treated as transfers between public funds in external statistics and not as credited contributions.

The employer part of social contributions on benefits is also treated as transfers between public funds and not as credited contributions. The following rates are applied: 16.10 % for wage compensation for disabled workers and parental payments, and 15.57% for unemployment wage compensation.

2.6 Personal income tax (tin_s)

The main tax simulated for Slovenia is personal income tax. All residents are required to file income tax returns if their annual income exceeds an exemption limit (i.e. general tax allowance and higher amount for pensioners).

2.6.1 Tax unit

Personal income tax in Slovenia is individual and each taxpayer must file its own tax return. Only in case of family allowances we consider family, but only to determine dependent children and other dependent family members.

2.6.2 Exemptions

There are few tax exemptions i.e. income components which do not have to be declared to the tax authorities, and thus are not included in the concept of taxable income: (a) family benefits (birth grant, large family supplement, child benefit, parental allowance), (b) social assistance, (c) housing benefit, (d) attendance supplement, (e) childcare supplement, (f) unemployment assistance, (g) benefits from education (scholarship), (h) disability supplement and (i) employee social contributions.

2.6.3 Tax allowances

There are eight tax allowances: (a) general tax allowance, (b) disabled person's tax allowance, (c) seniority tax allowance, (d) allowance for self-employed professionals, (e) special allowance for additional pension insurance, (f) special allowance for selected expenses, (g) family allowance for other dependant family member (partner or parent) and (h) family allowance for children. The first 6 allowances are named standard allowances and the last 2 are named family allowances. All tax allowances are deducted from the intermediary tax base.²

- *Standard tax allowances (tinta_s)*

Taxpayers who are not dependent children / parents / partners (another taxpayer claims family or child allowance for them) or taxpayers with positive intermediary tax base are eligible for general allowance. Since 2007, general allowance differentiates according to the taxable income amount.

Disabled person's allowance is granted to all taxpayers who are heavily disabled. Seniority allowance is granted to all taxpayers aged 65 and over. Self-employed professionals in the field of culture and self-employed journalist are entitled to the annual allowance equal to 15% of their income, but the allowance cannot be higher than €25,500 per year. Taxpayers can also claim allowance for insurance premium paid for additional voluntary pension insurance in the size up to 5.844% of his gross wage, but the allowance cannot be higher than the amount set by law. Special allowance for selected expenses has been abolished since 2007.

There is also special allowance for students who work on the basis of a student's referral note from an authorised organisation, which carries out an activity of providing work to secondary-school and university students in accordance with the regulations in the domain of employment. Students in regular education (aged 26 or less), whose incomes from student work did not exceed 6,676.68 EUR per year in 2006, were entitled to the annual allowance equal to €5,112.67 EUR. Students whose incomes from student work exceeded this threshold (6,676.68 EUR per year) were not entitled to this allowance at all. Threshold for student work incomes was abolished in 2007 and all students, regardless the income amount from student work, are entitled to this allowance. However, the allowance amount was lowered by a quarter in 2013.

² Intermediary tax base is taxable income minus employee and self-employed social security contributions.

- *EUROMOD notes*

Disabled person's allowance and self-employed professional's allowance are implemented but switched off because of lack of data on eligibility.

- *Family tax allowances (tinta_s)*

In case of family allowances, we consider family as a tax unit to determine dependent children and other family members. Despite considering family as a tax unit to determine dependent family members, it should be kept in mind that tax allowances are always assessed individually and not jointly.

We distinguish between tax allowances for dependent family members and tax allowances for dependent children.

Dependent family member is:

- dependent spouse or
- dependent parent

with intermediary tax base less than family allowances for other dependent family members.

Children below age 18 are considered dependent children, regardless any other conditions. Children aged 18 or more but less than 26 are considered dependent children only if a person is in full time educations. If child is unemployed and with income less than family allowances for dependent child can also be considered as dependent child.

Every person is considered as an individual in Slovenian tax system. Therefore parents can freely decide how to split entitlement to child allowances among them. In most cases it is optimal that parent with highest final tax base claims allowance for all children, as allowance is progressive³. For this reason, it is assumed that parent with highest final tax base claims allowance for all children or for the children his/her final tax base can absorb.

If the final tax base of parent with highest income is not sufficient to claim allowances for all dependent children in the family, the other parent should claim allowance for the rest of children. As allowance is progressive, it is important to keep in mind that the other parent can claim allowance only for the number of children reported in his/her own tax return, regardless of the number of children in family. For example, in a family with five dependent children, father claims allowance for 3 children (for the first, the second and the third) and mother claim allowance for the rest two children (the first and the second for mother and not the fourth and the fifth for the family).

There is also the rule, that only one parent should claim allowance for one dependent child. Parents can share allowance for the same child only in case, if the final tax base of one parent is to low and the allowance for dependent child could not be claimed in its full amount. It should be noted that parents are allowed to split children and not the amount of allowance. For example, in family with 3 children, where father is able to claim allowance for two children and 1/3 of allowance for the third child, mother claims the rest - 2/3 of allowance for the third child, which is considered as first for mother and the allowance amounts to 2/3 of allowance for the first child.

The head of the household can claim allowance for as many children as his/her final tax base can absorb and also for marginal child, i.e. the child for whose allowance cannot be claimed in

³ Note that this final tax base contains all standard tax allowances but no family tax allowances yet.

full amount. In the implementation the rest of the allowance is not transferred to the other parent but it is neglected.

Children left for the other parent – the partner of the head of tax unit - are defined as the difference between the number of all dependent children in the tax unit and the number of children the parent with highest final tax base claims allowance for.

Finally, total allowance for either parent is calculated. Family allowance is progressive and it rises for each subsequent child.

Table 18 Personal income tax allowances (EUR per year), effective on June 30, 2006-2013

Allowances	2006	2007	2008	2009	2010	2011	2012	2013
Standard allowances								
- General	2,521.82	2,800	<ul style="list-style-type: none"> • 4,959.60 if gross income is up to 8,300 • 3,959.60 if gross income is between 8,300 and 9,600 • 2,959.60 if gross income is 9,600 or higher 	<ul style="list-style-type: none"> • 5,113.35 if gross income is up to 8,557.30 • 4,082.35 if gross income is between 8,557.30 and 9,897.60 • 3,051.35 if gross income is 9,897.60 or higher 	<ul style="list-style-type: none"> • 6,120 if gross income is up to 10,200 • 4,147.67 if gross income is between 10,200 and 11,800 • 3,100.17 if gross income is 11,800 or higher 	<ul style="list-style-type: none"> • 6,205.68 if gross income is up to 10,342.80 • 4,205.74 if gross income is between 10,342.80 and 11,965.20 • 3,143.57 if gross income is 11,965.20 or higher 	<ul style="list-style-type: none"> • 6,373.24 if gross income is up to 10,622.06 • 4,319.30 if gross income is between 10,622.06 and 12,288.26 • 3,228.45 if gross income is 12,288.26 or higher 	<ul style="list-style-type: none"> • 6,519.82 if gross income is up to 10,866.37 • 4,418.64 if gross income is between 10,866.37 and 12,570.89 • 3,302.70 if gross income is 12,570.89 or higher
- For the disabled	14,662.71	14,971	15,824.35	16,314.90	16,575.94	16,808.00	17,261.82	17,658.84
- Seniority	1,172.93	1,205	1,273.69	1,313.17	1,334.18	1,352.86	1,389.39	1,421.35
- For self-employed professionals	15% of annual incomes up to 25,037.56	15% of annual incomes up to 25,000	15% of annual incomes up to 25,500	15% of annual incomes up to 25,500	15% of annual incomes up to 25,500	15% of annual incomes up to 25,500	15% of annual incomes up to 25,500	15% of annual incomes up to 25,500
For selected expenses	up to 2% of annual tax base	-	-	-	-	-	-	-
For interest paid on housing loan or purchase of dwelling	up to 2% of annual tax base	-	-	-	-	-	-	-
- For additional pension insurance	max up to 2,340.75	max up to 2,390	max up to 2,526.23	max up to 2,604.54	max up to 2,646.21	max up to 2,683.26	max up to 2,755.71	max up to 2,819.09
- For students	For incomes from student work below 6,676.68 EUR: 5,112.67	2,800	2,959.60	3,051.35	3,100.17	3,143.57	3,228.45	2,477.03
Family allowances								

EUROMOD Country Report – SLOVENIA

- For dependent children									
• 1 st child	2,023.34	2,066	2,183.76	2,251.46	2,287.48	2,319.50	2,382.13	2,436.92	
• 2 nd child	2,199.30	2,246	2,374.02	2,447.62	2,486.78	2,521.59	2,589.68	2,649.24	
• 3 rd child	2,932.54	3,746	3,959.52	4,082.27	4,147.58	4,205.64	4,319.20	4,418.54	
• 4 th child	3,665.79	5,246	5,545.02	5,716.92	5,808.39	5,889.70	6,048.73	6,187.85	
• 5 th child	4,399.03	6,746	7,130.52	7,351.57	7,469.19	7,573.75	7,778.24	7,957.14	
• each subsequent child	732.82 (more than previous child)	1,500 (more than previous child)	1,585.50 (more than previous child)	1,634.65 (more than previous child)	1,660.80 (more than previous child)	1,684.05 (more than previous child)	1,729.52 (more than previous child)	1,769.29 (more than previous child)	
• for disabled child	7,331.57	7,486	7,912.70	8,157.99	8,288.52	8,404.56	8,631.48	8,830.00	
- For dependent family members	2,023.34	2,066	2,183.76	2,251.46	2,287.48	2,319.50	2,382.13	2,436.92	

- **EUROMOD notes:**

The possibility of splitting the allowance for one child between parents is neglected in the implementation due to high construction pretentiousness of the model and insignificant impact on aggregate results. However, model determines the number of children the parent with highest final claims allowance for, and the number of children left for the second parent. The model assumes that at most 10 dependent children live in one family, which meets the requirements of Slovenian data.

It was not possible to apply actual calculation of family allowances entirely in EUROMOD. Therefore, there are some differences between the modelled policy and actual calculation of family allowances:

- upper income limit cannot be controlled for dependent partners in the tax unit definition and only partly for dependent parents,
- dependent child income limit depends on the family allowance for that child – current policy always compares income of dependent child to allowance for the first child,
- policy currently does not allow splitting of one child between parents,
- implementation does not check if child is less than a year old (in this case only a proportional child allowances are taken into account).

Parents of disabled children are entitled to higher tax allowance. This cannot be simulated.

2.6.4 Tax base

The final tax base is defined as taxable income minus social security contributions minus tax allowances. We get intermediary tax base if we subtract employee and self-employed social security contributions from taxable income.

Taxable income consists of: employment income, self-employment income, wage compensation for sick leave, pensions (with yearly bonus and pension support), wage compensation for disabled workers, income from contractual work (90% of income), imputed income from land, royalties (90% of income), income from rent (60% of income), maternity (parental) payments, unemployment insurance benefit, compensation for lost income due to care for child with special needs, credited social contributions up to full working time for parents of children under three and for parents of four children or more who exit labour market.

Intermediary tax base is taxable income minus employee social security contributions.

Final tax base is intermediary tax base minus tax allowances.

Note that final tax base cannot be negative. Therefore policy limits tax allowances to intermediary tax base.

2.6.5 Tax schedule

The tax schedule is progressive, and it is shown in the table below.

Interests, capital gains and dividends are taxed separately. The tax rate for dividends and interest income was 20% up to 2012 and was increased to 25% in 2013. The tax rate for capital gains depends on the holding period: 25% for a holding period of up to 5 years, 15% for a holding period from 5 to 10 years, 10% for a holding period from 10 to 15 years, 5% for a holding period from 15 to 20 years and 0% for a holding period greater than 20 years. The tax is treated as a final tax for residents and non-residents alike.

Table 19 Tax schedule 2006-2013

Tax bracket	Tax base (annual)		Tax
	From (EUR)	To (EUR)	
Tax schedule, 2006			
1	-	5,538.72	16%
2	5,538.72	10,821.82	33%
3	10,821.82	21,899.27	37%
4	21,899.27	44,011.56	41%
5	44,011.56		50%
Tax schedule, 2007			
1.	-	6,800	16%
2.	6,800	13,600	27%
3.	13,600	-	41%
Tax schedule, 2008			
1.	-	7,187.60	16%
2.	7,187.60	14,375.20	27%
3.	14,375.20	-	41%
Tax schedule, 2009			
1.	-	7,410.42	16%
2.	7,410.42	14,820.83	27%
3.	14,820.83	-	41%
Tax schedule, 2010			
1.	-	7,528.99	16%
2.	7,528.99	15,057.96	27%
3.	15,057.96	-	41%
Tax schedule, 2011			
1.		7,634.40	16%
2.	7,634.40	15,268.77	27%
3.	15,268.77		41%
Tax schedule, 2012			
1.		7,840.53	16%
2.	7,840.53	15,681.03	27%
3.	15,681.03		41%
Tax schedule, 2012			
1.		8,021.34	16%
2.	8,021.34	18,960.28	27%
3.	18,960.28	70,907.20	41%
4.	70,907.20		50%

- **EUROMOD notes**

Due to data limitations, taxes on capital gains are not simulated (while tax on interests and dividends are).

2.6.6 Tax credits

Tax credits are defined as deductions from tax due. In Slovenian tax system there is only one tax credit; pensioner allowance granted to all pension recipients, regardless of the type and amount of pension. This tax credit amounts to 14.5% of received pension.

2.7 Payroll taxes

We distinguish between two types of payroll tax: (a) payroll tax on wages and (b) tax on contractual work.

2.7.1 Payroll tax on wages

Payroll tax on wages is paid by all employees who receive wages. The tax schedule contains four brackets and a progressive tax scale with 0%, 2.3%, 4.7%, and 8.9% tax rates. This tax is not applied to the self-employment income. Tax schedule for 2006 - 2008 is shown in tables below. This tax was abolished in 2009.

Table 20 Payrol tax schedule, 2006 - 2008

Tax bracket	Tax base (annual)		Tax
	From (EUR)	To (EUR)	
Tax schedule, 2006			
1	-	650.98	0%
2	650.98	1,669.17	3.0%
3	1,669.17	3,129.69	6.3%
4	3,129.69	-	11.8%
Tax schedule, 2007			
1	-	688.53 EUR	0%
2	688.53 EUR	1,669.17 EUR	2.3%
3	1,669.17 EUR	3,129.69 EUR	4.7%
4	3,129.69 EUR		8.9%
Tax schedule, 2008			
1	-	688.53 EUR	0%
2	688.53 EUR	1,669.17 EUR	1.1%
3	1,669.17 EUR	3,129.69 EUR	2.3%
4	3,129.69 EUR		4.4%

It should be noted that, unlike with income tax, here the highest rate (reached) applies to the whole tax base and not only to incomes within that income bracket.

2.7.2 Tax on contractual work

The contractual work tax applies to all registered legal persons and individuals who perform private business or professional activity and employ other persons under contracts for temporary work. The taxable base also includes all refunds of expenses in connection with services performed. Tax is levied at the flat rate of 25% on gross payments.

3. DATA

3.1 General description

The Slovenian database consists of the Slovenian part of the European Union Statistics on Income and Living Conditions (EU-SILC). The observation units are households and persons aged 16 and over who live in these households and have been selected at random from the Central Population Register. These selected persons and their addresses determine the households that shall be interviewed.

The sample design for Slovenian EU-SILC was two-stage stratified design. In the first stage sampling units were selected, which are clusters of enumeration areas, approximately of the same size. In the second stage 7 persons were selected in the selected PSUs. Actually, the sampling frame of persons aged 16 years or more (on 31st December 2009) is divided into 6 strata, which are defined according to the size of the settlement and the proportion of agricultural households in the settlement. Since regional representativeness should be maintained, implicit stratification according to statistical region was applied.

The survey is in fact a panel; therefore, the selected persons and households participate in the survey for 4 consecutive years. The sample consists of 4 rotating sub-samples: every year a quarter of the respondents who have already participated in 4 consecutive surveys is eliminated and a new quarter of persons is introduced and interviewed for the first time. Every year the sample consists of approximately 12,500 persons or households, respectively, whereas the method of selection and weights enable to generalize the response data to the entire population and to all the households.

The EU-SILC survey consists of two parts or sources: the survey and the register/ administrative data. The data that refer to income and some other information are gathered from the existing registers and administrative records and are linked to the survey results. The use of registers and administrative sources not only facilitates the diminishing of the burden on the respondents, but it also helps cut down the survey expenses. Register and administrative sources from which important information is gathered:

- Tax Authority – income tax and other sources
- Employment Service of Slovenia – unemployment benefits, financial aid, register of unemployed persons
- Ministry of Labour, Family and Social Affairs – social benefits, family income
- Agency for Agricultural Markets and Rural Development – agricultural subsidies
- Central Population Register – marital status, country of birth
- Pension and Disability Insurance Institute – pensions and other sources
- Statistical Register of Employment – status of employed persons, occupation, activity of employment, number of employed persons in the unit
- Institute of Public Health – status of inactive persons
- Ministry of the Environment and Spatial Planning – housing allowances.

The survey takes place between 1 February and 15 June in the year following the income reference year.

More information on technical issues concerning the Slovenian EU-SILC 2010 can be found in its Intermediate Quality Report Eu-Silc-2010 Slovenia (and on the web-page of SORS⁴ (http://www.stat.si/eng/metodologija_pojasnila.asp?pod=8)).

User Database on which the EUROMOD database is based, is provided by Eurostat.

Table 21 EUROMOD database description

EUROMOD database	SI_2010_a1
Original name	UDB_v10-1(SI)
Provider	Eurostat
Year of collection	2010
Period of collection	1st February – 14th June 2010
Income reference period	Year 2009
Sampling	Two stage random sampling
Unit of assessment	Household [1]
Coverage	Private households [2]
Sample size	9,364 households 29,474 individuals
Response rate	77.62% [3]

[1] Households are composed of families or other communities of persons who live together and spend their income together (for dwelling, food, other), irrespective of whether all members have permanent residence in the place in which the household is located, or whether - due to work, schooling or other reasons - some of the members for a longer period of time (up to 6 months) live elsewhere in Slovenia or abroad.

[2] Households living at private residential addresses. Selected persons and their addresses determine the households that shall be interviewed.

[3] It refers to household response rate which is equal 1 minus household non-response rate.

3.2 Sample quality and weights

3.2.1 Non-response

Since there is the sample of persons, and the data are obtained both from the interview and from the registers, the household is considered respondent only if household questionnaire is completed and if also questionnaire for the selected person is completed. From other household members data are obtained from registers.

Household non-response rate is computed as follows:

$$NR=(1-(Ra*Rh))*100,$$

Where Ra is address contact rate and Rh is the proportion of complete household interviews accepted for the database. Address contact rate amounted to 98.4% in 2010 and proportion of completed household interviews to 78.8%, meaning that household non-response rate was 22.38%.

Individual non-response rates (NRp) is computed as follows:

$$NRp=(1-(Rp))*100$$

⁴ Statistical Office of the Republic of Slovenia.

Where Rp is the proportion of the complete personal interviews within the households accepted for the database. In 2010 Rp amounted to 100%, meaning that individual non-response rate was 0%. Overall non-response rate was 23.93%.

Unit non response is extensively documented in the Slovenian SILC Quality Report from page 26 onwards (Statistical Office of the Republic of Slovenia, Intermediate Quality Report, EU-SILC-2010, Slovenia).

3.2.2 Weights

The EU-SILC weights were calculated in three consecutive steps. In the first step the sampling weight (design factor), in the second the non-response adjustment factor and in the third the calibration factor was calculated. The final weight was the product of all three factors. The weights were calculated for the selected households (selected person of the household) and for all the persons included in the survey.

The sampling weight for the sample person is inversely proportional to the probability of selection and the weight is calculated when the person is selected in the sample. The non-response factor was calculated for each stratum. The final step of the calculation of the weights was the calculation of the calibration factors. By the calibration procedures the weighted sums of some key variables are set to the known population values. The sum of weights is equal to the sum of the estimated number of households in Slovenia.

Slovenian EU-SILC sample statistics have been projected to a reference population of 1,952,604 individuals in 696,640 households. Table 22 presents more basic descriptive statistics for the grossing-up individual weight rb050.

Table 22 Descriptive Statistics of the Grossing-up weight

Number	29.474
Mean	67.77
Median	56.76
Maximum	1,828.93
Minimum	1.01745
Max/Min	1798
Decile 1	23.40
Decile 9	122.54
Dec 9 / Dec1	5.24

3.2.3 Item non-response and under-reporting

Concerning item non-response, an overview is provided in the Slovenian SILC Quality Report (Statistical Office of the Republic of Slovenia, Intermediate Quality Report, EU-SILC-2010, Slovenia). From page 32 onwards, item non-response for each variable is assessed.

There is a large share of the households where some income is imputed. In the case of partial non-response some income variables were imputed (such as income from farming, reimbursement for travel to/from work, allowance for meal, non-cash employee income – components (value of the company car, months of use it), regular inter household transfers received, regular inter household transfer paid, contribution to private pensions plans, sickness benefits (numbers of days when person get sickness leave), tax on wealth, interests paid for mortgage (components to calculate interests), interests (received), consumption from own production (all components to calculate own production)). However, disposable income

(HY020) was decreased after imputation in many households. The reason was imputation of the variable HY120G/N (tax on wealth) which caused the decreasing of disposable income.

Some non-income variables were imputed, such as number of rooms, total housing costs, child care, and activity status during the income reference period.

Based on Statistical Office of the Republic of Slovenia (SORS), the average net monthly wage in 2009 was 930.0 EUR. The EU-SILC estimate of employee cash or near cash net monthly income is 827.7 EUR. The fact is that SILC monthly net income is somewhat lower than average net monthly wage from administrative sources. The reason might be the differences in income definition. Average wage reported by SORS refers only to taxable cash income received by worker, but it includes sickness benefits paid by employer (and not paid by National Health Insurance Institute). On the other hand EU-SILC data refer to cash and near cash employment income (for example reimbursement for travel to/from work and meals) but exclude sickness benefits. Even if we include sickness benefits (both, paid by employer and paid by National Health Insurance Institute) into the wage, we find out that the average net monthly wage (including sickness benefit) in 2009 amounted to 844.1 EUR. It should be mentioned that survey wages are lower on average in comparison to official statistics in Slovenia. The reason lies in methodological issues, as official average wage calculation covers persons in paid employment with employment contracts (those working under work contracts or royalty are not covered). Covered are all legal persons but not individual private entrepreneurs and persons in paid employment by them, own account workers and farmers (groups with usually lower wages). Besides, in order to minimize the influences of sick and/or maternity leave, those persons who did not receive at least 90% of minimum wage in the reference year are not taken into consideration.

The difference between EU-SILC data on employment income and data from administrative sources is relatively small, which is expected as income data are gathered from the existing registers and administrative records.

3.3 Data adjustment

Adjustments to variables are kept to a minimum. Some minor data cleaning was done to ensure that the relationships of individuals within households are coherent.

In order to guarantee consistency between demographic variables and income variables which refer to the year before data was collected (and on which EUROMOD simulation are based), all children born between the end of the income reference period and the date of interview have been dropped from the sample.

3.4 Imputations and assumptions

3.4.1 Time period

All income information in EU-SILC 2010 refers to the fiscal year 2009 (January – December) and is expressed in annual totals. Generally, incomes and benefits in Slovenia are paid on a monthly basis, although there are few exceptions (birth grant, large family allowance). There is no information on the number of months a certain wage or benefit was received. In EUROMOD database there are all monetary amounts transformed to monthly averages by dividing amounts by 12; it means it is implicitly assumed that income is received at the same rate throughout the year.

The EU-SILC information on demographic variables mainly refers to the time of data collection (February-June, 2010). The lag between the income reference period and current variables

ranges from 2 to 6 months. However, some information also indicates the status at the end of the income reference period (year 2009). For example, there are two age variables: one of them indicating age at the time of the survey implementation and one at the end of 2009. Similar situation is observed for some socio-economic and labour variables. For example, variable pl030 (self-defined current economic status) refers to the data collection time, while variable rb170 refers to the main activity status during the income reference period. If possible, the corresponding demographic, labour and socio-economic information in the EUROMOD dataset were based on the EU-SILC variables, otherwise they were imputed.

3.4.2 Gross incomes

Most of the data derived from registers are recorded gross at component level in EU-SILC. All income data are collected at the individual level (i.e. the person registered as the receiver of the income). This also concerns typically “household” related incomes such as housing benefits and social assistance.

Data file from the Tax authority enabled Statistical Office of the Republic of Slovenia that all income variables in EU-SILC were recorded gross and net. Some of variables have the same values for the gross and for the net, because from some kind of income the taxes were not paid. Only for PY020G and PY020N the gross amount was converted into the net amount taking into account 25% tax, which is usually paid in advance to tax authority.

Other notes can be found in the Slovenian SILC Quality Report (Statistical Office of the Republic of Slovenia, Intermediate Quality Report, EU-SILC-2010, Slovenia).

3.4.3 Other imputed variables

Some income / benefit variables are aggregated at very high level in EU-SILC survey which makes many problems in modelling procedures. On the other hand, national version of EU-SILC contains all EU-SILC variables at disaggregated level. Statistical Office of the Republic of Slovenia provided us with the access to national version. Since the national EU-SILC data are not anonymised, we got permission to calculate the shares of individual benefit / income in aggregated EU-SILC variables. We applied these shares to EU-SILC UDB variables and in this manner imputed the following variables:

- bfapt - Social contribution up to full working time for parents of children under three/six
- bchba - Birth grant
- bmact - Parental - maternity payment
- bmanc - Parental allowance
- bcrbafh - Paternal payment
- bchlg - Large family allowance
- bchmt - Child benefit
- bchcc - Childcare supplement
- bcrsvcc - Compensation for lost income due to care of child who need special care
- yemnt - Non-taxable part of employment income
- yemtx - Taxable part of employment income; excluding 0.9 of income from contractual and student work
- yem00 - Employment income; excluding 0.9 of income from contractual and student work
- yse00 - Self-employment income; excluding 0.9 of income from contractual and student work
- yaj - Income - Contractual work

- yst - Income - Student work
- poanc - State pension
- psact- Pension support for pensioners
- bdica - Attendance supplement
- bdixp - Disability supplement for disabled
- bdirw - Compensation for disabled workers
- pdi00 - Disability pensions; excluding pension support for pensioners (psact), attendance supplement (bdica), disability supplement for disabled (bdixp) and compensation for disabled workers (bdirw)
- poact - Pension - Old Age - Contributory
- poa00 - Pension - Old Age – Contributory; excluding pension support for pensioners (psact), attendance supplement (bdica), disability supplement for disabled (bdixp) and compensation for disabled workers (bdirw)
- psu00 - Pension – Survivor; excluding pension support for pensioners (psact), attendance supplement (bdica), disability supplement for disabled (bdixp) and compensation for disabled workers (bdirw)
- bsaen - Cash social assistance (bsaen)
- bsacm - Charity (bsacm)

Other key variables that are fully imputed (not available in the EU-SILC UDB survey) are:

- yivwg - Predicted wage
- Citizenship – EU_SILC provides no data about citizenship; we assume all persons are Slovene as 97.5% persons living in Slovenia are Slovene.
- Self-employment income recipients who are taxed with self-employment social insurance contributions are persons where lse00 = 2. These persons have lower net self-employment income than gross employment income.
- Work history (where missing) – based on the average working period for pensioners, age and sex.
- Number of months in work (where missing) – it is imputed according to employment and self-employment income in relation to the average wage.
- Previous wage – based on unemployment wage compensation.
- Slovenia is treated as one region - drgn is not applicable.

3.5 Updating

The factors that are used to update monetary variables from 2009 to 2013 are shown in the table in Annex I. No other updating adjustments are employed. Thus, the distribution of characteristics (such as employment status and demographic variables), as well as the distribution of each income source that is not simulated, remain as they were in 2009.

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 II. 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

Disposable income in EUROMOD is slightly different from the original EU-SILC data as can be seen from Table 23. There are three reasons for that: a) inclusion of different income components in the definition of household disposable income, b) sample adjustments, and c) differences in the simulated vs. observed values of income components.

Table 23 Components of disposable income

	EUROMOD	EU-SILC 2010
Disposable income	ils_dispy	HY020
Employee cash or near cash income	yem	PY010G
Company car	-	PY021G
Cash benefits or losses from self-employment	yse	PY050G
Pension from individual private plans	ypp	-
Unemployment benefits	bunct	PY090G
Old-age benefits	poa	PY100G
Survivor' benefits	psu	PY110G
Sickness benefits	bhl	PY120G
Disability benefits	pdi	PY130G
Education-related allowances	bed	PY140G
Income from rental of a property or land	yprrt	HY040G
Family/children related allowances	bmact, bmanc_s, bchlg_s, bchba_s, bcrbafh, bchmt_s	HY050G
Social exclusion not elsewhere classified	bsa_s	HY060G
Housing allowances	bho_s	HY070G
Regular inter-household cash transfer received	ypt	HY080G
Interests, dividends, etc.	yy	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 (-)	tinkt_s, tin00_s, ils_sicee, ils_sicse	HY140G

4.1.2 Validation of incomes inputted into the simulation

[See Annex II for tables]

In this section we compare statistics on earnings, benefits and taxes that are not simulated by EUROMOD with external sources (i.e. administrative figures). This provides an assessment of the quality of the database and also provides some useful background information for the validation of simulated components of income, which may depend on or be associated with the non-simulated components. We also calculate the ratio of EUROMOD earnings/expenditures and the numbers of recipients to estimates drawn from administrative statistics for some of the main social security benefits that are not simulated by the model. For these income components, the values in the EUROMOD database are mostly identical to those in the original database (here SILC 2010).

Next, we evaluate how well the 2009 income data is updated to match actual data up to 2013. As the period of 2009-2013 was characterised by deepening economic recession, starting in 2008, the unchanged socio-economic structure in the model creates differences between simulated and actual data (at the aggregate level).

Table A1 (see Annex II) shows the number of employed and unemployed in EUROMOD and external (LFS) statistics. Although the definitions and the way of estimation of these figures are not strictly comparable between the two sources of information, the LFS indicates the dynamics which took place in the labour market within the period. Looking at the absolute values the number of employed seems to be slightly overestimated in EUROMOD (i.e. EU-SILC) and the number of unemployed - even more so. We should keep in mind that the number of employed and unemployed from input dataset is computed based on the number of months in employment/unemployment. Thus, definitions between the EUROMOD and LFS, especially one of the unemployed, do not match precisely. For years after 2009, when economic crisis has deepened, the number of employed is much more overestimated every year, while the number of unemployed gets even underestimated in 2013.

Table A2 and Table A3 show the number of recipients and aggregate amounts of market income. In 2009, the total employment income is on average 2% higher in EUROMOD than in the external statistics, while the number of employment income recipients in EUROMOD exceeds external data by 3%. External data refer to fiscal administrative data prepared by the Ministry of Finance. One reason for overestimated data on employment income in EUROMOD might be the definition of employment income in EU-SILC (the basis for EUROMOD data). Employment income in EU-SILC also includes some non-taxable income (for example reimbursement for work related expenses: commuting and meals) which is not reported in PIT return and consequently not included into administrative data. Non-taxable income was imputed and deducted from employment income. Obviously, imputation of non-taxable part of employment income, based on national version of EU-SILC, is successful as discrepancies are rather small. As the number of employed decreased every year, the total employment income, in terms of total amount and the number of recipients, gets slightly overestimated over the observed period.

Self-employment income seems to be overestimated to a larger extent in EUROMOD, but EU-SILC based data on self-employment income include also some additional income in comparison to fiscal data: a) income from employment if the person spent some time in self-employment, b) some agriculture income and c) some non-taxable incomes collected from questionnaires. External statistics refer only to “pure” self-employment income.

Income from contractual work and income from student work in EUROMOD are both imputed from EU-SILC employment income, based on national EU-SILC data. The number of recipients is overestimated in the case of income from contractual work, while the amount of this income is overestimated only by 2% in comparison to fiscal data in 2009 and underestimated by 3% in years 2010 and 2011. This may be explained by short term of reciprocity captured in SILC data, while external numbers refer to average annual numbers.

The number of recipients and also the amount of income from student work are seriously overestimated in comparison to fiscal data. However, there is plausible explanation for this. Fiscal data which are used for external data are based on decisions of personal income tax sent out by Tax Administration. Income from student work is often low and students are not obliged to fill in tax return. Besides, they have very high tax allowance and majority of students are not tax-payers, meaning that they do not receive decision of personal income tax. Consequently, these students are not included in fiscal data and external data is underestimated. In case of student income EUROMOD data reflect reality better.

The amount of rent income is highly underestimated in 2009, despite the overestimated number of recipients. As EU-SLIC data contain only rent income from tax report and the number of recipients and the amounts are relatively low, the reason for these discrepancies lies in sample issues.

Table A4 and Table A5 compare statistics on non-simulated benefits with external sources. Many differences between administrative figures and EUROMOD data arise from different coverage or reference period.

All pension benefits are aggregated in EU-SILC. This means that all benefits disbursed to old-age pensioners over the age of 64 by The Institute of Pension and Invalidity Insurance of Slovenia are treated as old-age pensions in EU-SILC. The same logic applies for survivor and disability pensions. Based on national version of EU-SILC, we calculated the shares of particular benefits within poa, pdi and psu and applied these shares on each pension benefit.

The number of old-age pensioners is a bit underrepresented in EUROMOD, while on the other hand the aggregate amounts of old-age pensions is overestimated by 13% (in 2009). As the number of old-age pensioners is increasing from year to year due to ageing population, the 2009 data underestimates the number of old-pensioners even more for the later years. For disability pensions, the difference between administrative figures and the observations in EUROMOD is wider. While the number of recipients is underestimated (by 10% in 2009), the total expenditure on this component is overestimated by 12%. The difference between administrative figures and the observation in EUROMOD is even bigger when survivor pensions are concerned. The number of recipients in EUROMOD is underestimated by 23% and the total amount of survivor pensions by 11%. Similarly, benefits disbursed by The Institute of Pension and Invalidity Insurance of Slovenia (attendance supplement, pension support for pensioners, disability supplement and state pension) are all underestimated in terms of recipients and aggregate amounts in EUROMOD data. The differences between EUROMOD data and aggregate statistics on pensions result from EU-SILC data (structure and amounts).

The aggregate amount of scholarships in EUROMOD matches external statistics in 2009, although the number of scholarship recipients is overestimated in EUROMOD. Since 2009, the 2009 scholarship data do not match external statistics so well. EUROMOD data on scholarships are much overestimated especially for year 2012 when legislation changed the rules and the actual number of recipients dropped significantly.

The difference between administrative figures and the observations in SILC for unemployment wage compensation seems wider. It might be misleading, as external statistics refer to average

monthly number of recipients, while the number in EUROMOD refers to the total number of recipients. Since the length of receiving unemployment benefits depends on individual characteristics, it is impossible to assume from administrative sources, how many persons received unemployment benefit during the whole year. However, aggregate amounts refer to yearly totals in aggregate statistics and in EUROMOD. Comparison reveals that unemployment benefit is underrepresented in the data already in 2009, when EUROMOD covers 83% of unemployment wage compensation amount. The number of unemployed and recipients of unemployment benefit was increasing in following years, which increases the gap between EUROMOD predictions and aggregate statistics.

Wage compensation for disabled workers is relatively small benefit and it was imputed in EUROMOD from disability benefits, based on national version of EU-SILC. Number of recipients in EUROMOD totally matches aggregates statistic in 2009, while the aggregate amount is underestimated by 11% in the same year. Since the number of recipients gradually decreases in observed period, the overestimation comes close to 10% in 2013. Consequently total amount for this benefit decreases too, which brings closer ERUOMOD numbers to external aggregates.

The number of parental payment recipients seems much overestimated in EUROMOD, but it might be misleading as external statistics refer to average monthly number of recipients, while the number in EUROMOD refers to the total number of recipients. There are only few parents who receive the benefit through whole calendar year, as there are parents who started receiving the benefit in 2008 and parents who started receiving the benefit in 2009. Parental payment was partly simulated in 2012 and 2013 to reflect decrease in its replacement rate and minimum/maximum thresholds. Thus, the ratio of parental payments in EUROMOD is quite stable through the years. The aggregate amount of parental payment is underestimated by 15% in 2009, regardless the overestimated number of recipients

4.1.3 Validation of outputted (simulated) incomes

[See Annex II for tables]

Table A6 and Table A7 compare statistics on simulated benefits in EUROMOD with data from administrative sources. In terms of total expenditure, the most important simulated benefits are child benefit and social assistance while other benefits contribute only marginally to total household disposable income. Simulated unemployment wage compensation is also validated in this section, although by default the observed unemployment wage compensation is used in the model rather than the simulated variable.

The number of unemployment wage compensation recipients is overestimated in all years, but the simulated results are much better in comparison to EUROMOD data. However, the difference in the number of unemployment wage compensation recipients might be misleading as external statistics refer to average monthly number of recipients, while the number in EUROMOD refers to the total number of recipients in 2009. On the contrary, the total amount of this benefit is underestimated. The simulated unemployment wage compensation covers only 54% of this benefit from original data (EU-SILC) and only 45% of benefit in 2009 compared to aggregate statistics. Since the 2009, the simulated amount of unemployment wage compensation becomes gradually even more underestimated. Thus the decision is not to simulate unemployment benefit in the baseline EUROMOD model.

The number of birth grant recipients and the aggregate amount of benefit is very well simulated. The large family allowance is overestimated, both in terms of recipients (9%) and aggregate amount (16% in 2009 and 10% in 2013).

The numbers of child benefit recipients from administrative sources and from EUROMOD output refer to the number of eligible children. We find that in year 2009 the simulated number of children receiving child benefit is overestimated by 25% when compared to external statistics. This percentage varies from 4% to 29% in observed period. However, the simulated number of children receiving the child benefit in 2009 exceeds the number of dependent children in families receiving this benefit in EU-SILC database only by 8%. There are two possible reasons for overestimation. First, one of eligibility conditions for child benefits in 2009 was that a student must have been enrolled in regular education with a maximum of one year break during the study. Available data do not contain information on educational history and we assume that all students fulfil this eligibility condition for child benefits. Second, there might be also a take-up issue, as child benefits for “high” income families are very low and there are chances that these families do not claim the benefit. However, there are no data on non-take up of child benefits. The total expenditure on this benefit in 2009 is overestimated less, only by 8% in comparison to administrative data, which might again lead as to assumption of benefit non-take up by high income families with low child benefits. In 2013 the simulated total expenditure on child benefits is overestimated by much more, 25%. It might be explained by new legislations, which takes into account also family’s assets when eligibility is assessed and many families were left out of this scheme or they received much lower benefit due to the value of their assets. The assets test was not modeled in EUROMOD due to data limitations in EU-SILC.

EUROMOD simulates only one third of actual recipients of parental allowance in terms of the number of recipients and the aggregate benefit amount. The reason for such a large difference is partly the absence of the contribution history data as paid contributions in previous three years are the basis for eligibility assessment.

Total expenditure of simulated social contributions up to full working time for parents (of children under 3/6 and working part time) is overestimated and the number of parents taking these rights as well. In 2012 and 2013 the simulated number much better reflect actual situation than in earlier years. On the contrary, social contributions up to full working time for parents and leaving labour market are well simulated in 2009 and get less accurate every other year

Social assistance is under-estimated in terms of recipients and in terms of expenditure in period 2009-2011. Similarly to data on unemployment wage compensation recipients, the difference in the number of social assistance recipients might be misleading, as external statistics refers to average monthly number of recipients, while the number in EUROMOD refers to the total number of recipients in 2009. Concerning the expenditure data, the main reason for the difference is the fact that actual entitlement for social assistance depends on incomes in the three previous months. EU-SILC database contains data on annual income and it is implicitly assumed that income is received at the same rate throughout the year, as monthly incomes are simply annual incomes divided by 12. Actual income position of individuals might be drastically changed during one year and three months average can differ from annual average. In 2012 legislation changed with means that eligibility conditions for social assistance are tightened. Besides, significant non take up is expected, as recipients of income support, who own real estate (the value of which is above the value of an appropriate apartment) must agree with the entry of the prohibition of alienation and burdening of real estate in the land book to the benefit of the Republic of Slovenia. The same condition is true also for social assistance recipients under certain conditions (if received the cash social assistance more than twelve times in the past 18 months), and non-take up is expected also for social assistance recipients. Unfortunately, there is no available administrative data on non-take up of benefits This means that new legislation introduced the obligation of paying back the social assistance and income support from the heritage when the deceased was a social assistance or income support recipient. Income support has been introduced only in 2012 and data for 2012 and 2013 show

that the simulated numbers are much too high. It is publicly assumed that not-take-up rate is very high in case of income support.

There are no numbers available for the recipients of the housing benefit, but simulated total housing benefit amount is over-estimated.

Table A6 and Table A7 also compare statistics on PIT simulated by EUROMOD with external sources - Statistical analysis of tax return data. The number of taxpayers from Statistical analysis of tax return data (external source) refers to all persons who filled a tax return, regardless of the amount of paid PIT. There is also a certain number of taxpayers who filled in their own tax return but paid no PIT due to claimed tax allowances. Therefore, the number of taxpayers in EUROMOD does not refer to taxpayers who actually paid some PIT but to the number of persons who were obliged to fill in tax return.

Revenues from PIT simulated by EUROMOD prove that simulated policy and data suit actual situation, as simulated PIT is rather close to actually collected PIT. The number of taxpayers in EUROMOD exceeds the actual number of taxpayers by 2% to 4% in observed period. It should be kept in mind that the number of personal income tax payers refers to the number of persons who have been obliged to file a tax return. On the other hand, the collected PIT is somewhat underestimated when simulated with EUROMOD, as aggregate amount of PIT is lower by 11% in comparison to collected PIT in 2009. In period 2010-2012 the simulated PIT exceeds the actually collected PIT from 9% to 4%. The sum of taxable income (of persons who have to file a tax return) amounts to 16,643 million EUR in EUROMOD in 2009, and is only one per cent higher than taxable income from aggregate statistics on PIT. But on the other hand, data on mean employment income in [Table A3](#) show that employment income in EUROMOD is lower on average. It is expected, as income data is anonymised and very high incomes are replaced by lower values. Due to progressive nature of PIT, the simulated PIT is obviously lower than actually collected PIT. Besides, the simulated number of taxpayers with reduced tax base due to tax allowance for dependent children seems a bit higher than in PIT statistics; in EUROMOD 340 thousands taxpayers claimed this allowance in 2009, which exceeds the actual number by 4%. This overestimation is expected, as students should have been enrolled in regular education with a maximum of one year break during the study (similarly as for child benefit) in order to be considered dependent children for tax purposes. There is no data on educational history, therefore we assume all students fulfil the dependent child condition and the number of taxpayers with dependent child allowance is a bit too high, which leads us to underestimated simulated PIT.

Table A6 and Table A7 also compare statistics on simulated social contributions in EUROMOD with external sources. There are no numbers available for the social security contributions payers. However, external information on total revenues from social contributions shows that EUROMOD simulations have good results.

Employee and employer social contributions are well estimated in 2009 as simulated revenues exceed actually collected employee social contributions only by 6% or 5% respectively. This divergence is entirely explained by the fact that the SILC contains in relative terms too much income from employment (taxable income). Over the years simulated employee and employer contributions do not match actual contributions so well, as simulated employee (employer) contributions overestimate actual employee (employers) contributions by 17% (13%). External statistics on other social contributions include “employee” part social contributions of benefits, which is true for EUROMOD results as well. The EUROMOD data on the amount of other contributions is overestimated for 22% in 2009, 9% in 2010. On the contrary, since 2011, the simulated other contributions are underestimated. Categorization of “other” contributions in the official statistics is very detailed and Euromod simulations are only rough approximation for this category.

Revenues from self-employed social contributions are over-estimated too, unsurprisingly. Self-employment income in EUROMOD is 82% higher compared to the administrative sources. Self-employment income in EU-SILC and also in EUROMOD includes some additional income types which are not treated as the social contributions basis. Therefore, we introduce a new variable *lse00* (from 2009⁵ onwards) for persons who paid taxes on self-employment income, i.e. whose gross self-employment income is higher than net employment income. We assume that only eligible persons (who actually paid some tax on self-employment income) pay social security contributions. Still, we overestimate total self-employed social insurance contributions by 12% in 2009 and by 10% to 22% in period 2010-2013. The reason might lie in the fact, that the base for self-employed social contributions is profit in the previous one or even two years. Assumption in EUROMOD is that incomes and profits in previous years are identical to current income and profit, which might not be the case in real life.

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 is 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

Median disposable income in EUROMOD is very close to the median disposable income reported by Eurostat, which can be seen from Table A8. Simulated median disposable income is lower only by 3% for years 2009 and 2% for 2010-2012. The Gini coefficient and interquartile ratio are also well simulated.

Detailed analysis of disposable income levels of different income deciles shows that we slightly overestimate the share of equalised income in the lowest decile (by 2% in 2009 and 3% in 2010-2012), which may be due to full take-up rates for benefits assumed in the simulations. For all other deciles the deviation between EUROMOD estimates and EU-SILC based Eurostat statistics is small (up to 2% in 2009-2010/2001 and up to 1% in 2011/20012).

4.2.2 Risk-of-poverty rates

Table A9 compares EUROMOD monetary risk-of-poverty rates and the external source poverty figures (Eurostat). The risk-of-poverty rate is underestimated when poverty line is set at 40% of median income. Underestimation of poverty at lower poverty thresholds is expected, as we assume full take-up of social assistance and other benefits, and overestimate housing benefits. The previous table also shows that we overestimate the share of income received by the lowest decile for the same reasons. When poverty threshold is set at 50% of median, income the risk-of-poverty rate is underestimated for total population and females in period 2009-2011, while it is overestimated for all categories in the last period and for males in whole observed period.

At-risk-of-poverty rate at 60% of median income is well matched in the base year (2009) and underestimated by 2-3% in 2010-2012. One reason for this is that we do not take account of the changes in unemployment levels in EUROMOD. For 70% threshold risk-of-poverty rates are slightly overestimated in 2009, levelling out in 2010/2011 and turning into underestimated rates

⁵ Due to differences in the data for years before 2009 we define the base for contributions on self-employment income using information on economic status which must be defined as self-employed (*les* = 2).

in 2011/2012. Here and when interpreting previous results we should take account of our median being slightly lower compared to the EU-SILC based estimate.

Female poverty rates are higher in comparison to male poverty rates. Interestingly, the divergences between EUROMOD and external source poverty rates are lower in case of female poverty rates.

The estimated discrepancy between the poverty figures from EUROMOD incomes and from SILC incomes is not evenly distributed across age groups. Poverty rates among youth (16-24 years) are overestimated by about 4% in 2009/2010, while it is underestimated by about 5% in 2011/2012. It is expected as youth was hit by crisis over-proportionally which is reflected in poverty rates increase. Poverty rates for the primary age group of 25-49 years old is similarly overestimated in 2009/2010, while it drops in 2010/2011 and even more in 2011/2012– the result of not accounting for the changes in employment levels. On the contrary, the poverty rates for the group 50-64 years old rises in 2010/2011 and drops slightly in 2011/2012 in spite of similar overestimation in 2009/2010. The dynamics of the child poverty rates is similar to the adults' in the primary age group, although the starting point in 2009/2010 is at 97% of the EU-SILC based estimate. Poverty rate among the elderly population (65+) is underestimated by 4% in 2009/2010 and 5% in 2010/2011, which can be explained by overestimated pensions in EU-SILC and EUROMOD database. Due to decline in the poverty rate of elderly in the last period, EUROMOD poverty rate for population 65+ becomes overestimated.

4.2.3 Validation of minimum wage

In this section we give a brief overview what is the impact of minimum wage policy, if switched on. In our baseline scenario the minimum wage policy is switched off.

On average minimum wage effect increases total earnings of employees by 0.6% in 2009 and 1% in 2010-2013 (see table Table A10). Almost the same pattern is valid for social contributions, while income tax increases slightly more. Disposable income is increased by 0.3% in 2009 and slightly more in following years (0.4 and 0.5%).

Social assistance expenditure is decreased by 1.4% in 2009. Consequently, inequality (measured by the Gini coefficient) is reduced by 0.2%, while poverty rate is increased by 0.6%. In the following years similar trend continues; social assistance is decreased (it varies from year to year from 2.5% to 1.7%), Gini coefficient is increased while poverty rates are increased in all years except in 2010.

4.3 Summary of “health warnings”

This final section summarises the main findings in terms of particular aspects of the Slovenian part of EUROMOD or its database that should be borne in mind when planning appropriate uses of the model and in interpreting results.

- The sample is relatively small. Care should be taken in interpreting results for small sub-groups.
- The definition of some income source (employment income, self-employment income) in EUROMOD differs from definitions in administrative data.
- The definition of some labour economic status in EUROMOD differs from definition of labour economic status for assessing eligibility for benefits.
- Pension benefits (old-age, disability, survivor) includes pensions and all other benefits disbursed by Institute for Pension and Disability Insurance as attempts to separate these

benefits did not lead to reasonable estimates. Particularly, this should be kept in mind wherever disability pensions are taken into account.

- EUROMOD database contains information on annual income and it is implicitly assumed that income is received at the same rate throughout the year, as monthly incomes are simply annual incomes divided by 12. This especially affects social assistance simulation.
- Unemployment assistance was not simulated and not imputed into data due to very small number of eligible cases in sample although it was in force until 15th July 2006 and gradually phasing out.

5. REFERENCES

Employment service of Slovenia, Annual reports 2007-2012.

(http://www.ess.gov.si/trg_dela/publicistika/letna_porocila)

Employment service of Slovenia, Monthly data.

(http://www.ess.gov.si/trg_dela/publicistika/mesecne_informacije).

Eurostat (2013).

Institute of Macroeconomic Analysis and Development of the Republic of Slovenia (2010). Development report 2010.

(http://www.umar.gov.si/fileadmin/user_upload/publikacije/pr/2010/aDR2010.pdf)

On-line legislation (in Slovene). (<http://zakonodaja.gov.si>)

Pension and Invalidity Insurance Institute of Slovenia, Annual reports 2007-2012.

(<http://www.zpiz.si/wps/wcm/connect/zpiz+internet/zpiz/prvastran/publikacije/letnaporocila>)

Pension and Invalidity Insurance Institute of Slovenia, Monthly data.

(<http://www.zpiz.si/wps/wcm/connect/zpiz+internet/zpiz/prvastran/publikacije/mesecnistatisticnipregledi>)

Statistical Office of the Republic of Slovenia (2013). SI STAT data portal.

(<http://pxweb.stat.si/pxweb/Dialog/statfile1.asp>)

Statistical Office of the Republic of Slovenia (2010). Intermediate Quality Report Eu-Silc-2010, Slovenia.

Tax Administration of the Republic of Slovenia, Annual Report, 2006-2012,

(http://www.durs.gov.si/en/about_the_tax_administration/tax_administration_annual_report/)

The Ministry of Finance (2007-2011). Basic Statistical data on PIT for years 2009, 2010 and 2011 (internal documentation).

The Ministry of Finance (2013). Bulletin of Government Finance - Consolidated General government 1992-2013

(http://www.mf.gov.si/fileadmin/mf.gov.si/pageuploads/tekgib/Bilten_javnih_financ/Konsolidirana_bilanca_javnega_financiranja_1992-2013.xls)

The Ministry of Labour, Family and Social Affairs (2013). Statistics.

(http://www.mdds.gov.si/si/veljavljanje_pravic/statistika/)

ANNEX I: UPDATING FACTORS

	Grp/No	SI_2009	SI_2010	SI_2011	SI_2012	SI_2013	Comment
dataset		SI_2010_a*	SI_2010_a*	SI_2010_a*	SI_2010_a*	SI_2010_a*	
WarnIfNoF...		yes	yes	yes	yes	yes	
factor_name	1	f_default	f_default	f_default	f_default	f_default	
factor_value	1	1	1.0209	1.0422	1.0715	1.0908	default : Eurostat / Harmonized Indices of Consumer Prices (HICP); for 2013 it refers to the HICP of first 9 months; - HICP (2005=100) - Annual Data (average index and rate of change) (prc_hicp_aind) ; INFOTYPE: AVR - Annual average rate of change; - COICOP: CP00 - All-items HICP; http://epp.eurostat.ec.europa.eu/portal/page/portal/hicp/data/database
afc		f_default	f_default	f_default	f_default	f_default	
bfapt		f_default	f_default	f_default	f_default	f_default	
bho		f_default	f_default	f_default	f_default	f_default	
kivho		f_default	f_default	f_default	f_default	f_default	
xhc		f_default	f_default	f_default	f_default	f_default	
xhcmomi		f_default	f_default	f_default	f_default	f_default	
xhcot		f_default	f_default	f_default	f_default	f_default	
xhcart		f_default	f_default	f_default	f_default	f_default	
yds		f_default	f_default	f_default	f_default	f_default	
ypp		f_default	f_default	f_default	f_default	f_default	
factor_name	2	f_yem	f_yem	f_yem	f_yem	f_yem	
factor_value	2	1	1.0389	1.0596	1.0601	1.0506	For 2013 - it refers to the average wage in first 8 months
yivwg		f_yem	f_yem	f_yem	f_yem	f_yem	
yem		f_yem	f_yem	f_yem	f_yem	f_yem	
yembx		f_yem	f_yem	f_yem	f_yem	f_yem	
yemnt		f_yem	f_yem	f_yem	f_yem	f_yem	
yem00		f_yem	f_yem	f_yem	f_yem	f_yem	
yot		f_yem	f_yem	f_yem	f_yem	f_yem	
ypt		f_yem	f_yem	f_yem	f_yem	f_yem	
bhl		f_yem	f_yem	f_yem	f_yem	f_yem	
kfb		f_yem	f_yem	f_yem	f_yem	f_yem	
tad		f_yem	f_yem	f_yem	f_yem	f_yem	
tis		f_yem	f_yem	f_yem	f_yem	f_yem	
xmp		f_yem	f_yem	f_yem	f_yem	f_yem	
xpp		f_yem	f_yem	f_yem	f_yem	f_yem	
yivwg01		0.967	1	1.0389	1.0596	1.0601	factor based on average wage lagged by 1-year (yivwg01 in 2009=2009)
yempv		1	1.0342	1.0743	1.0957	1.0963	factor based on average wage lagged by 1-year (yempv in 2009 = 2008)
bchba		1	1.0313	0.9548	0.9578	0.9587	For 2013 - it refers to the average benefit in first 10 months
bmact		1	1.0296	1.0423	1.0558	0.9905	For 2013 - it refers to the average benefit in first 10 months
bmanc		1	1.0204	1.0279	1.0912	1.1581	For 2013 - it refers to the average benefit in first 10 months
bcrbafh		1	0.974	0.9934	0.9939	0.9850	For 2011-2013; based on 2010 + salary growth
bchlg		1	1.0486	1.0626	1.0626	1.0626	For 2013 - it refers to the actual data on benefit in first 10 months + 7% as 7% of all benefits was paid out in 2012
bchmt		1	1.0187	1.0532	1.1598	1.2203	For 2013 - it refers to the average benefit in first 10 months
bchcc		1	1.0289	1.0434	1.0504	1.0500	For 2013 - it refers to the average benefit in first 10 months
bcrsvcc		1	1.0216	1.2086	1.2461	1.2693	For 2013 - it refers to the average benefit in first 10 months
bed		1	1.0448	1.0445	1.1005	1.1005	For 2013 - we assume it stays the same as in 2012 as there was no indexation
factor_name	3	f_bunct	f_bunct	f_bunct	f_bunct	f_bunct	
factor_value	3	1	1.0209	1.1952	1.2250	1.2320	For 2013 - it refers to the average benefit in first 8 months

EUROMOD Country Report – SLOVENIA

	Grp/No	SI_2009	SI_2010	SI_2011	SI_2012	SI_2013	Comment
bunct		f_bunct	f_bunct	f_bunct	f_bunct	f_bunct	
pdi	1	1.0083	1.0067	0.9681	0.9647		For 2013 - it refers to the average benefit in first 9 months
pdi00	1	1.00833	1.0067	0.9681	0.9647		
poa	1	1.0095	1.0100	0.9934	0.9948		For 2013 - it refers to the average benefit in first 9 months
poact	1	1.0095	1.0100	0.9934	0.9948		
poanc	1	1.0167	1.0264	0	0		
psu	1	1.0043	1.0006	0.9334	0.9087		For 2013 - it refers to the average benefit in first 9 months
psu00	1	1.0043	1.0006	0.9334	0.9087		
yaj	1	0.9772	0.9624	0.9629	0.9542		For 2012-2013; based on 2011 + salary growth
ypr	1	0.8728	0.8213	0.8217	0.8144		For 2012-2013; based on 2011 + salary growth
yse	1	1.0685	1.0548	1.0553	1.0459		For 2012-2013; based on 2011 + salary growth
yse00	1	1.0685	1.0548	1.0553	1.0459		
yst	1	1.0190	1.0344	1.0350	1.0257		For 2012-2013; based on 2011 + salary growth
yyi	1	0.7577	0.6468	0.9297	0.9214		For all years; based on total PIT paid on capital gains; For 2013; based on 2012 + salary growth
bsa00	1	1.0106	1.0285	1.0699	1.1497		For 2013; based on data for 10 months
bsacm	1	1.0106	1.0285	1.0699	1.1497		
bdirw	1	1.0020	0.9877	0.9673	0.9546		For 2013 - it refers to the average benefit in first 9 months
tpr		f_default	f_default	f_default	f_default	f_default	
psact	1	1.0182	1.0248	0	0		
bdixp	1	1.0181	1.0248	1.0292	1.0292		For 2013 - it refers to the average benefit in first 9 months
bdica	1	1.0150	1.0112	1.0160	1.0208		For 2013 - it refers to the average benefit in first 9 months
bfa	1	1	1	1	1		"Keep bfa constant - not used in the model, parts updated"
aggvar_name	4	bun	bun	bun	bun	bun	bun = bunct
aggvar_part	4	bunct	bunct	bunct	bunct	bunct	
aggvar_name	5	poa00	poa00	poa00	poa00	poa00	poa00 = poanc + poact
aggvar_part	5	poanc	poanc	poanc	poanc	poanc	
aggvar_part	5	poact	poact	poact	poact	poact	
aggvar_name	7	bsa	bsa	bsa	bsa	bsa	bsa = bsa00 + bsacm
aggvar_part	7	bsa00	bsa00	bsa00	bsa00	bsa00	
aggvar_part	7	bsacm	bsacm	bsacm	bsacm	bsacm	

Sources: Eurostat: http://epp.eurostat.ec.europa.eu/portal/page/portal/statistics/search_database; employment income: SI-STAT/Average monthly wages (http://pxweb.stat.si/pxweb/Database/Demographics/07_labour_force/10_earnings_costs/01_07010_earnings/01_07010_earnings.asp); indices of income types (self-employment work, contractual work, student work, income from capital, rent): Basic Statistical data on PIT Ministry of Finance (internal documentation); indices of family benefits: The Ministry of Labour, Family and Social Affairs, Statistics, Family allowances (http://www.mdds.gov.si/si/uveljavljanje_pravic/statistika/druz_prejemki_zavarovanje_sv/); indices of unemployment benefits: Employment service of Slovenia, Annual reports (http://www.ess.gov.si/trg_dela/publicistika/letna_porocila) and Monthly reports (http://www.ess.gov.si/trg_dela/publicistika/mesecne_informacije); indices of pensions and disability benefits: Pension and Invalidity Insurance Institute of Slovenia, Annual reports 2009-2011 (<http://www.zpiz.si/wps/wcm/connect/zpiz+internet/zpiz/prvastran/publikacije/letnaporocila>) and Monthly reports (<http://www.zpiz.si/wps/wcm/connect/zpiz+internet/zpiz/prvastran/publikacije/mesecnistatisticnipregledi>).

ANNEX II: VALIDATION

Table A1 Number of employed and unemployed

	EUROMOD	External					Ratio				
	2009	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
Number of employed	882.5	822	799	779	774	748	1.07	1.10	1.13	1.14	1.18
Number of unemployed	94.7	61	76	84	90	107	1.55	1.25	1.13	1.05	0.88

Notes: Number of employed and unemployed computed based on months in employment/unemployment in EUROMOD. Numbers computed as averages of monthly data over the year.

External sources: Statistical Office of the Republic of Slovenia: Labour force survey detailed data (http://www.stat.si/eng/tema_demografsko_trg.asp)

Table A2 Market income in EUROMOD -Number of recipients (in thousands)

	EUROMOD	External					Ratio				
	2009	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
Taxable employment income	823	800	783	769	n.a.	n.a.	1.03	1.05	1.07	n.a.	n.a.
Self-employment income	232	205	170	178	n.a.	n.a.	1.13	1.37	1.30	n.a.	n.a.
Income from contractual work	151	129	136	137	n.a.	n.a.	1.17	1.11	1.10	n.a.	n.a.
Income from student work	150	46	46	44	n.a.	n.a.	3.26	3.26	3.41	n.a.	n.a.
Investment income	400	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Private pensions	16	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Rent income	75	46	59	66	n.a.	n.a.	1.63	1.27	1.14	n.a.	n.a.

Notes: As ratios are calculated with precise figures, there might be some differences due to rounding. * Only taxable employment income are reported here

Sources for earnings: Basic Statistical data on PIT for years 2009, 2010 and 2011; Ministry of Finance.

Table A3 Market income in EUROMOD -Annual amounts (in mil.)

	EUROMOD					External					Ratio				
	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
Av. employment income	1,293	1,343	1,370	1,371	1,358	1,439	1,495	1,525	1,525	1,512	0.90	0.90	0.90	0.90	0.90
Taxable employment income	12,769	13,265	13,530	13,536	13,415	12,526	12,670	12,646	n.a.	n.a.	1.02	1.05	1.07	n.a.	n.a.
Self-employment income	1,135	1,212	1,197	1,197	1,187	624	554	578	n.a.	n.a.	1.82	2.19	2.07	n.a.	n.a.
Income from contractual work	318	311	306	306	304	311	319	316	n.a.	n.a.	1.02	0.97	0.97	n.a.	n.a.
Income from student work	340	346	352	352	349	203	205	201	n.a.	n.a.	1.67	1.69	1.75	n.a.	n.a.
Investment income	202	153	131	188	186	n.a.	n.a.	n.a.	n.a.	N.A.	n.a.	n.a.	n.a.	n.a.	n.a.
Private pensions	8	8	8	9	9	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Rent income	110	96	90	91	90	160	177	186	n.a.	n.a.	0.69	0.54	0.49	n.a.	n.a.

Notes: As ratios are calculated with precise figures, there might be some differences due to rounding.

Sources for earnings: Basic Statistical data on PIT for years 2009, 2010 and 2011; Ministry of Finance.

Table A4 Tax benefit instruments included but not simulated in EUROMOD -Number of recipients/ payers (in thousands)

	EUROMOD	External					Ratio				
	2009	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
Pensions											
Basic old-age pension	346	370	384	401	402	417	0.93	0.90	0.86	0.86	0.83
Basic disability pension	82	92	91	90	89	88	0.90	0.91	0.92	0.93	0.94
Basic survivor pension	71	92	93	93	94	96	0.77	0.76	0.76	0.75	0.73
Other benefits											
Attendance supplement	16	30	30	31	30	30	0.52	0.52	0.50	0.52	0.52
Pension support for pensioners	43	46	47	47	n.a.	n.a.	0.92	0.90	0.90	n.a.	n.a.
State pension	9	16	15	15	n.a.	n.a.	0.57	0.61	0.61	n.a.	n.a.
Disability supplement	51	56	56	56	56	56	0.91	0.91	0.91	0.91	0.91
Scholarship	81	61	63	69	42	n.a.	1.34	1.29	1.18	1.94	n.a.
Parental payment	38	22	22	23	22	21	1.71	1.71	1.64	1.71	1.79
Unemployment wage compensation	64	27	30	36	34	35	2.36	2.12	1.77	1.87	1.82
Wage compensation for disabled workers	51	51	50	49	48	47	1.00	1.02	1.04	1.07	1.09
Paternal payment	19	18	18	18	17	n.a.	1.06	1.06	1.06	1.12	n.a.

Sources: for earnings: Basic Statistical data on PIT for years 2009, 2010 and 2011; Ministry of Finance (internal documentation); for scholarship: Statistical Office of the Republic of Slovenia, SI-Stat Data Portal (http://www.stat.si/pxweb/Database/Demographics/09_education/10_other_data/02_09543_Scholarship/02_09543_Scholarship.asp); for parental and paternal payment: The Ministry of Labour, Family and Social Affairs, Statistics, Family allowances (http://www.mddsz.gov.si/si/uvcljavljanje_pravic/statistika/druz_prejemki_zavarovanje_sv/); for unemployment benefits: Employment service of Slovenia, Annual reports 2009-2012 (http://www.ess.gov.si/trg_dela/publicistika/letna_porocila) and Monthly data (http://www.ess.gov.si/trg_dela/publicistika/mesecne_informacije); for wage compensation for disabled workers and pensions: Pension and Invalidity Insurance Institute of Slovenia, Annual reports 2009-2012 (<http://www.zpiz.si/wps/wcm/connect/zpiz+internet/zpiz/prvastran/publikacije/letnaporocila>) and Monthly data (<http://www.zpiz.si/wps/wcm/connect/zpiz+internet/zpiz/prvastran/publikacije/mesecnistatisticnipregledi>).

Table A5 Tax benefit instruments included but not simulated in EUROMOD -Annual amounts (in mil.)

	EUROMOD					External					Ratio				
	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
Pensions															
Basic old-age pension	2,964	2,992	2,993	2,925	2,929	2,624	2,755	2,883	2,928	3,056	1.13	1.09	1.04	1.00	0.96
Basic disability pension	568	572	571	550	548	509	506	499	487	480	1.12	1.13	1.15	1.13	1.14
Basic survivor pension	394	395	394	368	358	443	448	449	443	441	0.89	0.88	0.88	0.83	0.81
Other benefits															
Attendance supplement	34	35	35	35	35	75	77	78	76	75	0.46	0.45	0.45	0.46	0.47
Pension support for pensioners	47	48	48	0	0	53	54	55	-	-	0.88	0.88	0.87	n.a.	n.a.
State pension	19	20	20	0	0	35	75	81	-	-	0.56	0.26	0.25	n.a.	n.a.
Disability supplement	31	31	32	32	32	35	35	36	36	35	0.88	0.90	0.88	0.88	0.91
Scholarship	128	130	133	150	150	127	137	151	96	n.a.	1.01	0.95	0.88	1.56	n.a.
Parental payment	239	246	249	253	237	282	292	299	294	265	0.85	0.84	0.83	0.86	0.89
Unemployment wage compensation	159	162	190	194	195	192	234	312	296	286	0.83	0.69	0.61	0.66	0.68
Wage compensation for disabled workers	162	163	160	157	155	183	180	172	169	162	0.89	0.90	0.93	0.93	0.96
Paternal payment	14	13	14	14	14	7	7	n.a.	n.a.	n.a.	1.96	1.91	n.a.	n.a.	n.a.

Sources: for earnings: Basic Statistical data on PIT for years 2009, 2010 and 2011; Ministry of Finance (internal documentation); for scholarship: Statistical Office of the Republic of Slovenia, SI-Stat Data Portal (http://www.stat.si/pxweb/Database/Demographics/09_education/10_other_data/02_09543_Scholarship/02_09543_Scholarship.asp); for parental and paternal payment: The Ministry of Labour, Family and Social Affairs, Statistics, Family allowances (http://www.mddsz.gov.si/si/uvcljavljanje_pravic/statistika/druz_prejemki_zavarovanje_sv/); for unemployment benefits: Employment service of Slovenia, Annual reports 2009-2012 (http://www.ess.gov.si/trg_dela/publicistika/letna_porocila) and Monthly data (http://www.ess.gov.si/trg_dela/publicistika/mesecne_informacije); for wage compensation for disabled workers and pensions: Pension and Invalidity Insurance Institute of Slovenia, Annual reports 2009-2012 (<http://www.zpiz.si/wps/wcm/connect/zpiz+internet/zpiz/prvastran/publikacije/letnaporocila>) and Monthly data (<http://www.zpiz.si/wps/wcm/connect/zpiz+internet/zpiz/prvastran/publikacije/mesecnistatisticnipregledi>).

Table A6 Tax benefit instruments simulated in EUROMOD -Number of recipients/ payers (in thousands)

	EUROMOD					SILC Ratio		External					Ratio				
	2009	2010	2011	2012	2013	2009	2009	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
Benefits																	
Unemployment wage compensation	34	34	42	42	47	64	0.54	27	30	36	34	35	1.27	1.14	1.16	1.23	1.36
Birth grant	20	20	20	16	16	19	1.06	20	21	20	15	15	1.02	0.97	1.02	1.05	1.05
Large family supplement	33	33	33	30	30	32	1.02	30	30	30	28	27	1.09	1.09	1.09	1.06	1.09
Child benefit (means tested)	473	474	473	295	294	440	108%	378	374	368	283	239	1.25	1.27	1.29	1.04	1.23
Parental allowance	1	1	1	1	1	5	0.15	3	3	3	3	3	0.25	0.25	0.25	0.25	0.25
Housing benefit	19	19	18	36	36	7	2.85	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Social assistance	30	30	30	69	71	71	0.42	47	54	52	48	49	0.63	0.55	0.58	1.44	1.44
Income support	0	0	0	34	36	0	n.a.	-	-	-	11	9	n.a.	n.a.	n.a.	3.11	4.03
Social contributions up to full working time for parents (part time work)	14	14	14	14	14			8	9	9	11	12	1.78	1.58	1.58	1.29	1.19
Social contributions up to full working time for parents (not working)	1	1	1	1	1	12	1.25										
	1	1	1	1	1			1	1	1	2	2	0.73	0.73	0.73	0.36	0.36
Taxes and Social Insurance contributions																	
Personal income tax	1,050	1,050	1,052	1,045	1,036	n.a.	n.a.	1,034	1,013	1,014	n.a.	n.a.	1.02	1.04	1.03	n.a.	n.a.
Tax on investment income	400	400	400	400	400	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Employee contributions	826	826	826	826	826	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Self-employed contributions	74	74	74	74	74	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Employer contributions	881	881	881	881	881	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Other contributions	180	180	180	179	179	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Notes: The number of PIT taxpayers in EUROMOD does not refer to taxpayers who actually paid some PIT but to persons who were obliged to fill in tax return. Data for external benefits recipients and tax payers in 2013 are assessed on the basis of the dynamics of individual categories in the first (mostly three quarters) of the year. Other contributions include credited social contributions up to full working time for parents and for parents who exit labour market, and employee part of social contributions paid on benefits (unemployment wage compensation, contributory parental payments)

Sources: for family benefits: The Ministry of Labour, Family and Social Affairs, Statistics, Family allowances (http://www.mddsz.gov.si/si/uvcljavljanje_pravic/statistika/druz_prejemki_zavarovanje_sv/); for unemployment benefits: Employment service of Slovenia, Annual reports 2009-2012 (http://www.ess.gov.si/trg_dela/publicistika/letna_porocila) and Monthly data (http://www.ess.gov.si/trg_dela/publicistika/mesecne_informacije); for housing benefit Statistical Office of the Republic of Slovenia, Statistical yearbook (<http://www.stat.si/letopis/letopisprvastran.aspx?lang=en>); for social assistance: The Ministry of Labour, Family and Social Affairs, Statistics, (http://www.mddsz.gov.si/fileadmin/mddsz.gov.si/pageuploads/dokumenti_pdf/excel/po_vrstah_nov2011.xls) and internal documents of The Ministry of Labour, Family and Social Affairs; for income support: internal documents of The Ministry of Labour, Family and Social Affairs; for taxes: Basic Statistical data on PIT for years 2009, 2010 and 2011; Ministry of Finance (internal documentation); for social contributions: Ministry of Finance, Consolidated General government 1992-2013, http://www.mf.gov.si/fileadmin/mf.gov.si/pageuploads/tekzib/Bilten_javnih_financ/Konsolidirana_bilanca_javnega_financiranja_1992-2013.xls.

Table A7 Tax benefit instruments simulated in EUROMOD -Annual amounts (Mil.)

	EUROMOD					SILC					Ratio					External					Ratio				
	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
Benefits																									
Unemployment wage compensation	86	93	113	112	121	159	162	190	194	195	0.54	0.57	0.59	0.62	0.81	192	234	312	296	286	0.45	0.40	0.36	0.38	0.42
Birth grant	6	6	6	4	4	5	5	5	5	5	1.05	1.04	1.14	0.89	1.04	6	6	6	4	4	0.92	0.94	0.95	1.11	1.11
Large family supplement	13	13	13	12	12	13	13	14	14	14	1.00	0.97	0.97	0.89	0.94	11	12	12	11	11	1.16	1.09	1.11	1.10	1.10
Child benefit (means tested)	311	320	324	274	275	306	311	322	354	373	1.02	1.03	1.01	0.78	0.82	287	290	294	250	221	1.08	1.10	1.10	1.10	1.25
Parental allowance	2	2	2	2	2	6	7	7	7	8	0.27	0.27	0.27	0.32	0.86	6	6	6	6	7	0.29	0.29	0.30	0.38	0.33
Housing benefit	19	19	18	39	39	3	3	3	3	3	6.02	5.96	5.63	11.8	0.92	3	n.a.	n.a.	n.a.	n.a.	6.24	n.a.	n.a.	n.a.	n.a.
Social assistance	71	74	76	220	226	117	118	120	125	134	0.61	0.63	0.63	1.81	0.87	127	148	133	139	154	0.56	0.50	0.57	1.59	1.46
Income support	0	0	0	42	44	0	0	0	0	0	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	19	n.a.	n.a.	n.a.	2.19	n.a.	
Social contributions up to full working time for parents (part time work)	15	18	19	19	19	15	18	19	19	19	1.00	1.00	1.00	1.00	1.00	7	10	11	13	14	2.08	1.82	1.68	1.45	1.38
Social contributions up to full working time for parents (not working)	2	2	3	3	3	2	2	3	3	3	1.00	1.00	1.00	1.00	1.00	2	3	4	4	4	0.99	0.82	0.63	0.64	0.66

Taxes and Social Insurance contributions																								
Personal income tax	1,741	1,867	1,831	1,778	1,664	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,961	1,939	1,976	1,962	n.a.	0.89	0.96	0.93	0.91	n.a.
Tax on investment income	40	31	26	38	46	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	129	98	84	120	n.a.	0.31	0.31	0.31	0.31	n.a.
Employee contributions	2,903	3,016	3,076	3,077	3,050	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	2,743	2,771	2,774	2,701	2,608	1.06	1.09	1.11	1.14	1.17
Self-employed contributions	302	336	338	340	343	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	269	275	281	310	304	1.12	1.22	1.20	1.10	1.13
Employer contributions	2,134	2,216	2,259	2,260	2,249	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	2,037	2,058	2,060	2,067	1,990	1.05	1.08	1.10	1.09	1.13
Other contributions	137	142	149	148	145	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	112	130	152	166	184	1.23	1.09	0.98	0.89	0.79

Notes: Data for external benefits and taxes amounts in 2013 are assessed on the basis of the dynamics of individual categories (mostly) in the first three quarters of the year.

Sources: for family benefits: The Ministry of Labour, Family and Social Affairs, Statistics, Family allowances

(http://www.mddsz.gov.si/si/uvcljavljanje_pravic/statistika/druz_prejemki_zavarovanje_sv/); for unemployment benefits: Employment service of Slovenia, Annual reports 2009-2012 (http://www.ess.gov.si/trg_dela/publicistika/letna_porocila) and Monthly data (http://www.ess.gov.si/trg_dela/publicistika/mesecne_informacije); for housing benefit Statistical Office of the Republic of Slovenia, Statistical yearbook 2013 (<http://www.stat.si/letopis/letopisprvastran.aspx?lang=en>); for social

assistance: The Ministry of Labour, Family and Social Affairs, Statistics,

(http://www.mddsz.gov.si/fileadmin/mddsz.gov.si/pageuploads/dokumenti_pdf/excel/po_vrstah_nov2011.xls) and internal documents of The Ministry of Labour,

Family and Social Affairs; for income support: internal documents of The Ministry of Labour, Family and Social Affairs; for taxes: Basic Statistical data on PIT for

years 2009, 2010 and 2011; Ministry of Finance (internal documentation); for social contributions: Ministry of Finance, Consolidated General government 1992-2013,

http://www.mf.gov.si/fileadmin/mf.gov.si/pageuploads/tekgib/Bilten_javnih_financ/Konsolidirana_bilanca_javnega_financiranja_1992-2013.xls

Table A8 Distribution of equivalised disposable income

	EUROMOD (I)					External (II)				Ratio (I/II)		
	2009	2010	2011	2012	2013	2009	2010	2011	2012	2009/2010	2010/2011	2011/2012
D1	4.06	4.03	4.01	4.18	4.20	4.10	4.00	3.90	3.90	1.02	1.03	1.03
D2	5.82	5.78	5.81	5.80	5.79	6.10	5.90	5.80	5.80	0.99	1.00	1.00
D2	5.82	5.78	5.81	5.80	5.79	6.10	5.90	5.80	5.80	0.99	1.00	1.00
D3	6.96	6.96	6.97	6.98	6.95	7.20	7.10	7.10	7.00	0.98	0.98	1.00
D4	7.85	7.85	7.90	7.88	7.87	8.10	7.90	8.00	8.00	0.99	0.98	0.99
D5	8.76	8.77	8.80	8.75	8.73	8.90	8.80	8.90	8.90	1.00	0.99	0.99
D6	9.72	9.73	9.76	9.73	9.71	9.80	9.70	9.80	9.80	1.00	0.99	1.00
D7	10.78	10.83	10.83	10.77	10.76	10.80	10.80	10.80	10.90	1.00	1.00	0.99
D8	12.14	12.19	12.20	12.13	12.13	11.90	12.10	12.10	12.10	1.00	1.01	1.01
D9	14.13	14.15	14.14	14.07	14.09	13.80	14.00	13.90	14.00	1.01	1.02	1.01
D10	19.77	19.69	19.59	19.69	19.77	19.30	19.70	19.80	19.60	1.00	0.99	1.00
Median	11,428	11,708	11,933	11,949	11,889	11,864	11,736	11,999	12,122	0.97	0.98	0.98
Mean	12,375	12,662	12,868	12,951	12,925	12,743	12,653	12,885	12,972	0.98	0.98	0.99
Gini	23.98	24.02	23.89	23.74	23.84	22.70	23.80	23.80	23.70	1.01	1.01	1.01
S80/S20	3.43	3.45	3.43	3.38	3.39	3.20	3.40	3.50	3.40	1.01	0.99	1.01

Notes: 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.

Sources: Eurostat (2011): Statistics Database, http://epp.eurostat.ec.europa.eu/portal/page/portal/statistics/search_database.

* Eurostat EU-SILC based estimates refer to the data collection period, while EUROMOD estimates refer to income reference period. In order to validate EUROMOD results, Eurostat statistics are lagged by one year to correspond to the EUROMOD estimates.

Table A9 Distribution of equivalised disposable income

	EUROMOD (I)					External (II)				Ratio (I/II)		
	2009	2010	2011	2012	2013	2009	2010	2011	2012	2009/2010	2010/2011	2011/2012
40% median HDI												
Total	2.69	2.81	2.90	1.80	1.72	2.70	3.10	3.20	3.30	0.87	0.88	0.88
Males	2.94	3.08	3.12	2.09	2.01	2.80	3.30	3.20	3.70	0.89	0.96	0.84
Females	2.45	2.54	2.69	1.51	1.43	2.70	3.00	3.20	3.00	0.82	0.79	0.90
50% median HDI												
Total	7.24	7.33	7.64	7.04	6.99	6.50	7.30	7.70	7.40	0.99	0.95	1.03
Males	6.88	6.95	7.02	6.17	6.08	5.60	6.70	6.80	7.00	1.03	1.02	1.00
Females	7.59	7.71	8.26	7.89	7.88	7.50	7.90	8.60	7.80	0.96	0.90	1.06
60% median HDI												
Total	12.85	13.22	13.19	12.88	12.82	11.30	12.70	13.60	13.50	1.01	0.97	0.98
Males	11.58	11.93	11.75	11.25	11.17	9.80	11.30	12.20	12.50	1.02	0.98	0.94
Females	14.10	14.50	14.60	14.50	14.43	12.80	14.10	15.00	14.60	1.00	0.97	1.00
70% median HDI												
Total	20.29	20.34	20.31	20.13	20.02	18.20	19.70	20.30	20.70	1.03	1.00	0.98
Males	18.93	18.88	18.69	18.30	18.21	16.20	18.30	18.80	19.50	1.03	1.00	0.96
Females	21.63	21.78	21.90	21.94	21.79	20.10	21.20	21.70	21.90	1.02	1.00	1.00
60% median HDI												
0-15 years	12.24	12.11	12.28	10.46	10.42	11.20	12.60	14.80	13.70	0.97	0.82	0.90
16-24 years	10.89	11.15	10.99	10.39	10.14	8.40	10.50	10.80	11.60	1.04	1.03	0.95
25-49 years	10.57	10.86	10.44	9.18	9.16	8.40	10.00	11.40	11.70	1.06	0.95	0.89
50-64 years	13.84	14.51	14.35	14.99	14.94	11.70	13.30	12.80	13.20	1.04	1.13	1.09
65+ years	19.28	20.07	21.04	23.68	23.56	20.00	20.20	20.90	19.60	0.95	0.96	1.07

Notes: 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.

Sources: Eurostat (2013): Statistics Database, http://epp.eurostat.ec.europa.eu/portal/page/portal/statistics/search_database.

* Eurostat EU-SILC based estimates refer to the data collection period, while EUROMOD estimates refer to income reference period. In order to validate EUROMOD results, Eurostat statistics are lagged by one year to correspond to the EUROMOD estimates.

Table A10 Minimum wage validation

	Baseline					Min Wage Incl.					Ratio				
	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
Total amount in mln. EURO:															
Disposable income	16,269	16,629	16,887	16,992	16,959	16,312	16,708	16,963	17,062	17,041	1.00	1.00	1.00	1.00	1.00
Taxable employment income	12,769	13,265	13,530	13,536	13,415	12,843	13,396	13,662	13,678	13,577	0.99	0.99	0.99	0.99	0.99
Non-taxable employment income	1,030	1,070	1,091	1,092	1,082	1,030	1,070	1,091	1,092	1,082	1.00	1.00	1.00	1.00	1.00
Personal income tax	1,741	1,867	1,831	1,778	1,664	1,753	1,887	1,852	1,800	1,688	0.99	0.99	0.99	0.99	0.99
Employee contributions	2,903	3,016	3,076	3,077	3,050	2,919	3,045	3,105	3,109	3,085	0.99	0.99	0.99	0.99	0.99
Social assistance	71.40	74.21	75.67	220.33	225.55	70.40	72.37	73.75	216.55	220.66	1.01	1.03	1.03	1.02	1.02
Gini (Eq HDI)	23.98	24.02	23.89	23.74	23.84	23.94	23.93	23.81	23.68	23.75	1.00	1.00	1.00	1.00	1.00
At poverty risk (60% median HDI)	12.85	13.22	13.19	12.88	12.82	12.93	13.19	13.19	12.90	12.94	0.99	1.00	1.00	1.00	0.99